NATURE RESERVE

NATCHEZ TRACE PARKWAY

PLOT DATA COLLECTED 2004 & 2005

VEGETATION CLASSIFICATION

PLOT FIELD FORMS

NATR.1 – NATR.93

LEGACY DATA COLLECTED BY THE NATURE CONSERVANCY - TENNESSEE FIELD OFFICE IN 1995

LACKS GPS DATA (NOT COLLECTED)
LOCATIONS VAGUE
PLOTS WERE USED FOR VEGETATION CLASSIFICATION

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95, Plot NATR.1

Annotated by: CWN

Annotation Date (D-M-Y): 7/22/04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7244	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.1

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 3E/16B

Survey Site: Natchez Trace Parkway

Surveyors: D. Campbell, B. Brown, G. Call

Survey Date: 1995-03-23

Revisit: Y
Why?: Revisited on 1995-07-28 to pick up seasonal species.

Directions:
Pontotoc County, Mississippi

General Vegetation:
Quercus falcata-Quercus alba-(Quercus stellata)-Carya (glabra, alba, pallida) Forest Alliance: dry oak-hickory forests of the East Gulf Coast Plain, Piedmont, low mountains, and Eastern Interior Plateau. Distribution: AL, FL, GA, KY, LA, MS, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Carya ovata-3, Quercus falcata-3, Quercus shumardii-2, Quercus alba-1, Carya tomentosa-1
Sub-Canopy			Cornus florida-4, Ulmus alata-3, Carya tomentosa-3, Liquidambar styraciflua-3, Prunus serotina-1
Tall Shrub/Sapling			Vaccinnium arboreum-2, Aralia spinosa-1
Short Shrub/Sapling			Callicarpa americana-2
Emergent Tree			Ulmus alata-3, Cornus florida-3, Carya glabra-2, Liquidambar styraciflua-2
Total Herbaceous	Y		
Graminoid			Arundinaria gigantea-3
Forb			Viola spp-1
Fern			

NATR.1

Non-Vascular

Epiphyte

Vine/Liana

General Description:
1-5% slope, open understory, stream.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:
Prior clearcut activity evidenced by erosion.

Weedy Species:

Exotic Species: COMMON
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:
Early successional stage.

General Comments:
Picture Nos. 21-22, Roll 1.

Additional Species
Downy woodpecker.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95, Plot NATR.2

Annotated by: CWN

Annotation Date (D-M-Y): 7 / 22 / 04

****

Method of assignment:

☐ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7312	2	M		could be 5033 Acer negundo Forest, is recovering from disturbance

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.2

Observation Point Number: 3C/7A

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-03-24

Revisit: Y
Why?: Revisited on 1995-07-28 to pick up seasonal species.

Directions:
Lee County, Mississippi

General Vegetation:
Betula nigra-(Platanus occidentalis) Forest Alliance: riverfronts in areas with repeated, frequent, natural disturbances. Distribution: AL, AR, GA. KY LA, MS, NC, OK, SC, TN, TX, [IL, IN, MO, VA, WV]. Some may occur along larger streams and rivers, especially with a sandy substrate. Synonymy: riverfront forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Betula nigra-2, Acer negundo-2, Ulmus americana-2, Quercus nigra-2, Populus deltoides-2
Sub-Canopy			Acer negundo-4, Ulmus americana-2, Cercis canadensis-1
Tall Shrub/Sapling			Ligustrum vulgare-2, Sambucus canadensis-1
Short Shrub/Sapling			
Emergent Tree			Acer negundo-2, Quercus phellos, 1, Quercus nigra-1
Total Herbaceous	Y		
Graminoid			
Forb			Commelina virginica-3
Fern			

NATR.2

Non-Vascular

Epiphyte

Vine/Liana Rubus spp-2, Vitis spp-1, Smilax bona-nox-2

General Description:
Creekside site with white, sandy soils and evidence of beaver activity (tracks, dam).

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:
Disturbance evident, but nature of disturbance unknown.

Weedy Species:

Exotic Species: OCCASSIONAL
Lonicera japonica, Ligustrum vulgare

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:
Early successional stage.

General Comments:
Picture No. 23, Roll 1.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95, Plot NATR .3

Annotated by: CWN

Annotation Date (D-M-Y): 7 / 22 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7244	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.3

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 3C/9

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-03-24

Revisit: Y
Why?: Revisited on 1995-07-29 to pick up seasonal species.

Directions:
Lee County, Mississippi

General Vegetation:
Quercus falcata-Quercus alba-(Quercus stellata)-Carya (glabra, alba, pallida) Forest Alliance: dry oak-hickory forests of the East Gulf Coast Plain, Piedmont, low mountains, and Eastern Interior Plateau. Distribution: AL, FL, GA, KY, LA, MS, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-2, Quercus falcata-2, Liriodendron tulipifera-2, Quercus nigra-2, Betula nigra-2
Sub-Canopy			Ostrya virginiana-3, Liquidambar styraciflua-3, Nyssa sylvatica-2, Cornus florida-1
Tall Shrub/Sapling			Vaccinium arboreum-1, Sambucus canadensis-1, Aralia spinosa-1
Short Shrub/Sapling			
Emergent Tree			Ostrya virginiana-3, Prunus serotina-2, Quercus nigra-2, Acer rubrum-2, Quercus phellos-1
Total Herbaceous	Y		
Graminoid			
Forb			Tipularia discolor-1, Viola spp-1,

NATR.3

Potentilla simplex-1

Fern

Non-Vascular

Epiphyte

Vine/Liana Smilax bona-nox-1, Vitis spp-1

General Description:
10% slope, SE aspect, hardwoods located on NE slope, rushes in bottom.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:
Culvert built near road in the bottom.

Weedy Species:

Exotic Species: OCCASIONAL
Lonicera japonica, Ligustrum vulgare

Hydrologic Alteration:
CULVERT
Hydrology Comments:

Succession Comments:
Sub-climax stage.

General Comments:
Picture Nos. 28-29, Roll 1.

Additional Species
Hooting barred owl, singing red-bellied woodpecker, Carolina wren, hairy
woodpecker, yellow-bellied sapsucker. Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95, Plot NATR . 4

Annotated by: CWN

Annotation Date (D-M-Y): 7 / 22 / 04

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7246	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.4

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 3C/16

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-03-24

Revisit:
Why?:

Directions:
Lee County, Mississippi

General Vegetation:
Quercus falcata-Quercus alba-(Quercus stellata)-Carya (glabra, alba, pallida) Forest Alliance: dry oak-hickory forests of the East Gulf Coast Plain, Piedmont, low mountains, and Eastern Interior Plateau. Distribution: AL, FL, GA, KY, LA, MS, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus falcata-2, Quercus stellata-1, Quercus nigra-1, Liriodendron tulipifera-1
Sub-Canopy			Liquidambar styraciflua-2
Tall Shrub/Sapling			Vaccinium arboreum-1
Short Shrub/Sapling			
Emergent Tree			Liquidambar styraciflua-2, Acer rubrum-2, Liriodendron tulipifera-1, Quercus nigra-1, Prunus serotina-1
Total Herbaceous	Y		
Graminoid			
Forb			
Fern			

NATR.4

Non-Vascular

Epiphyte

Vine/Liana Smilax spp-1, Smilax bona-nox-1

General Description:
Stream and seep traverse site.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:
Erosion suggests old field or pasture.

Weedy Species:

Exotic Species: OCCASIONAL
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:
Early successional stage from old field or pasture.

General Comments:
Picture No. 30, Roll 1.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC 95, Plot NATR.5

Annotated by: CWN

Annotation Date (D-M-Y): 7/22/04

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7244	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR. 5

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 3C/18

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-03-24

Revisit:
Why?:

Directions:
Lee County, Mississippi

General Vegetation:
Quercus falcata-Quercus alba-(Quercus stellata)-Carya (glabra, alba, pallida) Forest Alliance: dry oak-hickory forests of the East Gulf Coast Plain, Piedmont, low mountains, and Eastern Interior Plateau. Distribution: AL, FL, GA, KY, LA, MS, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-2, Quercus falcata-2, Carya tomentosa-2
Sub-Canopy			Cornus florida-2, Acer rubrum-1, Juniperus virginiana-1
Tall Shrub/Sapling			Vaccinium arboreum-1
Short Shrub/Sapling			Rosa spp-1
Emergent Tree			Carya tomentosa-2, Prunus serotina-1
Total Herbaceous	Y		
Graminoid			
Forb			Elephantopus spp-1, Potentilla simplex-1
Fern			
Non-Vascular			
Epiphyte			

NATR.5

Vine/Liana Vitis spp-1, Smilax spp-1

General Description:
Semi-mesic bottom surrounded by sub-xeric ridges.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture No. 31, Roll 1.

Additional Species
Sighted 2 5-6 ", gray-brown lizards on Q. falcata with 2 parallel lines of
light spots. Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC 95, Plot NATR.6

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 15 / 2004

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
4771	2	H		lacks Q. alba

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.6

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 3C/27

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-03-27

Revisit:
Why?:

Directions:
Itawamba County, Mississippi

General Vegetation:
Quercus nigra-Quercus pagoda Forest Alliance: forests along rivers in the Coastal Prairie region of southwestern LA (typically). Celtis laevigata should be nominal. May be seasonal flooded. Distribution: LA, TX? (typically).

DOMINANT VEGETATION

Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%

Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

NATR.6

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 2
04/08/96

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus phellos-2, Quercus nigra-2, Quercus pagoda-2
Sub-Canopy			Acer rubrum-2
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			Liquidambar styraciflua-2, Quercus phellos-1, Acer rubrum-1
Total Herbaceous	Y		
Graminoid			
Forb			
Fern			
Non-Vascular			Lycopodium lucidulum-2
Epiphyte			
Vine/Liana			

General Description:
Wet, flat bottom with some species indicating acidic soil.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: OCCASIONAL
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

NATR.6

General Comments:
Picture No. 35, Roll 1.

Additional Species
Singing eastern tufted titmouse.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC 95, Plot NATR.7

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 15 / 2004

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
4771	2	H		Lacks Q. alba

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.7

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 3C/28

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-03-27

Revisit:
Why?:

Directions:
Itawamba County, Mississippi

General Vegetation:
Quercus nigra-Quercus pagoda Forest Alliance: forests along rivers in the Coastal Prairie region of southwestern LA (typically). Celtis laevigata should be nominal. May be seasonal flooded. Distribution: LA, TX? (typically).

DOMINANT VEGETATION

Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%

Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

NATR.7

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 2
04/08/96

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus pagoda-2, Quercus phellos-2, Quercus nigra-2
Sub-Canopy			Cornus florida-2, Carpinus caroliniana-2
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			Ulmus alata-2, Carpinus caroliniana-1
Total Herbaceous	Y		
Graminoid			
Forb			Galium aparine-2
Fern			
Non-Vascular			
Epiphyte			
Vine/Liana			

General Description:
Wet, flat bottomland.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: COMMON
Lonicera japonica, Ligustrum vulgare

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

NATR.7

General Comments:
Picture No. 34, Roll 1.

Additional Species
Sylvilagus spp.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95, Plot NATR . 8

Annotated by: CWN

Annotation Date (D-M-Y): 7 / 22 / 04

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7217	1	H		WAS in Quercus falcata Alliance (i.e. 7244)

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR-8

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD
04/08/96

Observation Point Number: 3C/30A

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-03-27

Revisit:
Why?:

Directions:
Itawamba County, Mississippi

General Vegetation:
Quercus falcata-Quercus alba-(Quercus stellata)-Carya (glabra, alba, pallida) Forest Alliance: dry oak-hickory forests of the East Gulf Coast Plain, Piedmont, low mountains, and Eastern Interior Plateau. Distribution: AL, FL, GA, KY, LA, MS, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus nigra-2, Liquidambar styraciflua-2, Quercus falcata-2
Sub-Canopy			Cornus florida-2, Liquidambar styraciflua-2
Tall Shrub/Sapling			Vaccinium arboreum-2
Short Shrub/Sapling			
Emergent Tree			Liquidambar styraciflua-2, Prunus serotina-2
Total Herbaceous	Y		
Graminoid			
Forb			
Fern			
Non-Vascular			

NATR.8

Epiphyte

Vine/Liana Rubus spp-1, Vitis spp-1

General Description:
5% slope, NW aspect, site slopes down into a semi-mesic secondary stream bottom.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: COMMON
Lonicera japonica, almost 100% of the ground cover in bottom.

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture No. 32, Roll 1

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95, Plot NATR .9

Annotated by: CWN

Annotation Date (D-M-Y): 7/ 22/ 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7244	2	M		?

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR-9

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 3C/30B

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-03-27

Revisit:
Why?:

Directions:
Itawamba County, Mississippi

General Vegetation:
Quercus falcata-Quercus alba-(Quercus stellata)-Carya (glabra, alba, pallida) Forest Alliance: dry oak-hickory forests of the East Gulf Coast Plain, Piedmont, low mountains, and Eastern Interior Plateau. Distribution: AL, FL, GA, KY, LA, MS, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus nigra-2, Quercus falcata-2
Sub-Canopy			Cornus florida-2, Liquidambar styraciflua-2
Tall Shrub/Sapling			Vaccinium arboreum-2
Short Shrub/Sapling			
Emergent Tree			Liquidambar styraciflua-2, Prunus serotina-2
Total Herbaceous	Y		
Graminoid			
Forb			
Fern			
Non-Vascular			
Epiphyte			

NATR.9

Vine/Liana Smilax spp-1

General Description:

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: COMMON
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture No. 33, Roll 1

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC 95, Plot NATR.10

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 15 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
2099	2	M		lacks Q. shumardii & Liquidambar
4771	2	M		Lacks Q. alba & Chasmanthium

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.10

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 3B/7

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-03-28

Revisit:
Why?:

Directions:
Itawamba County, Mississippi

General Vegetation:
Quercus nigra-Quercus pagoda Forest Alliance: forests along rivers in the Coastal Prairie region of southwestern LA (typically). Celtis laevigata should be nominal. May be seasonal flooded. Distribution: LA, TX? (typically).

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

NATR.10

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 2
04/08/96

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus michauxii-2, Quercus nigra-2, Quercus phellos-2
Sub-Canopy			Carya ovata-2, Acer rubrum-2
Tall Shrub/Sapling			Ilex decidua-2, Sambucus canadensis-1
Short Shrub/Sapling			
Emergent Tree			Quercus phellos-2, Ulmus alata-2
Total Herbaceous	Y		
Graminoid			Arundaria gigantea-2
Forb			Cardamine bulbosa-3, Galium tinctorium-2
Fern			
Non-Vascular			
Epiphyte			
Vine/Liana			

General Description:
10% slope, W aspect, broad, flat, wet bottom with wet and mucky soil appears to flood seasonally.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: COMMON
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

NATR.10

General Comments:

Additional Species
White-tailed deer tracks.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC 95 Plot NATR.11

Annotated by: CWN

Annotation Date (D-M-Y): 9/17/2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
4771	2	H		plot lacks Q. phellos or Q. alba

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.11

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD
04/08/96

Observation Point Number: 3B/24

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-04-14

Revisit: Y
Why?: Revisited on 1995-07-28 to pick up seasonal species.

Directions:
Mississippi

General Vegetation:
Quercus nigra-Quercus pagoda Forest Alliance: forests along rivers in the Coastal Prairie region of southwestern LA (typically). Celtis laevigata should be nominal. May be seasonal flooded. Distribution: LA, TX? (typically). OR Liquidambar styraciflua-(Liriodendron tulipifera, Acer rubrum) Wetland Temporarily-Flooded Forest Alliance: successional to sweetgum-mixed bottomland oaks, moderately wet floodplain forests of the lower Piedmont and Coastal Plain. Distribution: AL, AR, FL, GA, KY, LA?, MS NC, SC, TN. Synonymy: montane alluvial forest, in part, Piedmont/low mountain alluvial forest, rocky bar and shore.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus nigra-3, Liquidambar styraciflua-2, Liriodendron tulipifera-2
Sub-Canopy			Liquidambar styraciflua-3, Acer rubrum-2
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			Magnolia virginiana-3, Acer rubrum-2, Nyssa sylvatica-2
Total Herbaceous	Y		
Graminoid			Arundinaria gigantea-4
Forb			Amphicarpa bracteata-3, Decumaria barbara-3

NATR.11

Fern Athyrium filix-femina-3

Non-Vascular

Epiphyte

Vine/Liana Toxicodendron radicans-3

General Description:
15% slope, NE aspect, broad, flat, mesic bottom traversed by deeply-cut stream with shallow, sluggish secondary branches. Rises into upland hardwoods at site's SW extreme.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: COMMON
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:
Human-made dike constructed approx. 75 yards off Trace, indicates possible agricultural use in past.

Succession Comments:

General Comments:
Picture Nos. 5,7,9 Roll 3.

Additional Species
Beaver cuttings near stream.
Singing pileated woodpecker, red-eyed vireo, red-bellied woodpecker, blue-gray gnatcatcher, summer tanager.
Flushed bobwhite quail.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC 95, Plot NATR. 12

Annotated by: CWN

Annotation Date (D-M-Y): 4 / 4 / 2007

****

Method of assignment:

☑ inspection ☑ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:

Other Comments: Unclassified – Legacy data inadequate

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.12

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD
04/08/96

Observation Point Number: 3A/8

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-04-13

Revisit:
Why?:

Directions:
Mississippi

General Vegetation:
Quercus alba-Quercus (coccinea, velutina, rubra)-Carya (alba, glabra, ovata Forest Alliance: dry oak-hickory forests mainly of the interior highlands, Piedmont and Blue Ridge. Distribution: AL, GA, NC, SC, TN, [VA?]. Synonymy: montane oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

NATR, 12

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 2

04/08/96

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Betula nigra-2, Quercus alba-2
Sub-Canopy			Ostrya virginiana-2, Acer rubrum-2, Carpinus caroliniana-2
Tall Shrub/Sapling			Hydrangea quercifolia-2
Short Shrub/Sapling			
Emergent Tree			Carpinus caroliniana-2, Ostrya virgiana-2
Total Herbaceous	Y		
Graminoid			
Forb			
Fern			
Non-Vascular			
Epiphyte			
Vine/Liana			Smilax spp-2

General Description:
5-20% slope, SE aspect, steep streamside bank with large, free-flowing stream.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: COMMON
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:
Possible former pasture land.

NATR.12

General Comments:
Picture No. 4, Roll 3.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC 95 Plot NATR_13

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 17 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7330	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.13

Observation Point Number: 3A/16A

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-04-13

Revisit:
Why?:

Directions:
N of Trace, Mississippi

General Vegetation:
Quercus nigra-Quercus pagoda Forest Alliance: forests along rivers in the Coastal Prairie region of southwestern LA (typically). Celtis laevigata should be nominal. May be seasonal flooded. Distribution: LA, TX? (typically).

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

NATR.13

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD
04/08/96

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Liriodendron tulipifera-2, Liquidambar styraciflua-2
Sub-Canopy			Cornus florida-2, Acer rubrum-2
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			
Total Herbaceous			
Graminoid			
Forb			
Fern			
Non-Vascular			
Epiphyte			
Vine/Liana			

General Description:

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: COMMON
Lonicera japonica, Ligustrum vulgare

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

NATR.13

General Comments:
Picture No. 2, Roll 3.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC 95 Plot NATR 14

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 7 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7881	1	H		Also has high Liriodendron tulipifera

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.14

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 3A/19

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-04-13

Revisit: Y
Why?: Revisited on 1995-07-29 to pick up seasonal species.

Directions:
SE of Trace, Mississippi

General Vegetation:
Fagus grandifolia-Quercus alba Forest Alliance: forests with more than 25% of both Q. alba and F. grandifolia that typically occur on mesic slopes and small stream bottoms in the Coastal Plain. Distribution: AL, AR?, FL, GA, KY?, LA, MS, NC, OK?, SC, TN, TX, [VA]. Synonymy: Coastal Plain beech forest, American beech-white oak series, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Liriodendron tulipifera-3, Quercus alba-3, Carya tomentosa-3, Fagus grandifolia-3
Sub-Canopy			Fagus grandifolia-3, Ostrya virginiana-2, Oxydendrum arboreum-2
Tall Shrub/Sapling			
Short Shrub/Sapling			Xanthorrhiza simplicissima-5, Rhododendron spp-3
Emergent Tree			Ostrya virginiana-4, Nyssa sylvatica-2, Fagus grandifolia-3
Total Herbaceous	Y		
Graminoid			
Forb			Mitchella repens-3, Rudbeckia laciniata-2, Uvularia sessilifolia-2
Fern			

NATR,14

Non-Vascular

Epiphyte

Vine/Liana

General Description:
Broad, mesic creek bottom with acidic soils, appears to flood periodically.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:
Old roadbed through site.

Weedy Species:

Exotic Species: COMMON
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture No. 1, Roll 3.

Additional Species
Dogwoods cut down by beaver.
Singing yellow-throated vireo.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95, Plot NATR_15

Annotated by: CWN

Annotation Date (D-M-Y): 7 / 22 / 04

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7244	2	M		poor example (lacks Q. falcata) See NATR. 1D also

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.15

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 3A/16B

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-04-13

Revisit:
Why?:

Directions:
S of Trace, Mississippi

General Vegetation:
Quercus falcata-Quercus alba-(Quercus stellata)-Carya (glabra, alba, pallida) Forest Alliance: dry oak-hickory forests of the East Gulf Coast Plain, Piedmont, low mountains, and Eastern Interior Plateau. Distribution: AL, FL, GA, KY, LA, MS, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

NATR.15

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 2

04/08/96

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-2, Carya tomentosa-2, Liquidambar styraciflua-1
Sub-Canopy			Cornus florida-2
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			Carya tomentosa-2
Total Herbaceous	Y		
Graminoid			
Forb			Arisaema triphyllum-2
Fern			
Non-Vascular			
Epiphyte			
Vine/Liana			

General Description:
Broad, flat, mesic creek bottom surrounded by dry uplands.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: COMMON
Lonicera japonica, Ligustrum vulgare

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

NATR.15

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 3

04/08/96

General Comments:
Picture No. 3, Roll 3.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC, Plot NATR.16

Annotated by: CWN

Annotation Date (D-M-Y): 7/22/04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7244	2	M		poor example lacks Q. fldata (see NATR.15 also)

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.16

Observation Point Number: 3A/23

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-04-13

Revisit:
Why?:

Directions:
NW of Trace, Mississippi

General Vegetation:
Quercus falcata-Quercus alba-(Quercus stellata)-Carya (glabra, alba, pallida) Forest Alliance: dry oak-hickory forests of the East Gulf Coast Plain, Piedmont, low mountains, and Eastern Interior Plateau. Distribution: AL, FL, GA, KY, LA, MS, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

NATR.16

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 2

04/08/96

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-3, Carya tomentosa-2
Sub-Canopy			
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			Nyssa sylvatica-2, Carya tomentosa-2
Total Herbaceous	Y		
Graminoid			
Forb			
Fern			
Non-Vascular			
Epiphyte			
Vine/Liana			Smilax rotundifolia-2, Vitis spp-1

General Description:
5% slope, NW aspect, small, broad hollow.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: COMMON
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:

NATR.16

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC 95 Plot NATR .17

Annotated by: CWN

Annotation Date (D-M-Y): 7/22/04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7225	1	H		Lacks Vaccinium which is indicative of 7224

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.17

Observation Point Number: 3A/26

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-04-14

Revisit: Y
Why?: Revisited on 1995-07-29 to pick up seasonal species.

Directions:
W side of Trace, NE of Bear Creek, Tishomingo County, Mississippi.

General Vegetation:
Quercus alba-Carya alba-(Carya glabra) Forest Alliance: dry and dry-mesic, mainly Coastal Plain oak-hickory forests, without Q. rubra and C. ovata. Distribution: AL, AR?, FL, GA, LA, KY?, MS, NC, OK?, SC, TN, TX, [VA]. Synonymy: Quercus alba-mixed hardwoods.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50% 4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m 5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-3, Carya tomentosa-3
Sub-Canopy			Ostrya virginiana-2, Carpinus caroliniana-2
Tall Shrub/Sapling			
Short Shrub/Sapling			Rhododendron spp-2
Emergent Tree			Ostrya virginiana-3, Carpinus caroliniana-2, Fraxinus americana-2, Asimina triloba-2
Total Herbaceous	Y		
Graminoid			
Forb			Lysimachia lanceolata-3, Aristolochia tomentosa-2
Fern			

NATR,17

Non-Vascular

Epiphyte

Vine/Liana Vitis spp-3, Smilax rotundifolia-3

General Description:
0-5% slope, SW aspect, sandy streamside terrace.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: COMMON
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture Nos. 10-11, Roll 3.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95, Plot NATR.18

Annotated by: CWN

Annotation Date (D-M-Y): 7/22/04

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7225	1	H		Lacks Vaccinium which is indicative of 7224

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.18

Observation Point Number: 3A/33

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-04-14

Revisit: Y
Why?: Revisited on 1995-08-09 to pick up seasonal species.

Directions:
NW of Bear Creek Mounds, Tishomingo County, Mississippi.

General Vegetation:
Quercus alba-Carya alba-(Carya glabra) Forest Alliance: dry and dry-mesic, mainly Coastal Plain oak-hickory forests, without Q. rubra and C. ovata. Distribution: AL, AR?, FL, GA, LA, KY?, MS, NC, OK?, SC, TN, TX, [VA]. Synonymy: Quercus alba-mixed hardwoods.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus nigra-3, Quercus alba-3, Carya tomentosa-3, Carya ovata-3, Quercus rubra-3
Sub-Canopy			Carpinus caroliniana-4, Acer rubrum-3
Tall Shrub/Sapling			Aesculus pavia-2, Amorpha fruticosa-2, Ilex decidua-2
Short Shrub/Sapling			Euonymus americana-3
Emergent Tree			Carpinus caroliniana-4, Fraxinus americana-3
Total Herbaceous	Y		
Graminoid			Arundinaria gigantea-3, grass spp (?)-3
Forb			Uvularia sessilifolia-3, Lysimachia lanceolata-3
Fern			
Non-Vascular			

Epiphyte

Vine/Liana Vitis spp-3

General Description:
Long, broad mesic point between the confluences of Bear Creek and Cedar Creek.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:
Old road parallel to and approx. 50-75 meters away from Bear Creek's S branch.

Weedy Species:

Exotic Species: COMMON
Lonicera japonica, Ligustrum vulgare

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture Nos. 12-14, Roll 3.

Additional Species
Singing Carolina wren, hooting barn owl.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95, Plot NATR .19

Annotated by: CWN

Annotation Date (D-M-Y): 7/22/04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7244	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.19

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD
04/08/96

Observation Point Number: 2C/13A

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-05-05

Revisit:
Why?:

Directions:
Alabama.

General Vegetation:
Quercus falcata-Quercus alba-(Quercus stellata)-Carya (glabra, alba, pallida) Forest Alliance: dry oak-hickory forests of the East Gulf Coast Plain, Piedmont, low mountains, and Eastern Interior Plateau. Distribution: AL, FL, GA, KY, LA, MS, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION

Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%

Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

NATR.19

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 2
04/08/96

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Carya tomentosa-3, Quercus falcata-2, Quercus alba-2
Sub-Canopy			Ulmus alata-3, Cornus florida-2
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			Ulmus alata-2
Total Herbaceous	Y		
Graminoid			
Forb			Podophyllum peltatum-4
Fern			
Non-Vascular			
Epiphyte			
Vine/Liana			Toxicodendron radicans-3

General Description:
5-10% slope, NE aspect, upland hardwoods slope.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: COMMON
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture No. 11, Roll 4

NATR.19

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team INC95, Plot NATR.20

Annotated by: CWN

Annotation Date (D-M-Y): 7/22/04

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7244	2	H		poor example but dominated by Q. falcata

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR. 20

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 2C/13B

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-05-05

Revisit:
Why?:

Directions:
Alabama.

General Vegetation:
Quercus falcata-Quercus alba-(Quercus stellata)-Carya (glabra, alba, pallida) Forest Alliance: dry oak-hickory forests of the East Gulf Coast Plain, Piedmont, low mountains, and Eastern Interior Plateau. Distribution: AL, FL, GA, KY, LA, MS, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION

Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%

Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

NATR.20

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 2
04/08/96

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus falcata-3, Carya ovata-2
Sub-Canopy			Ulmus alata-2, Carya spp-2
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			Carya spp-2, Ulmus alata-2
Total Herbaceous	Y		
Graminoid			
Forb			Microstegium vimineum-2
Fern			
Non-Vascular			
Epiphyte			
Vine/Liana			Toxicodendron radicans-3

General Description:
Hardwood hollow traversed by sluggish stream.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: COMMON
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture No. 12, Roll 4

NATR.20

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team INC95, Plot NATR.21

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 21 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7709				
8442				
7808	2	M		has a mix of lower slope, more mesic species as well

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.21

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD

04/08/96

Observation Point Number: 2A/10A

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-05-11

Revisit: Y
Why?: Revisited site on 1995-08-10 and 1995-08-11 to pick up seasonal species.

Directions:
Alabama.

General Vegetation:
Fagus grandifolia-Quercus alba Forest Alliance: forests with more than 25% of both Q. alba and F. grandifolia that typically occur on mesic slopes and small stream bottoms in the Coastal Plain. Distribution: AL, AR?, FL, GA, KY?, LA, MS, NC, OK?, SC, TN, TX, [VA]. Synonymy: Coastal Plain beech forest, American beech-white oak series, in part.

DOMINANT VEGETATION

Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50% 4=50-75% 5=75-100%

Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m 5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Liriodendron tulipifera-2, Carya ovata-2, Quercus falcata-2, Quercus muehlenbergii-2, ~~Carpinus~~ Carya cordiformis-2
Sub-Canopy			Ostrya virginiana-2, Liquidambar styraciflua-2, Carpinus caroliniana-2
Tall Shrub/Sapling			Philadelphus spp-4
Short Shrub/Sapling			
Emergent Tree			Ostrya virginiana-2, Carpinus ~~virginiana~~ caroliniana-2
Total Herbaceous	Y		
Graminoid			
Forb			Dioscorea batatas-5, Microstegium vimineum-4, Juncus effusus-4, Impatiens capensis-4, Glechoma hederacea-4

NATR,ZI

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 2
04/08/96

Fern

Non-Vascular

Epiphyte

Vine/Liana

General Description:
15-20% slope, NW aspect, mesic oak-hickory uplands with a flat stream bottom.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: COMMON
Dioscorea batatas, Lonicera japonica, Ligustrum vulgare, Nasturtium officionale

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture No. 17, Roll 4

Additional Species
White-eyed vireo.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team INC95, Plot NATR.22

Annotated by: CWN

Annotation Date (D-M-Y): 7/22/04

****

Method of assignment:

- ☐ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7261	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.22

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 1J/12B

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-05-25

Revisit:
Why?:

Directions:
Tennessee.

General Vegetation:
Quercus prinus-Quercus (alba, falcata, rubra, velutina) Forest Alliance: Piedmont mixed chestnut oak forests and mountain forests which once had chestnut. Defined to accomodate dry-mesic Q. prinus-mixed oak forests of th Piedmont, Ridge and Valley, and Blue Ridge. Distribution: AL, GA, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-3, Quercus prinus-3, Quercus rubra-2, Quercus velutina-2, Liquidambar styraciflua-2
Sub-Canopy			Cornus florida-3, Acer floridanum-3, Carpinus caroliniana-2
Tall Shrub/Sapling			Styrax grandifolia-3, Ilex decidua-2
Short Shrub/Sapling			
Emergent Tree			Acer floridanum-2, Acer rubrum-2, Nyssa sylvatica-2
Total Herbaceous			
Graminoid			
Forb			
Fern			
Non-Vascular			

NATR.22

Epiphyte

Vine/Liana

General Description:
10-20% slope, N 80 deg. W aspect, mesic upland hardwoods, lower and upper slopes.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: OCCASIONAL
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC95 Plot NATR 23

Annotated by: CWN

Annotation Date (D-M-Y): 7, 22, 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7700	1	M		Lacks Q. velutina ~~and Ear~~ otherwise could be 7261

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.23

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 1J/22

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-05-26

Revisit:
Why?:

Directions:
Wayne County, Tennessee

General Vegetation:
Quercus prinus-Quercus (alba, falcata, rubra, velutina) Forest Alliance: Piedmont mixed chestnut oak forests and mountain forests which once had chestnut. Defined to accomodate dry-mesic Q. prinus-mixed oak forests of th Piedmont, Ridge and Valley, and Blue Ridge. Distribution: AL, GA, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus prinus-3, Quercus alba-3, Quercus coccinea-3, Acer rubrum-2
Sub-Canopy			Cornus florida-2, Oxydendrum arboreum-2
Tall Shrub/Sapling			
Short Shrub/Sapling			Vaccinium spp-2
Emergent Tree			Carya tomentosa-3, Carya glabra-2, Acer rubrum-2
Total Herbaceous	Y		
Graminoid			
Forb			Parthenocissus quinquefolia-3
Fern			
Non-Vascular			
Epiphyte			

NATR.23

Vine/Liana Toxicodendron radicans-5

General Description:
0-10% slope, aspect N 30 deg. E, broad, gently-sloping hollow with isolated wet mucky areas in bottoms.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture Nos. 0-1, Roll 8.

Additional Species
Eastern tufted titmouse, summer tanager, rufous-sided towhee, white-breasted
nuthatch, scarlet tanager, pileated woodpecker, red-bellied woodpecker,
Carolina wren, eastern wood peewee, box turtle. Reference species occurrence
table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team INC95 Plot NATR_24

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 15 / 2004

****

Method of assignment:

- ☐ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
2067	2	H		Southern extension (several other NATR plots of this)

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.24

Observation Point Number: 1H/12A

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-05-26

Revisit: Y
Why?: Revisited site on 1995-08-11 to capture seasonal species.

Directions:
Wayne County, Tennessee

General Vegetation:
Quercus alba-Quercus rubra-(Carya ovata, glabra, alba) Forest Alliance: dry-mesic Piedmont/low mountain/low plateau oak-hickory forests; mesic oak-hickory in the interior uplands. Dominant in Ouachita Mountains north-facing slopes. Distribution: AL, AR, GA, KY, NC, OK?, SC, TN, [IL, MO VA]. Synonymy: mesic oak-hickory forest, in part; oak-chestnut-hickory forest, in part; montane oak-hickory forest, in part; oak-hickory forest, i part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-4, Liriodendron tulipifera-3, Quercus rubra-3, Fagus grandifolia-2
Sub-Canopy			Acer rubrum-3, Oxydendrum arboreum-3, Carpinus caroliniana-3, Fagus grandifolia-2, Nyssa sylvatica-2
Tall Shrub/Sapling			Ilex decidua-3, Styrax grandifolia-3
Short Shrub/Sapling			Rhododendron spp-2
Emergent Tree			Carya glabra-2, Oxydendrum arboreum-2, Hamamelia virginiana-2
Total Herbaceous	Y		
Graminoid			
Forb			

NATR. 24

Fern	Dennstaedtia punctilobula-3, Osmunda cinnamomea-3, Decumaria barbara-3
Non-Vascular	
Epiphyte	
Vine/Liana	Toxicodendron radicans-3

General Description:
Broad, wet stream bottom along Snoball Branch containing an isolated area of mucky, wet soils at the base of the slope draining into the bottom.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture No. 3, Roll 8.

Additional Species
Louisiana warbler, great-crested flycatcher, acadian flycatcher, pileated
woodpecker. Reference species occurrence table.

NATR.25

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 1H/12B

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-05-26

Revisit: Y
Why?: Revisited site in 8/11 to capture seasonal species.

Directions:
Wayne County, Tennessee.

General Vegetation:
Quercus alba-Quercus (coccinea, velutina, rubra)-Carya (alba, glabra, ovata Forest Alliance: dry oak-hickory forests mainly of the interior highlands, Piedmont and Blue Ridge. Distribution: AL, GA, NC, SC, TN, [VA?]. Synonymy: montane oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus velutina-3, Quercus alba-3, Carya tomentosa-3
Sub-Canopy			Oxydendrum arboreum-2, Nyssa sylvatica-2, Quercus alba-2, Cornus florida-2
Tall Shrub/Sapling			Styrax grandifolia-2, Corylus americana-2
Short Shrub/Sapling			Vaccinium sp-2
Emergent Tree			Sassafras albidum-2, Nyssa sylvatica-2
Total Herbaceous	Y		
Graminoid			
Forb			
Fern			
Non-Vascular			

NATR.25

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 2
04/08/96

Epiphyte

Vine/Liana Toxicodendron radicans-4, Amphicarpa bracteata-2

General Description:
20% slope, SE aspect, upland sub-xeric hardwood slope.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Roll 8, Picture No. 4.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC95 Plot NATR_26

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 15 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
T709	2	H		Osmunda Cinnamomea is at high cover - fits T709!

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.26

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 1H/12C

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-05-26

Revisit: Y
Why?: Revisited site on 8/11 to capture seasonal species.

Directions:
Wayne County, Tennessee.

General Vegetation:
Quercus alba-Quercus (coccinea, velutina, rubra)-Carya (alba, glabra, ovata Forest Alliance: dry oak-hickory forests mainly of the interior highlands, Piedmont and Blue Ridge. Distribution: AL, GA, NC, SC, TN, [VA?]. Synonymy: montane oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-3, Carya tomentosa-3
Sub-Canopy			Cornus florida-3, Nyssa sylvatica-2, Oxydendrum arboreum-3
Tall Shrub/Sapling			Corylus americana-3
Short Shrub/Sapling			
Emergent Tree			Nyssa sylvatica-2, Acer rubrum-2, Quercus rubrum-2
Total Herbaceous	Y		
Graminoid			grass ?-3
Forb			
Fern			Dennstaedtia punctilobula-3
Non-Vascular			
Epiphyte			

NATR, 26

Vine/Liana Decumaria barbara-3, Osmunda cinnamomea-3

General Description:
Steeply-sloping, v-shaped stream valley.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Roll 8, Picture No. 5.

Additional Species
Summer tanager.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study TNC, Team _____, Plot NATR.27

Annotated by: CWN

Annotation Date (D-M-Y): 8 / 19 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7881	1	H		high kalmia latifolia

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.27

Observation Point Number: 1H/16

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-06-02

Revisit:
Why?:

Directions:
Lower Glenrock, Wayne County, Tennessee.

General Vegetation:
Fagus grandifolia-Quercus alba Forest Alliance: forests with more than 25% of both Q. alba and F. grandifolia that typically occur on mesic slopes and small stream bottoms in the Coastal Plain. Distribution: AL, AR?, FL, GA, KY?, LA, MS, NC, OK?, SC, TN, TX, [VA]. Synonymy: Coastal Plain beech forest, American beech-white oak series, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-4, Fagus grandifolia-3, Acer rubrum-3
Sub-Canopy			Oxydendrum arboreum-3, Fagus grandifolia-2
Tall Shrub/Sapling			Kalmia latifolia-5
Short Shrub/Sapling			
Emergent Tree			Quercus alba-2, Hamamelis virginiana-2
Total Herbaceous	Y		
Graminoid			
Forb			
Fern			
Non-Vascular			
Epiphyte			

NATR .27

Vine/Liana Amphicarpa bracteata-4, Decumaria barbara-3

General Description:
Free-flowing streambank and stream bottom.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Roll 8, Picture No. 6.

Additional Species
Eastern phoebe, Acadian flycatcher, Louisiana warbler.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC 95 Plot NATR.28

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 15 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7795	2	H		Quercus alba - Quercus velutina!

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.28

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 1H/17A

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-06-02

Revisit: Y
Why?: Revisited site on 8/24 to capture seasonal species.

Directions:
Upper Glenrock, Wayne County, Tennessee.

General Vegetation:
Quercus alba-Quercus (coccinea, velutina, rubra)-Carya (alba, glabra, ovata Forest Alliance: dry oak-hickory forests mainly of the interior highlands, Piedmont and Blue Ridge. Distribution: AL, GA, NC, SC, TN, [VA?]. Synonymy: montane oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-4, Quercus coccinea-3, Quercus velutina-3
Sub-Canopy			Oxydendrum arboreum-3, Acer rubrum-3, Acer saccharum-3
Tall Shrub/Sapling			Styrax grandifolia-3
Short Shrub/Sapling			Vaccinium spp-2
Emergent Tree			Sassafras albidum-3, Quercus alba-3, Carya glabra-2
Total Herbaceous	Y		
Graminoid			
Forb			Lysimachia ciliata-3
Fern			
Non-Vascular			
Epiphyte			

Vine/Liana

Amphiacarpa bracteata-4, Toxicodendron radicans-3, Decumaria barbara-3

General Description:
15-25% slope, NW aspect, upland sub-mesic hardwood slope draining into a free-flowing stream.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Roll 8, Picture No. 7.

Additional Species
Summer tanager, great-crested flycatcher, northern parula.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC 95 Plot NATR.29

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 15 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7795	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.29

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 1H/17B

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-06-02

Revisit:
Why?:

Directions:
Wayne County, Tennessee.

General Vegetation:
Quercus alba-Quercus (coccinea, velutina, rubra)-Carya (alba, glabra, ovata Forest Alliance: dry oak-hickory forests mainly of the interior highlands, Piedmont and Blue Ridge. Distribution: AL, GA, NC, SC, TN, [VA?]. Synonymy: montane oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

NATR.29

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 2

04/08/96

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-3, Carya tomentosa-3
Sub-Canopy			Cornus florida-4
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			Nyssa sylvatica-2, Sassafras albidum-2, Carya glabra-2
Total Herbaceous	Y		
Graminoid			
Forb			
Fern			
Non-Vascular			
Epiphyte			
Vine/Liana			Parthenocissus quinquefolia-3, Desmodium rotundifolium-2

General Description:
Dry oak-hickory hollow, about 50 meters wide.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:
Old UST just outisde site boundary.

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Roll 8, Picture No. 8.

Additional Species
Eastern tufted titmouse.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study TNC, Team _____, Plot NATR.30

Annotated by: AWN

Annotation Date (D-M-Y): 8 / 19 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7881	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.30

Observation Point Number: 1H/18

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-06-08

Revisit:
Why?:

Directions:
Wayne County, Tennessee.

General Vegetation:
Fagus grandifolia-Quercus alba Forest Alliance: forests with more than 25% of both Q. alba and F. grandifolia that typically occur on mesic slopes and small stream bottoms in the Coastal Plain. Distribution: AL, AR?, FL, GA, KY?, LA, MS, NC, OK?, SC, TN, TX, [VA]. Synonymy: Coastal Plain beech forest, American beech-white oak series, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-4, Fagus grandifolia-2, Carya tomentosa-2, Quercus velutina-2
Sub-Canopy			Fagus grandifolia-3, Oxydendrum arboreum-3, Cornus florida-3, Acer rubrum-3
Tall Shrub/Sapling			
Short Shrub/Sapling			Vaccinium corymbosum-3
Emergent Tree			Fagus grandifolia-3, Nyssa sylvatica-3
Total Herbaceous	Y		
Graminoid			
Forb			
Fern			
Non-Vascular			

NATR.30

Epiphyte

Vine/Liana Amphicarpa bracteata-3, Parthenocissus quinquefolia-3, Smilax rotundifolia-2

General Description:
15% slope, mesic upland hardwood site draining into a free-flowing stream (Glenrock).

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95 Plot NATR.31

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 15 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7700	1	H		perfect

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.31

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 1G/13

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-06-08

Revisit:
Why?:

Directions:
Lawrence County, Tennessee.

General Vegetation:
Quercus alba-Quercus (coccinea, velutina, rubra)-Carya (alba, glabra, ovata Forest Alliance: dry oak-hickory forests mainly of the interior highlands, Piedmont and Blue Ridge. Distribution: AL, GA, NC, SC, TN, [VA?]. Synonymy: montane oak-hickory forest, in part. ON RIDGE Quercus prinus-Quercus (alba, falcata, rubra, velutina) Forest Alliance: Piedmont mixed chestnut oak forests and mountain forests which once had chestnut. Defined to accomodate dry-mesic Q. prinus-mixed oak forests of the Piedmont, Ridge and Valley, an Blue Ridge. Distribution: AL, GA, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus prinus-4, Quercus alba-4
Sub-Canopy			Nyssa sylvatica-3, Quercus alba-3
Tall Shrub/Sapling			Styrax grandifolia-3
Short Shrub/Sapling			Vaccinium spp-2
Emergent Tree			Nyssa sylvatica-2, Diospyros virginiana-2
Total Herbaceous			
Graminoid			
Forb			
Fern			

Non-Vascular

Epiphyte

Vine/Liana

General Description:
10% slope, NE aspect; broad, gently-sloping sub-xeric hardwood hollow.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Roll 8, Picture No. 10.

Additional Species
Yellow-billed cuckoo.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC95 Plot NATR.32

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 16 / 2004

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
2067	2	M		Plot also has high cover of Q. prinus, Q. stellata & Styrax grandifolia
7700				Would fit 7700 if Q. prinus were higher cover & Q. alba lower cover.

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.32

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 1G/17

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-06-08

Revisit:
Why?:

Directions:
Lewis County, Tennessee.

General Vegetation:
Quercus alba-Quercus (coccinea, velutina, rubra)-Carya (alba, glabra, ovata Forest Alliance: dry oak-hickory forests mainly of the interior highlands, Piedmont and Blue Ridge. Distribution: AL, GA, NC, SC, TN, [VA?]. Synonymy: montane oak-hickory forest, in part. ON RIDGE Quercus prinus-Quercus (alba, falcata, rubra, velutina) Forest Alliance: Piedmont mixed chestnut oak forests and mountain forests which once had chestnut. Defined to accomodate dry-mesic Q. prinus-mixed oak forests of the Piedmont, Ridge and Valley, an Blue Ridge. Distribution: AL, GA, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-4, Quercus rubra-3, Carya tomentosa-3, Quercus prinus-3, Quercus stellata-3
Sub-Canopy			Oxydendrum arboreum-3, Cornus florida-3
Tall Shrub/Sapling			Styrax grandifolia-3
Short Shrub/Sapling			Vaccinium spp-2
Emergent Tree			Sassafras albidum-3
Total Herbaceous			
Graminoid			
Forb			
Fern			

Non-Vascular

Epiphyte

Vine/Liana

General Description:
0-5% slope, NW aspect; open, gently-sloping, sub-mesic hardwood hollow traversed by an intermittent stream draining into Jacks Branch.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Roll 8, Picture Nos. 11-12.

Additional Species
Wood thrush, Acadian flycatcher, summer tanager.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95, Plot NATR.33

Annotated by: _____

Annotation Date (D-M-Y): 7/22/04

****

Method of assignment:

☐ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
5033 Acer negundo Forest	1	H		Juglans nigra at high value, underscores the successional nature of plot.

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.33

Observation Point Number: 1G/18A

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-06-08

Revisit: Y
Why?: Revisited site on 9/27 to capture seasonal species.

Directions:
North side of Little Buffalo River, Lewis County, Tennessee.

General Vegetation:
Platanus occidentalis-(Fraxinus pennsylvanica, Celtis laevigata, Acer saccharinum) Temporarily-Flooded Forest Alliance: alluvial forests, mainly of the Coastal Plain and lower Piedmont, dominated by P. occidentalis and other alluvial hardwoods. Does not include alluvial forests of the Upper Piedmont and Blue Ridge. Distribution: AL, AR?, FL, GA, KY, LA, MS, NC, OK, SC, TN, TX, [VA]. Synonymy: montane alluvial forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Acer negundo-4, Juglans nigra-3
Sub-Canopy			Acer negundo-4
Tall Shrub/Sapling			
Short Shrub/Sapling			Symphoricarpos orbiculatus-4
Emergent Tree			
Total Herbaceous	Y		
Graminoid			
Forb			Microstegium vimineum-5, Rudbeckia laciniata-3
Fern			
Non-Vascular			
Epiphyte			

NATR.33

Vine/Liana Verbesina alternifolia-5

General Description:
Swampy area north of the Little Buffalo River.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Roll 8, Picture No. 16.

Additional Species
Wood thrush, northern parula, red-bellied woodpecker, eastern phoebe, wood
duck. Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study TNC, Team _____, Plot NATR, 34

Annotated by: CWN

Annotation Date (D-M-Y): 8 / 19 / 2004

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7881	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.34

Observation Point Number: 1G/18B

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-06-09

Revisit: Y
Why?: Revisited site on 8/24 to capture seasonal species.

Directions:
Jacks Branch, Lewis County, Tennessee.

General Vegetation:
Fagus grandifolia-Quercus alba Forest Alliance: forests with more than 25% of both Q. alba and F. grandifolia that typically occur on mesic slopes and small stream bottoms in the Coastal Plain. Distribution: AL, AR?, FL, GA, KY?, LA, MS, NC, OK?, SC, TN, TX, [VA]. Synonymy: Coastal Plain beech forest, American beech-white oak series, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-4, Fagus grandifolia-4, Liriodendron tulipifera-3
Sub-Canopy			Carpinus caroliniana-4, Sassafras albidum-3, Oxydendrum arboreum-3, Cornus florida-3
Tall Shrub/Sapling			Styrax grandifolia-3
Short Shrub/Sapling			Hydrangea arborescens-3
Emergent Tree			Carpinus caroliniana-3
Total Herbaceous	Y		
Graminoid			
Forb			Microstegium vimineum-4, Rudbeckia hirta-3
Fern			Polystichum acrostichoides-3
Non-Vascular			

NATR.34

Epiphyte

Vine/Liana Amphicarpa bracteata-4

General Description:
Free-flowing stream bottom community with limestone bluffs on east side.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Roll 8, Picture No. 13.

Additional Species
Acadian flycatcher, Carolina wren, Louisiana warbler, great-crested flycatcher, pileated woodpecker. Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC95 Plot NATR 35

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 21 / 2004

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
7709	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.35

Observation Point Number: 1G/18C

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-06-09

Revisit: Y
Why?: Revisited site on 8/25 to capture seasonal species.

Directions:
Lewis County, Tennessee.

General Vegetation:
Fagus grandifolia-Quercus alba Forest Alliance: forests with more than 25% of both Q. alba and F. grandifolia that typically occur on mesic slopes and small stream bottoms in the Coastal Plain. Distribution: AL, AR?, FL, GA, KY?, LA, MS, NC, OK?, SC, TN, TX, [VA]. Synonymy: Coastal Plain beech forest, American beech-white oak series, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-4, Liriodendron tulipifera-2
Sub-Canopy			Carpinus caroliniana-3
Tall Shrub/Sapling			Styrax grandifolia-3, Corylus americana-3
Short Shrub/Sapling			Symphoricarpos orbiculatus-3
Emergent Tree			Carpinus caroliniana-3, Hamamelis virginiana-3
Total Herbaceous			
Graminoid			
Forb			
Fern			
Non-Vascular			

NATR.35

Epiphyte

Vine/Liana

General Description:
River bottom on south side of Little Buffalo River.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Roll 8, Picture No. 14.

Additional Species
Northern parula, eastern phoebe, yellow-billed cuckoo.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC 95 Plot NATR_36

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 16 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
8442	2	M		Plot lacks Q. muehlenbergii & Ostrya virginiana

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.36

Observation Point Number: 1F/13A

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-06-09

Revisit: Y
Why?: Revisited site on 8/25 to capture seasonal species.

Directions:
Metal Ford Bluff area, Lewis County, Tennessee.

General Vegetation:
Liquidambar styraciflua-(Liriodendron tulipifera, Acer rubrum) Wetland Temporarily-Flooded Forest Alliance: Successional to sweetgum-mixed bottomland oaks, moderately wet floodplain forests of the lower Piedmont an Coastal Plain. Distribution: AL, AR?, FL, GA, KY, LA?, MS, NC, SC, TN, not TX. Synonymy: montane alluvial forest, in part; Piedmont/low mountain alluvial forest, rocky bar and shore.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus velutina-4, Quercus alba-4, Quercus shumardii-4, Liriodendron tulipifera-4
Sub-Canopy			Acer rubrum-3, Carpinus caroliniana-3, Acer saccharum-3
Tall Shrub/Sapling			Lindera benzoin-3
Short Shrub/Sapling			
Emergent Tree			Lindera benzoin-3, Carpinus caroliniana-3
Total Herbaceous	Y		
Graminoid			Arundinaria gigantea-3
Forb			Microstegium vimineum-4, Heuchera villosa-3
Fern			

NATR.36

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 2
04/08/96

Non-Vascular

Epiphyte

Vine/Liana Saururus cernuus-5, Toxicodendron radicans-4

General Description:
Wet, marshy, sluggish drainage at the base of limestone bluffs.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Roll 8, Picture Nos. 17-18.

Additional Species
Yellow-shafted flicker, red-bellied woodpecker, Kentucky warbler, summer
tanager. Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC95. Plot NATR.37

Annotated by: CWN

Annotation Date (D-M-Y): 5 / 4 / 2007

****

Method of assignment:

☑ inspection ☑ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7312	2	M	NATR data analysis 2007	

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.37

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 1F/13B

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-06-22

Revisit:
Why?:

Directions:
Lewis County, Tennessee.

General Vegetation:
Betula nigra-(Platanus occidentalis) Forest Alliance: riverfronts in areas with repeated, frequent, natural disturbances. Distribution: AL, AR, GA. KY LA, MS, NC, OK, SC, TN, TX, [IL, IN, MO, VA, WV]. Some may occur along larger streams and rivers, especially with a sandy substrate. Synonymy: riverfront forest, in part. OR Justicia americana Herbaceous Alliance: rock river shoals dominated by J. americana. Distribution: AL, AR, GA, NC, SC, TN, [VA].

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Acer saccharum-5, Betula nigra-3
Sub-Canopy			Acer saccharum-4, Carpinus caroliniana-2
Tall Shrub/Sapling			
Short Shrub/Sapling			Symphoricarpos orbiculatus-3
Emergent Tree			Acer rubrum-4, Carpinus caroliniana-3
Total Herbaceous	Y		
Graminoid			
Forb			Justicia americana-4, Microstegium vimineum-4
Fern			
Non-Vascular			

NATR.37

Epiphyte

Vine/Liana

General Description:

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:
Roads and trails for ATVs running through site.

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:
Periodically flooding.

Succession Comments:

General Comments:
Roll 6, Picture No. 3.

Additional Species
Acadian flycatcher.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95, Plot NATR.38

Annotated by: CWN

Annotation Date (D-M-Y): 7 / 22 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7312	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.38

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 1F/15

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-06-09

Revisit:
Why?:

Directions:
Near Buffalo River Bridge, Lewis County, Tennessee.

General Vegetation:
Betula nigra-(Platanus occidentalis) Forest Alliance: riverfronts in areas with repeated, frequent, natural disturbances. Distribution: AL, AR, GA. KY LA, MS, NC, OK, SC, TN, TX, [IL, IN, MO, VA, WV]. Some may occur along larger streams and rivers, especially with a sandy substrate. Synonymy: riverfront forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

NATR.38

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 2

04/08/96

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Betula nigra-4, Liquidambar styraciflua-3, Platanus occidentalis-3
Sub-Canopy			Acer rubrum-4, Carpinus caroliniana-3
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			
Total Herbaceous	Y		
Graminoid			
Forb			Microstegium vimineum-5
Fern			
Non-Vascular			
Epiphyte			
Vine/Liana			Toxicodendron radicans-4

General Description:
Buffalo River bottom.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Roll 6, Picture No. 0.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC95 Plot NATR.39

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 21 / 2004

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
7881	2	H		~~Plot~~ point includes bottomland (Frax penn) which is mossy.

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.39

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 1F/16

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-06-22

Revisit:
Why?:

Directions:
Lewis County, Tennessee.

General Vegetation:
Fagus grandifolia-Quercus alba Forest Alliance: forests with more than 25% of both Q. alba and F. grandifolia that typically occur on mesic slopes and small stream bottoms in the Coastal Plain. Distribution: AL, AR?, FL, GA, KY?, LA, MS, NC, OK?, SC, TN, TX, [VA]. Synonymy: Coastal Plain beech forest, American beech-white oak series, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Fagus grandifolia-4, Liriodendron tulipifera-3, Fraxinus pennsylvanica-3, Quercus alba-3, Quercus velutina-3
Sub-Canopy			Carpinus caroliniana-4, Acer rubrum-3, Fagus grandifolia-3, Ostrya virginiana-3
Tall Shrub/Sapling			Corylus americana-3, Styrax grandifolia-3
Short Shrub/Sapling			
Emergent Tree			Carpinus caroliniana-3, Fraxinus pennsylvanica-3
Total Herbaceous	Y		
Graminoid			Arundinaria gigantea-4
Forb			Microstegium vimineum-5
Fern			Polystichum acrostichoides-4

Non-Vascular

Epiphyte

Vine/Liana Toxicodendron radicans-4

General Description:
Meandering, free-flowing stream bottom intersected by few secondary streams; gravelly stream bed and soils.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:
Old road through site.

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Roll 6, Picture Nos. 1-2.

Additional Species
Acadian flycatcher.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC95 Plot NATR.40

Annotated by: CWN

Annotation Date (D-M-Y): 9/21/2004

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
7244	2	H		point lacks Q. Falcata

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.40

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 1E/5A

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-06-23

Revisit:
Why?:

Directions:
Near English Camp Branch, Lewis County, Tennessee.

General Vegetation:
Fagus grandifolia-Quercus alba Forest Alliance: forests with more than 25% of both Q. alba and F. grandifolia that typically occur on mesic slopes and small stream bottoms in the Coastal Plain. Distribution: AL, AR?, FL, GA, KY?, LA, MS, NC, OK?, SC, TN, TX, [VA]. Synonymy: Coastal Plain beech forest, American beech-white oak series, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-4, Liriodendron tulipifera-3
Sub-Canopy			Ostrya virginiana-3, Carpinus caroliniana-3, Oxydendrum arboreum-3, Acer rubrum-3
Tall Shrub/Sapling			Styrax grandifolia-2
Short Shrub/Sapling			
Emergent Tree			
Total Herbaceous	Y		
Graminoid			
Forb			Microstegium vimineum-5
Fern			
Non-Vascular			

NATR.40

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 2
04/08/96

Epiphyte

Vine/Liana Toxicodendron radicans-4, Amphicarpa bracteata-4

General Description:

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: OCCASIONAL
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:
Culvert drains into creek.

Succession Comments:

General Comments:
Roll 6, Picture No. 4.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC 95 Plot NATR-41

Annotated by: AWN

Annotation Date (D-M-Y): 9 / 16 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7709	2	M		Included in description of 7709 are Q. alba, Acer rubrum, Cornus florida, Carpinus caroliniana, all in this plot.

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.41

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 1E/5B

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-06-23

Revisit:
Why?:

Directions:
Near Little Swan Creek, Lewis County, Tennessee.

General Vegetation:
Quercus alba-Quercus rubra-(Carya ovata, glabra, alba) Forest Alliance: dry-mesic Piedmont/low mountain/low plateau oak-hickory forests; mesic oak-hickory in the interior uplands. Dominant in Ouachita Mountains north-facing slopes. Distribution: AL, AR, GA, KY, NC, OK?, SC, TN, [IL, MO VA]. Synonymy: mesic oak-hickory forest, in part; oak-chestnut-hickory forest, in part; montane oak-hickory forest, in part; oak-hickory forest, i part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Acer rubrum-3, Acer saccharum-3, Quercus alba-3
Sub-Canopy			Acer rubrum-3, Carpinus caroliniana-3, Cornus florida-3, Ostrya virginiana-3
Tall Shrub/Sapling			Alnus serrulata-4
Short Shrub/Sapling			
Emergent Tree			Acer rubrum-3, Acer saccharum-3
Total Herbaceous	Y		
Graminoid			
Forb			Rudbeckia fulgida-3
Fern			
Non-Vascular			

NATR.41

Epiphyte

Vine/Liana Amphicarpa bracteata-5, Toxicodendron radicans-3

General Description:
Alluvial terrace of Little Swan Creek, surveyed within 5 meters of streambank.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: OCCASIONAL
Nasturtium officinale

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Roll 6, Picture No. 6.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC 95, Plot NATR.42

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 16 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7795	2	M		
2067				No.

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.42

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 1E/5C

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-06-23

Revisit:
Why?:

Directions:
Near Little Swan Creek, Lewis County, Tennessee.

General Vegetation:
Quercus alba-Quercus rubra-(Carya ovata, glabra, alba) Forest Alliance: dry-mesic Piedmont/low mountain/low plateau oak-hickory forests; mesic oak-hickory in the interior uplands. Dominant in Ouachita Mountains north-facing slopes. Distribution: AL, AR, GA, KY, NC, OK?, SC, TN, [IL, MO VA]. Synonymy: mesic oak-hickory forest, in part; oak-chestnut-hickory forest, in part; montane oak-hickory forest, in part; oak-hickory forest, i part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-4
Sub-Canopy			Carpinus caroliniana-3, Cornus florida-3, Quercus alba-3
Tall Shrub/Sapling			Ilex decidua-3
Short Shrub/Sapling			Vaccinium spp-2
Emergent Tree			Carpinus caroliniana-3, Fraxinus americana-3, Sassafras albidum-3
Total Herbaceous	Y		
Graminoid			
Forb			Desmodium nudiflorum-3
Fern			Athyrium filix-femina-3
Non-Vascular			

NATR,42

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 2
04/08/96

Epiphyte

Vine/Liana Toxicodendron radicans-4

General Description:
10-20% slope, NE aspect; upland hardwood slope and low woods next to Little Swan Creek.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Roll 6, Picture No. 7.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC 95, Plot NATR.43

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 16 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7244	2	H		Lacks Quercus falcata and Carya alba, but otherwise fits well.

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.43

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD
04/08/96

Observation Point Number: 1E/5D

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-06-29

Revisit:
Why?:

Directions:
Lewis County, Tennessee.

General Vegetation:
Quercus alba-Quercus (coccinea, velutina, rubra)-Carya (alba, glabra, ovata Forest Alliance: dry oak-hickory forests mainly of the interior highlands, Piedmont and Blue Ridge. Distribution: AL, GA, NC, SC, TN, [VA?]. Synonymy: montane oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50% 4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m 5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-5
Sub-Canopy			Oxydendrum arboreum-3, Cornus florida-3
Tall Shrub/Sapling			Vaccinium arboreum-3, Rhododendron spp-2
Short Shrub/Sapling			Vaccinium spp-3
Emergent Tree			Sassafras albidum-2
Total Herbaceous			
Graminoid			
Forb			
Fern			
Non-Vascular			
Epiphyte			
Vine/Liana			

NATR.43

General Description:
15-20% slope, SW aspect; dry, upland oak forest.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Roll 6, Picture No. 9.

Additional Species
Scarlet tanager.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC 95, Plot NATR 44

Annotated by: CWN

Annotation Date (D-M-Y): / /

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7217				

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.44

Observation Point Number: 1E/16

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-06-29

Revisit:
Why?:

Directions:
Tennessee.

General Vegetation:
Fagus grandifolia-Quercus alba Forest Alliance: forests with more than 25% of both Q. alba and F. grandifolia that typically occur on mesic slopes and small stream bottoms in the Coastal Plain. Distribution: AL, AR?, FL, GA, KY?, LA, MS, NC, OK?, SC, TN, TX, [VA]. Synonymy: Coastal Plain beech forest, American beech-white oak series, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-4, Liquidambar styraciflua-4
Sub-Canopy			Oxydendrum arboreum-3
Tall Shrub/Sapling			Rhododendron spp-3, Vaccinium spp-3
Short Shrub/Sapling			Rhododendron spp-3, Vaccinium spp-3
Emergent Tree			Sassafras albidum-3, Oxydendrum arboreum-3
Total Herbaceous	Y		
Graminoid			
Forb			
Fern			Osmunda cinnamomea-4, Osmunda regalis-3, Athyrium filix-femina-3
Non-Vascular			

NATR.44

Epiphyte

Vine/Liana

General Description:
Medium-sized hollow with free-flowing stream.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Roll 6, Picture No. 10.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95, Plot NATR_Y5

Annotated by: CWN

Annotation Date (D-M-Y): 7 / 22 / 04

****

Method of assignment:

☐ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
5033 Acer negundo Forest	1	H		Not as originally classified.

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.45

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 1E/21A

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-06-30

Revisit: Y
Why?: Revisited site on 8/31 to capture seasonal species.

Directions:
Near Big Swan Creek, Tennessee.

General Vegetation:
Platanus occidentalis-(Fraxinus pennsylvanica, Celtis laevigata, Acer saccharinum) Temporarily-Flooded Forest Alliance: alluvial forests, mainly of the Coastal Plain and lower Piedmont, dominated by P. occidentalis and other alluvial hardwoods. Does not include alluvial forests of the Upper Piedmont and Blue Ridge. Distribution: AL, AR?, FL, GA, KY, LA, MS, NC, OK, SC, TN, TX, [VA]. Synonymy: montane alluvial forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Acer negundo-4, Celtis occidentalis-3
Sub-Canopy			Acer negundo-4
Tall Shrub/Sapling			
Short Shrub/Sapling			Symphoricarpos orbiculatus-3
Emergent Tree			Acer negundo-4
Total Herbaceous	Y		
Graminoid			
Forb			Impatiens spp-5, Microstegium vimineum-5, Verbesina spp-5, Saururus cernuus-4
Fern			
Non-Vascular			

NATR.45

Epiphyte

Vine/Liana

General Description:
S-SW aspect at bluffs; bottom and bluffs at Big Swan Creek.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: COMMON
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Roll 6, Picture Nos. 11-12.

Additional Species
Eastern tufted titmouse, common yellowthroat.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team_____, Plot NATR.46

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 17 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
2070	2	M		Lacks Q. rubra, Q. muhl, Cercis can. otherwise good.

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.46

Observation Point Number: 1E/21B

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-06-30

Revisit:
Why?:

Directions:
Tennessee.

General Vegetation:
Juniperus virginiana var. virginiana-Quercus muehlenbergii Woodland Alliance: open vegetation with canopies dominated by nominal trees but ofte existing as a complex of forest, woodland, shrubland, and grassland on clif margins, outcrop fringes, and in rocky woods. Sometimes with a mixture of Q stellata as well. Distribution: AR, KY, OK? (typically). Synonymy: juniper-hardwood woodland.

DOMINANT VEGETATION

Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%

Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

NATR.46

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 2
04/08/96

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-3, Juniperus virginiana-3
Sub-Canopy			Ostrya virginiana-4
Tall Shrub/Sapling			
Short Shrub/Sapling			Philadelphus pubescens-3
Emergent Tree			Ostrya virginiana-3
Total Herbaceous	Y		
Graminoid			
Forb			unknown? - 4
Fern			
Non-Vascular			
Epiphyte			
Vine/Liana			

General Description:
90-100% slope, S-SW aspect; steep, rocky, sub-mesic hillside, including talus slopes between lower limestone and upper shale outcrops.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

NATR.46

General Comments:
Roll 6, Picture No. 13.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC 95 Plot NATR-47

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 16 / 2004

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7700	1	H		!

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.47

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 1E/27

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-06-30

Revisit:
Why?:

Directions:
Tennessee.

General Vegetation:
Quercus alba-Quercus (coccinea, velutina, rubra)-Carya (alba, glabra, ovata Forest Alliance: dry oak-hickory forests mainly of the interior highlands, Piedmont and Blue Ridge. Distribution: AL, GA, NC, SC, TN, [VA?]. Synonymy: montane oak-hickory forest, in part. OR Quercus prinus-Quercus (alba, falcata, rubra, velutina Forest Alliance: Piedmont mixed chestnut oak forests and mountain forests of the Piedmont, Ridge and Valley, and Blue Ridge. Distribution: AL, GA, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus prinus-5, Quercus alba-5
Sub-Canopy			Nyssa sylvatica-4, Oxydendrum arboreum-3, Cornus florida-3
Tall Shrub/Sapling			Styrax grandifolia-3
Short Shrub/Sapling			Vaccinium spp-3
Emergent Tree			
Total Herbaceous	Y		
Graminoid			
Forb			
Fern			
Non-Vascular			

NATR.47

Epiphyte

Vine/Liana Smilax bona-nox-3, Vitis spp-3

General Description:
20-25% slope, SE aspect; broad (about 200 meters across) medium-sloping hollow.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Roll 6, Picture Nos. 14-15.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team INC 95 Plot NATR_48

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 16 / 2004

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7261	1	H		Quercus velutina & Q. prinus

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.48

Observation Point Number: 1E/32

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-07-13

Revisit:
Why?:

Directions:
Tennessee.

General Vegetation:
Quercus alba-Quercus (coccinea, velutina, rubra)-Carya (alba, glabra, ovata Forest Alliance: dry oak-hickory forests mainly of the interior highlands, Piedmont and Blue Ridge. Distribution: AL, GA, NC, SC, TN, [VA?]. Synonymy: montane oak-hickory forest, in part. OR Quercus prinus-Quercus (alba, falcata, rubra, velutina Forest Alliance: Piedmont mixed chestnut oak forests and mountain forests of the Piedmont, Ridge and Valley, and Blue Ridge. Distribution: AL, GA, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50% 4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m 5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus prinus-4, Quercus alba-4, Quercus velutina-3
Sub-Canopy			Nyssa sylvatica-4, Oxydendrum arboreum-3, Cornus florida-3
Tall Shrub/Sapling			Styrax grandifolia-4
Short Shrub/Sapling			
Emergent Tree			Nyssa sylvatica-3
Total Herbaceous	Y		
Graminoid			
Forb			
Fern			

NATR.48

Non-Vascular

Epiphyte

Vine/Liana Smilax rotundifolia-2

General Description:
25% slope, SE aspect; broad, v-shaped, sub-xeric hollow, uplands and lowlands.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Roll 6, Picture No. 21.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC 95 Plot NATR . 49

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 17 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7220	2	H		Circumneutral indicators → Frax ame, Asimina triloba, Acer saccharum, Aotea pachypoda

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.49

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 1D/10

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-07-13

Revisit:
Why?:

Directions:
Tennessee.

General Vegetation:
Quercus alba-Quercus rubra-(Carya ovata, glabra, alba) Forest Alliance: dry-mesic Piedmont/low mountain/low plateau oak-hickory forests; mesic oak-hickory in the interior uplands. Dominant in Ouachita Mountains north-facing slopes. Distribution: AL, AR, GA, KY, NC, OK?, SC, TN, [IL, MO VA]. Synonymy: mesic oak-hickory forest, in part; oak-chestnut-hickory forest, in part; montane oak-hickory forest, in part; oak-hickory forest, i part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Liriodendron tulipifera-4, Fraxinus americana-4, Quercus velutina-4
Sub-Canopy			Acer saccharum-3, Asimina triloba-3
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			Liriodendron tulipifera-2
Total Herbaceous	Y		
Graminoid			
Forb			Microstegium vimineum-4, Actea pachypoda-3, Eupatorium rugosum-3
Fern			Polystichum acrostichoides-2
Non-Vascular			

Epiphyte

Vine/Liana Toxicodendron radicans-3

General Description:
25-30% slope, SE aspect; narrow, v-shaped, mesic hollow with deeply-eroded, SE-facing drainage. Another narrow hollow (NE-facing) connects to the former hollow by means of surrounding slope and ridgetop.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:
deeply-eroded drainage

Succession Comments:

General Comments:
Roll 6, Picture No. 22.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95, Plot NATR.50

Annotated by: CWN

Annotation Date (D-M-Y): 7/22/04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
24 11	1	M		Lacks beech and Liriodendron. Otherwise good.

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.50

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 1D/14A

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-07-12

Revisit:
Why?:

Directions:
Jackson Falls area, Tennessee.

General Vegetation:
Acer saccharum-Liriodendron tulipifera-Fraxinus americana Forest Alliance: nonpalustrine bottom forests dominated by A. saccharum, L. tulipifera and F americana. Distribution: TN, [VA], others?

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Acer saccharum-4, Tilia americana-3
Sub-Canopy			Carpinus caroliniana-4, Acer negundo-3, Asimina triloba-3
Tall Shrub/Sapling			
Short Shrub/Sapling			Hydrangea arborescens-5
Emergent Tree			
Total Herbaceous	Y		
Graminoid			
Forb			Laportea canadensis-5
Fern			
Non-Vascular			
Epiphyte			
Vine/Liana			

NATR,50

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 2
04/08/96

General Description:
Slow-moving stream in a narrow, v-shaped valley.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: OCCASIONAL
Nasturtium officinale

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Roll 6, Picture No. 17.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95, Plot NATR.51.

Annotated by: CWN

Annotation Date (D-M-Y): 7 / 22 / 04

****

Method of assignment:

- ☐ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
7334	1	H		~~Ast~~ As originally classified.

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.51

Observation Point Number: 1D/14B

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-07-12

Revisit:
Why?:

Directions:
Jackson Creek/Duck River confluence area, Tennessee.

General Vegetation:
Platanus occidentalis-(Fraxinus pennsylvanica, Celtis laevigata, Acer saccharinum) Temporarily-Flooded Forest Alliance: alluvial forests, mainly of the Coastal Plain and lower Piedmont, dominated by P. occidentalis and other alluvial hardwoods. Does not include alluvial forests of the Upper Piedmont and Blue Ridge. Distribution: AL, AR?, FL, GA, KY, LA, MS, NC, OK, SC, TN, TX, [VA]. Synonymy: montane alluvial forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Platanus occidentalis-3, Acer saccharinum-3, Acer negundo-3
Sub-Canopy			Platanus occidentalis-3, Acer saccharinum-3, Acer negundo-3
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			
Total Herbaceous	Y		
Graminoid			Uniola latifolia-4
Forb			Microstegium vimineum-4, Polygonum virginianum-4, Solidago spp-4
Fern			
Non-Vascular			

Epiphyte

Vine/Liana

General Description:

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Roll 6, Picture No. 18.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team JNC95, Plot NATR.52

Annotated by: CWN

Annotation Date (D-M-Y): 7/22/04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
8442	1	H		check to see if Jackson Falls site is limestone influenced which is characteristic of 8442

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.52

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD
04/08/96

Observation Point Number: 1D/14C

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-07-12

Revisit:
Why?:

Directions:
Path to Jackson Falls, Tennessee.

General Vegetation:
Quercus muhlenbergii Forest Alliance: dry-mesic forests, related to Juniperus virginiana var. virginiana-Quercus stellata-Quercus muhlenbergii alliance. Distribution: AL, AR, KY, OK, TN, [IL, IN, MO, NE?, VA?].

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Acer saccharum-3, Quercus muhlenbergii-3, Juniperus virginiana-3
Sub-Canopy			
Tall Shrub/Sapling			
Short Shrub/Sapling			Hydrangea arboreum-5
Emergent Tree			
Total Herbaceous	Y		
Graminoid			
Forb			Laportea canadensis-3, Impatiens spp-3
Fern			
Non-Vascular			
Epiphyte			
Vine/Liana			Toxicodendron radicans-3

NATR.52

General Description:
100% slope, SW aspect; extreme slope with paved path leading to Jackson Falls.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: OCCASIONAL
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Roll 6, Picture No. 19.

Additional Species
Acadian flycatcher.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team JNC, Plot NATR.53

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 21 / 2004

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
7795	2	H		Ostrya virginiana & Cornus florida not mentioned in veg desc. → add + code.

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.53

Observation Point Number: 1C/14

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-07-13

Revisit:
Why?:

Directions:
Tennessee.

General Vegetation:
Fagus grandifolia-Quercus alba Forest Alliance: forests with more than 25% of both Q. alba and F. grandifolia that typically occur on mesic slopes and small stream bottoms in the Coastal Plain. Distribution: AL, AR?, FL, GA, KY?, LA, MS, NC, OK?, SC, TN, TX, [VA]. Synonymy: Coastal Plain beech forest, American beech-white oak series, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-4, Carya spp-4, Quercus velutina-3
Sub-Canopy			Ostrya virginiana-3, Acer saccharum-3, Cornus florida-3
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			
Total Herbaceous			
Graminoid			
Forb			Microstegium vimineum-5
Fern			
Non-Vascular			
Epiphyte			

NATR, 53

Vine/Liana Toxicodendron radicans-5

General Description:
5% slope, W-NW aspect of shallow drainage; broad, shallow, sub-mesic hollow with narrow drainage traversing the bottom.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Roll 6, Picture No. 23.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC95, Plot NATR_54

Annotated by: CWN

Annotation Date (D-M-Y): 7 / 22 / 04

****

Method of assignment:

- ☐ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7217	1	H		great Fit (with Q. alba)

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.54

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/08/96

Observation Point Number: 1C/20A

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-07-13

Revisit:
Why?:

Directions:
Tennessee.

General Vegetation:
Liquidambar styraciflua-Quercus (alba, falcata) Forest Alliance: Similar to but more xeric than, a L. tulipifera-A. rubrum-Quercus spp. alliance. Also similar to a P. taeda-L. styraciflua-L. tulipifera disturbance forest successional to mixed oak-hickory forest. Potentially widespread. Distribution: SC and others.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

NATR.54

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 2
04/08/96

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Liquidambar styraciflua-4, Quercus alba-3, Fraxinus americana-3
Sub-Canopy			Acer rubrum-3, Nyssa sylvatica-3
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			
Total Herbaceous	Y		
Graminoid			
Forb			Microstegium vimineum-5
Fern			
Non-Vascular			
Epiphyte			
Vine/Liana			Toxicodendron radicans-3

General Description:
Damp, hardwood bottom traversed by a sluggish, secondary stream and surrounded by pine forest.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

NATR, 54

General Comments:
Roll 6, Picture No. 24.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC95, Plot NATR .55

Annotated by: CWN

Annotation Date (D-M-Y): 7 / 22 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7179	1	H		planted Pinus taeda

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.55

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
03/26/9(

Observation Point Number: 1C/20B

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-07-13

Revisit:
Why?:

Directions:
Tennessee.

General Vegetation:
Pinus taeda Planted Forest Alliance: plantations of P. taeda with little understory. Distribution: AL, AR, FL, GA, KY, LA, MS, NC, SC, TN, TX, [VA].

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Pinus taeda-5
Sub-Canopy			Carya spp-3, Quercus alba-2
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			Cornus florida-3, Nyssa sylvatica-2
Total Herbaceous	Y		
Graminoid			
Forb			
Fern			
Non-Vascular			
Epiphyte			
Vine/Liana			Lonicera japonica-5

NATR,55

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD

03/26/9

General Description:

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: Exotic Species:

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95, Plot NATR056

Annotated by: _____

Annotation Date (D-M-Y): 7 / 22 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
4425	1	H		Fits well

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR. 56

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
03/26/9

Observation Point Number: 1J/11A

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-05-25

Revisit:
Why?:

Directions:
Tennessee.

General Vegetation:
Acer rubrum-Fraxinus nigra Saturated Forest Alliance: contains associations known as calcareous seepage swamps and hardwood swamps in which A. rubrum and F. nigra are dominant or prominent canopy members. Associated canopy trees are Betula alleghaniensis, Ulmus rubra, U. americana, Larix laricina (farther north only), and Pinus strobus. Lindera benzoin, Toxicodendron vernix, and Rhamnus alnifolia often occur in the shrub layer. The herbaceou layer is often quite diverse, supporting such species as Carex leptalea, Carex bromoides ssp. bromoides, Osmunda cinnamomea, Caltha palustris, Veratrum viride, Platanthera grandiflora, Geum rivale (farther north only), Symplocarpus foetidus, Trollius laxus (farther north only), Cypripedium reginae, Cypripedium calceolus, Impatiens capensis, Cardamine bulbosa, Saxifraga pennsylvanica, Dryopteris cristata, and Carex lacustris. These communities are semi-permanently flooded or saturated and occur in poorly-drained depressions and along streams. Soils are generally muck, and although Sphagnum may occur, there is generally not substantial peat development. Associations often occur where there is influence by calcareou bedrock and soil pH is generally higher than that of other alliances containing A. rubrum. Distribution: [MD, VA], others. Synonymy: black ash-American elm-red maple, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Acer rubrum-4, Nyssa sylvatica-2, Liriodendron tulipifera-2
Sub-Canopy			Ilex opaca-4, Oxydendrum arboreum-3
Tall Shrub/Sapling			Itea virginica-2, Vaccinium spp-2, Lindera benzoin-2
Short Shrub/Sapling			

Emergent Tree	Ilex opaca-3
Total Herbaceous Y	
Graminoid	
Forb	
Fern	Osmunda cinnamomea-3, Onoclea sensibilis-3
Non-Vascular	
Epiphyte	
Vine/Liana	Decumaria barbara-3

General Description:
0-5% slope, wet gravelly bottom with clear-flowing stream.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: OCCASIONAL
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture No. 34, Roll 4.

Additional Species
Acadian flycatcher.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95, Plot NATR.57

Annotated by: CWN

Annotation Date (D-M-Y): 7 / 22 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7221	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.57

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD
03/26/9

Observation Point Number: 1J/11B

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-05-25

Revisit:
Why?:

Directions:
Tennessee.

General Vegetation:
Liriodendron tulipifera-Acer rubrum-Quercus spp. Forest Alliance: successional forests following outcropping or other severe disturbance. Similar to but more mesic than L. styraciflua-Q. (alba, falcata) alliance. Potentially widespread. Distribution: GA, NC, SC, TN, [VA], others.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50% 4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m 5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Liquidambar styraciflua-2, Liriodendron tulipifera-2
Sub-Canopy			Acer rubrum-2, Ostrya virginiana-2, Liquidambar styraciflua-2
Tall Shrub/Sapling			Corylus americana-2
Short Shrub/Sapling			
Emergent Tree			Liquidambar styraciflua-2, Liriodendron tulipifera-2, Ostrya virginiana-2
Total Herbaceous	Y		
Graminoid			
Forb			
Fern			Thelypteris hexagonoptera-3, Polystichum acrostichoides-2
Non-Vascular			

Epiphyte

Vine/Liana Decumaria barbara-3

General Description:
15% slope, W-SW aspect, mesic upland slope draining into narrow stream bottom.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: OCCASIONAL
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team ~~TNC~~ 95, Plot NATR.58

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 17 / 2004

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7330	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.58

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
04/05/96

Observation Point Number: 1J/12A

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-05-25

Revisit:
Why?:

Directions:
Tennessee.

General Vegetation:
Liquidambar styraciflua-(Liriodendron tulipifera, Acer rubrum) Wetland Temporarily-Flooded Forest Alliance: Successional to sweetgum-mixed bottomland oaks, moderately wet floodplain forests of the lower Piedmont an Coastal Plain. Distribution: AL, AR?, FL, GA, KY, LA?, MS, NC, SC, TN, not TX. Synonymy: montane alluvial forest, in part; Piedmont/low mountain alluvial forest, rocky bar and shore.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Liriodendron tulipifera-3, Liquidambar styraciflua-3
Sub-Canopy			Carpinus caroliniana-2, Acer rubrum-2, Acer floridanum-2
Tall Shrub/Sapling			Lindera benzoin-2
Short Shrub/Sapling			
Emergent Tree			Carpinus caroliniana-2, Fraxinus americana-2
Total Herbaceous	Y		
Graminoid			
Forb			
Fern			Dennstaedtia punctilobula-4
Non-Vascular			

Epiphyte

Vine/Liana

General Description:

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: OCCASIONAL
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture Nos. 35-36, Roll 4.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC 95, Plot NATR_59

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 17 / 2004

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7709	1	H		Species fit description and biogeography fits also.

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR. 59

Observation Point Number: 1A/18-B

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-08-04

Revisit:
Why?:

Directions:
Williamson County, Tennessee.

General Vegetation:
Quercus alba-Quercus (coccinea, velutina, rubra)-Carya (alba, glabra, ovata Forest Alliance: dry oak-hickory forests mainly of the interior highlands, Piedmont and Blue Ridge. Distribution: AL, GA, NC, SC, TN, [VA?]. Synonymy: montane oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-4, Carya tomentosa-4
Sub-Canopy			Acer saccharum-4
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			Acer saccharum-3, Lindera benzoin-3, Asimina triloba-3
Total Herbaceous	Y		
Graminoid			
Forb			Microstegium vimineum-3
Fern			Polystichum acrostichoides-3
Non-Vascular			
Epiphyte			
Vine/Liana			Amphicarpa bracteata-4, Toxicodendron radicans-4

General Description:
20-30% slope at head of hollow, 0-10% slope elsewhere, due south aspect; long, narrow, mesic hollow with open canopy in places.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:
Many fallen trees due to storm damage.

Weedy Species:

Exotic Species: OCCASIONAL
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:
Open canopy due to storm damage.

General Comments:

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study TNC, Team _____, Plot MATR. 60

Annotated by: CWN

Annotation Date (D-M-Y): 8 / 19 / 04

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
7881	1	H		high Acer saccharum

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.60

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD
03/26/9(

Observation Point Number: 1B/8

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-07-18

Revisit:
Why?:

Directions:
Tennessee.

General Vegetation:
Fagus grandifolia-Quercus alba Forest Alliance: forests with more than 25% of both Q. alba and F. grandifolia that typically occur on mesic slopes and small stream bottoms in the Coastal Plain. Distribution: AL, AR?, FL, GA, KY?, LA, MS, NC, OK?, SC, TN, TX, [VA]. Synonymy: Coastal Plain beech forest, American beech-white oak series, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50% 4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m 5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-4, Acer saccharum-4, Fagus grandifolia-3
Sub-Canopy			Acer saccharum-4, Fagus grandifolia-?
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			Ostrya virginiana-2, Acer saccharum-2, Fraxinus americana-2
Total Herbaceous	Y		
Graminoid			
Forb			
Fern			
Non-Vascular			
Epiphyte			

Vine/Liana Toxicodendron radicans-3

General Description:
5-10% slope, W aspect; west-facing slope of a small, free-flowing stream valley with tributary upslope from stream.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: OCCASIONAL
Lonicera japonica along stream only.

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Roll 7, Picture No. 1.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95 Plot NATR.61

Annotated by: CWN

Annotation Date (D-M-Y): 7 / 22 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
2427	2	M		Has high cover of Acer saccharum could be a coding mistake from field form (ie. Acer saccharinum)

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.61

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD
04/05/96

Observation Point Number: 1B/12A

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-07-18

Revisit:
Why?:

Directions:
Near Burns Branch, Tennessee.

General Vegetation:
Fraxinus pennsylvanica-(Ulmus americana)-Celtis (occidentalis, laevigata) Forest Alliance: sometimes described as poorly-drained bottomlands. Distribution: AL, AR, FL, GA, KY, LA, MS, NC, OK, SC, TN, TX, [IL, KS, MO, NE, VA]. Synonymy: sugarberry-American elm-green ash bottomland forest, sugarberry-elm series.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50% 4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m 5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Acer saccharum-3, Fraxinus pennsylvanica-2, Liriodendron tulipifera-2
Sub-Canopy			Acer saccharum-3
Tall Shrub/Sapling			Lindera benzoin-3
Short Shrub/Sapling			Hydrangea arborescens-4
Emergent Tree			
Total Herbaceous	Y		
Graminoid			
Forb			Microstegium vimineum-4, Impatiens spp-4
Fern			
Non-Vascular			
Epiphyte			

Vine/Liana Amphicarpa bracteata-4

General Description:
Alluvial bottom adjacent to Burns Branch with both mucky and gravelly soils.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Roll 7, Picture Nos. 3-4.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95, Plot NATR . 62

Annotated by: CWN

Annotation Date (D-M-Y): 7 / 22 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7881	1	H		Lacks Q. alba as a dominant, but Q. rubra & A. sach. are mentioned in description of 7881

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.62

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD

03/26/9

Observation Point Number: 1B/12B

Survey Site: Natchez Trace Parkway

Surveyors: Bob Brown, Geoff Call

Survey Date: 1995-07-18

Revisit:
Why?:

Directions:
Near Burns Branch, Tennessee.

General Vegetation:
Fagus grandifolia-Quercus rubra-Quercus alba Piedmont Forest Alliance: forests in the low mountains, Piedmont and low plateau. Includes the mesic Piedmont beech-oak slopes of NC, typically with Aesculus sylvatica. Q. rubr and Q. alba each with greater than 25% total canopy coverage. Distribution: AL, GA?, KY?, LA?, NC, SC, TN. Synonymy: mesic mixed hardwood forest, Piedmont subtype.

DOMINANT VEGETATION

Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%

Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Acer saccharum-4, Fagus grandifolia-3, Quercus rubra-3
Sub-Canopy			Acer saccharum-3
Tall Shrub/Sapling			Lindera benzoin-3
Short Shrub/Sapling			Hydrangea arborescens-3
Emergent Tree			
Total Herbaceous	Y		
Graminoid			
Forb			Impatiens spp-4, Microstegium vimineum-4
Fern			
Non-Vascular			
Epiphyte			

NATR.62

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 2

03/26/9(

Vine/Liana Amphicarpa bracteata-3

General Description:
Alluvial terrace and small limestone bluffs adjacent to Burns Branch.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Roll 7, Picture No. 2.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study TNC, Team _____, Plot NATR.63

Annotated by: CWN

Annotation Date (D-M-Y): 8 / 19 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7881	2	H		~~#1 of 5 to~~

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.63

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
03/26/9

Observation Point Number: 2A/10C

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-05-12

Revisit:
Why?:

Directions:
Alabama.

General Vegetation:
Fagus grandifolia-Quercus alba Forest Alliance: forests with more than 25% of both Q. alba and F. grandifolia that typically occur on mesic slopes and small stream bottoms in the Coastal Plain. Distribution: AL, AR?, FL, GA, KY?, LA, MS, NC, OK?, SC, TN, TX, [VA]. Synonymy: Coastal Plain beech forest, American beech-white oak series, in part.

DOMINANT VEGETATION

Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50% 4=50-75% 5=75-100%

Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m 5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Fagus grandifolia-2, Quercus alba-2, Liriodendron tulipifera-2, Quercus falcata-2
Sub-Canopy			Fagus grandifolia-2, Ostrya virginiana-2
Tall Shrub/Sapling			
Short Shrub/Sapling			Euonymus americanus-2
Emergent Tree			Ostrya virginiana-3, Cornus florida-2
Total Herbaceous	Y		
Graminoid			
Forb			Parthenocissus quinquefolia-2
Fern			Polystichum acrostichoides-3
Non-Vascular			
Epiphyte			

Vine/Liana

General Description:
15% slope, SE aspect, narrow (60-m wide) valley with deep, 2-3 meter drainage emptying into a flat, wet bottom with mucky soil.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: COMMON
Lonicera japonica, Nasturtium officionale

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture Nos. 20-21, Roll 4.

Additional Species
Scarlet tanager, Acadian flycatcher, eastern tufted titmouse, wood thrush, red-bellied woodpecker, indigo bunting.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95, Plot NATR. 64

Annotated by: CWN

Annotation Date (D-M-Y): 7 / 22 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7244	1	H		perfect!

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.64

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD
03/26/96

Observation Point Number: 2A/15

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-05-12

Revisit:
Why?:

Directions:
Alabama.

General Vegetation:
Quercus falcata-Quercus alba-(Quercus stellata)-Carya (glabra, alba, pallida) Forest Alliance: dry oak-hickory forests of the East Gulf Coast Plain, Piedmont, low mountains, and Eastern Interior Plateau. Distribution: AL, FL, GA, KY, LA, MS, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50% 4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m 5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-2, Carya tomentosa-2, Quercus falcata-2
Sub-Canopy			Carya tomentosa-2, Liquidambar styraciflua-2
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			Myssa sylvatica-3, Carya tomentosa-2, Ulmus alata-2
Total Herbaceous	Y		
Graminoid			
Forb			
Fern			
Non-Vascular			

Epiphyte

Vine/Liana Toxicodendron radicans-4

General Description:
Flat, broad, oak-hickory woodland with occasional slight drainage depressions.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: COMMON
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture No. 22, Roll 4.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95, Plot NATR. 65

Annotated by: CWN

Annotation Date (D-M-Y): 7/22/04

****

Method of assignment:

☐ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
T2484	1	H		~~[redacted]~~ would be 7246 but too much Q. alba!

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.65

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD
03/26/96

Observation Point Number: 2A/16

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-05-12

Revisit:
Why?:

Directions:
Alabama.

General Vegetation:
Quercus falcata-Quercus alba-(Quercus stellata)-Carya (glabra, alba, pallida) Forest Alliance: dry oak-hickory forests of the East Gulf Coast Plain, Piedmont, low mountains, and Eastern Interior Plateau. Distribution: AL, FL, GA, KY, LA, MS, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION

Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50% 4=50-75% 5=75-100%

Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m 5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-3, Quercus falcata-2, Quercus stellata-2
Sub-Canopy			Cornus florida-2, Liquidambar styraciflua-2, Oxydendrum arboreum-2
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			Ulmus alata-2, Acer rubrum-2, Liquidambar styraciflua-2
Total Herbaceous	Y		
Graminoid			
Forb			Parthenocissus quinquefolia-2
Fern			
Non-Vascular			

Epiphyte

Vine/Liana

General Description:
Broad, flat oak-hickory woodland with small, sluggish stream.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture No. 23, Roll 4.

Additional Species
Summer tanager, red-eyed vireo, yellow-billed cuckoo, white-breasted nuthatch.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC 95 Plot NATR.66

Annotated by: CWN

Annotation Date (D-M-Y): 9/17/2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7330	1	H		Dominated by Liriodendron first then Liquidambar

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.66

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD

03/26/9(

Observation Point Number: 2A/25

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-05-12

Revisit: Y
Why?: Revisited on 1995-08-11 to pick up seasonal species.

Directions:
Along Lindsay Creek, Alabama.

General Vegetation:
Quercus nigra-Quercus pagoda Forest Alliance: forests along rivers in the Coastal Prairie region of southwestern LA (typically). Celtis laevigata should be nominal. May be seasonal flooded. Distribution: LA, TX? (typically).

DOMINANT VEGETATION

Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50% 4=50-75% 5=75-100%

Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m 5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Liriodendron tulipifera-4, Liquidambar styraciflua-3
Sub-Canopy			Acer rubrum-3, Carpinus caroliniana-3
Tall Shrub/Sapling			Lindera benzoin-3
Short Shrub/Sapling			
Emergent Tree			Asimina triloba-3
Total Herbaceous	Y		
Graminoid			
Forb			Amphicarpa bracteata-4, Microstegium vimineum-4
Fern			Athyrium filix-femina-4, Dennstaedtia punctilobula-3
Non-Vascular			
Epiphyte			

Vine/Liana Toxicodendron radicans-4, Rubus spp-3

General Description:
Alluvial terrace with periodically-flooding creek bottom.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: COMMON
Lonicera japonica, Ligustrum vulgare

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture No. 24, Roll 4.

Additional Species
Rufous-sided towhee, scarlet tanager.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC95, Plot NATR.67

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 17 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7350	2	M		No Liquidambar, but is heavily dominated by Liriodendron
7312				Lacks Platanus occidentalis, but has Betula Nigra

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.67

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD

03/26/96

Observation Point Number: 2A/32

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-05-12

Revisit: Y
Why?: Revisited on 1995-08-11 to pick up seasonal species.

Directions:
Along Cypress Creek near TN state line, Alabama.

General Vegetation:
Quercus nigra-Quercus pagoda Forest Alliance: forests along rivers in the Coastal Prairie region of southwestern LA (typically). Celtis laevigata should be nominal. May be seasonal flooded. Distribution: LA, TX? (typically).

DOMINANT VEGETATION

Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50% 4=50-75% 5=75-100%

Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m 5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Liriodendron tulipifera-4, Betula nigra-3
Sub-Canopy			Acer saccharum-3
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			Acer saccharum-2, Acer negundo-2
Total Herbaceous	Y		
Graminoid			
Forb			Microstegium vimineum-5, Impatiens spp-5, Glechoma hederacea-5, Osmorhiza longisylis-2
Fern			
Non-Vascular			
Epiphyte			

Vine/Liana

General Description:
Secondary creek bottom, periodically-flooded, separated from main channel by a 30-m wide island.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: COMMON
Lonicera japonica, Ligustrum vulgare

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture Nos. 25-27, Roll 4.

Additional Species
Louisiana warbler.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC 95 Plot NATR.68

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 17 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
2067				
7881				No – Association lacks Carya ovata which dominates plot.
7709	2	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.68

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD

03/26/96

Observation Point Number: 2C/24A

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-05-11

Revisit:
Why?:

Directions:
Alabama.

General Vegetation:
Quercus alba-Quercus rubra-(Carya ovata, glabra, alba) Forest Alliance: dry-mesic Piedmont/low mountain/low plateau oak-hickory forests; mesic oak-hickory in the interior uplands. Dominant in Ouachita Mountains north-facing slopes. Distribution: AL, AR, GA, KY, NC, OK?, SC, TN, [IL, MO VA]. Synonymy: mesic oak-hickory forest, in part; oak-chestnut-hickory forest, in part; montane oak-hickory forest, in part; oak-hickory forest, i part.

DOMINANT VEGETATION

Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50% 4=50-75% 5=75-100%

Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m 5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Carya ovata-3, Quercus alba-2
Sub-Canopy			Fagus grandifolia-2, Acer saccharum-2, Ostrya virginiana-2, Liquidambar styraciflua-2
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			Robinia pseudo-acacia-2
Total Herbaceous	Y		
Graminoid			
Forb			Podophyllum peltatum-2, Eupatorium rugosum-2
Fern			

Non-Vascular

Epiphyte

Vine/Liana

General Description:
5-10% slope, E aspect, hollow slopes down towards river.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: COMMON
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture No. 13, Roll 4.

Additional Species
Louisiana warbler.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC 95, Plot NATR. 69

Annotated by: CWN

Annotation Date (D-M-Y): 4 / 4 / 2007

****

Method of assignment:

☑ inspection ☑ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:

Other Comments: Unclassified – Legacy data inadequate

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR. 69

Observation Point Number: 2C/24B

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-05-11

Revisit:
Why?:

Directions:
Alabama.

General Vegetation:
Fagus grandifolia-Quercus alba Forest Alliance: forests with more than 25% of both Q. alba and F. grandifolia that typically occur on mesic slopes and small stream bottoms in the Coastal Plain. Distribution: AL, AR?, FL, GA, KY?, LA, MS, NC, OK?, SC, TN, TX, [VA]. Synonymy: Coastal Plain beech forest, American beech-white oak series, in part.

DOMINANT VEGETATION

Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%

Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

NATR,69

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 2

03/26/96

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Carya ovata-3, Quercus falcata-3
Sub-Canopy			Acer saccharum-5, Juniperus virginiana-2
Tall Shrub/Sapling			Aesculus pavia-3
Short Shrub/Sapling			
Emergent Tree			
Total Herbaceous			
Graminoid			
Forb			
Fern			
Non-Vascular			
Epiphyte			
Vine/Liana			

General Description:
E aspect, site parallel to river and approx. 15-25 meters above and 30-60 meters away from riverbank.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: COMMON
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:
Juniperus virginiana in subcanopy is almost all dead from shading.

General Comments:

Additional Species
Red-eyed vireo, scarlet tanager, Kentucky warbler, summer tanager.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC 95, Plot NATR. 70

Annotated by: CWN

Annotation Date (D-M-Y): 4 / 4 / 2007

****

Method of assignment:

- [x] inspection
- [ ] tabular analysis
- [x] multivariate
- [ ] expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:

Other Comments: Unclassified – Legacy data inadequate

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.70

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD
03/26/9€

Observation Point Number: 2C/24C

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-05-11

Revisit: Y
Why?: Revisited site on 1995-08-10 to pick up seasonal species.

Directions:
Alabama.

General Vegetation:
Fagus grandifolia-Quercus alba Forest Alliance: forests with more than 25% of both Q. alba and F. grandifolia that typically occur on mesic slopes and small stream bottoms in the Coastal Plain. Distribution: AL, AR?, FL, GA, KY?, LA, MS, NC, OK?, SC, TN, TX, [VA]. Synonymy: Coastal Plain beech forest, American beech-white oak series, in part. OR Acer saccharinum Temporarily-Flooded Forest Alliance: sand bars along big rivers. Distribution: AR, KY, TN, [IL, IN, MO, VA] (typically). Synonymy: riverfron forest, in part; Acer saccharinum-Ulmus americana.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Fagus grandifolia-3, Acer saccharinum-3, Carya ovata-3
Sub-Canopy			Acer negundo-2, Ostrya virginiana-2, Acer saccharinum-1
Tall Shrub/Sapling			Aesculus pavia-3
Short Shrub/Sapling			
Emergent Tree			
Total Herbaceous	Y		
Graminoid			
Forb			Stellaria pubera-5, Microstegium vimineum-5, Impatiens capensis-4, Laportea canadensis-4

Fern

Non-Vascular

Epiphyte

Vine/Liana

General Description:
50% slope, NE aspect, hardwood hollow slopes down into a flat, periodically-flooded slough.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:
Trash brought in by river.

Weedy Species:

Exotic Species: COMMON
Lonicera japonica, Ligustrum vulgare

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture Nos. 14-16, Roll 4.

Additional Species
Pileated woodpecker, wood duck, barn owl, great-crested flycatcher, Carolina wren, Louisiana warbler, yellow-billed cuckoo, northern cardinal.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC95 Plot NATR. 71

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 17 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7272				WGCP 7 LeFleurs Bluff State Park (Jackson, MS)
7808	2	M		Plot lacks Q. muehlenbergii & Carya.

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR .71

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD
04/05/96

Observation Point Number: 2D/8A

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-05-05

Revisit: Y
Why?: Revisited on 1995-08-09 to pick up seasonal species.

Directions:
Alabama

General Vegetation:
Quercus alba-Quercus rubra-(Carya ovata, glabra, alba) Forest Alliance: dry-mesic Piedmont/low mountain/low plateau oak-hickory forests, mesic oak-hickory in the interior uplands, dominant in Ouachita Mountains north-facing slopes. Distribution: AL, AR, GA, KY, NC, OK?, SC, TN, [IL, MO VA]. Synonymy: mesic oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50% 4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m 5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Fraxinus americana-3, Quercus alba-3, Quercus shumardii-3
Sub-Canopy			Carpinus caroliniana-3, Ulmus americana-2, Fraxinus americana-2
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			Ulmus americana-2, Acer saccharum-2, Carpinus caroliniana-2
Total Herbaceous	Y		
Graminoid			
Forb			Microstegium vimineum-4, Impatiens capensis-3, Campsis radicans-2, Parthenocissus quinquefolia-2
Fern			

NATR.71

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD

04/05/96

Non-Vascular

Epiphyte

Vine/Liana Toxicodendron radicans-3

General Description:
V-shaped valley with free-flowing stream in bottom and alluvial terrace on W side of creek.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture No. 6, Roll 4.

Additional Species
Kentucky warbler, Louisiana warbler, indigo bunting, Carolina wren, eastern
phoebe. Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC 95, Plot NATR.72

Annotated by: CWN

Annotation Date (D-M-Y): 7 / 22 / 04

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
T606	1 ~~2~~	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.72

Observation Point Number: 2D/8B

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-05-05

Revisit: Y
Why?: Revisited on 1995-08-09 to pick up seasonal species.

Directions:
Alabama

General Vegetation:
Quercus muhlenbergii Forest Alliance: dry-mesic forests, related to Juniperus virginiana var. virginiana-Quercus stellata-Quercus muhlenbergii alliance. Distribution: AL, AR, KY, OK, TN, [IL, IN, MO, NE?, VA?].

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Carya ovata-3, Quercus muehlenbergii-3
Sub-Canopy			Ulmus americana-3, Acer saccharum-2
Tall Shrub/Sapling			Rhus aromatica-3, Ilex decidua-2, Crataegus spp-2
Short Shrub/Sapling			
Emergent Tree			Ulmus americana-3, Acer saccharum-2
Total Herbaceous			
Graminoid			
Forb			
Fern			
Non-Vascular			
Epiphyte			
Vine/Liana			

NATR.72

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 2

03/26/96

General Description:
10-20% slope, SW aspect, medium to steep slope with limestone outcroppings towards summit.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture Nos. 7-9, Roll 4.

Additional Species
Blue jay, yellow-billed cuckoo.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC 95, Plot NATR. 73

Annotated by: AWN

Annotation Date (D-M-Y): 9 / 17 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7261	2	H		Correct area biogeographically.

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.73

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD
03/26/9(

Observation Point Number: 2D/8C

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-05-05

Revisit: Y
Why?: Revisited on 1995-08-09 to pick up seasonal species.

Directions:
Alabama

General Vegetation:
Quercus stellata-Quercus velutina-Quercus alba-(Quercus falcata) Woodland Alliance: Q. falcata present in more southern woodlands. Distribution: AR?, [MO} (typically).

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

NATR.73

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 2

03/26/9(

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-3, Quercus prinus-3, Quercus velutina-3, ~~Carpinus~~ Carya carolina-septentrionalis-3
Sub-Canopy			Quercus marilandica-2
Tall Shrub/Sapling			Crataegus spp-3, Vaccinium arboretum-2
Short Shrub/Sapling			
Emergent Tree			Sassafras albidum-3, Acer saccharum-2, Quercus marilandica-2
Total Herbaceous	Y		
Graminoid			
Forb			Helianthus divaricatus-2
Fern			
Non-Vascular			
Epiphyte			
Vine/Liana			

General Description:
10-20% slope, W-SW aspect, shoulder slope leading to dry, semi-open hilltop (hilltop off Trace boundary).

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture No. 10, Roll 4.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC95 Plot NATR 74

Annotated by: CWN

Annotation Date (D-M-Y): 7 / 22 / 04

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7261	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.74

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD

03/26/96

Observation Point Number: 2D/14

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-05-04

Revisit:
Why?:

Directions:
Alabama

General Vegetation:
Quercus prinus-Quercus (alba, falcata, rubra, velutina) Forest Alliance: Piedmont mixed chestnut oak forests and mountain forests which once had chestnut. Defined to accomodate dry-mesic Q. prinus-mixed oak forests of th Piedmont, Ridge and Valley, and Blue Ridge. Distribution: AL, GA, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION

Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50% 4=50-75% 5=75-100%

Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m 5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus prinus-3, Quercus alba-2, Quercus velutina-2
Sub-Canopy			Nyssa sylvatica-2, Cornus florida-2
Tall Shrub/Sapling			Crataegus spp-2
Short Shrub/Sapling			
Emergent Tree			Quercus prinus-2, Carya glabra-2, Nyssa sylvatica-2
Total Herbaceous			
Graminoid			
Forb			
Fern			
Non-Vascular			
Epiphyte			

Vine/Liana

General Description:
0-5% slope, NW aspect, broad drainage in upland hardwood site, Q. prinus is dominant on slopes adjacent to drainage.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture No. 1, Roll 4.

Additional Species
Red-headed woodpecker, Carolina wren.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC95 Plot NATR.75

Annotated by: CWN

Annotation Date (D-M-Y): 7 / 22 / 04

****

Method of assignment:

☐ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7261	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.75

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD
03/26/96

Observation Point Number: 2D/17

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-05-04

Revisit: Y
Why?: Revisited on 1995-08-10 to pick up seasonal species.

Directions:
Freedom Hills Overlook, Alabama.

General Vegetation:
Quercus prinus-Quercus (alba, falcata, rubra, velutina) Forest Alliance: Piedmont mixed chestnut oak forests and mountain forests which once had chestnut. Defined to accomodate dry-mesic Q. prinus-mixed oak forests of th Piedmont, Ridge and Valley, and Blue Ridge. Distribution: AL, GA, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50% 4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m 5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus velutina-3, Quercus prinus-3
Sub-Canopy			Nyssa sylvatica-4, Carya glabra-3, Cornus florida-3, Carya tomentosa-3
Tall Shrub/Sapling			Vaccinium arboreum-3
Short Shrub/Sapling			
Emergent Tree			Nyssa sylvatica-4, Cornus florida-3, Carya pallida-2, Carya glabra-2, Sassafras albidum-2
Total Herbaceous	Y		
Graminoid			
Forb			
Fern			
Non-Vascular			

NATR.75

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 2

03/26/9

Epiphyte

Vine/Liana Smilax spp-3, Vitis spp-3

General Description:
5-10% slope, NW aspect, sub-xeric hilltop.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:
Appears to have been cleared in the last 40 years.

Weedy Species:

Exotic Species: OCCASIONAL
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture Nos. 2-3, Roll 4.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC 95, Plot NATR.76

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 17 / 2004

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7244	2	M		Q. alba / Oxydendrum etc.

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.76

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD
03/26/9

Observation Point Number: 2D/20

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-05-04

Revisit: Y
Why?: Revisited on 1995-08-10 to pick up seasonal species.

Directions:
Alabama.

General Vegetation:
Quercus alba-Quercus (coccinea, velutina, rubra)-Carya (alba, glabra, ovata Forest Alliance: dry oak-hickory forests mainly of the interior highlands, Piedmont and Blue Ridge. Distribution: AL, GA, NC, SC, TN, [VA?]. Synonymy: montane oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50% 4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m 5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-4
Sub-Canopy			Cornus florida-3, Liquidambar styraciflua-3, Oxydendrum arboreum-3, Fraxinus americana-2
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			
Total Herbaceous	Y		
Graminoid			
Forb			Decumaria barbara-4, Uvularia sessilifolia-3, Uvularia grandiflora-3
Fern			Polystichum acrostichoides-1
Non-Vascular			

Epiphyte

Vine/Liana

General Description:
5% slope, NW aspect, mesic hollow traversed by a small, free-flowing stream.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture Nos. 4-5, Roll 4.

Additional Species
Barn owl.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC 95, Plot NATR.77

Annotated by: CWN

Annotation Date (D-M-Y): 9/17/2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
2099	2	H		Plot Lacks Quercus shumardii
7380				Lacks Frax penn & has Q. michauxii which indicates temp flooded not seasonally flooded

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATK.77

Observation Point Number: 3B/11

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-03-28

Revisit:
Why?:

Directions:
Prentiss County, Mississippi

General Vegetation:
Quercus nigra-Quercus pagoda Forest Alliance: forests along rivers in the Coastal Prairie region of southwestern LA (typically). Celtis laevigata should be nominal. May be seasonal flooded. Distribution: LA, TX? (typically). OR, Quercus (michauxii, pagoda, shumardii)-Liquidambar styraciflua Temporarily-Flooded Forest Alliance: drier, sweetgum-mixed bottomland hardwood oak forests, but moister than beech bottoms. Q. michauxii, Q. pagoda, and Q. shumardii are generally the dominant oaks; Q. phellos may also be present but in combination with other oaks. L. styraciflua is usually present and sometimes codominant with the oaks, especially following logging or other disturbance. This alliance is probabl more common in brownwater rather than blackwater situations. Distribution: AL, AR, FL, GA, KY, LA, MS, NC, OK, SC, TN, TX, [IL, VA]. Synonymy: lowland oak-hickory forest, swamp chestnut oak-willow oak series, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50% 4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m 5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Liquidambar styraciflua-2, Quercus michauxii-2, Acer rubrum-2
Sub-Canopy			Acer rubrum-2
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			Acer rubrum-1
Total Herbaceous	Y		
Graminoid			

Forb	Galium tinctorium-4, Cardamine bulbosa-4
Fern	Onoclea sensibilis-3
Non-Vascular	
Epiphyte	
Vine/Liana	Rubus spp-2

General Description:
Broad, flat, extremely wet bottom adjacent to creek that floods periodically.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: OCCASIONAL
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture No. 4, Roll 2

Additional Species
Common grackle, American goldfinch.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team INC95, Plot NATR. 78

Annotated by: CWN

Annotation Date (D-M-Y): 7 / 22 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7246	1	H		perfect!

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.78

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
03/26/96

Observation Point Number: 3B/19

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-03-28

Revisit:
Why?:

Directions:
Prentiss County, Mississippi

General Vegetation:
Quercus falcata-Quercus alba-(Quercus stellata)-Carya (glabra, alba, pallida) Forest Alliance: dry oak-hickory forests of the East Gulf Coast Plain, Piedmont, low mountains, and Eastern Interior Plateau. Distribution: AL, FL, GA, KY, LA, MS, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

NATR.78

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 2
03/26/96

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus falcata-2, Quercus alba-2, Quercus stellata-2, Carya tomentosa-2
Sub-Canopy			Cornus florida-1, Oxydendrum arboreum-1
Tall Shrub/Sapling			Vaccinium arboreum-2
Short Shrub/Sapling			
Emergent Tree			
Total Herbaceous			
Graminoid			
Forb			
Fern			
Non-Vascular			
Epiphyte			
Vine/Liana			

General Description:
SE aspect, upland hollow.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: OCCASIONAL
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture No. 5, Roll 2

NATR.78

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95, Plot NATR .79

Annotated by: CWN

Annotation Date (D-M-Y): 7 / 22 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7244	1	H		has Carya glabra rather than Carya alba

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.79

Observation Point Number: 3C/7B

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-03-24

Revisit:
Why?:

Directions:
Lee County, Mississippi

General Vegetation:
Quercus falcata-Quercus alba-(Quercus stellata)-Carya (glabra, alba, pallida) Forest Alliance: dry oak-hickory forests of the East Gulf Coast Plain, Piedmont, low mountains, and Eastern Interior Plateau. Distribution: AL, FL, GA, KY, LA, MS, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus falcata-2, Quercus alba-2, Carya glabra-2, Liquidambar styraciflua-1
Sub-Canopy			Ostrya virginiana-2, Cornus florida-2, Carya glabra-2
Tall Shrub/Sapling			Vaccinium spp-1
Short Shrub/Sapling			
Emergent Tree			Ostrya virginiana-3
Total Herbaceous	Y		
Graminoid			
Forb			Tipularia discolor-1, Aster spp-1, Podophyllum peltatum-1
Fern			Polystichum acrostichoides-2
Non-Vascular			

Epiphyte

Vine/Liana Smilax bona-nox-1

General Description:
Site traversed by narrow, 50-meter bottom.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:
Disturbed edge near road.

Weedy Species:

Exotic Species: OCCASIONAL
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture No. 24, Roll 1

Additional Species
Heard singing: Carolina wren, downy woodpecker, Carolina chickadee, pine warbler.
3-4" green lizard sighted on Vitis, light green under chin and around eyes.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC 95, Plot NATR.80

Annotated by: CWN

Annotation Date (D-M-Y): 4 / 4 / 2007

****

Method of assignment:

- [x] inspection
- [ ] tabular analysis
- [x] multivariate
- [ ] expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:

Other Comments: Unclassified – Legacy data inadequate

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR. 80

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
03/26/96

Observation Point Number: 3C/7C

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-03-24

Revisit:
Why?:

Directions:
Lee County, Mississippi

General Vegetation:
Liquidambar styraciflua-Quercus (alba, falcata) Forest Alliance: Similar to but more xeric than, a L. tulipifera-A. rubrum-Quercus spp. alliance. Also similar to a P. taeda-L. styraciflua-L. tulipifera disturbance forest successional to mixed oak-hickory forest. Potentially widespread. Distribution: SC and others.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Betula nigra-2, Quercus nigra-2, Acer rubrum-2, Pinus echinata-1, Liquidambar styraciflua-1
Sub-Canopy			Cornus florida-2, Juniperus virginiana-1
Tall Shrub/Sapling			Vaccinium arboreum-1
Short Shrub/Sapling			
Emergent Tree			Liquidambar styraciflua-2, Ulmus americana-1, Acer rubrum-1, Juniperus virginiana-1, Prunus serotina-1
Total Herbaceous	Y		
Graminoid			
Forb			Viola spp-1, Tipularia discolor-1, Elephantopus spp-2
Fern			

Non-Vascular

Epiphyte

Vine/Liana Smilax bona-nox-1, Vitis spp-1

General Description:
5% slope, W aspect, slope below highway leads to wet bottom, connecting thi
3C/7B.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: OCCASIONAL
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:
Early successional stage with isolated groups of mature trees.

General Comments:
Picture No. 26, Roll 1.

Additional Species
Singing winter wren.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC95 Plot NATR, 81

Annotated by: CWN

Annotation Date (D-M-Y): 7 / 22 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
6011	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.81

Observation Point Number: 3E/5A

Survey Site: Natchez Trace Parkway

Surveyors: D. Campbell, B. Brown

Survey Date: 1995-03-22

Revisit:
Why?:

Directions:
Mississippi

General Vegetation:
Pinus taeda Upland Forest Alliance: includes both successional forets following outcropping or site conversion in some parts of the Southeast, an natural forets (especially in the deep South). Some may occur as plantations, old fields, or post-blowdown areas. Distribution: AL, AR, FL, GA, KY, LA, MS, NC, SC, TN, TX, [VA]. Synonymy: lowland pine-oak forest.

DOMINANT VEGETATION

Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%

Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Pinus taeda-5, Quercus alba-3, Liquidambar styraciflua-1, Fraxinus americana-1, Celtis laevigata-1
Sub-Canopy			Cornus florida, Juniperus virginiana, Platanus occidentalis, Diospyros virginiana
Tall Shrub/Sapling			Lyonia spp.
Short Shrub/Sapling			
Emergent Tree			Ulmus americana-2, Fraxinus americana
Total Herbaceous	Y		
Graminoid			
Forb			Podophyllum peltatum-1
Fern			
Non-Vascular			

Epiphyte

Vine/Liana Lonicera japonica-4, Vitis spp-1, Smilax spp-1

General Description:
1-5% slope, S/SE aspect, hardwoods growing along fence lines and drainage.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:
Old soil blow-outs evident in pine stand, probably from agricultural days.

Weedy Species:

Exotic Species: COMMON
Lonicera japonica covering all low shrubs and forest floor.

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:
Fence lines indicate old field that was converted to pine stand.

General Comments:
Picture Nos. 5-6, Roll 1

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC 95, Plot NATR.82

Annotated by: CWN

Annotation Date (D-M-Y): 4 / 4 / 2007

****

Method of assignment:

- [x] inspection
- [ ] tabular analysis
- [x] multivariate
- [ ] expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:

Other Comments: Unclassified – Legacy data inadequate

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.82

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD

03/26/9(

Observation Point Number: 3E/5B

Survey Site: Natchez Trace Parkway

Surveyors: D. Campbell, B. Brown

Survey Date: 1995-03-22

Revisit:
Why?:

Directions:
Mississippi

General Vegetation:
Quercus shumardii-Quercus pagoda Upland Forest Alliance: mesic calcareous forests. Distribution: LA (typically).

DOMINANT VEGETATION

Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%

Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

NATR.82

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD

03/26/96

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus falcata-1, Quercus shumardii-1, Carya ovata-1, Fraxinus americana-1, Quercus alba-1
Sub-Canopy			Cornus florida-2, Celtis laevigata
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			Prunus serotina-1, Ulmus americana-1
Total Herbaceous	Y		
Graminoid			Arundinaria gigantea-3
Forb			Podophyllum peltatum-3
Fern			
Non-Vascular			
Epiphyte			
Vine/Liana			Lonicera japonica-4, Vitis app-1, Smilax spp-1

General Description:
Old fence and stumps suggest landuse history. Young pines mostly along roadside.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: COMMON
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:
Old dead cedar trees within hardwood stand.

NATR,82

General Comments:
Picture Nos. 7-8, 9-10 (salamander), 11-12 (lizard).

Additional Species
Salamander sighted was sticky black with white dots. Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team INK95, Plot NATR. 83

Annotated by: CWN

Annotation Date (D-M-Y): 7, 22, 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
6011	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.83

Observation Point Number: 3E/5C

Survey Site: Natchez Trace Parkway

Surveyors: D. Campbell, B. Brown

Survey Date: 1995-03-22

Revisit:
Why?:

Directions:
Mississippi

General Vegetation:
Pinus taeda Upland Forest Alliance: includes both successional forets following outcropping or site conversion in some parts of the Southeast, an natural forets (especially in the deep South). Some may occur as plantation fields, or post-blowdown areas. Distribution: AL, AR, FL, GA, KY, LA, MS, NC, SC, TN, TX, [VA]. Synonymy: lowland pine-oak forest.

DOMINANT VEGETATION

Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50% 4=50-75% 5=75-100%

Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m 5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Pinus taeda-4, Pinus echinata-1, Juniperus virginiana-1, Liquidambar styraciflua-1, Quercus rubra-1, Quercus alba-1
Sub-Canopy			Cornus florida, Ulmus americana
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			Acer negundo-1, Prunus serotina-1, Ulmus americana-1
Total Herbaceous	Y		
Graminoid			
Forb			
Fern			
Non-Vascular			

Epiphyte

Vine/Liana Smilax spp-1, Wisteria spp-1

General Description:

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC95 Plot NATR.84

Annotated by: CWN

Annotation Date (D-M-Y): 7/22/04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7217	1	H		lacks oaks but has Liriodendron

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.84

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD
03/26/9(

Observation Point Number: 3E/6

Survey Site: Natchez Trace Parkway

Surveyors: D. Campbell, B. Brown

Survey Date: 1995-03-22

Revisit:
Why?:

Directions:
Mississippi

General Vegetation:
Liquidambar styraciflua Forest Alliance: less than 10% other species, follows logging and in old fields in uplands and Coastal Plain. Distribution: AL, AR, GA, LA, MS, NC, SC, [VA], others.

DOMINANT VEGETATION

Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50% 4=50-75% 5=75-100%

Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m 5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Liquidambar styraciflua-3, Celtis occidentalis-2, Liriodendron tulipifera-1, Robinia pseudo-acacia-1, Diospyros virginiana-1
Sub-Canopy			
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			
Total Herbaceous	Y		
Graminoid			
Forb			Podophyllum peltatum-2
Fern			
Non-Vascular			
Epiphyte			

NATR.84

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 2
03/26/9(

Vine/Liana Lonicera japonica-5

General Description:
5-10% slope, NW aspect, wet seep on site.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: COMMON
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture Nos. 14-15 Roll 1

Additional Species
Pileated woodpecker.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95, Plot NATR.85

Annotated by: CWN

Annotation Date (D-M-Y): 7 / 22 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7217	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.85

Observation Point Number: 3E/7

Survey Site: Natchez Trace Parkway

Surveyors: D. Campbell, B. Brown

Survey Date: 1995-03-22

Revisit:
Why?:

Directions:
Mississippi

General Vegetation:
Liquidambar styraciflua Forest Alliance: less than 10% other species, follows logging and in old fields in uplands and Coastal Plain. Distribution: AL, AR, GA, LA, MS, NC, SC, [VA], others.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50% 4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m 5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	* COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Liquidambar styraciflua-3, Celtis occidentalis-1, Quercus falcata-1, Pinus taeda-1, Carya ovata-1
Sub-Canopy			Carya ovata-3, Cornus florida-1, Celtis occidentalis, Liquidambar styraciflua
Tall Shrub/Sapling			
Short Shrub/Sapling			Viburnum rufidulum-1
Emergent Tree			Prunus serotina, Celtis spp, Quercus alba, Liquidambar styraciflua
Total Herbaceous	Y		
Graminoid			Arundinaria gigantea-1
Forb			Trillium cuneatum-1, Podophyllum peltatum-1
Fern			
Non-Vascular			

Epiphyte

Vine/Liana Lonicera japonica-4

General Description:
Trilliums growing along drainage.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: COMMON
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:
Several large trees have tipped over.

General Comments:

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC95, Plot NATR.86

Annotated by: CWN

Annotation Date (D-M-Y): 7 / 22 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7244	2	H		Q. alba low cover, has Carya glabra instead of C. alba

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.86

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD

03/26/9

Observation Point Number: 3E/11A

Survey Site: Natchez Trace Parkway

Surveyors: D. Campbell, B. Brown

Survey Date: 1995-03-22

Revisit:
Why?:

Directions:
Mississippi

General Vegetation:
Quercus falcata-Quercus alba-(Quercus stellata)-Carya (glabra, alba, pallida) Forest Alliance: dry oak-hickory forests of the East Gulf Coast Plain, Piedmont, low mountains, and Eastern Interior Plateau. Distribution: AL, FL, GA, KY, LA, MS, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION

Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50% 4=50-75% 5=75-100%

Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m 5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus falcata-3, Carya glabra-2, Quercus alba-1, Liquidambar styraciflua-1
Sub-Canopy			Carya glabra-2, Cornus florida-2, Ulmus alata-2, Liquidambar styraciflua-1, Carya ovata-1
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			Juniperus virginiana-1, Ulmus americana-1
Total Herbaceous	Y		
Graminoid			
Forb			
Fern			

Non-Vascular

Epiphyte

Vine/Liana Lonicera japonica-4, Smilax bona-nox-1, Bignonia capreolata-1

General Description:

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: COMMON
Lonicera japonica, thistle

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:
Fire evident.

General Comments:

Additional Species
Yellow-bellied sapsucker, box turtle, red-shouldered hawk.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95, Plot NATR. 87

Annotated by: CWN

Annotation Date (D-M-Y): 7 / 22 / 04

****

Method of assignment:

☐ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
6327	?	?		Veg data lacking but plot attributed by TNC to Alliance

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.87

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 1
03/26/96

Observation Point Number: 3E/14

Survey Site: Natchez Trace Parkway

Surveyors: D. Campbell, B. Brown

Survey Date: 1995-03-22

Revisit:
Why?:

Directions:
Mississippi

General Vegetation:
Pinus echinata Forest Alliance: forests dominated by P. echinata (more than 75%). Some associations are successional (NC and AR) or of anthropogenic origin; some are more natural (AR). Distribution: AL, AR, GA, KY, LA, MS, NC, OK, SC, TN, [VA]. Synonymy: pine-oak heath, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus alba-1
Sub-Canopy			
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			
Total Herbaceous			
Graminoid			
Forb			
Fern			
Non-Vascular			
Epiphyte			
Vine/Liana			

NATR,87

General Description:
0-5% slope, E aspect, young mixed hardwoods occurring on relatively flat upland, NW to SE-running stream in bottom. Blue flagging and red & white-painted rebar with pink flagging on site.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species: **Exotic Species:**

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture No. 16, Roll 1

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95, Plot NATR.88

Annotated by: CWN

Annotation Date (D-M-Y): 7/22/04

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7244	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

~~NATR.001~~ NATR.88

Observation Point Number: 3E/16A

Survey Site: Natchez Trace Parkway

Surveyors: D. Campbell, B. Brown, G. Call

Survey Date: 1995-03-23

Revisit:
Why?:

Directions:
Pontotoc County, Mississippi

General Vegetation:
Quercus falcata-Quercus alba-(Quercus stellata)-Carya (glabra, alba, pallida) Forest Alliance: dry oak-hickory forests of the East Gulf Coast Plain, Piedmont, low mountains, and Eastern Interior Plateau. Distribution: AL, FL, GA, KY, LA, MS, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Carya ovata-2, Carya glabra-2, Quercus falcata-2, Carya tomentosa-2, Pinus echinata-1
Sub-Canopy			Cornus florida-1, Prunus serotina-1
Tall Shrub/Sapling			Vaccinnium spp-2
Short Shrub/Sapling			
Emergent Tree			Fraxinus americana-1, Liquidambar styraciflua-1, Ulmus alata-1, ~~Ulmus~~ Prunus serotina-1, Celtis occidentalis-1
Total Herbaceous			
Graminoid			
Forb			
Fern			
Non-Vascular			

Epiphyte

Vine/Liana

General Description:
Hardwood stand traversed by channelized stream.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:
Channelized erosion from seepage on opposite side of road.

Weedy Species:

Exotic Species: COMMON
Lonicera japonica-5, thistle-1

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:
Early successional stage.

General Comments:
Picture Nos. 17-20, Roll 1

Additional Species
Pileated woodpecker, red-bellied woodpecker, eastern tufted titmouse, Carolina wren.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95, Plot NATR. 89

Annotated by: CWN

Annotation Date (D-M-Y): 7/22/04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7246	2	M		has more carya than Quercus, Lacks carya alba

Other Comments:

Could be 7244 or something else,

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR. 89

Observation Point Number: 3E/23

Survey Site: Natchez Trace Parkway

Surveyors: D. Campbell, B. Brown, G. Call

Survey Date: 1995-03-23

Revisit:
Why?:

Directions:
Pontotoc County, Mississippi

General Vegetation:
Quercus falcata-Quercus alba-(Quercus stellata)-Carya (glabra, alba, pallida) Forest Alliance: dry oak-hickory forests of the East Gulf Coast Plain, Piedmont, low mountains, and Eastern Interior Plateau. Distribution: AL, FL, GA, KY, LA, MS, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus falcata-2, Carya glabra-2, Carya ovata-2, Quercus stellata-1
Sub-Canopy			Ulmus alata-2, Prunus serotina-1
Tall Shrub/Sapling			Vaccinium arboreum-1
Short Shrub/Sapling			
Emergent Tree			Carya spp-1, Prunus serotina-1, Ulmus alata-1
Total Herbaceous	Y		
Graminoid			
Forb			Potentilla simplex-1, Ranunculus spp-1, Viola spp-1
Fern			
Non-Vascular			

NATR.89

Epiphyte

Vine/Liana Rubus spp-1, Smilax bona-nox-1

General Description:

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: OCCASSIONAL
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:
Early successional stage.

General Comments:

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team _____, Plot NATR.90

Annotated by: CWN

Annotation Date (D-M-Y): 9/21/04

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
~~8462~~				Does not account for high P.echinata cover
8403				Pinus taeda - Pinus echinata Forest [placeholder]
4052				upslope part (only) may be this type and Pinus taeda and Liquidambar increased without fire.
7531				

→ 8450 2 H

Other Comments: Pinus taeda - Quercus (falcata, hemispaerica, nigra) - Liquidambar styraciflua / Rubus copallinum Forest

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.90

Observation Point Number: WITCH DANCE

Survey Site: Natchez Trace Parkway

Surveyors: D. Campbell, B. Brown

Survey Date: 1995-03-22

Revisit: Y
Why?: Revisited on 1995-07-26 to pick up seasonal species.

Directions:
Witch Dance Campground, Mississippi

General Vegetation:
Pinus taeda-Quercus nigra Forest Alliance: Occur occasionally on flooded to dry sites, usually in the Coastal Plain. Distribution: AR, NC, [VA]. Synony part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus nigra-4, Pinus echinata-4, Pinus taeda-4, Liquidambar styraciflua-3, Quercus falcata-3
Sub-Canopy			Liquidambar styraciflua-4, Cornus florida-3, Morus rubra-2
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			Cornus florida-3, Liquidambar styraciflua-3
Total Herbaceous			
Graminoid			
Forb			
Fern			
Non-Vascular			
Epiphyte			

NATR.90

Vine/Liana Lonicera japonica-5, Toxicodendron radicans-4, Vitis spp-3

General Description:
1-5% slope, S aspect, pine/water oak association along a small drainage.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:
Horse trail cuts through site.

Weedy Species:

Exotic Species: COMMON
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:
Pine die-off.

General Comments:
Picture Nos. 1-2, Roll 1

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team TNC95, Plot NATR .91

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 17 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7246	2	H		plot lacks Q. stellata
7244				

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.91

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD
03/26/9(

Observation Point Number: 3-F1/28

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-07-26

Revisit:
Why?:

Directions:
Pontotoc County, Mississippi

General Vegetation:
Quercus falcata-Quercus alba-(Quercus stellata)-Carya (glabra, alba, pallida) Forest Alliance: dry oak-hickory forests of the East Gulf Coast Plain, Piedmont, low mountains, and Eastern Interior Plateau. Distribution: AL, FL, GA, KY, LA, MS, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus falcata-4, Liquidambar styraciflua-4, Carya tomentosa-3
Sub-Canopy			Liquidambar styraciflua-4, Cornus florida-3, Morus rubra-3, Acer rubrum-3
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			Carya glabra-2, Carya tomentosa-2
Total Herbaceous	Y		
Graminoid			
Forb			Parthenocissus quinquefolia-3, Amphicarpa bracteata-2
Fern			
Non-Vascular			

NATR.91

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 2

03/26/9(

Epiphyte

Vine/Liana Toxicodendron radicans-3, Vitis spp-3

General Description:
Small, gently-sloping site on NW side of road.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: COMMON
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture No. 5, Roll 7.

Additional Species
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95, Plot NATR 92

Annotated by: CWN

Annotation Date (D-M-Y): 7 / 22 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7244	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

Observation Point Number: 3B/8A

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-03-28

Revisit: Y
Why?: Site revisited on 1995-07-28 to pick up seasonal species.

Directions:
Prentiss County, Mississippi

General Vegetation:
Quercus falcata-Quercus alba-(Quercus stellata)-Carya (glabra, alba, pallida) Forest Alliance: dry oak-hickory forests of the East Gulf Coast Plain, Piedmont, low mountains, and Eastern Interior Plateau. Distribution: AL, FL, GA, KY, LA, MS, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION
Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50% 4=50-75% 5=75-100%
Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m 5=10-15m 6=15-20m 7=20-35m 8=>35m

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Quercus falcata-3, Quercus alba-3, Carya tomentosa-3, Quercus stellata-2
Sub-Canopy			Cornus florida-3, Liquidambar styraciflua-3, Acer rubrum-3, Ulmus alata-2
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			Carya tomentosa-2, Liquidambar styraciflua-1
Total Herbaceous	Y		
Graminoid			
Forb			Amphicarpa bracteata-4, Galium spp-1
Fern			Polystichum acrostichoides-3
Non-Vascular			

Epiphyte

Vine/Liana Smilax bona-nox-1

General Description:
10-15% slope, N/NE aspect, front of site parallel to road traversed by a channelized, sluggish stream.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:
Streambank erosion on roadside edge of site.

Weedy Species:

Exotic Species: COMMON
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture No. 1, Roll 2

Additional Species
Singing rufous-sided towhee.
Reference species occurrence table.

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team TNC95, Plot NATR. 93

Annotated by: CWN

Annotation Date (D-M-Y): 7, 22, 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7709	1	H		Ostrya Virginiana not mentioned in description of 7709
		(This plot is		Not in 7244 or 7246 which was originally thought.)

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.93

Observation Point Number: 3B/8B

Survey Site: Natchez Trace Parkway

Surveyors: B. Brown, G. Call

Survey Date: 1995-03-28

Revisit:
Why?:

Directions:
Prentiss County, Mississippi

General Vegetation:
Quercus falcata-Quercus alba-(Quercus stellata)-Carya (glabra, alba, pallida) Forest Alliance: dry oak-hickory forests of the East Gulf Coast Plain, Piedmont, low mountains, and Eastern Interior Plateau. Distribution: AL, FL, GA, KY, LA, MS, NC, SC, TN, [VA]. Synonymy: dry-mesic oak-hickory forest, in part.

DOMINANT VEGETATION

Percent Cover Classes: 1=1-5% 2=5-25% 3=25-50%
4=50-75% 5=75-100%

Height Classes: 1=<0.5m 2=0.5-2m 3=2-5m 4=5-10m
5=10-15m 6=15-20m 7=20-35m 8=>35m

NATR,93

NATCHEZ TRACE PARKWAY COMMUNITY INVENTORY - OBSERVATION POINT RECORD 2

03/26/9

STRATA	COVER CLASS	HEIGHT CLASS	DOMINANT SPECIES
Canopy			Carya tomentosa-2, Quercus alba-2
Sub-Canopy			Cornus florida-2, Ostrya virginiana-2
Tall Shrub/Sapling			
Short Shrub/Sapling			
Emergent Tree			Ostrya virginiana-3
Total Herbaceous	Y		
Graminoid			
Forb			Swertia carolinensis-1, Podophyllum peltatum-1
Fern			Polystichum acrostichoides-1
Non-Vascular			
Epiphyte			
Vine/Liana			

General Description:
10% slope, SE aspect, sub-xeric hardwoods on slope and semi-mesic hardwoods in bottom.

DISTURBANCE COMMENTS
Nature of Disturbance:

Comments:

Weedy Species:

Exotic Species: COMMON
Lonicera japonica

Hydrologic Alteration:

Hydrology Comments:

Succession Comments:

General Comments:
Picture Nos. 2-3, Roll 2

Additional Species
Reference species occurrence table.

NATR.100 – NATR.207

THERE ARE NO PLOTS NUMBERED NATR.190 – NATR.200

NATURESERVE NATCHEZ TRACE DATA

COLLECTED AUGUST & SEPTEMBER 2004

NPS GULF COAST PROJECT: Plot *Sampling Form* also NATR. 100 - 4719 ✓ Page 1

County: Colbert Park: (NATR) VICK Plot Code: NT147 State: (AL) MS TN Location org: NPS

Provisional community name Sagittaria latifolia herbaceous vegetation

Classified community name Pontederia cordata - Peltandra virginica [Placeholder] ✓

Classifyer CWN Date 9/14/2009 NVC ELCODE 4291

Survey date: 8/18/04 Surveyors initials: Al Schotz & CWN

Tagged tree is a No tag tree of ____ cm dbh with tag #_____. Center of 20 x 50m plot is at a bearing of ____ degrees and ____ m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

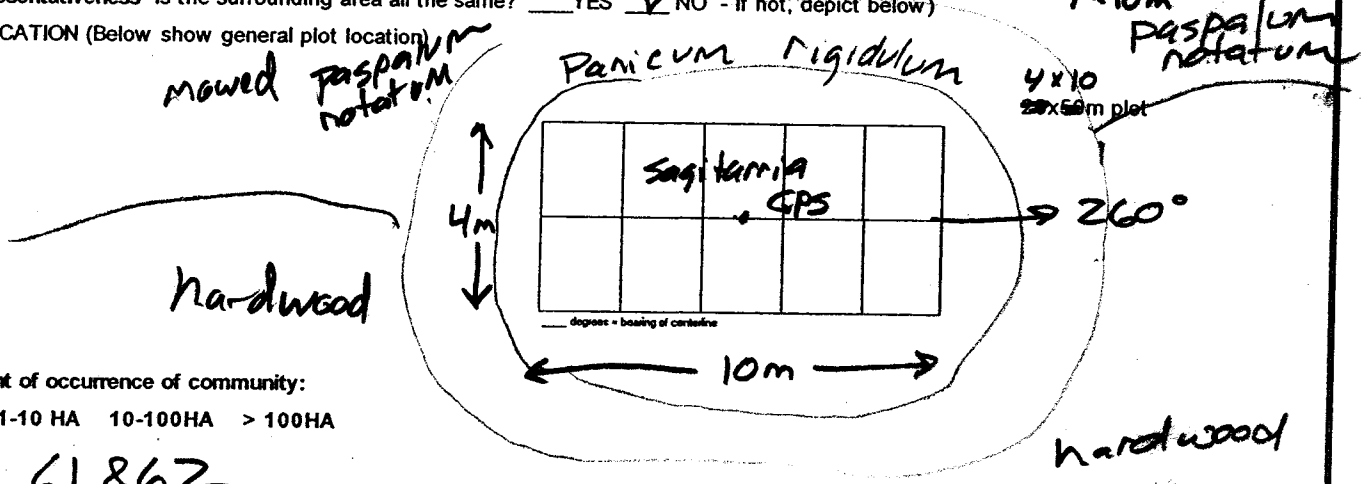
ON N side of Natchez Trace, at bottom of road embankment, just west of Maid Rd. Bridge and NE of Maid Rd. turnoff From NT Parkway.

Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the ~~20~~ x ~~50~~m plot.)

Plot representativeness -Is the surrounding area all the same? ____YES ✓NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

(<1HA) 1-10 HA 10-100HA > 100HA

PIC # 61862

Description of pictures (N,E,S & W from GPS point at middle of plot) :

61 & 62 from SE road embankment.

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 34.64919 N -088.11941 W

WGS 84

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD 83 OR NAD27~~ ~~UTM Zone: 15 16~~

GPS Unit ID _____ GPS file name NT147 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 498 m (ft) GPS

Averaging performed (at least 120 observations)? Coordinate accuracy 7 m / ft DOP # sats 5

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: NATR VICK Plot Code: NT147 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

✓ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

✓ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

__ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System
__ *Upland* ✓ *Palustrine*
__ *Estuarine* __ *Lacustrine* __ *Riverine*

Landform (check most applicable)

__ Alluvial flat
__ Alluvial terrace
__ Bald
__ Bank
__ Bar
__ Bench
__ Bottomlands
__ Cliff
__ Cove
✓ Depression
__ Draw
__ Exogenous dome
__ Floodplain
__ Gap
__ Gorge
__ Hillslope bedrock outcrop
__ Midslope
__ Nose slope
__ Ridge
__ Ridgetop bedrock outcrop
__ Saddle
__ Seep
__ Toe slope
__ Slope
__ Streambed
__ Streamhead
__ Periglacial boulderfield
__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)
__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded ✓ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

Semipermanently flooded

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:
__ Sand __ Peat __ Silt loam ✓ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:
__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
__ Well drained __ Poorly drained ✓ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
____% Litter, duff
____% Wood (> 1 cm)
100% Water
____% Bare soil
____% Other _____

Leaf type:
✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
✓ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
__ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
✓ Herb - Perennial

Physiognomic Class
__ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
✓ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	✓ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
_ dogwood anthr	ORV	

Disturbance and animal use comments:
lots of dragon flies!

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NT147 State: (AL) MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous		70% 100%	Sagittaria latifolia-60% (in pond) Panicum rigidulum-60% (along pond periphery)	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
					8				8	Sagi lat	in pond NATR. 147	
					5				5	Ludw pep		
					3				3	Cera dem		
					8				8	Pani rig	along pond perimeter NATR. 100	
					6				6	Eled ova		
					3				3	Poly hyd		
					2				2	Care lur		
					2				2	Pasp fla		
					2				2	Care fra		
					1				1	Boeh cyl		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

Polygonum hydropiperoides

Entered as 2 plots
NATR. 147 - NATR. 100

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team EKL 8 CWN, Plot NT 101.

Annotated by: CWN

Annotation Date (D-M-Y): 8 / 3 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7179	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Madison Park: (NATR) VICK Plot Code: NT101 State: AL (MS) TN Location org: NPS

Provisional community name Pinus taeda planted forest

Classified community name Pinus taeda planted forest
Classifyer CWN *Date* 8/3/04 *NVC ELCODE* 7179

Survey date: 8/2/04 **Surveyors initials:** CWN & EKL

Tagged tree is a Pinus taeda of 15.5 cm dbh with tag # 350. Center of 20 x 50m plot is at a bearing of 60 degrees and ____ m from tree.

Directions to tag tree (including any notes on best access route, and mile marker): ~0.3 mile SW of mile marker 128 From logging road on SE side of NT, go right before gate (posted No trespassing) go about 100 ~~yards~~ meters then plot is in planted pine about 40m south.

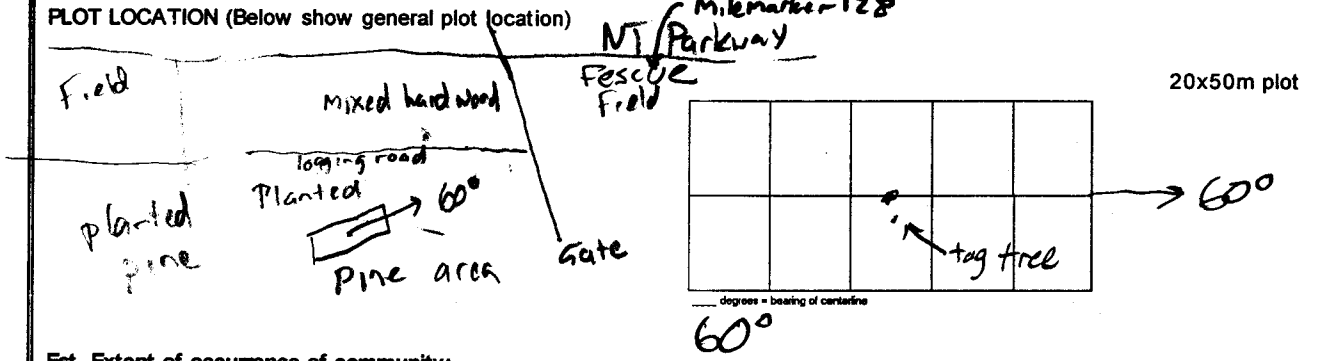
Turn SE off NT opposite McNamara Rd.

Time taken to walk to plot: 5 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES _✓_NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:
< 1HA 1-10 HA 10-100HA > 100HA

PIC # 1-4 Description of pictures (N,E,S & W from GPS point at middle of plot) : 1 (N), 2(E), 3(S), 4(W)

Select one: (UTM) OR Lat/long (If lat/long, then values are _____ N _____ W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) NAD 83 OR NAD27 UTM Zone: 15 (16)

GPS Unit ID _____ **GPS file name** NT101 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X 0236464 m E Y 3614660 m N **Elevation** 416 m/(ft) by GPS

Averaging performed (at least 120 observations)? 66 Coordinate accuracy 17 m / ft DOP poor satelite coverage # sats

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Madison Park: (NATR) VICK Plot Code: NT101 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %			Measured Aspect ____ ° (N=0 °)		
✓ Flat	0 °	0 %	✓ Flat		
__ Gentle	0-5 °	1-9%	__ Variable	__ SE	113-157 °
__ Moderate	6-14 °	10-25%	__ N 338-22 °	__ S	158-202 °
__ Somewhat steep	15-25 °	26-49%	__ NE 23-67 °	__ SW	203-247 °
__ Steep	27-45 °	50-100%	__ E 68-112 °	__ W	248-292 °
__ Very steep	45-69 °	101-275%		__ NW	293-337
__ Abrupt	70-100 °	276-300			
__ ovrhng/shltrd	>100 °	>300%			

Topographic Postion
_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System
✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
✓ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)
__ Not a wetland (Upland: XERIC (DRY - MESIC) MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Probably old field, planted Loblolly pine ~ 20 years old

Soil Texture:
__ Sand __ Peat ✓ Silt loam __ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:
__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock	98 % Litter, duff	____% Other _____
____% Large rocks (cobbles, boulders >10cm)	2 % Wood (> 1 cm)	
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
__ Broad-leaved
✓ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)
✓ Evergreen
__ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	✓ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	✓ exotic plants	_ Fire Suppression
dogwood anthr	ORV	

Disturbance and animal use comments:
Old field pine plantation, was a field in past most likely.

County: Madison Park: (NATR) VICK Plot Code: MT101 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	10-15	90%	Pinus taeda	.5-1m	10%
Understory T3	5-0	10%	LIGUSTY / PINUTAE	1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous				10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	9	4							9	Pinus taeda		
		3	3	1					4	LIGU STY		
				2						SASS ALB		
							4			TOX: RAD		
				4						QUER NIG		
			2	2						ULMU ALA		
							2			SMIL GLA		
							2			VITIS ROT		
							2			PART QUI		
				2						ACER RUB		
		2	2	2					3	DIOS VIR		
					2					ASPL PLA		
				2						LIGU SIN		
					2					SANICULA CAN	✓	✓
							2			AMPEL ARB		
					2					POLY ACR		
					2					CAREX SP		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Madison **Park:** NATR VICK **Plot Code:** MT101 **State:** AL (MS) TN **Location org:** NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?
							1			BERCH SCA		
							2			CONVOLVULACE sp		
					2					BOEH CYL.		
					2					LYGOD JAP		
					2					DICH LAX		
					1					~~DESMODIUM NUDE~~ sp.		
					1					NYSS SYL		
					1					SOLI sp.		
			2		1					CELT ~~[illegible]~~ OCC -	✓	✓
							2			LONI JAP		
					1					SALV LYR		
					1					EREC HYER		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team EKL SCWN, Plot NT102

Annotated by: CWN

Annotation Date (D-M-Y): 8 / 2 / 04

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
2420	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Madison Park: NATR VICK Plot Code: NT102 State: AL MS TN Location org: NPS

Provisional community name Baldcypress lesser duckweed forest

Classified community name Taxodium distichum / Lemna minor Forest

Classifyer _____ *Date* _____ *NVC ELCODE* 2.420

Survey date: 8/2/04 **Surveyors initials:** CWN & EKL

Tagged tree is a Quercusphellos of 44 cm dbh with tag # 351. origin ~~Center~~ of 20 x 50m plot is at a bearing of 90° degrees and 4.5 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

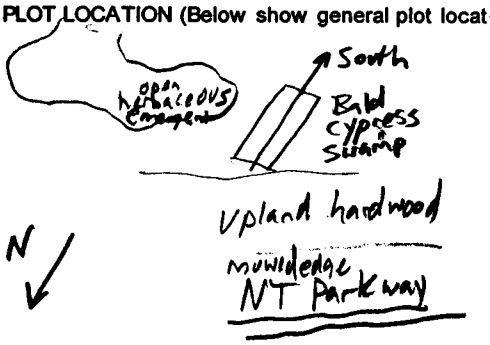
0.2 mile South of Mile marker 127 on SE side of NT parkway

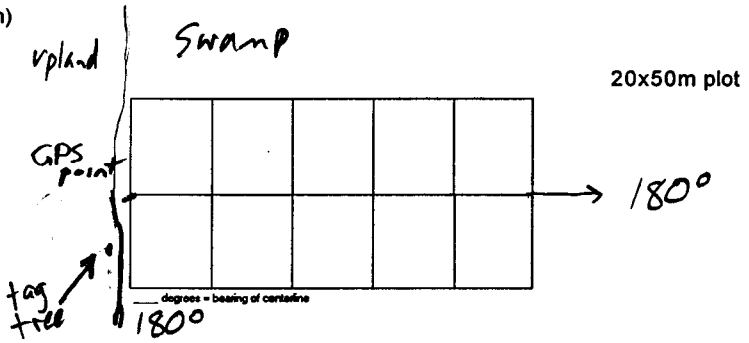
Time taken to walk to plot: 5 min.

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓NO - If not, depict below)

PLOT LOCATION (Below show general plot location)





Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 5 Description of pictures (N,E,S & W from GPS point at middle of plot) : 5 (South along transect).

Select one: UTM OR Lat/long (If lat/long, then values are _____ N _____ W

GPS Techniques/Equipment: Garmin III+ Garmin V Datum(pick one) NAD 83 OR NAD27 UTM Zone: 15 16

GPS Unit ID _____ GPS file name NT102 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X 0235527 m E Y 3614231 m N Elevation 339 m ft (GPS)

Averaging performed (at least 120 observations)? Coordinate accuracy m / ft DOP # sats

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Madison Park: (NATR) VICK Plot Code: NT102 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %			**Measured Aspect** ____ ° (N = 0 °)			**Topographic Postion**	
✓ Flat	0 °	0 %	✓ Flat			_ Interfluve (Ridge/summit/crest)	__ Toeslope
__ Gentle	0-5 °	1-9%	__ Variable			__ High Slope (upper/convex slope)	
__ Moderate	6-14 °	10-25%	__ N	338-22 °	__ SE 113-157 °	__ Midslope	✓ Low level (terrace)
__ Somewhat steep	15-25 °	26-49%	__ NE	23-67 °	__ S 158-202 °	__ Lowslope (lower/footslope)	__ Channel bed
__ Steep	27-45 °	50-100%	__ E	68-112 °	__ SW 203-247 °		
__ Very steep	45-69 °	101-275%			__ W 248-292 °	*Cowardin System*	
__ Abrupt	70-100 °	276-300			__ NW 293-337	_ *Upland*	✓ *Palustrine*
__ ovrhng/shltrd	>100 °	>300%				_ *Estuarine*	_ *Lacustrine* _ *Riverine*

Landform (check most applicable)		
__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	✓ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)
__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC) ✓
__ Intermittently flooded __ Permanently flooded ✓ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

Flooded Cypress swamp

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Logged in past

Soil Texture:				**Drainage:**		
__ Sand	__ Peat	__ Silt loam	✓ Muck	__ Rapidly drained	__ Moderately well drained	__ Somewhat poorly drained
__ Sandy loam	__ Loam	__ Clay loam	__ Clay	__ Well drained	__ Poorly drained	✓ *Very poorly drained*

Ground cover

____% Bedrock	____% Litter, duff	____% Other _____
____% Large rocks (cobbles, boulders >10cm)	5 % Wood (> 1 cm)	
____% Small rocks (gravel, 0.2-10 cm)	95 % Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:	**Leaf phenology** (dominant stratum)	**Physiognomic Class**
__ Broad-leaved	__ Evergreen	✓ Forest (closed tree canopy)
✓ Needle-leaved	✓ Cold-deciduous	__ Woodland (open tree canopy)
__ Microphyllous	__ Drought-deciduous	__ Shrubland
__ Graminoid	__ Mixed evergreen-cold-deciduous	__ Dwarf Shrubland
__ Broad-leaved herbaceous	__ Mixed evergreen drought deciduous	__ Herbaceous (less than 25% woody layers)
__ Pteridophyte	__ Herb - Annual	__ Nonvascular
__ Extremely xeromorphic	__ Herb - Perennial	__ Sparse Vegetation
__ Mixed		

Natural and Anthropogenic Disturbance			*Disturbance and animal use comments:*
✓ logging	_ fire	_ Hydrologic	Frogs are Singing.
_ erosion	_ trails/roads	_ Agriculture	Armadillo in upland
_ grazing/browsing	_ wind/ice damage	_ Old Growth	
_ pine bark beetle	_ exotic plants	_ Fire Suppression	
dogwood anthr	ORV		

NPS GULF COAST PROJECT: Plot *Sampling Form* 8/2/04

County: Madison Park: (NATR) VICK Plot Code: NT 102 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35	80%	TAXO DIST	.5-1m	10%
Understory T3	15-20	70%	Nyss Aqu, Nyss Big, TAXO DIS	1-2m	20%
Tall shrub S1	2-5	<5%	Nyss Big	2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous	0.5	80%	LEMNA MINOR	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent* | *T2: Tree Canopy* | *T3 Subcanopy* | *S1 Tall Shrub (> 1m; to 5m)* | *S2 Short Shrub (< 1m)* | *H Herbaceous* | *N Nonvascular* | *V Vines (lianas)* | *E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	8	6	4						8	TAXO DIST		
		5							5	NYSS AQU		
		7	5						8	NYSS BIG		
					9				9	LEMNA MIN		
					1				1	TRIODENUM WALTERI (SWAMP HYPERICUM)		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:__________ **Park:** NATR VICK **Plot Code:**______ **State:** AL MS TN **Location org:** NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team_____, Plot NT103.

Annotated by: CWN

Annotation Date (D-M-Y): 4 / 3 / 2007

****

Method of assignment:

☑ inspection ☑ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
				New NVC assoc?
2420	1	H	NATR data analysis 2007	

Other Comments:

perhaps shouldn't be a new assoc but could be used for a mapping site.

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Madison Park: (NATR) VICK Plot Code: 103 State: AL (MS) TN Location org: NPS

Provisional community name

Classified community name Taxodium distichum / Cephalanthus Minor Forest

Classifyer CWN *Date* 4/3/2007 *NVC ELCODE* 2420

Survey date: 8/2/2004 **Surveyors initials:** CWN EKL

Tagged tree is a Nyss Bif of 68 cm dbh with tag # 352. Center of 20 x 50m plot is at a bearing of 135° degrees and 50 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

Park at Mile marker 127

Near Mile marker 127 edge of swamp SE of NT.

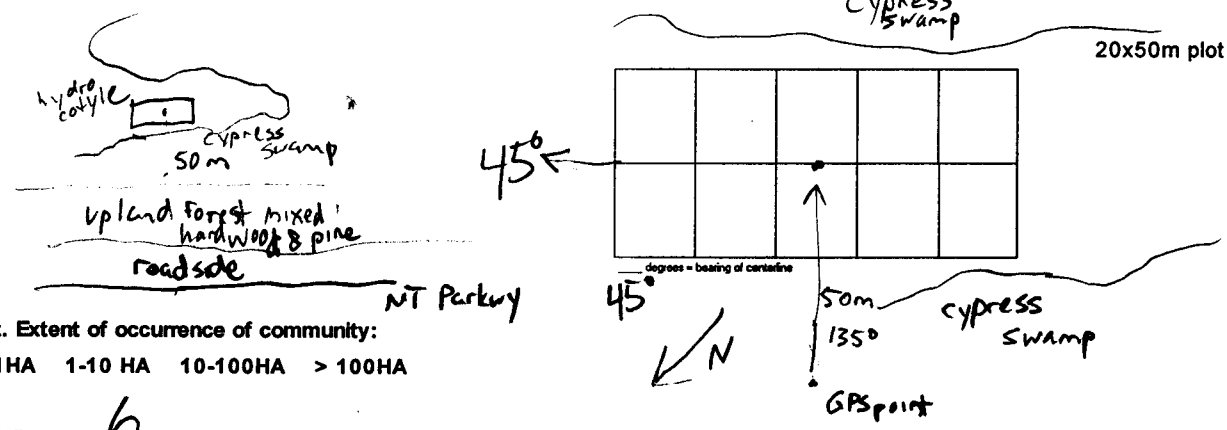
Tag tree is at GPS point — 135° 50m to plot center.

Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 6 Description of pictures (N,E,S & W from GPS point at middle of plot) :

6 = picture of plot from GPS point (SE 135°), 50m NW of plot ctr.

Select one: UTM OR Lat/long (If lat/long, then values are ___ N ___ W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) (NAD 83) OR NAD27 UTM Zone: 15 (16)

GPS Unit ID ___ GPS file name NTI03 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X 235548 m E Y 3614274 m N Elevation 300 m/(ft)

Averaging performed (at least 120 observations)? Coordinate accuracy 7 (m)/ ft DOP # sats

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Madison Park: (NATR) VICK Plot Code: NT 103 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 0 ° ___ %			**Measured Aspect** ___ ° (N=0 °)			**Topographic Postion**	
✓ Flat	0 °	0 %	✓ Flat			_ Interfluve (Ridge/summit/crest)	__ Toeslope
__ Gentle	0-5 °	1-9%	__ Variable	__ SE	113-157 °	__ High Slope (upper/convex slope)	
__ Moderate	6-14 °	10-25%	__ N 338-22 °	__ S	158-202 °	__ Midslope	✓ Low level (terrace)
__ Somewhat steep	15-25 °	26-49%	__ NE 23-67 °	__ SW	203-247 °	__ Lowslope (lower/footslope)	✓ Channel bed
__ Steep	27-45 °	50-100%	__ E 68-112 °	__ W	248-292 °		
__ Very steep	45-69 °	101-275%		__ NW	293-337	*Cowardin System*	
__ Abrupt	70-100 °	276-300				_ *Upland*	✓ *Palustrine*
__ ovrhng/shltrd	>100 °	>300%				_ *Estuarine*	_ *Lacustrine* _ *Riverine*

Landform (check most applicable)		
__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	✓ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded ✓ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY: PERHAPS SEMIPERM FLOODED, BUT APPARENTLY PERM.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

LOGGED IN PAST

Soil Texture:					**Drainage:**		
__ Sand	__ Peat	__ Silt loam	✓ Muck		__ Rapidly drained	__ Moderately well drained	__ Somewhat poorly drained
__ Sandy loam	__ Loam	__ Clay loam	__ Clay		__ Well drained	__ Poorly drained	✓ *Very poorly drained*

Ground cover

____% Bedrock	____% Litter, duff	____% Other _____
____% Large rocks (cobbles, boulders >10cm)	____% Wood (> 1 cm)	
____% Small rocks (gravel, 0.2-10 cm)	100% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:	**Leaf phenology** (dominant stratum)	**Physiognomic Class**
__ Broad-leaved	__ Evergreen	__ Forest (closed tree canopy)
__ Needle-leaved	__ Cold-deciduous	__ Woodland (open tree canopy)
__ Microphyllous	__ Drought-deciduous	__ Shrubland
__ Graminoid	__ Mixed evergreen-cold-deciduous	__ Dwarf Shrubland
✓ Broad-leaved herbaceous	__ Mixed evergreen drought deciduous	✓ Herbaceous (less than 25% woody layers)
__ Pteridophyte	__ Herb - Annual	__ Nonvascular
__ Extremely xeromorphic	✓ Herb - Perennial	__ Sparse Vegetation
__ Mixed		

Natural and Anthropogenic Disturbance			*Disturbance and animal use comments:*
✓ logging	_ fire	✓ Hydrologic	
_ erosion	_ trails/roads	_ Agriculture	
_ grazing/browsing	_ wind/ice damage	_ Old Growth	
_ pine bark beetle	_ exotic plants	_ Fire Suppression	
_ dogwood anthr	_ ORV		

County: Madison Park: (NATR) VICK Plot Code: 103 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2		5%	TAXO DIS	.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous	1.5	80%	HYDROCOTYLE RANUNCULOIDES	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
					8				8	HYDROCOTYLE RANUNC		
	4									TAXODIUM DIS - ALONG FRINGES		
					7				7	LEMNA MINOR		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:____________ **Park: NATR VICK Plot Code:**_______ **State: AL MS TN Location org: NPS**

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team CWN & EKL, Plot NT 104.

Annotated by: CWN

Annotation Date (D-M-Y): 8 / 12 / 04

****

Method of assignment:

- ☐ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
4770	2	M		seems to fit

Other Comments:

Carya myristiciformis ?

look at collections!

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Madison Park: (NATR) VICK Plot Code: NT104 State: AL (MS) TN Location org: NPS

Provisional community name _____

Classified community name Quercus nigra - Quercus pagoda - Carya myristiciformis/Cercis canadensis Forest

Classifyer CWN *Date* 8/12/2004 *NVC ELCODE* 4770

Survey date: 8/2/04 **Surveyors initials:** CWN & EKL

Tagged tree is a Quercus michauxii of 77 cm dbh with tag # 353. Center of 20 x 50m plot is at a bearing of 50° degrees and 3 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

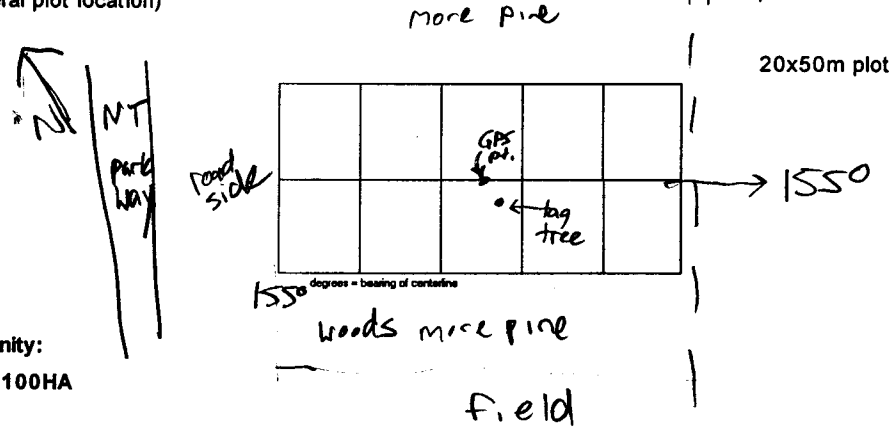
Vicinity of mile marker 130.
Tag tree is 25 m S of edge of woods North of large field.

Time taken to walk to plot: 5 min.

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 7-10 Description of pictures (N,E,S & W from GPS point at middle of plot) : _____

7(N), 8(E), 9(S), 10(W)

Select one: UTM OR Lat/long (If lat/long, then values are _____ N _____ W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) (NAD 83) OR NAD27 UTM Zone: 15 (16)

GPS Unit ID _____ **GPS file name** NT104 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X 0239749 m E Y 3616594 m N **Elevation** 331 m / (ft)

Averaging performed (at least 120 observations)? 227 Coordinate accuracy _____ m / ft DOP _____ # sats _____

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Madison Park: (NATR) VICK Plot Code: MT104 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

✓ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

✓ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope ✓ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

_ *Upland* ✓ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
✓ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded ✓ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

temp flooded? hydrologically altered (Pearl River area)

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:

__ Sand __ Peat ✓ Silt loam __ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
__ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
100% Litter, duff
____% Wood (> 1 cm)
____% Water
____% Bare soil
____% Other _____

Leaf type:

✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging _ fire _ Hydrologic
_ erosion _ trails/roads _ Agriculture
_ grazing/browsing _ wind/ice damage _ Old Growth
_ pine bark beetle _ exotic plants _ Fire Suppression
_ dogwood anthr _ ORV

Disturbance and animal use comments:

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Madison Park: NATR VICK Plot Code: NT104 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	80%	QUER MICH QUER NIG LIQU STY	.5-1m	10%
Understory T3	10-15m	50%	QUERNIG ULMUALA ULMUAME	1-2m	20%
Tall shrub S1	2-5m	30%	ULMU ALA CARYA OVATA	2-5m	30%
Short shrub S2	.5-1m	30%	QUER MICH QUERNIG ULMUALA	5-10m	40%
Herbaceous	<.5m	20%	BIGN CAP TOXI RAD QUERNIG LEERVIR	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	6			4					6	QUER MICH		
		4		2					4	ACER RUB TRI		
		5	4	4					5	ULMU ALA		
		3	4						4	CARY OVATA (NO FRAG)		
	5			3					5	LIQU STY		
			2							OSTR VIR		
	6	6		4	3				7	QUER NIG		
				2						~~PRUN SER~~ PRUN SER		
				3						ILEX DEC		
					3		5		5	TOXI RAD		
					1					MORU RUB		
				2						SAMB CAN		
		5								ULMU AME		
				2						ILEX OPA		
					2					ATHY FIL ASP		
				3			3		4	PART QUI		
				3						LONI JAP		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

County: Madison Park: (NATR) VICK Plot Code: NT104 State: AL (MS) TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
		2								FAGU GRA		
			2							CALLIC AME		
				4						SMIL ROT		
		4								CARY PUB. W/O LEPTODD SCALES	✓	
				2						ILEX VERTIC		
	4									PINU TAE		
					3					BIGN CAP		
					2					CAREX SP	✓	
					2					PLEOPELT POLY MICH		
	3									QUER RAD		
					2					Trachelospermum difforme		
										~~RUMPELOPSIS AR~~		
				2						CAMP RAD		
					1					BIDENS SP.		
					1					JUNC EFF		
					2					DICLIPTERA? → JUSTOVAL	✓	
				1			2			BERC SCA		
							2			VITI ROT		
					1					VITIS VULPINA?		
					1					BRUN OVA		
				1						RUBUS SP.		
					3					LEERSIA VIRGINICA		
				1						DIOS VIR		

Cover classes	
1.	trace
2.	0.1-1%
3.	1-2%
4.	2-5%
5.	5-10%
6.	10-25%
7.	25-50%
8.	50-75%
9.	75-95%
10.	>95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team CWN 8EKL, Plot NT105

Annotated by: CWN

Annotation Date (D-M-Y): 8/3/04

****

Method of assignment:

- ☑ inspection
- ☐ multivariate
- ☐ tabular analysis
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
7353	2	M		Q. pagoda not in plot but is locally common

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Attala Park: (NATR) YICK Plot Code: 105 State: AL (MS) TN Location org: NPS

Provisional community name _____

Classified community name Liquidambar styraciflua - Quercus pagoda - Carya spp. / Carpinus caroliniana / Carex spp. Forest
Classifyer CWN *Date* 8/12/04 *NVC ELCODE* 7353

Survey date: 8/3/04 **Surveyors initials:** CWN & EKL

Tagged tree is a Water oak of ~100 cm dbh with tag # 354. Center of 20 x 50m plot is at a bearing of 30 degrees and 2.0 m from tree.

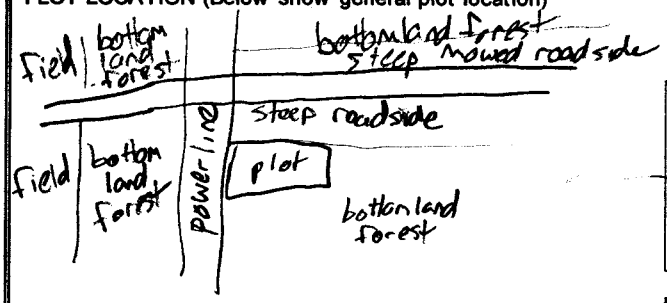
Directions to tag tree (including any notes on best access route, and mile marker): Vicinity (N. of MM162)
Just E of powerline cut on south side of NT Parkway. Very steep roadside embankment as parkway goes thru this bottomland. Park by edge of woods and Field before powerline (traveling N. on NT parkway).

Time taken to walk to plot: 3 min.

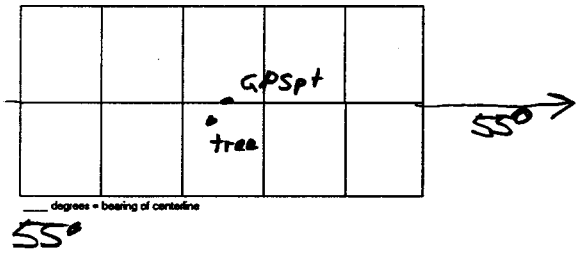
PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



20x50m plot



55°

Est. Extent of occurrence of community:
< 1HA 1-10 HA 10-100HA > 100HA

PIC # 11 – 14 Description of pictures (N,E,S & W from GPS point at middle of plot) : _____

11 (N), 12 (E), 13 (S), 14 (W)

Select one: (UTM) OR Lat/long (If lat/long, then values are _____ N _____ W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) (NAD 83) OR NAD27___ UTM Zone: 15 (16)

GPS Unit ID _____ **GPS file name** NT105 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X 261775 m E Y 3661445 m N **Elevation** 424 m (ft) From GPS

Averaging performed (at least 120 observations)? Y Coordinate accuracy 8 (m) / ft DOP # sats 7

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Attala Park: (NATR) VICK Plot Code: NT105 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %			Measured Aspect ____ ° (N=0 °)			Topographic Postion	
✓ Flat	0 °	0 %	✓ Flat		SE 113-157 °	_ Interfluve (Ridge/summit/crest)	__ Toeslope
__ Gentle	0-5 °	1-9%	__ Variable		S 158-202 °	__ High Slope (upper/convex slope)	
__ Moderate	6-14 °	10-25%	__ N	338-22 °	SW 203-247 °	__ Midslope	✓ Low level (terrace)
__ Somewhat steep	15-25 °	26-49%	__ NE	23-67 °	W 248-292 °	__ Lowslope (lower/footslope)	__ Channel bed
__ Steep	27-45 °	50-100%	__ E	68-112 °	NW 293-337		
__ Very steep	45-69 °	101-275%				*Cowardin System*	
__ Abrupt	70-100 °	276-300				_ *Upland*	✓ *Palustrine*
__ ovrhng/shltrd	>100 °	>300%				_ *Estuarine*	_ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
✓ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded ✓ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

Bottomland temporarily flooded, may be altered hydrologically

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Some large trees present (1 m dbh)

Soil Texture:
__ Sand __ Peat ✓ Silt loam __Muck
__ Sandy loam __ Loam __ Clay loam __Clay

Drainage:
__ Rapidly drained __ Moderately well drained __Somewhat poorly drained
__ Well drained ✓ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock	95 % Litter, duff	____% Other _____
____% Large rocks (cobbles, boulders >10cm)	5 % Wood (> 1 cm)	
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
_ dogwood anthr	_ ORV	

Disturbance and animal use comments:

NPS GULF COAST PROJECT: Plot *Sampling Form* 8/3/04

County: Attala **Park:** (NATR) VICK **Plot Code:** NT105 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	80%	LIQUSTY QUERNIG ACERRUB	.5-1m	10%
Understory T3	10-15m	50%	LIQUSTY ULMUAME ULMUALA ACERRUB	1-2m	20%
Tall shrub S1	2-5m	30%	ACERRUB ULMUALA ULMUAME	2-5m	30%
Short shrub S2	.5-1m	40%	TOXIRAD	5-10m	40%
Herbaceous	< 5m	20%	BIGNCAP	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): CARYA MYRSTICIFORMIS? (seedling)				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	6			4					6	QUER NIG		
	5	5	4						5	ACER RUB		
		5	4	4					5	ULMU ALA		
	4	5	4						5	ULMU AME		
				3						LIQU STY		
	4	4	3	3					4	LIRI TUL		
	7	6							7	LIQU STY		
				4						RUBU		
				2						ILEX OPA		
				4			2		4	SMIL ROT		
				2						PRUN SER		
				4						PART QUI		
				5			5		5	TOXI RAD		
					4					BIGN CAP		
					2					MIKA SCA		
					1					CAREX SP (VIOLACEA) PLATYPHYLLA? BLANDA?		
	4									PINU TAE		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

8/3/04

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Attala **Park:** (NATR) VICK **Plot Code:** 105 **State:** AL (MS) TN **Location org:** NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					3					POLYG VIR (TOMARA)		
				2						LONI JAP		
				1						SMIL GLAU		
					2					SANI CAN		
					1					GRASS - AGROSTIS SP.		
		4								NYSS BIF		
		3	3						3	CARP CAR		
				3						CARY COR		
				1						FRAX PEN		
					2					CAREX (LONG LVS)		
				2						CORN STR (FOLM)		
					2					LACTUCA		
							2			VITI ROT		
					3					ARIS TRI		
		✓		2			4		4	BERC SCA		
					1					JUNI VIR		
				2						DIOS VIR		
					1					MATELEA		
					1					CRYP CAN		
					2					LEEP VIR		
					2					BOEH CYL		
					1					EREC HIE		
	5									QUER PHE		
							2			VITIS CINERA		
					2					SOLIDAGO SP.		
					1					GALIUM TRI		
			2							SAMBCAN		
					1					CAREX (COLL. @ NT 104)		
					1					ASTER DUM		
				2						CARYA MYRSTICIFORMIS	✓	
							2			CLEMVIR		
					1					ASPL PLA		
				2						SMILBON		
					1					VIOLA SOROR SORORIA		
			1							FAGVGRA		

Use bottom of this sheet or additional pages for other species in 1 ha plot

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team CWN & EKL, Plot NT 106

Annotated by: CWN

Annotation Date (D-M-Y): 8 / 3 / 04

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
4053	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Choctaw Park: (NATR) VICK Plot Code: NT106 State: AL (MS) TN Location org: NPS

Provisional community name _____

Classified community name Pinus echinata - Quercus stellata - (Quercus marilandica) Forest
Classifyer CWN *Date* 8/3/04 *NVC ELCODE* 4053

Survey date: 8/3/2004 **Surveyors initials:** CWN & EKL

Tagged tree is a shortleaf pine of ____ cm dbh with tag # 355. Center of 20 x 50m plot is at a bearing of 200° degrees and 5.5 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

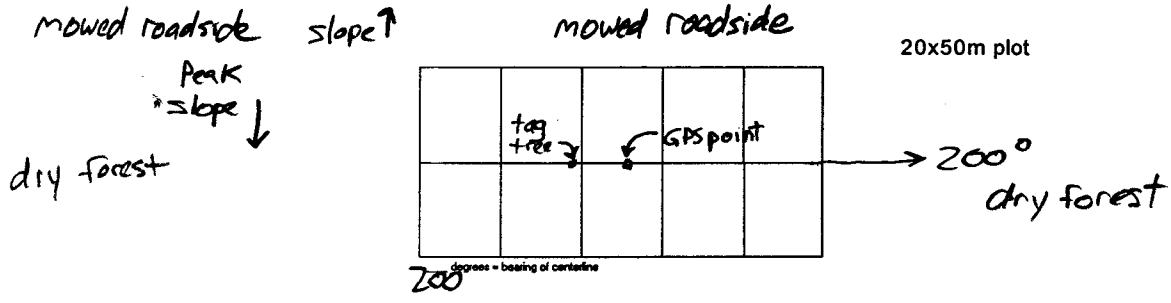
3 miles south of Jeff Busby rec area. Just south of MM 190 across NT Parkway across NT Parkway from "Travelers Info tune to AM 1610" sign. From this sign tag tree is at 315°. Parking area is right across NT Parkway from plot.

Time taken to walk to plot: 2 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

small dirt road

PIC # 15-18 Description of pictures (N,E,S & W from GPS point at middle of plot) : _____

15(N), 16(E), 17(S), 18(W)

Select one: (UTM) OR Lat/long (If lat/long, then values are _____ N _____ W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) (NAD 83) OR NAD27 UTM Zone: 15 (16)

GPS Unit ID _____ GPS file name NT106 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X 286940 m E Y 3695241 m N Elevation 594 m / (ft) (GPS)

Averaging performed (at least 120 observations)? Y Coordinate accuracy ____ m / ft DOP ____ # sats ____

County:_____ Park: (NATR) VICK Plot Code: NT106 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %		**Measured Aspect** ____ ° (N=0 °)		**Topographic Postion**
__ Flat	0 ° 0 %	__ Flat	__ SE 113-157 °	✓ Interfluve (Ridge/summit/crest) __ Toeslope
__ Gentle	0-5 ° 1-9%	__ Variable	__ S 158-202 °	__ High Slope (upper/convex slope)
__ Moderate	6-14 ° 10-25%	__ N 338-22 °	__ SW 203-247 °	__ Midslope __ Low level (terrace)
__ Somewhat steep	15-25 ° 26-49%	__ NE 23-67 °	✓ W 248-292 °	__ Lowslope (lower/footslope) __ Channel bed
__ Steep	27-45 ° 50-100%	__ E 68-112 °	__ NW 293-337	
__ Very steep	45-69 ° 101-275%			*Cowardin System*
__ Abrupt	70-100 ° 276-300			✓ *Upland* _ *Palustrine*
__ ovrhng/shltrd	>100 ° >300%			_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)		
__ Alluvial flat	__ Cove	✓ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present: Sandstone

Hydrologic Regime (check only for wetlands)
✓ Not a wetland (Upland: XERIC (DRY) MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

Dry ridge

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Unclear

Soil Texture:				**Drainage:**		
__ Sand	__ Peat	__ Silt loam	__ Muck	__ Rapidly drained	__ Moderately well drained	__ Somewhat poorly drained
__ Sandy loam	✓ Loam	__ Clay loam	__ Clay	__ Well drained	__ Poorly drained	__ *Very poorly drained*

Ground cover

____% Bedrock	90 % Litter, duff	____% Other _____
____% Large rocks (cobbles, boulders >10cm)	4 % Wood (> 1 cm)	
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	6 % Bare soil	

Leaf type:	**Leaf phenology** (dominant stratum)	**Physiognomic Class**
✓ Broad-leaved	__ Evergreen	✓ Forest (closed tree canopy)
__ Needle-leaved	__ Cold-deciduous	__ Woodland (open tree canopy)
__ Microphyllous	__ Drought-deciduous	__ Shrubland
__ Graminoid	✓ Mixed evergreen-cold-deciduous	__ Dwarf Shrubland
__ Broad-leaved herbaceous	__ Mixed evergreen drought deciduous	__ Herbaceous (less than 25% woody layers)
__ Pteridophyte	__ Herb - Annual	__ Nonvascular
__ Extremely xeromorphic	__ Herb - Perennial	__ Sparse Vegetation
__ Mixed		

Natural and Anthropogenic Disturbance			*Disturbance and animal use comments:*
_ logging	_ fire	_ Hydrologic	
_ erosion	_ trails/roads	_ Agriculture	
_ grazing/browsing	_ wind/ice damage	_ Old Growth	
_ pine bark beetle	_ exotic plants	_ Fire Suppression	
_ dogwood anthr	_ ORV		

County: Choctaw Park: (NATR) VICK Plot Code: MT106 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	15-20m	70%	QUERSTE PINU ECH PINUTAE
Understory T3	5-10m	40%	CARY PAL ULMALA QUERSTE
Tall shrub S1	2-5m	30%	VACCARB PRUNSER
Short shrub S2	<.5m	20%	PARTQUE VITIROT
Herbaceous			
Non-vascular			
Vine/liana			

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):
Little bluestem abundant along ridge edge of woods and mowed roadside.

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

***T1:** Emergent | **T2:** Tree Canopy | **T3** Subcanopy | **S1** Tall Shrub (>1m; to 5m) | **S2** Short Shrub (< 1m) | **H** Herbaceous | **N** Nonvascular | **V** Vines (lianas) | **E** Epiphytes*

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	6	6							7	QUERSTE		
	4	5							5	QUERMAR		
	6									PINU ECH		
	5									PINUTAE		
		3	5	2					5	PRUNSER		
		6								CARY PAL		
			5							VACCARB		
				3			3		4	VITIROT		
				2						TOXITOX		
				3			2		3	PARTQUE		
		3		1					3	JUNIVIR		
		6								ULUMALA		
				2						VACCSTA		
				2						CRATAEGUS SP.		
				1						QUERNIG		
								2		PLEOPALM		
					1					ARIS SP		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form* 8/3/04 **Page** 4

County: Choctaw **Park:** (NATR) VICK **Plot Code:** NT10 **State:** AL (MS) TN **Location org:** NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
				2						QUER RUB		
					2					SOLI sp. ULM (RHIZOMATOUS)	✓	
					1					CAREX RED SHRE		
							3			SMIL BON		
					2					DICH 2DM TALL LVS 2CM wd	✓	
					1					LESP ~~ARIS~~ VIR		
				2						CALLI AME		
					1					~~DESM~~ GALA VOL		
					1					ILEX OPA		
			2	2					2	RHUS COP		
							3			SMIL GLA		
	4	5							5	CARY ALB		
					2					~~DENS~~ ~~CAR~~ 1 SP.		
					1					ASPL PLAT		
					1					CHASM SESS (OUTSIDE PLOT)		
				1						LIGU SIN		
							2			VITI CIN		
					1					ASCL AMP		
					1					MONO UNI		
				2						DIOS VIR		
					1					DICH SP. (Fuzzy)		
				1						LONIJAP		
					1					ANTENARIA SP.		
							2			TOXI RAD		
					2					SCHISCO		
					1					MANFVIR		
					2					DANTSER		
					1					DICH DIC		
				1						RUBUS SP.		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team CVN & FKL, Plot NT 107.

Annotated by: CVN

Annotation Date (D-M-Y): 4 / 12 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
2386	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Tishomingo Park: NATR VICK Plot Code: NT107 State: AL MS TN Location org: NPS

Provisional community name Nuphar lutea herbaceous

Classified community name Nuphar lutea ssp. advena - Nymphaea odorata Herbaceous vegetation
Classifyer CWN *Date* 8/12/2004 *NVC ELCODE* 2386

Survey date: 8/3/04 **Surveyors initials:** CWN & EKL

Tagged tree is a No tag tree of ____ cm dbh with tag #_____. Center of 20 x 50m plot is at a bearing of ____ degrees and ____ m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

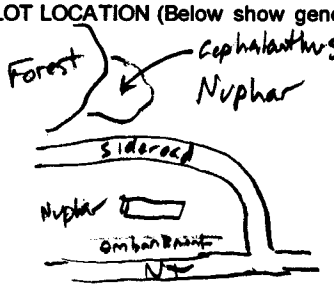
North side of NT just past (East of) Bridge over Tenn-tom Waterway. At approx Mile 293.5
GPS point is at edge of wetland downslope before turnout area for Tenn-Tenn. Center of plot is 15m from GPS point at 18°.

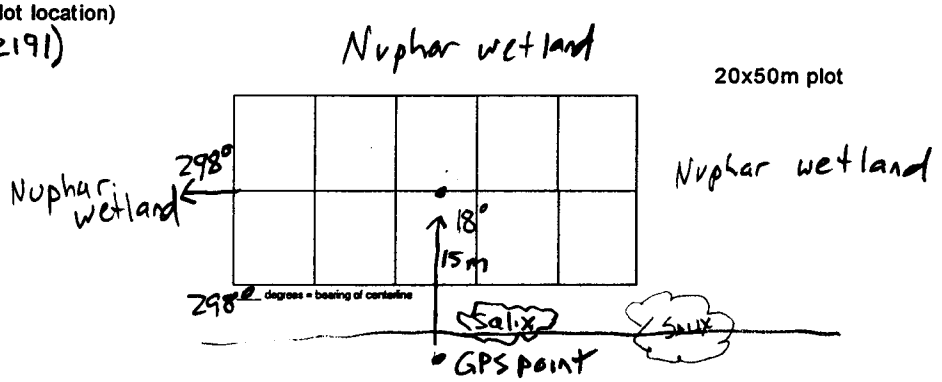
Time taken to walk to plot: 2 min

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓NO - If not, depict below)

PLOT LOCATION (Below show general plot location)





Est. Extent of occurrence of community:
< 1HA 1-10 HA 10-100HA > 100HA

PIC # 19-21 **Description of pictures (N,E,S & W from GPS point at middle of plot) :**

19(N), 20(E), 21 (330° of plot)

Select one: UTM OR Lat/long (If lat/long, then values are _____ N _____ W

GPS Techniques/Equipment: Garmin III+ Garmin V **Datum(pick one)** NAD 83 OR NAD27___ **UTM Zone:** 15 16

GPS Unit ID _____ **GPS file name** NT107 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X 378765 m E Y 3818897 m N **Elevation** 359 m ft (GPS)

Averaging performed (at least 120 observations)? **Coordinate accuracy** ± 5 m ft **DOP** **# sats** many

NPS GULF COAST PROJECT: Plot *Sampling Form*

8/3/04

County: Tishomingo **Park:** (NATR) VICK **Plot Code:** NT107 **State:** AL (MS) TN **Location org:** NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %		**Measured Aspect** ____ ° (N=0 °)		**Topographic Postion**	
✓ Flat	0 ° 0 %	✓ Flat	__ SE 113-157 °	_ Interfluve (Ridge/summit/crest)	__ Toeslope
__ Gentle	0-5 ° 1-9%	__ Variable	__ S 158-202 °	__ High Slope (upper/convex slope)	
__ Moderate	6-14 ° 10-25%	__ N 338-22 °	__ SW 203-247 °	__ Midslope	? __ Low level (terrace)
__ Somewhat steep	15-25 ° 26-49%	__ NE 23-67 °	__ W 248-292 °	__ Lowslope (lower/footslope)	✓ Channel bed
__ Steep	27-45 ° 50-100%	__ E 68-112 °	__ NW 293-337		
__ Very steep	45-69 ° 101-275%			*Cowardin System*	
__ Abrupt	70-100 ° 276-300			_ *Upland*	✓ *Palustrine*
__ ovrhng/shltrd	>100 ° >300%			_ *Estuarine*	_ *Lacustrine* _ *Riverine*

Landform (check most applicable)		
__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	✓ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)

__ Intermittently flooded ✓ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)

__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY: APPARENTLY IMPOUNDED

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:				**Drainage:**		
__ Sand	__ Peat	__ Silt loam	✓ Muck	__ Rapidly drained	__ Moderately well drained	__ Somewhat poorly drained
__ Sandy loam	__ Loam	__ Clay loam	__ Clay	__ Well drained	__ Poorly drained	✓ *Very poorly drained*

Ground cover

____% Bedrock	____% Litter, duff	____% Other _____
____% Large rocks (cobbles, boulders >10cm)	____% Wood (> 1 cm)	
____% Small rocks (gravel, 0.2-10 cm)	100 % Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:	**Leaf phenology** (dominant stratum)	**Physiognomic Class**
__ Broad-leaved	__ Evergreen	__ Forest (closed tree canopy)
__ Needle-leaved	__ Cold-deciduous	__ Woodland (open tree canopy)
__ Microphyllous	__ Drought-deciduous	__ Shrubland
__ Graminoid	__ Mixed evergreen-cold-deciduous	__ Dwarf Shrubland
✓ Broad-leaved herbaceous	__ Mixed evergreen drought deciduous	✓ Herbaceous (less than 25% woody layers)
__ Pteridophyte	__ Herb - Annual	__ Nonvascular
__ Extremely xeromorphic	✓ Herb - Perennial	__ Sparse Vegetation
__ Mixed		

Natural and Anthropogenic Disturbance			*Disturbance and animal use comments:*
_ logging	_ fire	✓ Hydrologic	
_ erosion	_ trails/roads	_ Agriculture	
_ grazing/browsing	_ wind/ice damage	_ Old Growth	
_ pine bark beetle	_ exotic plants	_ Fire Suppression	
_ dogwood anthr	_ ORV		

County: Tishomingo Park: (NATR) VICK Plot Code: MT07 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous	<.5m	10%	NUPHLUT	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
					8					NUPHLUT		
					2					LEMNA SP.		
			3							TAXODIS		
					2					HIBISCUS & MOSCHEUTOS		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:____________ Park: NATR VICK Plot Code:_______ State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team CWN & EKL, Plot NT108.

Annotated by: CWN

Annotation Date (D-M-Y): 8 / 12 / 04

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
2067	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Wayne Park: NATR VICK Plot Code: NT108 State: AL MS (TN) Location org: NPS [redacted]

Provisional community name _____

Classified community name Quercus alba - Quercus rubra - Carya (alba, ovata) / Cornus Florida Forest
Classifyer CWN *Date* 8/12/04 *NVC ELCODE* 2067

Survey date: 8/4/2004 **Surveyors initials:** CWN & EKL

Tagged tree is a mockernut of 14.5 cm dbh with tag # 356. Center of 20 x 50m plot is at a bearing of 200° degrees and 2 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

From NT parkway NW about 100m. Stop vehicle Northbound first past "Nature Area ½ mile" sign, plot is up next draw on NW side of NT.

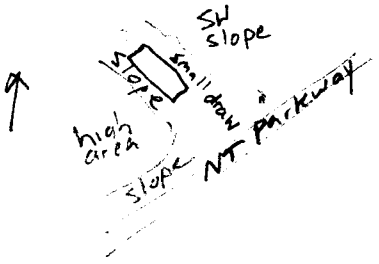
325 m from point 90 (stratification point) which was not used ~~plot~~ point 90 is 340° from here.

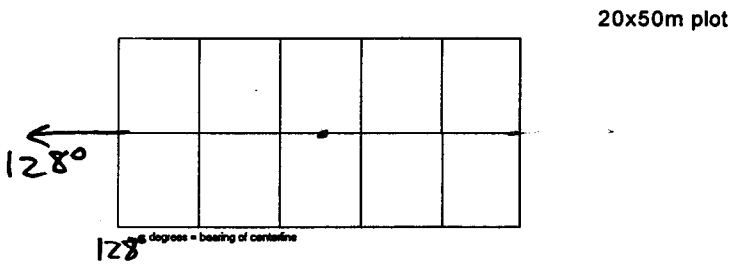
Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)





Est. Extent of occurrence of community:
< 1HA 1-10 HA 10-100HA > 100HA

PIC # 23-26 Description of pictures (N,E,S & W from GPS point at middle of plot) : _____

23 (N), 24 (E), 25 (S), 26 (W)

Select one: UTM OR (Lat/long) (If lat/long, then values are 35.25032 N -87.66061 W
WGS 84

GPS Techniques/Equipment: Garmin III+ Garmin V Datum(pick one) ~~NAD 83 OR NAD27~~ UTM ~~Zone: 15 16~~

GPS Unit ID _____ **GPS file name** NT108 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N **Elevation** 897 m (ft) GPS

Averaging performed (at least 120 observations)? **Coordinate accuracy** 6 (m) ft **DOP** **# sats** 7

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Wayne **Park:** NATR VICK **Plot Code:** NT108 **State:** AL MS (TN) **Location org:** NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 20 ° ___ %

__ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
✓ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 25 ° (N=0 °)

__ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
✓ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

__ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	✓ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : DRY - MESIC : (MESIC))
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

A small stream bottom about 2-5m wide is at the bottom of the slope.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:
__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:
__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

___% Bedrock	90 % Litter, duff	___% Other _____
___% Large rocks (cobbles, boulders >10cm)	5 % Wood (> 1 cm)	
___% Small rocks (gravel, 0.2-10 cm)	___% Water	
___% Sand (0.1-2 mm)	5 % Bare soil	

Leaf type:
✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
_ dogwood anthr	ORV	

Disturbance and animal use comments:

County: Wayne Park: NATR VICK Plot Code: NT108 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	80%	QUER RUB QUER ALB	.5-1m	10%
Understory T3	10-15m	30%	FAGUGRA CARYALB	1-2m	20%
Tall shrub S1	2-5m	40%	STYRAX GRANDIFLORA	2-5m	30%
Short shrub S2	<0.5m	40%	TOXI RAD	5-10m	40%
Herbaceous				10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

***T1:** Emergent | **T2:** Tree Canopy | **T3** Subcanopy | **S1** Tall Shrub (>1m; to 5m) | **S2** Short Shrub (< 1m) | **H** Herbaceous | **N** Nonvascular | **V** Vines (lianas) | **E** Epiphytes*

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
		5		3					5	CARYALB		
		5								FAGUGRA		
				6						TOXIRAD		
					3					ADIAPED		
			3							CERCCAN		
			6							STYRGRA		
					2					ARISSER		
	6	4		3						QUERRUB		
					1					PHLOX SP.		
		3	3						3	PRUNSER		
			2							ILEX DEC		
					1					ARNO ATR (white back)		
					2					DIOS QUA		
					1					LYSIQUA [illegible]		
		3	3						4	NYSSSYL		
					1					TIPU DIS		
				1						EUON AME		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

* neither grad folia = vane TN grad for Virg — TN grad folia reported for MS

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Wayne Park: NATR VICK Plot Code: NJ108 State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					2					POLY ACR		
					1					POLY BIC		
			3							AMEL ARB		
					3					DESM NUD		
					2					PHRY LEP		
				3			3		4	VITI ROT		
		3	3						3	ACER RUB		
					3					THEL HEXA		
			2							CORN FLO		
		3	3						3	SASS ALB		
				4						PART QUI		
							2			VITIS AES		
				3						CORY COR? glandular stem		
	5									CARY GLAB		
					2					VIOLA PALM		
~~6~~										~~GULF TOP~~		
5										QUER PRI		
6										QUER ALB		
					2					UVUL PER	✓	
				2						CAST DEN		
	4	4	3						5	LIRI TUL		
				3						SMIL GLA		
					1					SANG CAN		
					1					AGRIM	✓	
					1					POTE SIM		
					2					MAIA RAC		
				3						SMIL ROT		
					1					GALI CIR		
					2					BRAC ERE		
					1					OXAL		
				3						DIOS VIR		
					1					EUPH COR		
				3						[redacted] Flagellaris		
					1					BOTR VIR		
					1					PASS LUT		

Use bottom of this sheet or additional pages for other species in 1 ha plot

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

NPS GULF COAST PROJECT: Plot *Sampling Form* 8/4/04 **Page # 5**

County: Wayne **Park:** NATR VICK **Plot Code:** NT108 **State:** AL MS (TN) **Location org:** NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
		4	3	2					4	CARY ALB		
				2						HYDR ARB		
					2					COLL CAN		
			1							ACER BAR		
					1					ASCLEP SP		
		3								OXYD ARB		
					2					GALA VOL		
					2					SANICULA SMALLII	Y	
					1					ARIS TRI		
					1					[redacted] Helianthus sp.		
					1					GEUM SP.		
			2							VIBURUF		
		[redacted]								[redacted]		
					2					ATHYFELA		
					1					DICH COMMUTATUM		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team CWN REKL Plot NT109

Annotated by: CWN

Annotation Date (D-M-Y): 8 / 4 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
New NVC association	1	H		New
4108	1	H		New

Other Comments:

Sorghum halapense Herbaceous Vegetation

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Wayne Park: (NATR) VICK Plot Code: NT109 State: AL MS (TN) Location org: NPS

Provisional community name _____

Classified community name Sorghum halapense herbaceous vegetation
Classifyer CWN *Date* 8/4/04 *NVC ELCODE* 4108

Survey date: 8/4/04 **Surveyors initials:** CWN & EKL

Tagged tree is a No Tag tree of ____ cm dbh with tag #_____. Center of ~~20 x 50m~~ 10x40m plot is at a bearing of ____ degrees and ____ m from tree.

Directions to tag tree (including any notes on best access route, and mile marker): vicinity of mile 363 W side NT Parkway.

Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES _✓_ NO - If not, depict below)

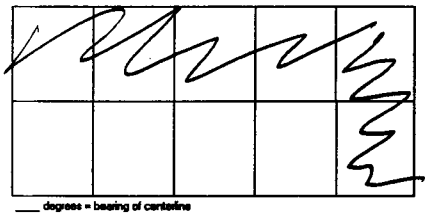
PLOT LOCATION (Below show general plot location)

Narrow stream side forest

Cedar tree → O

Mowed roadside

NT Parkway



~~20x50m plot~~ 10x40m plot

Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 29 **Description of pictures (N,E,S & W from GPS point at middle of plot) :** I

Picture shot from NT parkway toward plot. From point 140° from plot center.

Select one: UTM OR Lat/long (If lat/long, then values are _____ N _____ W

WGS84 LAT/LON DIGITAL DEGREES

GPS Techniques/Equipment: Garmin III+ (Garmin V) **Datum(pick one)** _NAD 83_OR_NAD27__ **UTM Zone:** 15 16

GPS Unit ID _____ **GPS file name** NT109 (standard = First letter of park + # of plot (N04 or V04)

Field ~~UTM~~ LAT X 35.24817 m E **LON** -87.64500 m N **Elevation** 784 m (ft)

Averaging performed (at least 120 observations)? **Coordinate accuracy** **m / ft** **DOP** **# sats**

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Wayne Park: (NATR) VICK Plot Code: NT109 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

✓ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

✓ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

__ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope) ✓ Low level (terrace)
__ Midslope __ Channel bed
__ Lowslope (lower/footslope)

Cowardin System

_ *Upland* ✓ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

✓ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded ✓ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

perhaps temporarily flooded.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

old field

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
⊥ Sandy loam ✓ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
__ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
80 % Litter, duff
____% Wood (> 1 cm)
____% Water
20 % Bare soil
____% Other _____

Leaf type:

__ Broad-leaved
__ Needle-leaved
__ Microphyllous
✓ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
__ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
✓ Herb - Perennial

Physiognomic Class

__ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
✓ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging _ fire _ Hydrologic
_ erosion _ trails/roads ✓ Agriculture
_ grazing/browsing _ wind/ice damage _ Old Growth
_ pine bark beetle _ exotic plants _ Fire Suppression
_ dogwood anthr ORV

Disturbance and animal use comments:

County: Wayne Park: (NATR) KICK Plot Code: 109 State: AL MS (TN) Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous	1-2m	90%	SORGUM HALAPENSE	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
					8					SORGHAL		
					5					PHLEPRA		
					2					EUPHMAC		
					3					SOLACAR		
					2					TRIFOLIUM PRATENSE		
					4					RUMEX SP.		
					5					ANDROPOGON SP.		
					2					DIODIA VIRGINICA		
					2					CYPERUS SP.		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:____________ **Park:** **NATR** **VICK** **Plot Code:**_______ **State:** **AL** **MS** **TN** **Location org:** **NPS**

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent

T2: Tree Can

T3 Subcanopy

S1 Tall Shrub (>1m; to 5m)

S2 Short Shrub (< 1m)

H Herbaceous

N Nonvascular

V Vines (lianas)

E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team CWN & EKL, Plot NT110

Annotated by: CWN

Annotation Date (D-M-Y): 9/22/04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
✓ 1709	2	M		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Wayne Park: (NATR) YICK Plot Code: 110 State: AL MS (TN) Location org: NPS

Provisional community name _____

Classified community name Quercus alba - Carya (alba, ovata) - Liriodendron tulipifera - (Quercus phellos) / Cornus florida Forest

Classifyer CWN *Date* 9/22/04 *NVC ELCODE* 7704

Survey date: 8/4/2004 **Surveyors initials:** CWN & EKL

Tagged tree is a Sweetgum of 47 cm dbh with tag # 357. Center of 20 x 50m plot is at a bearing of 168° degrees and 7 m from tree.

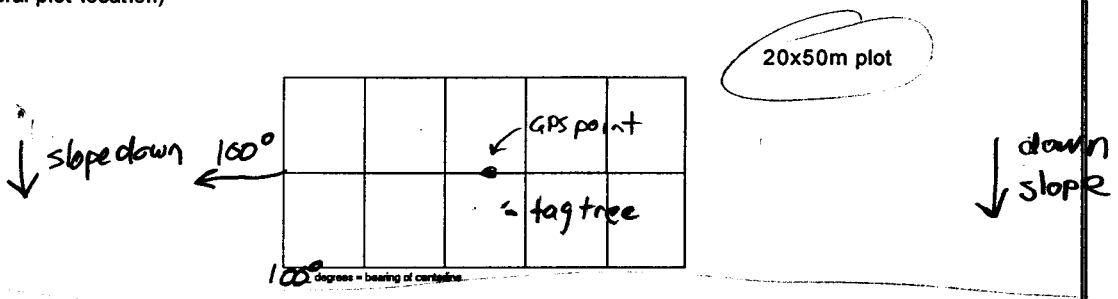
Directions to tag tree (including any notes on best access route, and mile marker): Near mile 363 (approx)
Large sweetgum ~~on~~ about 8-10 m into forest from edge of NT parkway cleared roadside.

Time taken to walk to plot: 2 min

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES _✓_NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

mowed roadside

NT Parkway

PIC # 30-33 Description of pictures (N,E,S & W from GPS point at middle of plot) : _____

30(N), 31(E), 32(S), 33(W)

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 35.24768 N -87.64552 W

WGS 84

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD 83 OR NAD27~~ UTM Zone: ~~15 16~~

GPS Unit ID _____ GPS file name NT110 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 932 m (ft) (GPS)

Averaging performed (at least 120 observations)? Coordinate accuracy 8 m / ft DOP # sats 4

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Wayne Park: (NATR) VICK Plot Code: NT110 State: AL MS (TN) Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 28 ° ____ %

__ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
✓ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 25 ° (N=0 °)

__ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
✓ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

__ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
✓ Lowslope (lower/footslope) __ Channel bed

Cowardin System

✓ *Upland* __ *Palustrine*
__ *Estuarine* __ *Lacustrine* __ *Riverine*

Landform (check most applicable)

__ Alluvial flat
__ Alluvial terrace
__ Bald
__ Bank
__ Bar
__ Bench
__ Bottomlands
__ Cliff
__ Cove
__ Depression
__ Draw
__ Exogenous dome
__ Floodplain
__ Gap
__ Gorge
__ Hillslope bedrock outcrop
__ Midslope
__ Nose slope
__ Ridge
__ Ridgetop bedrock outcrop
__ Saddle
__ Seep
__ Toe slope
✓ Slope
__ Streambed
__ Streamhead
__ Periglacial boulderfield
__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

✓ Not a wetland (Upland: XERIC : DRY - MESIC (MESIC))
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Just off NT parkway, edge of plot is near edge of forest and roadside

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam ✓ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
3 % Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
90 % Litter, duff
3 % Wood (> 1 cm)
____% Water
4 % Bare soil
____% Other _____

Leaf type:

✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

__ logging __ fire __ Hydrologic
__ erosion __ trails/roads __ Agriculture
__ grazing/browsing __ wind/ice damage __ Old Growth
__ pine bark beetle __ exotic plants __ Fire Suppression
__ dogwood anthr __ ORV

Disturbance and animal use comments:

NPS GULF COAST PROJECT: Plot *Sampling Form* 8/4/04

County: Wayne Park: (NATR) VICK Plot Code: NT110 State: AL MS (TN) Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-25m	70%	LIQUSTY CARYCOR	.5-1m	10%
Understory T3	15-20m	40%	CORNFLO DIOSVIR PRUNSER	1-2m	20%
Tall shrub S1	2-5m	20%	FAGUGRA	2-5m	30%
Short shrub S2	.5-1m	30%	TOXIRAD HYDRARB	5-10m	40%
Herbaceous	<0.5m	30%	POLYACR	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Carya cordiformis codominant				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	6									LIQU STY		
	5									LIRI TUL		
		5								CORN FLO		
			5	2						FAGU GRA		
				2						ULMU AME		
		5								DIOS VIR		
					6					POLY ACR		
		2		2					2	SASS ALB		
				4			4		4	PART QUI		
			3							ACER BAR		
			[redacted]							HAMA VIR		
				2						FRAX AME		
				5						TOXI RAD		
	4	4							5	CARY GLAB		
	5		2						5	ACER RUB		
				2						CORY [illegible] GLAND		
	4			2					4	JUNI VIR		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Wayne **Park:** NATR VICK **Plot Code:** 110 **State:** AL MS TN **Location org:** NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
			3	3					3	AMEL ARB		
		4		3					4	NYSS SYL		
				2						QUER ALB		
							4			VITI ROT		
				1						LONI JAP		
				3						SMIL ROT		
				5						HYDRARB		
					2					ASPL PLA		
			2	2					2	QUERRUB		
	6			2						CARYCOR		
				2						SMILGLA		
	5	5	3						5	PRUNSER		
				3						ILEXDEC		
				2						EVONAME		
		3								ULMUALA		
				1						RHAMCAR		
				2						CELTOCC		
		3								OXYDARB		
			2							VACCSTA		
	5									CARYOVATA		
					2					POLYBIF		
			2							MORURUB		

Use bottom of this sheet or additional pages for other species in 1 ha plot

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team EKL 8CWN, Plot NT 111.

Annotated by: CWN

Annotation Date (D-M-Y): 8 / 4 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
8474	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Wayne Park: (NATR) VICK Plot Code: NT111 State: AL MS (TN) Location org: NPS

Provisional community name ALNUS SER SHRUBLAND 8474

Classified community name Alnus serulata shrubland
Classifyer CWN *Date* 8/4/04 *NVC ELCODE* 8474

Survey date: 8/4/4 **Surveyors initials:** CWN EKL

Tagged tree is a No tag tree of ____ cm dbh with tag #_____. Center of 20 x ~~50~~ 20 m plot is at a bearing of ____ degrees and ____ m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

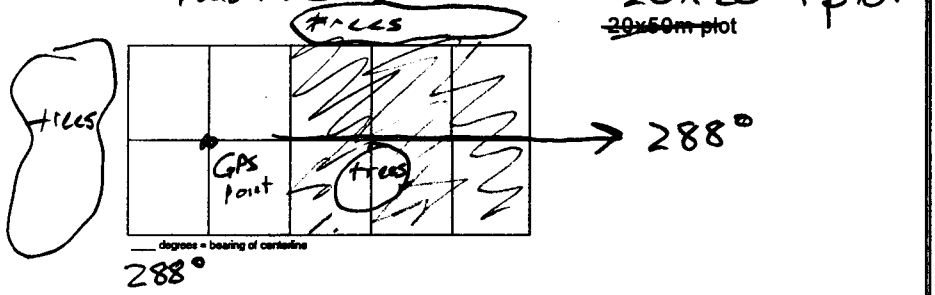
West side of NT Parkway, just south of new bridge
At about mile 363.7.

Time taken to walk to plot: 2 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓ NO - If not, depict below)

PLOT LOCATION (Below show general plot location) NT PARKWAY roadside



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 34-37 Description of pictures (N,E,S & W from GPS point at middle of plot) :

34(N), 35(E), 36(S), 37(W)

Select one: UTM OR (Lat/long) (If lat/long, then values are 35.24775 N -87.64123 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) Was 84 ~~NAD 83 OR NAD27~~ ~~UTM Zone: 15 16~~

GPS Unit ID _____ **GPS file name** NT111 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N **Elevation** 851 m (ft) (GPS)

Averaging performed (at least 120 observations)? Coordinate accuracy 13 (m) ft DOP # sats 5

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Wayne Park: (NATR) VICK Plot Code: NT III State: AL MS (TN) Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

✓ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

✓ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope ✓ Low level (terrace)
__ Lowslope (lower/footslope) _ Channel bed

Cowardin System

_ *Upland* ✓ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	✓ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded ✓ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

probably flooded when creek is high.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:

__ Sand __ Peat __ Silt loam ✓ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
__ Well drained __ Poorly drained ✓ *Very poorly drained*

Ground cover

____% Bedrock	____% Litter, duff	____% Other _____
____% Large rocks (cobbles, boulders >10cm)	____% Wood (> 1 cm)	
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	60 % Bare soil	

Leaf type:

✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

__ Forest (closed tree canopy)
__ Woodland (open tree canopy)
✓ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
_ dogwood anthr	ORV	

Disturbance and animal use comments:

NPS GULF COAST PROJECT: Plot *Sampling Form* 8/4/04

County: Wayne **Park:** NATR VICK **Plot Code:** MTIII **State:** AL MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1	2-5m	80%	ALNUSER	2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous	.5-1m	60%	IMPACAP LEERLEN	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

***T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1** Tall Shrub (> 1m; to 5m) | **S2** Short Shrub (< 1m) | **H** Herbaceous | **N** Nonvascular | **V** Vines (lianas) | **E** Epiphytes*

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
		4	9						9	ALNUSER		
					8					IMPACAP		
					6					LEERLEN		
			3							PLAT OCC		
					3					BOEHCYL		
				3			2		3	DECUBAR		
				4						ITEA VIR		
					3					POLYGONUM SP.		
			4							CORN AMO		
							3			POLYGONUM SAGITTATUM		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:____________ **Park:** NATR VICK **Plot Code:**_______ **State:** AL MS TN **Location org:** NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent

T2: Tree Can

T3 Subcanopy

S1 Tall Shrub (>1m; to 5m)

S2 Short Shrub (< 1m)

H Herbaceous

N Nonvascular

V Vines (lianas)

E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team EKL & CWN, Plot NT 112.

Annotated by: CWN

Annotation Date (D-M-Y): 8 / 4 / 04

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7124	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Wayne Park: NATR VICK Plot Code: NT112 State: AL MS TN Location org: NPS

Provisional community name _____

Classified community name Juniperus Virginiana var. Virginiana - (Quercus spp.) Forest
Classifyer CWN *Date* 8/4/04 *NVC ELCODE* 7124

Survey date: 8/4/04 **Surveyors initials:** CWN EKL

Tagged tree is a Carpinus caroliniana 14.5 cm dbh with tag # 358. Center of 20 x 50m plot is at a bearing of 15° degrees and 2.5 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

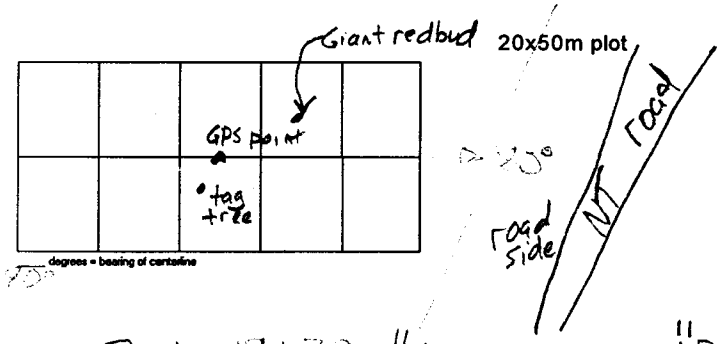
BETWEEN MILE 364+365; N 1/10 MILE So. of LOWER GLEN ROCK PICNIC AREA, ON W SIDE of PKWY

Time taken to walk to plot: 5 min

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC# 40-43

Description of pictures (N,E,S & W from GPS point at middle of plot) : 40(N), 41(E), 42(S), 43(W)

PIC# 38+39 = "WORLD CHAMPION" REDBUD DBH BELOW 3 STEMS =

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 35.25370 N -87.63326 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) **Datum(pick one)** ~~NAD 83 OR NAD27~~ WGS 84 **UTM Zone:** 15 16

GPS Unit ID _____ **GPS file name** _____ (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N **Elevation** 787 m (ft) GPS

Averaging performed (at least 120 observations)? **Coordinate accuracy** 6 (m) / ft **DOP** **# sats** 3 (3D)

County: Wayne Park: (NATR) VICK Plot Code: NT112 State: AL MS (TN) Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %			**Measured Aspect** ____ ° (N=0 °)			**Topographic Postion**
__ Flat	0 °	0 %	__ Flat	__ SE	113-157 °	✓ Interfluve (Ridge/summit/crest) __ Toeslope
✓ Gentle VARIABLE	0-5 °	1-9%	✓ Variable	__ S	158-202 °	__ High Slope (upper/convex slope)
__ Moderate	6-14 °	10-25%	__ N 338-22 °	__ SW	203-247 °	__ Midslope __ Low level (terrace)
__ Somewhat steep	15-25 °	26-49%	__ NE 23-67 °	__ W	248-292 °	__ Lowslope (lower/footslope) __ Channel bed
__ Steep	27-45 °	50-100%	__ E 68-112 °	__ NW	293-337	
__ Very steep	45-69 °	101-275%				*Cowardin System*
__ Abrupt	70-100 °	276-300				✓ *Upland* _ *Palustrine*
__ ovrhng/shltrd	>100 °	>300%				_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)		
__ Alluvial flat	__ Cove	✓ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)
✓ Not a wetland (Upland: XERIC (DRY - MESIC) MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Old field

Soil Texture:				**Drainage:**		
__ Sand	__ Peat	__ Silt loam	__ Muck	__ Rapidly drained	__ Moderately well drained	__ Somewhat poorly drained
__ Sandy loam	✓ Loam	__ Clay loam	__ Clay	✓ Well drained	__ Poorly drained	__ *Very poorly drained*

Ground cover

____% Bedrock	95% Litter, duff	____% Other _____
____% Large rocks (cobbles, boulders >10cm)	____% Wood (> 1 cm)	
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	5% Bare soil	

Leaf type:	**Leaf phenology** (dominant stratum)	**Physiognomic Class**
__ Broad-leaved	✓ Evergreen	✓ Forest (closed tree canopy)
✓ Needle-leaved	__ Cold-deciduous	__ Woodland (open tree canopy)
__ Microphyllous	__ Drought-deciduous	__ Shrubland
__ Graminoid	__ Mixed evergreen-cold-deciduous	__ Dwarf Shrubland
__ Broad-leaved herbaceous	__ Mixed evergreen drought deciduous	__ Herbaceous (less than 25% woody layers)
__ Pteridophyte	__ Herb - Annual	__ Nonvascular
__ Extremely xeromorphic	__ Herb - Perennial	__ Sparse Vegetation
__ Mixed		

Natural and Anthropogenic Disturbance			*Disturbance and animal use comments:*
_ logging	_ fire	_ Hydrologic	Old Field cedar woods
_ erosion	_ trails/roads	✓ Agriculture	
_ grazing/browsing	_ wind/ice damage	_ Old Growth	
_ pine bark beetle	_ exotic plants	_ Fire Suppression	
_ dogwood anthr	_ ORV		

County: Wayne Park: (NATR) VICK Plot Code: NTIIZ State: AL MS (TN) Location org: NPS 8/4/04 CWN/EKL

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	10-15	90%	JUNIVIR	.5-1m	10%
Understory T3	5-10	40%	JUNI VIR / ACER SACCHARUM	1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2	.5-1	40%	TOXI RAD	5-10m	40%
Herbaceous	2.5	20%	MICR VIM / ASPL PLA	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	4				1				4	CERC CAN		
	8	7							9	JUNI VIR		
	5	5	5						6	ACER SACCHARUM		
					4					ASPL PLAT		
					1					SENNA HEB		
				6			4		6	TOXIRAD		
				3						SYMPORB		
					2					SANICULA CAN		
					5					MICR VIM		
	4	4		2					4	QUER MUH		
					1					ANEM VIR		
				3					3	FRAXAME		
					3					BROMUS SP.		
		4	4	1					4	FAGUGRA		
					2					PHRYLEP		
		4			1				4	CARPCAR		
				2						EUONAME		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Wayne **Park:** (NATR) VICK **Plot Code:** NT112 **State:** AL MS (TN) **Location org:** NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					3					AGRIMONIA	✓	
				3						SMILROT		
				2						SMILHIS		
					1					OSTRVIR		
				2						SMILBON		
				2						FRAN CAR		
				3						ILEXDEC		
				2						PRUN SER		
		3		2					3	CORN FLO		
				2						PART QUI		
				2						LONI JAP		
				2						DIOS VIR		
					2					MAIA RAC		
					2					POTE SIM CAN		
					1					HIER GRA		
					1					POLYG VIR		
					1					DESM SP		
				½						LIQU STY		
				1						VACC STAM		
					1					CELT OCC		
				1						VITI CIN		
					1					CHAS SES		
					2					LIRI TUL		
					1					SYMPHYOTRICHUM		
					1					HELIANTHUS ATR		
					2					POLY ACR		
				1						ROSA MULT		
					2					LESP CUN		
					1					RUDB HIRT		
					1					PACK ANON		
					1					SORG HAL		
					1					WOODS OBT		
					1					OXAL		
					1					DICH LAX		
	4									JUGL NIG		

Use bottom of this sheet or additional pages for other species in 1 ha plot

GALI TRI

Community Survey
Page 4

GEUM ✓

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

NPS GULF COAST PROJECT: Plot *Sampling Form* 38717 **Page 1**

County: Wayne Park: (NATR) VICK Plot Code: NT113 State: AL MS (TN) Location org: NPS

Provisional community name 7201? Fagu gra OR A239 ALLIANCE

Classified community name Fagus grandifolia - Quercus alba / Cornus florida Forest
Classifyer CWN *Date* 8/12/04 *NVC ELCODE* 1881

Survey date: 8/4/04 **Surveyors initials:** CWN / EKL

Tagged tree is a LIQU STY of 35 cm dbh with tag # 359. Center of 20 x 50m plot is at a bearing of 185 degrees and 2.5 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):
BETWEEN MILE 364, 365. FROM NE END LOWER GLENROCK PICNIC AREA, WALK NE (±50 M, DEPENDING ON WHERE YOU START)

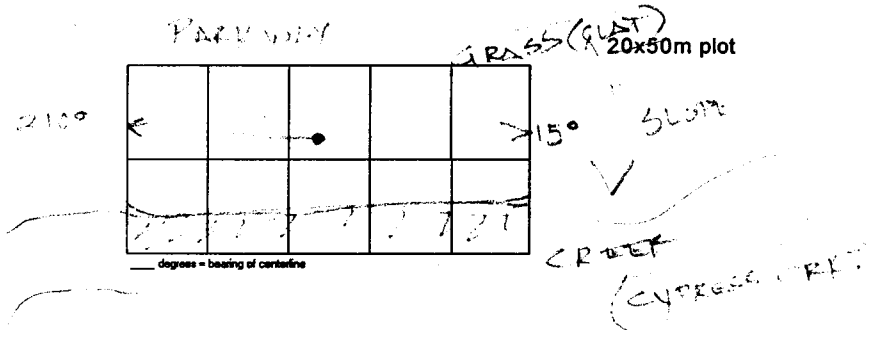
Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)

15x50m.



Est. Extent of occurrence of community:
< 1HA 1-10 HA 10-100HA > 100HA

PIC # 44-47 **Description of pictures (N,E,S & W from GPS point at middle of plot) :** N, E, S, W FROM CTR

Select one: UTM OR (Lat/long) (If lat/long, then values are 35.25544 N -87.63142 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) WGS84 NAD 83 OR NAD27 UTM Zone: 15 16

GPS Unit ID _____ **GPS file name** NT113 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N **Elevation** 753 m / ft

Averaging performed (at least 120 observations)? 365 **Coordinate accuracy** 9 (m) / ft **DOP** _____ **# sats** 4

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Wayne **Park:** (NATR) VICK **Plot Code:** NT113 **State:** AL MS (TN) **Location org:** NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 20 ° ___ %

__ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
✓ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 115 ° (N=0 °)

__ Flat	✓ SE	113-157 °
__ Variable	__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

__ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
✓ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

✓ *Upland* __ *Palustrine*
__ *Estuarine* __ *Lacustrine* __ *Riverine*

Landform (check most applicable)

__ Alluvial flat
__ Alluvial terrace
__ Bald
__ Bank
__ Bar
__ Bench
__ Bottomlands
__ Cliff
__ Cove
__ Depression
__ Draw
__ Exogenous dome
__ Floodplain
__ Gap
__ Gorge
__ Hillslope bedrock outcrop
__ Midslope
__ Nose slope
__ Ridge
__ Ridgetop bedrock outcrop
__ Saddle
__ Seep
__ Toe slope
✓ Slope
__ Streambed
__ Streamhead
__ Periglacial boulderfield
__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded __ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam ✓ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
2 % Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
90 % Litter, duff
5 % Wood (> 1 cm)
____% Water
3 % Bare soil
____% Other _____

Leaf type:

✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

__ logging __ fire ✓ Hydrologic
__ erosion __ trails/roads __ Agriculture
__ grazing/browsing __ wind/ice damage __ Old Growth
__ pine bark beetle __ exotic plants __ Fire Suppression
__ dogwood anthr __ ORV

Disturbance and animal use comments:

BITS OF HUMAN DISTURBANCE (TRASH) NEAR PKWY)

NPS GULF COAST PROJECT: Plot *Sampling Form* 8/4/04 **Page** 3

County: Wayne **Park:** (NATR) VICK **Plot Code:** NT113 **State:** AL MS (TN) **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	QUERALB LIRITUL FAGUGRA ACER BAR LIQUSTY	.5-1m	10%
Understory T3	15-20m	60%	ACERBAR	1-2m	20%
Tall shrub S1	2-5m	30%	ACERBAR FAGUGRA	2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous	<.5m	10%	POLYACR	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Q. muhl & Q. pagoda present!				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	6	6	5						6	ACER BAR		
	6	5	5						6	FAGU GRA		
				2						EUON AME		
					1					EPIC VIR		
					3					POLY ACR		
				1						LONI SEM		
			2							NYSS SYL		
					2					DIOS QUA		
				2						ULMU AME		
				3						HYDR ARB		
				2			2		2	VITI CIN		
				2			2		2	SMIL GLA		
				2						ILEX DEC		
							3			DECU BAR		
		4		2					4	OSTR VIR		
		4		3					4	JUNI VIR		
				3			2		3	PART QUI		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Wayne **Park:** (NATR) VICK **Plot Code:** NT113 **State:** AL MS (TN) **Location org:** NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
	7									QUER ALB		
	6	5							6	LIQU STY		
	4	5							5	CARY GLAB		
	6	5							6	LIRY TUL		
					1					HEPA AMER		
					2					CHIM MAC		
					2					SANG CAN		
					2					DESM NUD		
		3	2						3	CARY CAR		
		4								QUER MUH		
				1						RHOD SP. (AZALEA)		
	4									PLAT OCC		
				2						QUER RUB		
				2						SMIL ROT		
	4									QUER PAG		
					1					VIOL		
					2					PHRY LEP		
					1					BOTR VIR		
					1					AGRIM		
					1					PREN SP		
					1					MAIA RAC		
				2						PRUN SER		
					1					TIPU [redacted]		
				1						[redacted]TYRGRA		
		4		2						CARYCOR		
			2							MORU RUB		
				2						LINDBEN		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team CWN &EFL, Plot NT114.

Annotated by: CWN

Annotation Date (D-M-Y): 8 / 12 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7795	1	14		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Wayne Park: NATR VICK Plot Code: NT114 State: AL MS TN Location org: NPS

Provisional community name

Classified community name Quercus alba - Carya alba - (Quercus velutina) / Dasmadium nudiflorum (Carex picta) Forest
Classifyer CWN *Date* 8/12/04 NVC ELCODE 7795

Survey date: 8/4/2004 **Surveyors initials:** CWN & EKL

Tagged tree is a Sourwood of 31.5 cm dbh with tag # 360. Center of 20 x 50m plot is at a bearing of 105 degrees and 4.5 m from tree.

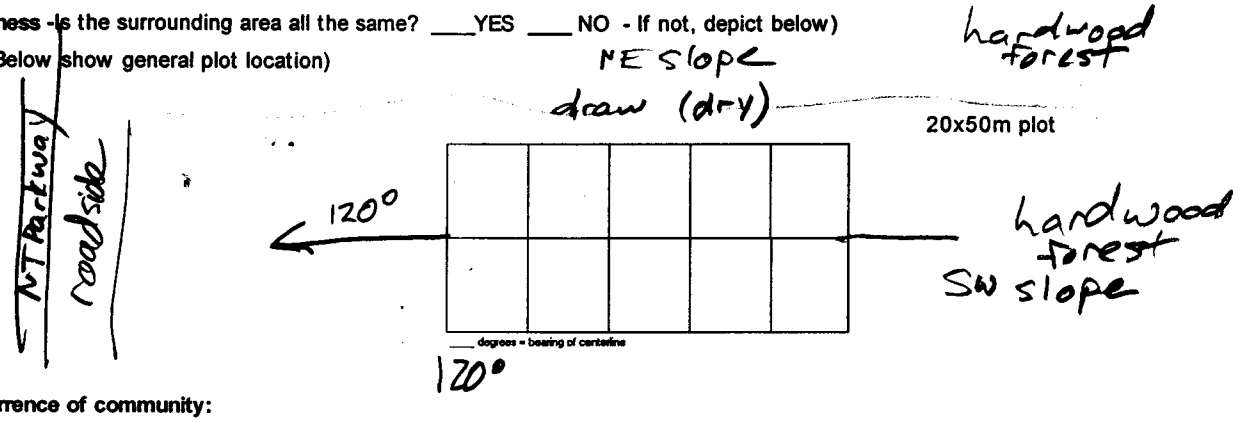
Directions to tag tree (including any notes on best access route, and mile marker): Mile 365-366 Area
Just N. of Lower Glenrock site.
W side of NT Parkway.

Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 48-51 **Description of pictures (N,E,S & W from GPS point at middle of plot) :** N, E, S, W

Select one: ~~UTM~~ OR Lat/long (If lat/long, then values are 35.26748 N -87.62473 W

GPS Techniques/Equipment: Garmin III+ Garmin V **Datum(pick one)** ~~NAD 83 OR NAD27~~ WGS 84 **UTM Zone:** ~~15 16~~

GPS Unit ID _____ **GPS file name** NT114 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E **Y** _____ m N **Elevation** 876 m (ft) (GPS)

Averaging performed (at least 120 observations)? **Coordinate accuracy** 8 (m) ft **DOP** **# sats** 5 3D

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Wayne **Park:** (NATR) VICK **Plot Code:** NT114 **State:** AL MS (TN) **Location org:** NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 16 ° ____ %

__ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
✓ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 212 ° (N=0 °)

__ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	✓ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

__ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
✓ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

✓ *Upland* __ *Palustrine*
__ *Estuarine* __ *Lacustrine* __ *Riverine*

Landform (check most applicable)

__ Alluvial flat
__ Alluvial terrace
__ Bald
__ Bank
__ Bar
__ Bench
__ Bottomlands
__ Cliff
__ Cove
__ Depression
__ Draw
__ Exogenous dome
__ Floodplain
__ Gap
__ Gorge
__ Hillslope bedrock outcrop
__ Midslope
__ Nose slope
__ Ridge
__ Ridgetop bedrock outcrop
__ Saddle
__ Seep
__ Toe slope
✓ Slope
__ Streambed
__ Streamhead
__ Periglacial boulderfield
__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : (DRY) - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam ✓ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
90 % Litter, duff
5 % Wood (> 1 cm)
____% Water
5 % Bare soil
____% Other _____

Leaf type:

✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

__ logging __ fire __ Hydrologic
__ erosion __ trails/roads __ Agriculture
__ grazing/browsing ✓ wind/ice damage __ Old Growth
__ pine bark beetle __ exotic plants __ Fire Suppression
__ dogwood anthr __ ORV

Disturbance and animal use comments:

Cumberland Gaps

NPS GULF COAST PROJECT: Plot *Sampling Form* 8/4/04

County: Wayne **Park:** (NATB) VICK **Plot Code:** NT114 **State:** AL MS (TN) **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	80%	QUERALB QUERVEL QUERRUB	.5-1m	10%
Understory T3	15-20m	40%	OXYDARB CARYALB CARYGLA	1-2m	20%
Tall shrub S1	2-5m	60%	STYRGRA	2-5m	30%
Short shrub S2	.5-1m	30%	TOXIRAD	5-10m	40%
Herbaceous	< .5m	10%	DESMNUD CAREX SP.	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	6									QUERALB		
	6									QUERVEL		
			6							STYRGRA		
					3					DESMNUD		
					2					CHIMMAC		
		3	3						4	SASSALB		
		3	3						4	CORNFLO		
		5								OXYDARB		
	5									QUERSTE		
	5									QUERPRI		
				6						TOXIRAD		
		3	3						3	ULMVALA		
				3						EUONAME		
			4							AMELARB		
	4									QUERCOC		
	6									QUERRUB		
	5	4	4						5	CARYALB		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Wayne Park: NATR VICK Plot Code: NT114 State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
	5	4							5	CARYGLA		
			2							FAGUGRA		
					1					ARISSER		
					1					HEDYPUR		
					1					ERICHIE		
					3					CAREX SP.		
		3	3						4	NYSSYL		
				3						ILEX DEC		
			2							ACER SACCHARUM		
				3			2			SMILGLA		
					1					TIPUDIS		
							2			~~PIPUDIS~~ VITIROT		
				3			2			SMILROT		
					1					BRACERE		
					2					ELEPTOM		
					1					OXALSTR		
					2					DIOSQUA		
					2					~~UVULSES~~ POLYBIF		
					1					CHAMLUT		
					1					DICHDIC		
					1					COREMAJ		
					1					DICHCOM		
				1						VACCSTA		
				1						VACCPAL		
					1					PASSLUT		
				1						CRATAEGUS SP.		
					1					HELIMIC Helianthus microcephalus		
				3						LIRTUL		
					2					DESMROT		
					1					CUNIORI		
					1					UVULPER		
					2					POLYACR		
					1					IRISCRI ? (moniliform)		
							2			VITICIN		
				2						CORYAME		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

1 EUPHCOR

1 VITIAES

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team CWN &EKL, Plot NT115.

Annotated by: CWN

Annotation Date (D-M-Y): 8 / 4 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
7700	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Wayne Park: (NATR) VICK Plot Code: NT115 State: AL MS (TN) Location org: NPS

Provisional community name Quercus prinus Forest

Classified community name Quercus Prinus - Quercus spp. / Vaccinium arboreum - (Kalmia latifolia, Styrax grandifolius) Forest
Classifyer CWN *Date* 8/12/2004 *NVC ELCODE* 7700

Survey date: 8/4/04 **Surveyors initials:** CWN & EKL

Tagged tree is a Pignut hickory of 8 cm dbh with tag # 361. Center of ~~20~~ 10 x 50m plot is at a bearing of 80° degrees and ___ m from tree.

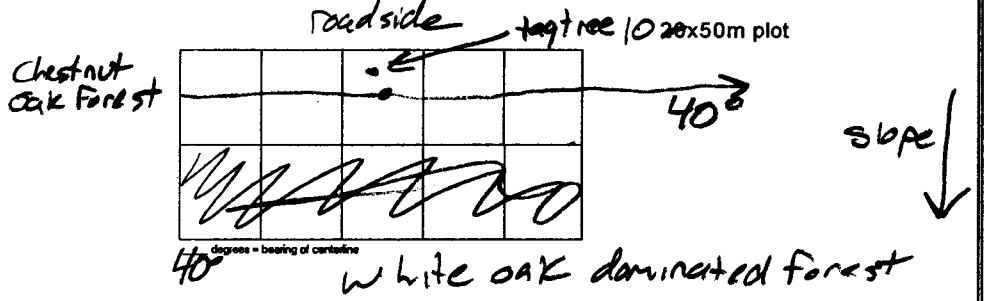
Directions to tag tree (including any notes on best access route, and mile marker): Mile 366.5
Tag tree is just 5 meters from edge of forest/roadside.
ON SE side of NT parkway
BETWEEN MILES 36 + 3

Time taken to walk to plot: 2 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓ NO - If not, depict below)

PLOT LOCATION (Below show general plot location) NT Parkway



Est. Extent of occurrence of community:
< 1HA 1-10 HA 10-100HA > 100HA

PIC # 52, 53 Description of pictures (N,E,S & W from GPS point at middle of plot) : 52 (40° from center), 53 (220° from center)

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 35.27851 N -87.61497 W WGS 84

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD 83~~ OR NAD27 UTM Zone: ~~15 16~~

GPS Unit ID ___ GPS file name NT115 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X ___ m E Y ___ m N Elevation 1002 m (ft) ~~1002~~ (GPS)

Averaging performed (at least 120 observations)? Coordinate accuracy 7 m / ft DOP 5 # sats 3D

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Wayne Park: (NATR) VICK Plot Code: NT115 State: AL MS (TN) Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 4 ° ____ %

__ Flat	0 °	0 %
✓ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 135° (N=0 °)

__ Flat		✓ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
✓ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat
__ Alluvial terrace
__ Bald
__ Bank
__ Bar
__ Bench
__ Bottomlands
__ Cliff
__ Cove
__ Depression
__ Draw
__ Exogenous dome
__ Floodplain
__ Gap
__ Gorge
__ Hillslope bedrock outcrop
__ Midslope
__ Nose slope
✓ Ridge
__ Ridgetop bedrock outcrop
__ Saddle
__ Seep
__ Toe slope
__ Slope
__ Streambed
__ Streamhead
__ Periglacial boulderfield
__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

✓ Not a wetland (Upland: XERIC : (DRY) MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam ✓ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
97 % Litter, duff
3 % Wood (> 1 cm)
____% Water
____% Bare soil
____% Other _____

Leaf type:

✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging _ fire _ Hydrologic
_ erosion _ trails/roads _ Agriculture
_ grazing/browsing _ wind/ice damage _ Old Growth
_ pine bark beetle _ exotic plants _ Fire Suppression
_ dogwood anthr _ ORV

Disturbance and animal use comments:

NPS GULF COAST PROJECT: Plot *Sampling Form* 8/4/04 **Page** 3

County: Wayne **Park:** (NATR) VICK **Plot Code:** NT115 **State:** AL MS (TN) **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20m	70%	QUERPRI QUERALB	.5-1m	10%
Understory T3	10-15m	40%	QUERPRI QUERALB	1-2m	20%
Tall shrub S1	2-5m	20%	CARYGLA	2-5m	30%
Short shrub S2	.5-1m	30%	SMILROT	5-10m	40%
Herbaceous				10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	7	5							7	QUERPRI		
	6	5							6	QUERALB		
				4						VACCPAL		
					2					CHIMMAC		
					1					DICHBOS		
				6						SMILROT		
		5	5						5	CARYGLA		
					2					ARISSER		
		4	4						5	NYSSYL		
			4							VACCARB		
				2						SMILGLA		
				2						QUERRUB		
			3	3					4	DIOSVIR		
				2						PRUNSER		
					2					DESMNUD		
					2					COREMAT		
				2						AMELARB		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Wayne **Park:** (NATR) VICK **Plot Code:** NT115 **State:** AL MS (TN) **Location org:** NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
				2						VACCSTA		
				2						RUBUS SP.		
			2	1					2	JUNIVIR		
			2	2					3	QUERVEL		
					1					IPOMPAN		
			3	2					3	STYRGRA		
					2					PORTSTI		
				3			3		3	TOXIRAD		
					1					ANTENARIA SP.		
					1					POLYBIF		
					1					DICHDIC		
				1						LIRITUL		
				1						RHUS COP		
					1					EUPHCOR		
				2						VITIROT		
				2						HYPESTR		
					2					SORGNUT		
				2						SMILBON		
				1						CAMPRAD		
				1						MIMOSA ANGUSTATA		
					1					HELIMIC		
				2						VITIAES		
					1					SOLIODO		

Use bottom of this sheet or additional pages for other species in 1 ha plot

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team CWN & EKL, Plot NT116.

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 22 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
~~4756~~	2	M		Plot includes Q. stellata Eco 44 (Lewis Co., TN)
~~7246~~				site is an open woodland, 7246 surrounds plot to north & south
~~3952~~				V. East Gulf C.P. ?
~~4053~~				Forest with canopy dominated by Pinus echinata & Q. stellata
4686	2	H		Plot lacks Viburnum rufidulum otherwise fits, is at edge of Ecoregion 44

Other Comments:

~~Needs work~~

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Wayne Park: (NATR) VICK Plot Code: NT116 State: AL MS (TN) Location org: NPS

Provisional community name Quercus stellata - Quercus Marilandica Woodland

Classified community name Quercus stellata/Viburnum rufidulum/Schizachyrium scoparium-(Sorghastrum nutans, Helianthus eggertii) Woodland
Classifyer CWN *Date* 9/22/2004 *NVC ELCODE* 4686

Survey date: 8/4/04 **Surveyors initials:** CWN + EKL

Tagged tree is a QUER STE of 47 cm dbh with tag # 362. Center of 20 x 40m plot is at a bearing of 145 degrees and 7 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker): Mile 366.5

Large Post oak with most branches on south side.

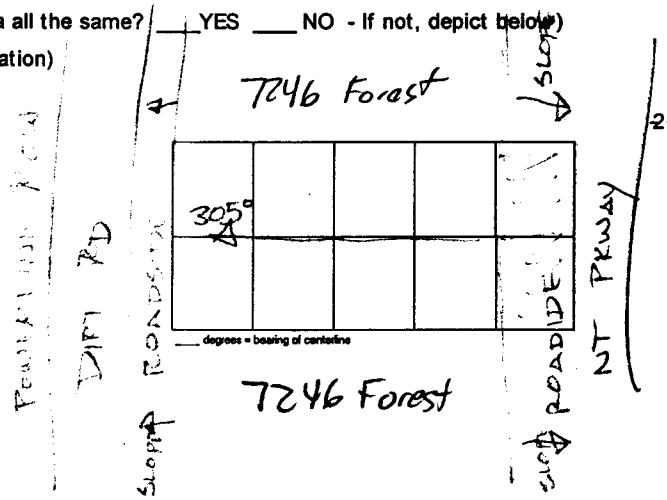
Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? YES ___ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)

20 x 40



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 54-57 Description of pictures (N,E,S & W from GPS point at middle of plot) : N, E, S, W

Select one: UTM OR Lat/long (If lat/long, then values are 35.27911 N -87.61514 W

GPS Techniques/Equipment: Garmin III+ Garmin V Datum(pick one) ~~NAD 83 OR NAD27~~ was 84 UTM Zone: 15 16

GPS Unit ID _____ GPS file name NT116 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 1063 m (ft) GPS

Averaging performed (at least 120 observations)? 120 Coordinate accuracy 4 (m) ft DOP # sats 9

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Wayne Park: NATR VICK Plot Code: NT16 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

✓ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

✓ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

✓ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat
__ Alluvial terrace
__ Bald
__ Bank
__ Bar
__ Bench
__ Bottomlands
__ Cliff
__ Cove
__ Depression
__ Draw
__ Exogenous dome
__ Floodplain
__ Gap
__ Gorge
__ Hillslope bedrock outcrop
__ Midslope
__ Nose slope
✓ Ridge
__ Ridgetop bedrock outcrop
__ Saddle
__ Seep
__ Toe slope
__ Slope
__ Streambed
__ Streamhead
__ Periglacial boulderfield
__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC (DRY) MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

Dry ridge

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Needs disturbance — fire and or thinning.

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam ✓ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
80% Litter, duff
5 % Wood (> 1 cm)
____% Water
10 % Bare soil
5 % Other LICHEN

Leaf type:

✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
Mixed

Leaf phenology (dominant stratum)

__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

__ Forest (closed tree canopy)
✓ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging _ fire _ Hydrologic
_ erosion _ trails/roads _ Agriculture
_ grazing/browsing _ wind/ice damage _ Old Growth
_ pine bark beetle _ exotic plants ✓ Fire Suppression
_ dogwood anthr _ ORV

Disturbance and animal use comments:

County: Wayne Park: (NATR) VICK Plot Code: NT116 State: AL MS (TN) Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	10-15m	30%	QUERSTE	.5-1m	10%
Understory T3	5-10m	20%	QUERSTE QUERMAR	1-2m	20%
Tall shrub S1	2-5m	10%		2-5m	30%
Short shrub S2	.5-1m	10%		5-10m	40%
Herbaceous	<.5m	60%	SCHISCO	10-15m	50%
Non-vascular	<.5m	5%	CLADONIA	15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	6	5							6	QUERSTE		
		5	4						5	QUERMAR		
	5									QUERFAL		
					7					SCHISCO		
					4					TEPHVIR		
					3					STYLBIF		
	5	4							54	GLEDTRI		
			2							AMELARB		
		2	2	2					3	DIOSVIR		
					2					COREMAS		
					2					ANDRGYR		
				3						TOXIRAD		
					2					CHIMMAC		
					5					DICHLAX		
					2					IRONPAN		
			3	3					3	NYSSSYL		
						4				CLADINA SUBTENUIS		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ **Park:** NATR **VICK** **Plot Code:** NT 116 **State:** AL MS TN **Location org: NPS**

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
		3	2						3	CARYGLA		
					1					DICHDIC		
				3						SMILROT		
										~~AIRA ELEGANS~~		
					2					DANTSPI		
					1					LIATRIS	✓	
					2					LESPREP		
					1					BOTRBIT		
					1					ASPLPLA		
			2	2					3	PRUNSER		
			3							ILEXDEC		
		3								QUERRUB		
		3								ACERRUB		
					1					RUDBHIR		
			2	2					2	ULMUALA		
					1					PSEUDNAPHTHALIUM		
					1					CHAMNIC		
					1					AMBROSIA?		
					2					PACKANO		
					2					CAREX ~~SP~~ ~~LEO~~ PENN ?		
					1					GALICIR		
				1						HYPEPUN		
		2								JUNIVIR		
					1					CIRSIUM DISCOLOR		
					2					ANTENNARIA (WHITE ON TOP)		
				1						PINUECH		

Cover classes

1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team CWN 8EKL, Plot NI117.

Annotated by: CWN

Annotation Date (D-M-Y): 8 / 5 / 04

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7244	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Wayne Park: NATR VICK Plot Code: NT117 State: AL MS TN Location org: NPS

Provisional community name _____

Classified community name Quercus falcata - Quercus alba - Carya alba / Oxydendrum arboreum / Vaccinium stamineum Forest

Classifyer CWN *Date* 8/12/2004 *NVC ELCODE* 7244

Survey date: 8/5/04 **Surveyors initials:** CWN & EKL

Tagged tree is a Southern Red Oak of 16 cm dbh with tag # 363. Center of 20 x 50m plot is at a bearing of 180° degrees and 3 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

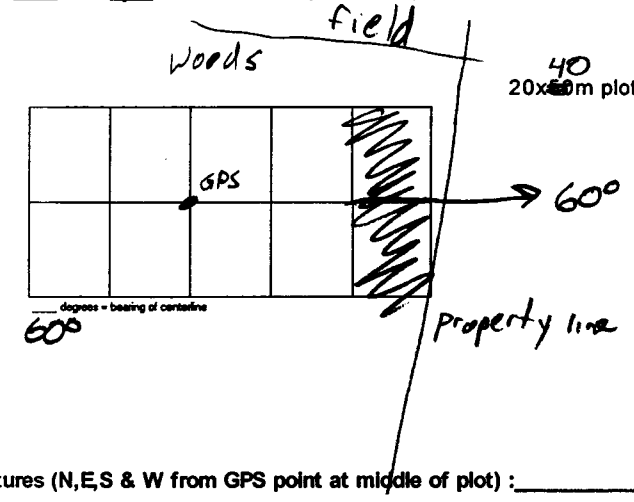
At entrance to Natchez Trace Parkway from US 64. N of place where entrance ramp intersects US 64 in woods about 70 m into woods.

Time taken to walk to plot: 4 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 58-61 Description of pictures (N,E,S & W from GPS point at middle of plot) : _____

58(N), 59(E), 60(S), 61(W)

Select one: ~~UTM~~ OR Lat/long (If lat/long, then values are 35.32355 N -87.58262W WGS 84

GPS Techniques/Equipment: Garmin III+ Garmin V Datum(pick one) ~~NAD 83 OR NAD27~~ ~~UTM Zone: 15 16~~

GPS Unit ID _____ GPS file name NT117 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 1055 m ft (GPS) 3D

Averaging performed (at least 120 observations)? Coordinate accuracy 5 m / ft DOP # sats 7

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Wayne Park: (NATR) VICK Plot Code: NTN17 State: AL MS (TN) Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

__ Flat	0 °	0 %
✓ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 25 ° (N=0 °)

__ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
✓ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion
✓ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System
✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	✓ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)
__ Not a wetland (Upland: XERIC : (DRY - MESIC): MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

Dry upland

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

old road goes just SW of end of transect

Soil Texture:
__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam ✓ Loam __ Clay loam __ Clay

Drainage:
__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____ % Bedrock	95 % Litter, duff	____ % Other _____
____ % Large rocks (cobbles, boulders >10cm)	2 % Wood (> 1 cm)	
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % Sand (0.1-2 mm)	3 % Bare soil	

Leaf type:
✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
_ dogwood anthr	ORV	

Disturbance and animal use comments:
old road (just outside plot)

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Wayne Park: NATRVICK Plot Code: NT117 State: AL MS TN Location org: NPS 8/5/04

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	QUERFAL QUERALB	.5-1m	10%
Understory T3	10-15m	40%	QUERALB CARYGLA	1-2m	20%
Tall shrub S1	2-5m	20%	NYSSSYL	2-5m	30%
Short shrub S2	.5-1m	30%	SMILROT TOXIRAD	5-10m	40%
Herbaceous	<.5m	10%	PTERAQV	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	7	5							7	QUERFAL		
	6	6							6	QUERALB		
	5	5	4						5	NYSSSYL		
	5	6							6	CARYGLA		
					3					PORTSTI		
					4					PTERAQV		
				5						SMILROT		
				4						VACCSTA		
			3	3					3	ACERRUB		
				2						PRUNSER		
				4						VITIROT		
			3	3					3	VACCARB		
					2					SCHISCO		
				2						SMILGLA		
				1	1					RUBUS (Dewberry)		
					2					DANTSPI		
					2					DICHDIC		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Wayne **Park:** NATR VICK **Plot Code:** NT117 **State:** AL MS TN **Location org:** NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
			3							ILEX DEC		
				2						JUNIVIR		
				5						TOXI RAD		
				4						PART QUI		
							2			VIT CIN		
					1					EUPH COR		
				2						HYPE HYP MULTI		
					1					GALI CIR		
			2	2					3	DIOS VIR		
		2	3						3	CORNFLO		
					2					LUSP VIR		
					1					LACTUCA sp		
			2							ARAL SPI		
					2					HELI MC		
		3	2						3	ULMVALA		
	5	5							6	QUERSTE		
				2						FRANCAR		
	4									CARYALB		
				1						LONIJAP		
					1					POTESIM		
				1						QUERRUB		
					1					CORE MAJ		
				1						ROSA	✓	
					1					PHASEOLUS? BEAN PHASEOLUS		
				4						VACCPAL		
					1					SOLIODO		
					1					TIPUDIS		
					1					ARISSER		
					1					DICHLIN		
					1					DESM SP.	✓	
				1						LONI SEM		

Use bottom of this sheet or additional pages for other species in 1 ha plot

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team CWN EKL, Plot NT118.

Annotated by: CWN

Annotation Date (D-M-Y): 8 / 12 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7244	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: LAWRENCE Park: (NATR) VICK Plot Code: NT118 State: AL MS (TN) Location org: NPS

Provisional community name

Classified community name Quercus falcata - Quercus alba - Carya alba / Oxydendrum arboreum / Vaccinium stamineum Forest

Classifyer CWN *Date* 8/12/04 *NVC ELCODE* 7249

Survey date: 8/5/04 **Surveyors initials:** CWN & EKL

Tagged tree is a Carya glabra of 9 cm dbh with tag # 364. Center of 20 x 50m plot is at a bearing of 195 degrees and 3 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

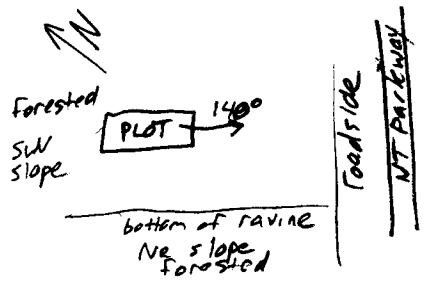
Park AT Mile marker 374, NW side of NT parkway on SW slope.

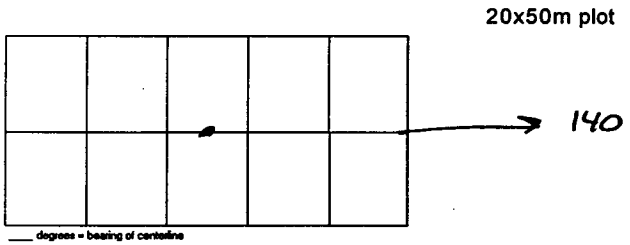
Time taken to walk to plot: 5 min

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)





Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 62-65 **Description of pictures (N,E,S & W from GPS point at middle of plot) :**

62(N), 63(E), 64(S), 65(W)

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 35.36562 N -87.54565 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD 83 OR NAD27~~ WGS 84 UTM ~~Zone: 15 16~~

GPS Unit ID _____ **GPS file name** NT118 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N **Elevation** 1053 m (ft)

Averaging performed (at least 120 observations)? **Coordinate accuracy** 6 m / ft **DOP** **# sats** 6

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: (NATR) VICK Plot Code: NT118 State: AL MS (TN) Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 17 ° ____ %

__ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
✓ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 220 ° (N=0 °)

__ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	✓ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

__ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
✓ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

_ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat
__ Alluvial terrace
__ Bald
__ Bank
__ Bar
__ Bench
__ Bottomlands
__ Cliff
__ Cove
__ Depression
__ Draw
__ Exogenous dome
__ Floodplain
__ Gap
__ Gorge
__ Hillslope bedrock outcrop
__ Midslope
__ Nose slope
__ Ridge
__ Ridgetop bedrock outcrop
__ Saddle
__ Seep
__ Toe slope
✓ Slope
__ Streambed
__ Streamhead
__ Periglacial boulderfield
__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC (DRY) - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

DRY, there is a small draw at bottom of slope, but doesn't carry water.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam ✓ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
98 % Litter, duff
2 % Wood (> 1 cm)
____% Water
____% Bare soil
____% Other _____

Leaf type:

✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging _ fire _ Hydrologic
_ erosion _ trails/roads _ Agriculture
_ grazing/browsing _ wind/ice damage _ Old Growth
_ pine bark beetle _ exotic plants _ Fire Suppression
dogwood anthr ORV

Disturbance and animal use comments:

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Lawrence **Park:** NATR VICK **Plot Code:** NT118 **State:** AL MS (TN) **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20m	70%	QUERFAL QUERALB QUERCOC	.5-1m	10%
Understory T3	10-15m	40%	NYSSSYL	1-2m	20%
Tall shrub S1	2-5m	20%	NYSSSYL	2-5m	30%
Short shrub S2	.5-1m	20%	VACCPAL SMILROT	5-10m	40%
Herbaceous	<.5m	5%		10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	7	5							7	QUERFAL		
	6	5							6	QUERALB		
		5	5						6	CARYPAL		
		5	4						5	OXYDARB		
				3						SMILGLA		
	4	6	6	3					7	NYSSSYL		
	5			1						QUERPRI		
		3								CORN/FLO		
	6									QUERCOC		
				4						VACCPAL		
				4						SMILROT		
			3							VACCARB		
					2					CAREX SP.		
					2					PTERAQV		
				2						HYPESTR		
					1					PRUNSER		
					1					LIRITUL		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ **Park:** (NATR) VICK **Plot Code:** NT 118 **State:** AL MS (TN) **Location org: NPS**

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					1					ARIS STR		
					2					DICH DIC		
					1					PHASEOLUS? DEAN SAME AS COLL IN 117	PHASPOLP	
					1					EUPH COR		
					2					DICH COM		
					1					CORE MAJ		
					1					LYSI QUA		
					2					DIOS QUA		
					1					OSTR VIR		
					1					AURE	✓	
				2						VITI ROT		
					2					CHAM MAC		
					1					IPOM PAN		
			2							QUER STEL		
	4									QUER PUB		
				1						SMILBON		
					1					SOLIODO		

Use bottom of this sheet or additional pages for other species in 1 ha plot

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team CWN & EKL, Plot NT119.

Annotated by: CWN

Annotation Date (D-M-Y): 8/12/09

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
7244	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

(BORDERING LEWIS) County: LAWRENCE Park: (NATR) VICK Plot Code: NT119 State: AL MS (TN) Location org: NPS

Provisional community name _____

Classified community name Quercus fa/cafa-Quercus alba-Carya alba/Oxydendrum arboreum/Vaccinium Stamineum Forest
Classifyer CWN *Date* 8/12/04 *NVC ELCODE* 7244

Survey date: 8/5/04 **Surveyors initials:** CWN & EKL

Tagged tree is a QUER STE of 47 cm dbh with tag # 365. Center of 20 x 50m plot is at a bearing of 165 degrees and 5 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

BEGIN AT MILE 376 of 397 MILE MARKERS, N/10mi. N of 1ST MILE TO PICNIC AREA SIGN (MILE 396-8?)
PARK ON SHOULDER OF PKWAY & WALK NW UPSLOPE TO MIDSLOPE

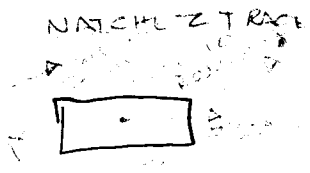
TAG TREE (POST OAK)'S FOLIAGE MAY BE OBSCURED BY DOGWOOD & HICKORIES IN UNDERSTORY. BARK IS GRAY & DEEPLY/UNEVENLY RIDGED.

Time taken to walk to plot: 3 minutes

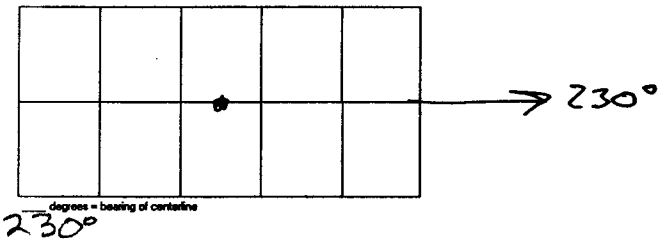
PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Forest on SE slope



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # _____ **Description of pictures (N,E,S & W from GPS point at middle of plot) :** N, E, S, W

Select one: ~~UTM~~ OR (~~Lat/long~~) (If lat/long, then values are 35.40224 N -87.52505 W
WGS 84

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD 83 OR NAD27~~ ~~UTM Zone: 15 16~~

GPS Unit ID _____ GPS file name NT119 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? Coordinate accuracy 5 m / ft DOP # sats 7

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ **Park: NATR VICK** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 17 ° ____ %

__ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
✓ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 135 ° (N=0 °)

__ Flat		✓ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion
__ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
✓ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System
✓ *Upland* __ *Palustrine*
__ *Estuarine* __ *Lacustrine* __ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	✓ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)
✓ Not a wetland (Upland: XERIC : (DRY) : MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Logged in Past, But several Big Oaks

Soil Texture:
__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam ✓ Loam __ Clay loam __ Clay

Drainage:
__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____ % Bedrock	80 % Litter, duff	____ % Other _____
5 % Large rocks (cobbles, boulders >10cm)	8 % Wood (> 1 cm)	
2 % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % Sand (0.1-2 mm)	5 % Bare soil	

Leaf type:
✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
Mixed

Leaf phenology (dominant stratum)
__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

✓ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	✓ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
dogwood anthr	ORV	

Disturbance and animal use comments:
L 50 m (ABOVE) FROM NATCHEZ TRACE PKWY.

NPS GULF COAST PROJECT: Plot *Sampling Form*

(BORDERING LEWIS)

County: LAWRENCE? Park: (NATR) VICK Plot Code: NT119 State: AL MS (TN) Location org: NPS

8/5/04

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20m	[redacted]	QUERFAL QUERALB QUERRUB QUERSTE QUERCOC QUERVEL	.5-1m	10%
Understory T3	5-10m	30%	NYSSSYL CARYGLA OXYDARB	1-2m	20%
Tall shrub S1	2-5m	40%	STYRGRA NYSSSYL	2-5m	30%
Short shrub S2	.5-1m	30%	SMILROT VACCPAL	5-10m	40%
Herbaceous				10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	6	4								QUERALB		
	5									QUERCOC		
	5	4							5	QUERVEL		
	5									QUERSTE		
			6							STYRGRA		
		5	5						6	NYSSSYL		
			3	3					4	DIOSVIR		
				5						SMILROT		
				5						VACCPAL		
		5	5						5	CARYGLA		
		5								OXYDARB		
					2					DIOSQUA		
				2						PRUNSER		
	6									QUERFAL		
					2					DKHBOS		
					2					SOLIODO		
				3						SMILGLA		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ **Park:** (NATR) VICK **Plot Code:** NT119 **State: AL MS** (TN) **Location org: NPS**

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					1					PHASEOLUS ? BEAN PHASPOLP		
				2						ACER RUB		
					2					DICHDIC		
					1					SCHISCO		
					1					OXALSTR		
					1					ANTENARIA		
				2						SASSALB		
					1					CAREX SP.		
	5	4							5	QUERRUB		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team EKL & CWN, Plot NT 120.

Annotated by: CWN

Annotation Date (D-M-Y): 8 / 12 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
7881	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

(BORDERING LAWRENCE)
County: LEWIS? Park: (NATR) VICK Plot Code: NT120 State: AL MS (TN) Location org: NPS

Provisional community name _____

Classified community name Fagus grandifolia–Quercus alba / Cornus florida Forest
Classifyer CWN *Date* 8/12/04 *NVC ELCODE* 7881

Survey date: 8/5/04 **Surveyors initials:** CWN & EKL

Tagged tree is a LIQU STY of 18 cm dbh with tag # 366. Center of 20 x 50m plot is at a bearing of 140 degrees and 1.5 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker): N of MILE MARKER 377
Jacks Branch just across stream and ~~DOWN~~stream in flat terrace between creek and hillside.

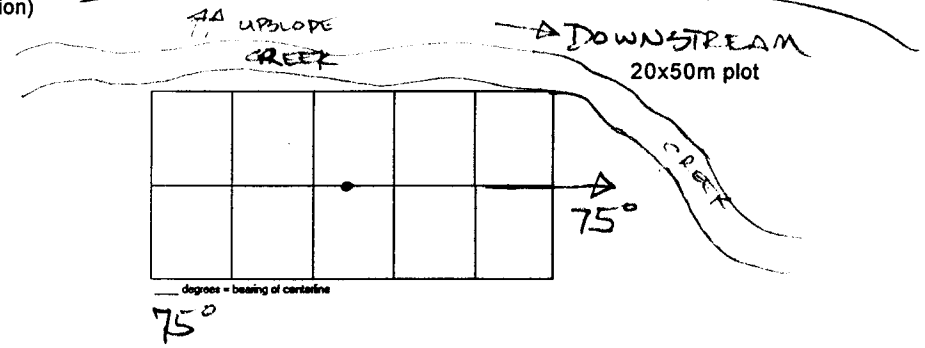
Time taken to walk to plot: 5 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the ~~20 x 50~~m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓NO - If not, depict below) PARKWAY

PLOT LOCATION (Below show general plot location)

20x50



Est. Extent of occurrence of community:
< 1HA 1-10 HA 10-100HA > 100HA

PIC # 70-73 **Description of pictures (N,E,S & W from GPS point at middle of plot) :** N, E, S, W

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 35.4416 N -87.51463 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) **Datum(pick one)** ~~NAD 83~~ OR NAD27 WGS 84 **UTM Zone:** ~~15 16~~

GPS Unit ID _____ **GPS file name** NT120 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E **Y** _____ m N **Elevation** 882 m (ft) GPS

Averaging performed (at least 120 observations)? ✓ **Coordinate accuracy** 7 m / ft **DOP** 4 **# sats**

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ **Park:** NATR VICK **Plot Code:** NTRD **State:** AL MS TN **Location org:** NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %		
✓ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)		
✓ Flat	__ SE	113-157 °
__ Variable	__ S	158-202 °
__ N	338-22 °	__ SW 203-247 °
__ NE	23-67 °	__ W 248-292 °
__ E	68-112 °	__ NW 293-337

Topographic Postion
__ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope ✓ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System
__ *Upland* ✓ *Palustrine*
__ *Estuarine* __ *Lacustrine* __ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
✓ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)
__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded ✓ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:
__ Sand __ Peat __ Silt loam __ Muck
✓ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:
__ Rapidly drained ✓ Moderately well drained __ Somewhat poorly drained
__ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____ % Bedrock	95 % Litter, duff	____ % Other _____
____ % Large rocks (cobbles, boulders >10cm)	5 % Wood (> 1 cm)	
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	✓ Hydrologic
_ erosion	✓ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
_ dogwood anthr	_ ORV	

Disturbance and animal use comments:
FOOTPATH FROM JACKS BRANCH PICNIC AREA GOES THROUGH EDGE OF PLOT BESIDE CREEK. DEFUNCT DRINKING FOUNTAIN JUST BEYOND E END OF PLOT.

NPS GULF COAST PROJECT: Plot *Sampling Form* 8/5/04

(BORDERING LAWRENCE)
County: LEWIS ? Park: (NATR) VICK Plot Code: NT120 State: AL MS (TN) Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	80%	QUERALB LIQUSTY ACERSACCHARUM	.5-1m	10%
Understory T3	10-15m	40%	QUERALB	1-2m	20%
Tall shrub S1	2-5m	70%	OSTRVIR	2-5m	30%
Short shrub S2	<.5m	20%	QUERALB	5-10m	40%
Herbaceous				10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	7	6	3	4					7	QUERALB		
	5	5							6	FAGUGRA		
	6	5							6	LIQUSTY		
				3						ASIMTRI		
		5	5						6	OSTRVIR		
		4								CORNFLO		
					2					COCCCAR		
				1	1					SYMPORB		
					2					CAREX SP.		
					2					BROMUS SP.		
					1					AGRIMONIA		
					2					DICHBOS		
	4	5							5	LIRITUL		
	6	5							6	ACERSACCHARUM		
			3							CERCCAN		
			2							VIBRUF		
				2						FRAXAME		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

County:_____ Park: NATR VICK Plot Code: NT120 State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					3					BRACERE		
				3						TOXIRAD		
					2					POLEREP		
					2					RUDBTRI ?		
					2					[illegible]RAMAC		
					2					MARSTRI		
				2						STYRGRA		
				3						HAMAVIR		
				2		2				SMIL BON		
					2					ARNO ATR (glaucous bracts)		
					2					CARYCOR		
				2						LINDBEN		
					1					OSMVREG		
					1					BOTRVIR		
			2							CRATAEGUS SP.		
					1					CHASSES		
					2					POLY ACR		
				1						SASSALB		
				1						LONISEM		
					2					CHASLAX		
					1					SCUTOVA A Scutellaria ovata		
			2							VACCSTA		
					1					GOODPUB		
				2						SMILROT		
					1					LACTUCA SP.		
					2					PEDICAN		
				2						HYDRARB		
					1					VIOLA CANADENSIS ?		
			2							RHODODENDRON SP.		
				2						CORYAME		
	5									QUERRUB		
			3							CARPCAR		
					1					VICIA SP.		
					1					ZIZIA AUREA ?		
					1					HYPE[illegible]UN		

Use bottom of this sheet or additional pages for other species in 1 ha plot

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

NPS GULF COAST PROJECT: Plot *Sampling Form* 8/5/04 Page 4 5

(BORDERING LAWRENCE)
County: LEWIS? **Park:** (NATR) VICK **Plot Code:** NTR20 **State:** AL MS (TN) **Location org:** NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					3					DESM NUD		
					[redacted]					MICR VIM		
					1					SYMPH		
					1					HYMEN CAR		
					1					IRIS RHIZOME BLADE		
					1					ELEP TOM		
			1							CRATAE		
				1						VIBU PRU		
			4	4					5	ASIM TRI		
					2					POTE SIM		
					1					CONVOLVULACEAE		
										~~[illegible]~~		
					1					ARIS SPI		
				1						MORU RUB		
					1					ATHY FIL ASP		
					1					DESM PAN		
					2					CONOANE		
					1					DESMPAN		
					1					~~GENTIANA~~ Sabatia angularis		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team EKL &CWN, Plot MT 121.

Annotated by: CWN

Annotation Date (D-M-Y): 8 / 5 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
4286	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Lewis Park: (NATR) VICK Plot Code: NT121 State: AL MS (TN) Location org: NPS

Provisional community name _____

Classified community name Justicia americana Herbaceous Vegetation
Classifyer CWN *Date* 8/5/04 *NVC ELCODE* 4286

Survey date: 8/5/04 **Surveyors initials:** CWN & EKL

Tagged tree is a _____ of ____ cm dbh with tag #_____. Center of 20 x 50m plot is at a bearing of ____ degrees and ____ m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

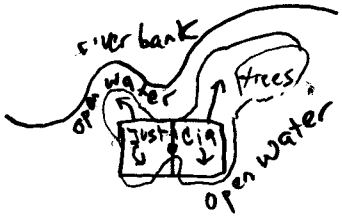
From Metal Ford Parking area take trail to Buffalo River, up stream just about 40/m - out in river

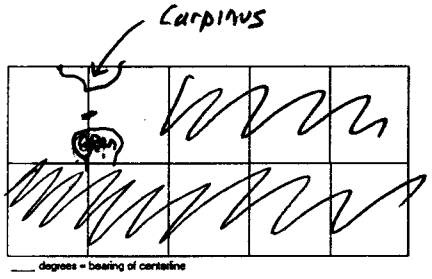
Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)





Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 74-77 **Description of pictures (N,E,S & W from GPS point at middle of plot) :** _____

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 35.46371 N -87.47950 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) **Datum(pick one)** ~~NAD 83~~ OR NAD27 **UTM Zone:** ~~15~~ 16

GPS Unit ID _____ **GPS file name** NT121 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N **Elevation** 755 m (ft) GPS

Averaging performed (at least 120 observations)? **Coordinate accuracy** 7 m / ft **DOP** 4 # sats

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ **Park:** (NATR) VICK **Plot Code:** MT12 **State:** AL MS (TN) **Location org:** NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %		**Measured Aspect** ____ ° (N=0 °)		**Topographic Postion**	
✓ Flat	0 ° 0 %	__ Flat	__ SE 113-157 °	_ Interfluve (Ridge/summit/crest)	__ Toeslope
✓ Gentle	0-5 ° 1-9%	__ Variable	__ S 158-202 °	__ High Slope (upper/convex slope)	
__ Moderate	6-14 ° 10-25%	__ N 338-22 °	__ SW 203-247 °	__ Midslope	__ Low level (terrace)
__ Somewhat steep	15-25 ° 26-49%	__ NE 23-67 °	__ W 248-292 °	__ Lowslope (lower/footslope)	✓ Channel bed
__ Steep	27-45 ° 50-100%	__ E 68-112 °	__ NW 293-337		
__ Very steep	45-69 ° 101-275%			*Cowardin System*	
__ Abrupt	70-100 ° 276-300			_ *Upland*	✓ *Palustrine*
__ ovrhng/shltrd	>100 ° >300%			_ *Estuarine*	_ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
✓ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	Nose slope	Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)

__ Intermittently flooded __ Permanently flooded ✓ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)

__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

On rocky bar in Buffalo River, with water flowing across.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
__ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
____% Litter, duff
____% Wood (> 1 cm)
100 % Water
____% Bare soil
____% Other _____

Leaf type:

__ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
✓ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
__ Cold-decidiuous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
✓ Herb - Perennial

Physiognomic Class

__ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
✓ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging _ fire _ Hydrologic
_ erosion _ trails/roads _ Agriculture
_ grazing/browsing _ wind/ice damage _ Old Growth
_ pine bark beetle _ exotic plants _ Fire Suppression
_ dogwood anthr _ ORV

Disturbance and animal use comments:

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: LEWIS **Park:** (NATR) VICK **Plot Code:** NT121 **State:** AL MS (TN) **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3	5-10m	10%	CARPCAR	1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous	<.5m	80%	JUSTAME	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
					9				9	JUSTAME		
					7					CERA DEM ?	✓	
		5								CARPCAR		
					2					SAURCER		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:____________ Park: NATR VICK Plot Code:________ State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team EKL & CWN, Plot NT122

Annotated by: CWN

Annotation Date (D-M-Y): 8 / 11 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
7312	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: LEWIS Park: (NATR) VICK Plot Code: NT122 State: AL MS (TN) Location org: NPS

Provisional community name _____

Classified community name Betula nigra - Platanus occidentalis / Alnus serrulata / Boehmeria cylindrica Forest
Classifyer CWN *Date* 8/11/2004 *NVC ELCODE* 7312

Survey date: 8/5/04 **Surveyors initials:** CWN & EKL

Tagged tree is a No tag tree of ____ cm dbh with tag #_____. Center of 20 x 50m plot is at a bearing of ____ degrees and ____ m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

Bar in Buffalo River at metal Ford. From sign at parking lot (about iron works) 285° to bar in Buffalo River.

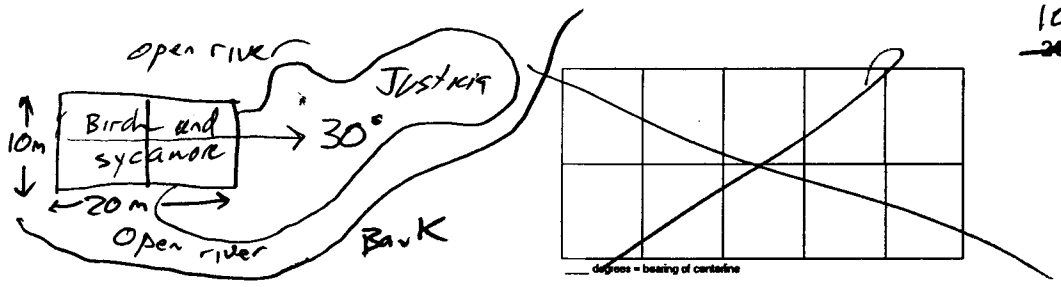
(Note: Hazardous hornet nest is within 2 m of center of plot & GPS point)

Time taken to walk to plot: 3 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 78, 79 **Description of pictures (N,E,S & W from GPS point at middle of plot) :** 78 = Pic of PLOT CTR from 5m S of ISLAND; 79 = Pic of PLOT CTR from 10m E of ISLAND

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 35.46354 N -87.47972 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD 83~~ OR ~~NAD27~~ WGS 84 ~~UTM Zone: 15 16~~

GPS Unit ID _____ **GPS file name** NT122 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N **Elevation** 742 m (ft) (GPS)

Averaging performed (at least 120 observations)? 30 **Coordinate accuracy** 6 m / ft **DOP** **# sats** 6

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: NATR VICK Plot Code: MT122 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope _____ ° ____ %

__ Flat	0 °	0 %
✓ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

__ Flat	__ SE 113-157 °
✓ Variable	__ S 158-202 °
__ N 338-22 °	__ SW 203-247 °
__ NE 23-67 °	__ W 248-292 °
__ E 68-112 °	__ NW 293-337

Topographic Postion
_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope ✓ Low level (terrace)
__ Lowslope (lower/footslope) ✓ Channel bed

Cowardin System
_ *Upland* ✓ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
✓ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)
__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded ✓ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:
✓ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:
__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
__ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

___ % Bedrock	10 % Litter, duff	20 % Other MOSS
10 % Large rocks (cobbles, boulders >10cm)	___ % Wood (> 1 cm)	
10 % Small rocks (gravel, 0.2-10 cm)	10 % Water	
40 % Sand (0.1-2 mm)	___ % Bare soil	

Leaf type:
✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	✓ Hydrologic
_ erosion	✓ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
_ dogwood anthr	_ ORV	

Disturbance and animal use comments:
HORNETS!
ROPES - FOR SWINGING OUT OVER RIVER

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: LEWIS Park: (NATR) VICK Plot Code: NT122 State: AL MS (TN) Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20m	70%	BETUNIG PLATOCC	.5-1m	10%
Understory T3	5-10m	50%	BETUNIG PLATOCC	1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2	.5-1m	20%	ALNUSER CORNAMO	5-10m	40%
Herbaceous	<.5m	40%	CHASLAT ELYMUS SP.	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	7	7							8	BETUNIG		
	7	6							7	PLATOCC		
					6					CHASLAT		
							2			TOXIRAD		
			4	5					5	~~CARBAR~~ ALNUSER		
				5						CORN AMO (brown pith)		
					5					ELYMUS SP.		
			4							ACERRUB		
					2					MICRVIM		
					2					~~CAR~~ TRAD VIR		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:__________ **Park:** NATR VICK **Plot Code:**______ **State:** AL MS TN **Location org:** NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?

Use bottom of this sheet or additional pages for other species in 1 ha plot

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team EKL & CWN, Plot NT123.

Annotated by: CWN

Annotation Date (D-M-Y): 8 / 13 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.*	Reference	Notes:
~~7881~~	~~2~~	~~M~~		too much Q. rubra & Acer saccharum ?
2067	2	M	NATR data analysis	4-4-2007

Other Comments:

Needs work! 8-13-04

*FIT: 1 = fits concept well
2 = fits;not typal

*CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: LEWIS Park: NATR VICK Plot Code: NT123 State: AL MS (TN) Location org: NPS

Provisional community name _____

Classified community name _____

Classifyer CWN *Date* 4-4-2007 *NVC ELCODE* 2067

Survey date: 8/5/04 **Surveyors initials:** CWN / EKL

Tagged tree is a SUGAR MAPLE of 15 cm dbh with tag # 367. Center of 20 x 50m plot is at a bearing of 50 degrees and 2 m from tree. TAG FACES ROUGHLY UPSLOPE.

Directions to tag tree (including any notes on best access route, and mile marker):

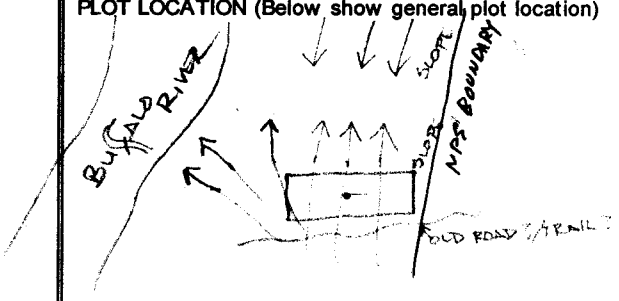
FROM PARKING LOT OF HISTORIC "STEELE'S IRON WORKS" (NT PKWAY MILE ±383) TO METAL FORD RD - W), WALK STRAIGHT DOWN TO RIVER'S EDGE (SEVERAL METERS), (NEAR PLOTS 121+122 - COBBLE BAR + ISLAND OUT IN RIVER). FROM RIVER BANK, GO UPSLOPE @ 205° TO MIDDLE OF NE-FACING SLOPE.

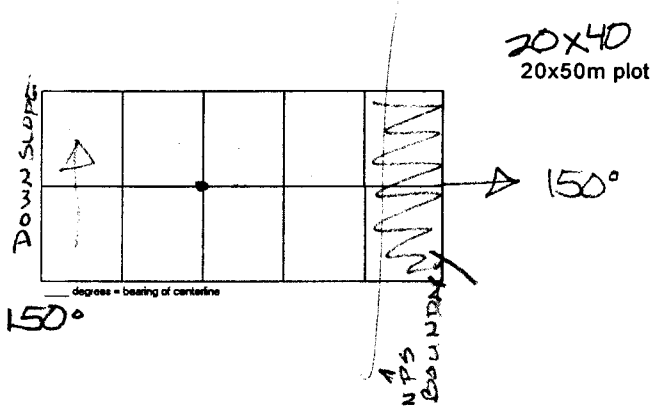
Time taken to walk to plot: 1

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)





Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 80-83 **Description of pictures (N,E,S & W from GPS point at middle of plot) :** N, E, S, W

Select one: UTM OR (Lat/long) (If lat/long, then values are 35.46272 N -87.48026 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) **Datum(pick one)** WGS 84 ~~NAD 83 OR NAD27~~ **UTM Zone:** 15 16

GPS Unit ID _____ **GPS file name** NT123 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E **Y** _____ m N **Elevation** _____ m / ft

Averaging performed (at least 120 observations)? **Coordinate accuracy** 8 m / ft **DOP** 3-4 **# sats** 2D

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: (NATR) VICK Plot Code: NT123 State: AL MS (TN) Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 11 ° ____ %

__ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
✓ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 55 ° (N=0 °)

__ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
55 NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
✓ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	✓ Midslope	__ Periglacial boulderfield
	Nose slope	Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

✓ Not a wetland (Upland: XERIC : DRY - MESIC : (MESIC))
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

THERE ARE A COUPLE OF SHALLOW DRAINAGES RUNNING NE THROUGH PLOT

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam ✓ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
3 % Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
93 % Litter, duff
5+ % Wood (> 1 cm)
____% Water
____% Bare soil
____% Other _____

Leaf type:

✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
Mixed

Leaf phenology (dominant stratum)

__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	✓ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
dogwood anthr	ORV	

Disturbance and animal use comments:

County: LEWIS Park: (NATR) VICK Plot Code: NT123 State: AL MS (TN) Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	80%	QUERRUB ACERSACCHARUM QUERALB FAGVGRA	.5-1m	10%
Understory T3	10-15m	40%	QUERRUB OSTRVIR ACERSACCHARUM NYSSSYL	1-2m	20%
Tall shrub S1	2-5m	30%	OSTRVIR STYRGRA NYSSSYL	2-5m	30%
Short shrub S2	.5-1m	20%	NYSSSYL	5-10m	40%
Herbaceous	<.5m	10%	DESMNUD	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	6	5							6	ACERSACCHARUM		
	7	5							7	QUERRUB		
		5	4						5	OSTRVIR		
				2						SMILGLA		
	4	4	2	2					5	CARYCOR		
					3					DESMNUD		
		2	3	2					3	ACERRUB		
				1						SYMPORB		
					3					CAREX SP. (narrow leaf)		
				3						ELONAME		
				2						VACCSTA		
					3					CONOAME		
		4								LIRITUL		
		3		3					3	FRAXAME		
				2						PRUNSER		
		4								OXYDARB		
			4							STYRGRA		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ **Park:** NATR VICK **Plot Code:** NT123 **State:** AL MS TN **Location org:** NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
			2							RHODODENDRON SP.		
	6									QUERALB		
	4	5	4	4					5	NYSSSYL		
	6									FAGUGRA		
				2						SASSALB		
					2					DICHBOS		
					1					PORTSTI		
										~~[illegible]~~		
					2					POLYACR		
	5	4							5	CARYALB		
					1					SOLICAE		
					1					ASPLPLA		
					1					HELIHIR		
	4	4							5	LIQUSTY		
			2							CARPCAR		
					2					EPIFVIR		
				2						VITIROT		
				1						CRATAEGUS SP.		
				2						HYDRARB		
				~~2~~						~~SASSALB~~		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team CWN & EKL, Plot NT124

Annotated by: CWN

Annotation Date (D-M-Y): 8 / 5 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
4412	1	H		

Other Comments:

Vicinity has flatwoods which are dominated by Quercus phellos and may be called the other type described from Arnold (AEDC)

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: LEWIS Park: (NATR) VICK Plot Code: NT124 State: AL MS (TN) Location org: NPS

Provisional community name Quercus falcata Flatwoods Forest

Classified community name Quercus falcata Flatwoods Forest
Classifyer CWN *Date* 8/5/04 *NVC ELCODE* 4412

Survey date: 8/5/04 **Surveyors initials:** CWN & EKL

Tagged tree is a Quercus Falcata of 55 cm dbh with tag # 368. Center of 20 x 50m plot is at a bearing of 230° degrees and 0.5 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

Enter Meriwether Lewis site off NT Parkway. Then go right and stop about 2/3 of way to next intersection. PLOT IS on right side in woods

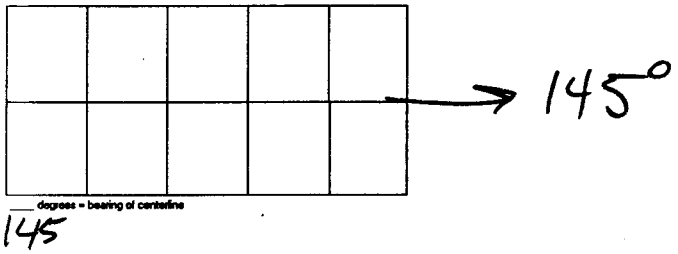
Time taken to walk to plot: 5 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ✓ YES ___ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)

Some areas nearby May be identifiable as



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 84-87 **Description of pictures (N,E,S & W from GPS point at middle of plot) :** ___

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 35.50771 N -87.45872 W WGS 84

GPS Techniques/Equipment: ~~Garmin III+~~ (Garmin V) **Datum(pick one)** ~~NAD 83 OR NAD27~~ **UTM Zone:** ~~15 16~~

GPS Unit ID ___ **GPS file name** NT124 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X ___ m E **Y** ___ m N **Elevation** ___ m / ft

Averaging performed (at least 120 observations)? **Coordinate accuracy** 13 m / ft **DOP** **# sats** 3

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: LEWIS Park: (NATR) VICK Plot Code: NT124 State: AL MS (TN) Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

✓ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

✓ Flat	__ SE 113-157 °
__ Variable	__ S 158-202 °
__ N 338-22 °	__ SW 203-247 °
__ NE 23-67 °	__ W 248-292 °
__ E 68-112 °	__ NW 293-337

Topographic Postion

✓ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System
_ *Upland* ✓ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	✓ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)
__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded ✓ Temporarily flooded (in part) (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) ✓ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

This area has places where water stands on the surface after rains parts are temp flooded while other areas might be called upland.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:
__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam ✓ Clay loam __ Clay

Drainage:
__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
__ Well drained ✓ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock	✓ ____% Litter, duff	____% Other _____
____% Large rocks (cobbles, boulders >10cm)	____% Wood (> 1 cm)	
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
_ dogwood anthr	ORV	

Disturbance and animal use comments:

NPS GULF COAST PROJECT: Plot *Sampling Form* 8/5/04

County: LEWIS **Park:** NATR VICK **Plot Code:** NT124 **State:** AL MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	QUGRFAL QUERALB QUERPHE LIQUSTY	.5-1m	10%
Understory T3	10-15m	30%	NYSSSYL ACERRUBT QUERPHE	1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2	0.5-1m	20%	SMILROT	5-10m	40%
Herbaceous	<0.5m	10%	CHASLAX	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	7								7	QUER GAL		
	6	4							6	QUER PHE		
	6								6	QUER ALB		
				4						SMIL ROT		
	6	4	4	5	2				6	LIQU STY		
			3							VACC ATRO		
					4					CHAS LAX		
					2					MITC REP		
		5								NYSS SYL		
				2						CARY gla		
				2						SMIL BON		
				2						HYPE HYP		
	4	5	2	2					5	ACER RUB var TRI		
				2						VACCPAL		
				2						AMELARB		
						2				MNIVM		
				2						VITIS ROT		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:____________ **Park: (NATR) / VICK** **Plot Code:** NT 124 **State: AL MS (TN)** **Location org: NPS**

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
			2	2					2	RHODODENDRON	✓	

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent

T2: Tree Can

T3 Subcanopy

S1 Tall Shrub (>1m; to 5m)

S2 Short Shrub (< 1m)

H Herbaceous

N Nonvascular

V Vines (lianas)

E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team EKL &CWN, Plot NT125

Annotated by: CWN

Annotation Date (D-M-Y): 8/13/04

****

Method of assignment:

☑ inspection ☑ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
~~7001~~	2	M		
2067	2	M	NATR data analysis 4-5-2007	CWN

Other Comments:

take another look at this

✓done 4/5/2007

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Lewis Park: (NATR) VICK Plot Code: NT125 State: AL MS (TN) Location org: NPS

Provisional community name _____

Classified community name ~~Fagus grandifolia-Quercus alba / Cornus Florida Forest~~ 2067

Classifyer CWN *Date* ~~4/15/2007~~ *NVC ELCODE* ~~7854~~

Survey date: 8/5/04 **Surveyors initials:** CWN / EKL

Tagged tree is a Juniperus virginiana of 22 cm dbh with tag # 369. Center of 20 x 50m plot is at a bearing of 45° degrees and 0.5 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

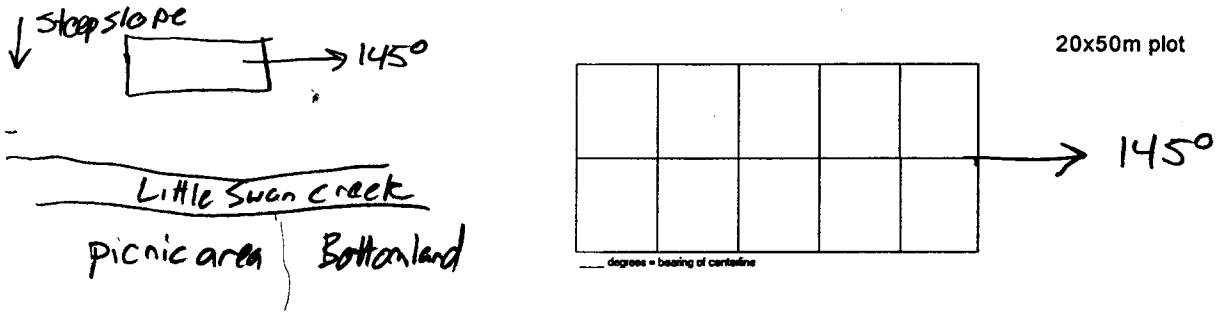
Meriwether Lewis Historic Area. Follow signs to restrooms, then go downslope to picnic area by Little Swan Creek. Across creek about 50m upstream on ~~opp~~ hillside

Time taken to walk to plot: 10 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA Memory Sticks started 8/5/04

PIC # 1-4 **Description of pictures (N,E,S & W from GPS point at middle of plot) :** _____

Select one: UTM OR (Lat/long) (If lat/long, then values are 35.52927 N -87.45299 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) **Datum(pick one)** ~~NAD-83 OR NAD27~~ was **UTM Zone:** 15 16

GPS Unit ID _____ **GPS file name** NT125 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E **Y** _____ m N **Elevation** 754 m / (ft)

Averaging performed (at least 120 observations)? **Coordinate accuracy** 7 m / ft **DOP** 5 # sats

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: (NATR) VICK Plot Code: NT125 State: AL MS (TN) Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 26 ° ____ %

__ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
✓ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 240 ° (N=0 °)

__ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	✓ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
✓ Midslope _ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	✓ Midslope	__ Periglacial boulderfield
	Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

Dry

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Too step for anything but grazing and logging long ago.

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam ✓ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
75 % Litter, duff
5 % Wood (> 1 cm)
____% Water
20 % Bare soil
____% Other _____

Leaf type:

__ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
__ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

__ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
_ dogwood anthr	ORV	

Disturbance and animal use comments:

County: LEWIS Park: (NATR) VICK Plot Code: NT125 State: AL MS (TN) Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20m	80%	QUER ALB QUER RUB	.5-1m	10%
Understory T3	10-15m	50%	ACERSACCHARUM	1-2m	20%
Tall shrub S1	2-5m	30%	ACERSACCHARUM NYSSASYL	2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous	<.5m	10%	CHASSES	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	6									QUERRUB		
		5								OXYDARB		
				2						POLYACR		
					1					PACKOBO		
				3						VACCPAL		
		5	4						5	NYSSSYL		
		3								PLATOCC		
		5								JUNIVIR		
			2	2					2	STYRGRA		
				2						SASSALB		
			3							ACERRUB		
					1					COREMAT		
				2			3		3	TOXIRAD		
				1						PINUECH		
					1					MIANRAC		
			2	2					2	RHOD		
					1					DICHBOS		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ **Park:** NATR VICK **Plot Code:** NT126 **State:** AL MS TN **Location org:** NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
							2			VITICIN		
					1					CHAMLUT		
					3					CHASSES		
	4	6	4						6	ACER SACCHARUM		
					2					DESMNUD		
					2					DICHDIC		
					1					ERIG		
					1					OXALSTR		
				2						HYPESTR		
		4								CARYGLA		
	7	5							7	QUERALB		
	5		2	2					5	FAGUGRA		
					1					SYMPCOR ?		
				1						CARPCAR		
	5									CARYALB		
	5									LIRITUL		
				1						CORYAME		
	4			2					4	FRAXAME		
					1					ANTENARIA SP.		
			2							OSTRVIR		
				2						EVONAME		
					1					RUDBFUL	✓	
					1					PASSLUT		
					1					MINT (MONARDA?)	✓	
				2						CARYOVALIS		
					1					POTE		
					1					DESMPAN		
					1					AGRIMONIA		
					1					DESMROT		
					1					SYMPHIOTRICUM		
					1					EUPHCOR		
				2						VIBUPRU		
					1					LACTUCA SP.		
				2						CERCCAN		

Use bottom of this sheet or additional pages for other species in 1 ha plot

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team EKL & CWN, Plot NT 126

Annotated by: CWN

Annotation Date (D-M-Y): 8 / 13 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7795	1	H		Fits description but 3 nominals missing from plot

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: LEWIS Park: (NATR) VICK Plot Code: NT126 State: AL MS (TN) Location org: NPS

Provisional community name _____

Classified community name Quercus alba - Carya alba - (Quercus velutina) / Desmodium nudiflorum - (Carex picta) Forest

Classifyer CWN *Date* 8/13/04 *NVC ELCODE* 7795

Survey date: 8/6/04 **Surveyors initials:** CWN & EKL

Tagged tree is a Post oak of 24 cm dbh with tag # 370. Center of 20 x 50m plot is at a bearing of 232° degrees and 1 m from tree. Tag faces 210° (SSW side of tree)

Directions to tag tree (including any notes on best access route, and mile marker):

Natchez Trace Meriwether Lewis site, go on road to bathrooms and park at trail sign. Follow trail to east, then go NE off trail to flat ridge top, with slight NE slope.

(±100 m N. of PLOT NT 127)

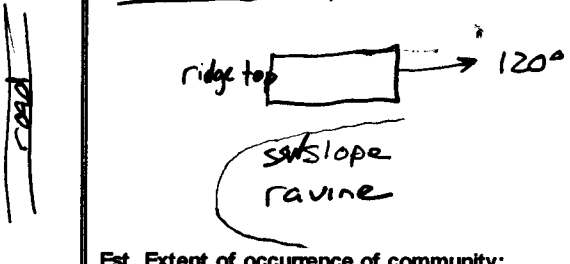
Time taken to walk to plot: 5 min.

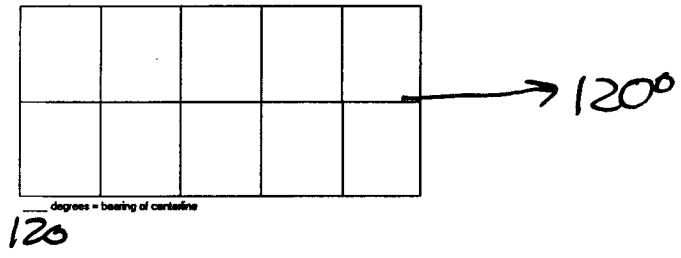
PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓NO - If not, depict below)

PLOT LOCATION (Below show general plot location)

All hardwood Slope 30°





Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 5-8 **Description of pictures (N,E,S & W from GPS point at middle of plot) :** _____

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 35.51901 N -87.45931 W WGS 84

GPS Techniques/Equipment: Garmin III+ (Garmin V) **Datum(pick one)** ~~NAD 83 OR NAD27~~ ~~UTM Zone: 15 16~~

GPS Unit ID _____ **GPS file name** NT126 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N **Elevation** 967 m/(ft) (GPS)

Averaging performed (at least 120 observations)? ✓ **Coordinate accuracy** 30 m/ft **DOP** **# sats** 4

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: LEWIS Park: (NATR) VICK Plot Code: NT126 State: AL MS (TN) Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

__ Flat	0 °	0 %
✓ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 120° (N=0 °)

__ Flat		✓ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

✓ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	✓ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	Nose slope	Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

✓ Not a wetland (Upland: XERIC (DRY) - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

Ridge

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam ✓ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
97 % Litter, duff
3 % Wood (> 1 cm)
____% Water
____% Bare soil
____% Other _____

Leaf type:

✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
Mixed

Leaf phenology (dominant stratum)

__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging _ fire _ Hydrologic
_ erosion _ trails/roads _ Agriculture
_ grazing/browsing _ wind/ice damage _ Old Growth
_ pine bark beetle _ exotic plants _ Fire Suppression
✓ dogwood anthr ORV

Disturbance and animal use comments:

8/6/04

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: LEWIS Park: (NATR) VICK Plot Code: NT126 State: AL MS (TN) Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20m	80%	QUERALB QUERVEL QUERCOC	.5-1m	10%
Understory T3	5-10m	40%	QUERALB CARYGLA	1-2m	20%
Tall shrub S1	2-5m	10%	NYSSSYL	2-5m	30%
Short shrub S2	.5-1m	20%	SMILROT	5-10m	40%
Herbaceous	<.5m	5%	DICHDIC	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m, to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	7	6		3					7	QUERALB		
	6									QUERVEL		
				5						SMILROT		
				4						VACCPAL		
				3						SASSALB		
		4	4						5	NYSSSYL		
					2					CHAM MAC		
	5									QUER STE		
					1					TEPH VIR		
				1						TOXI RAD		
				2						VITI ROT		
					2					CAREX		
					2					DICH COM		
				2						VACC ARB		
					1					ARIS SER		
				2						PART QUI		
					2					DICH BOS		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: LEWIS **Park:** (NATR) VICK **Plot Code:** NTR26 **State:** AL MS (TN) **Location org:** NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					1					GALL OF PIL		
		3		2					3	CARY PAL		
					1					PHASPOLP 'BEAN' (PAINSCOLUS?)		
					1					ACER SACCHARUM		
				2						VACC STAM		
				1						RUBUS		
			3	2					3	STYR GRA		
	6									QUER COC		
	5	5							5	CARY GLA		
				2						SMIL GLA		
				2						DIOS VIR		
					3					DICH DIC		
					1					LIRI TUP		
					1					COREO MAJ		
					1					SOLI ODO		
					1					DESM ROT		
			2	1					2	AMEL ARB		
					1					SCHI SCO		
				1						CORNFLO (Lots of dead bigones)		
				1						SMIL BON		
					1					POTESIM		
				1						FRAN CAR		
				1						PRUN MEX		
		B			1					QUERRUB		
					1					MANFVIR		
					1					ERICHIE		

Use bottom of this sheet or additional pages for other species in 1 ha plot

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team EKL (CWN 8), Plot NT127

Annotated by: CWN

Annotation Date (D-M-Y): 8/13/04

****

Method of assignment:

- ☑ inspection
- ☐ multivariate
- ☐ tabular analysis
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
2067	2	M		

Other Comments:

Take a closer look at this

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

County: LEWIS Park: (NATR) VICK Plot Code: NT127 State: AL MS (TN) Location org: NPS

Provisional community name _____

Classified community name _____
Classifyer CWN *Date* 8/13/2004 *NVC ELCODE* 2069

Survey date: 8/6/04 **Surveyors initials:** CWN + EHL

Tagged tree is a QUERAB of 39 cm dbh with tag # 371. Center of 20 x 50m plot is at a bearing of 135 degrees and 5 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker): (±100M SOUTH OF PLOT NT 126) IMMEDIATELY N. OF 20 (± MILE 386?), NATCHEZ TRACE MERIWETHER LEWIS SITE; GO ON RD. TO BATHROOMS SOME DISTANCE; PARK AT TRAIL SIGN. FOLLOW TRAIL E FOR SEVERAL METERS (? ±100).

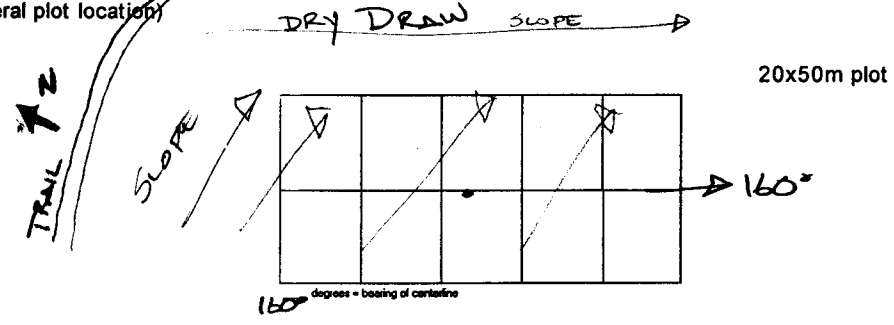
AS TRAIL PASSES LARGE DRAW ON RIGHT, PLOT IS ON E-NE FACING SLOPE OF RAVINE. (TRAIL BENDS + PARALLELS PLOT ON OPPOSITE SLOPE

Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? X YES ___ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 9-12 **Description of pictures (N,E,S & W from GPS point at middle of plot) :** N, E, S, W

Select one: UTM OR (Lat/long) (If lat/long, then values are 35.51841 N -87.45930 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) **Datum(pick one)** ~~NAD 83 OR NAD27~~ WGS 84 ~~**UTM Zone:** 15 16~~

GPS Unit ID _____ **GPS file name** NT127 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N **Elevation** _____ m / ft

Averaging performed (at least 120 observations)? ✓ **Coordinate accuracy** 9 m / ft **DOP** **# sats** 4

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Lewis Park: (NATR) VICK Plot Code: NT127 State: AL MS (TN) Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 16 ° ____ %

__ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
✓ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 70 ° (N=0 °)

__ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
✓ E	68-112 °	__ NW	293-337

Topographic Postion

__ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
✓ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

✓ *Upland* __ *Palustrine*
__ *Estuarine* __ *Lacustrine* __ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	✓ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC (DRY - MESIC) MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam ✓ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
2 % Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
87 % Litter, duff
10 % Wood (> 1 cm)
____% Water
1 % Bare soil
____% Other _____

Leaf type:

✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	✓ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
✓ dogwood anthr	_ ORV	

Disturbance and animal use comments:

SOME DEAD DOGWOOD; ONE ROBUST INDIVIDUAL WITH 2 DEAD LIMBS.

County: LEWIS Park: NATR VICK Plot Code: NT127 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	QUERALB QUERRUB	.5-1m	10%
Understory T3	10-15m	60%	QUER ALB CARYALB	1-2m	20%
Tall shrub S1	2-5m	20%	STYRGRA NYSSSYL	2-5m	30%
Short shrub S2	.5-1m	30%	SMIL ROT SASSALB	5-10m	40%
Herbaceous				10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	7	6							8	QUERALB		
	6			2					6	QUERRUB		
				5						SMIL ROT		
				4						SASSALB		
			4							STYRGRA		
				3			3		3	TOXIRAD		
				2						LIRITUL		
				2						PRUNSER		
					1					TIPVDIS		
					1					LYSI QUADRIFOLIA		
	4	5		3					6	CARYALB		
					1					PASSLUT		
			2							CORN FLO		
		4	4	3					5	NYSSSYL		
		3		2					3	CARYPAL		
					1					DESMNUD		
					1					ASPLPLA		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ **Park:** (NATR) VICK **Plot Code:** MT127 **State:** AL MS (TN) **Location org: NPS**

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
				3						PARTQUE		
					1					DIOSQUA		
				1						RHOD		
					1					ARISSER		
	4									QUERVEL		
					1					POLYBIF		
				1						SYMPORB		
	4									QUERCOC		
				1						VACCSTA		
				2						VITIAES		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team EKL 8 CWN, Plot NT 128

Annotated by: CWN

Annotation Date (~~D-M-Y~~ M-D-Y): 8/16/04

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7191	1	H		

Other Comments:

Ailanthus altissima Forest!

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: LEWIS Park: (NATR) VICK Plot Code: NT128 State: AL MS (TN) Location org: NPS

Provisional community name _____

Classified community name Ailanthus altisima Forest
Classifyer CWN *Date* 8/6/2004 *NVC ELCODE* 7191

Survey date: 8/6/2004 **Surveyors initials:** CWN & EKL

Tagged tree is a No tag tree of ____ cm dbh with tag #_____. Center of ~~20 x 50~~ 10x20m plot is at a bearing of ____ degrees and ____ m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

Just South of Jackson Falls, West side of NT Parkway
(¼ mi. So. of TURN-OFF TO JACKSON FALLS)

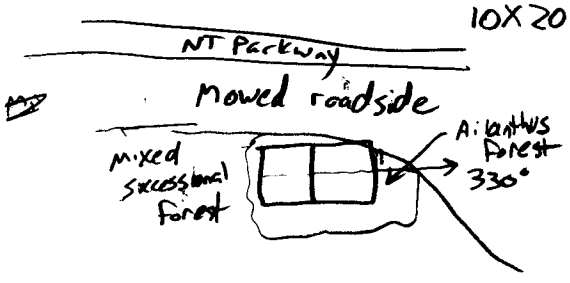
Time taken to walk to plot: ½ minute

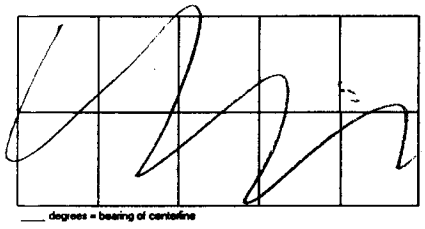
PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES _✓_NO - If not, depict below)

PLOT LOCATION (Below show general plot location)

10X20m plot





330°

10X20m plot
~~20x50m plot~~

Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 13-16 Description of pictures (N,E,S & W from GPS point at middle of plot) :_____

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 35.69827 N -87.29967 W
WGS 84

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD 83 OR NAD27~~ UTM ~~Zone: 15 16~~

GPS Unit ID _____ GPS file name NT128 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 761 m (ft) (GPS)

Averaging performed (at least 120 observations)? 300 Coordinate accuracy 8 (m)/ ft DOP # sats 7

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: (NATR) VICK Plot Code: NT128 State: AL MS (TN) Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 15 ° ____ %

__ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
✓ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 225 ° (N=0 °)

__ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	✓ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion
__ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
✓ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System
✓ *Upland* __ *Palustrine*
__ *Estuarine* __ *Lacustrine* __ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	✓ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)
✓ Not a wetland (Upland: XERIC : DRY - MESIC : (MESIC))
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Disturbed, Not clear how in past

Soil Texture:
__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:
__ Rapidly drained ✓ Moderately well drained __ Somewhat poorly drained
__ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock	75% Litter, duff	____% Other _____
____% Large rocks (cobbles, boulders >10cm)	5% Wood (> 1 cm)	
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	20% Bare soil	

Leaf type:
✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	✓ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	✓ exotic plants	_ Fire Suppression
_ dogwood anthr	ORV	

Disturbance and animal use comments:

NPS GULF COAST PROJECT: Plot *Sampling Form* 8/6/04

County: LEWIS **Park:** (NATR) VICK **Plot Code:** NT128 **State:** AL MS (TN) **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20m	80%	AILAALT	.5-1m	10%
Understory T3	10-15m	60%	AILAALT	1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous				10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	8	7							8	AILAALT		
							3			COCOCAR		
		2	4						4	CELTOCC		
							3			VITIROT		
				2						SYMPORB		
					3					ELYMHYS		
			2							ULMURUB		
				2			3		3	LONIJAP		
					2					~~EPA~~ POLYGONUM VIR		
					1					ASPLPLA		
							4			CAMPRAD		
			3	3					3	SASSALB		
			4							ACERSACCHARUM		
				2						QUERVEL		
				2						RUBUS		
							1			MATALEA SP.		
	4									ACERRUBRUM		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ **Park:** (NATR) VICK **Plot Code:** NT128 **State: AL MS** (TN) **Location org: NPS**

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?
			2							FRAXAME		
							2			PARTQUE		
					2					PERIFRU		
			3							ACERNEG		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additlonal pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team EKL8 CWN, Plot MT129

Annotated by: CWN

Annotation Date (D-M-Y): 8 / 13 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7334	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Maury Park: (NATR) VICK Plot Code: NT129 State: AL MS (TN) Location org: NPS

Provisional community name Acer saccarinum - Platanus occidentalis

Classified community name Platanus occidentalis-Acer saccarinum-Juglans nigra-Ulmus rubra Forest
Classifyer CWN *Date* 8/13/04 *NVC ELCODE* 7334

Survey date: 8/6/04 **Surveyors initials:** CWN / EKL

Tagged tree is a Fraxinus penn. of 45 cm dbh with tag # 372. GPS point ~~Center~~ of ~~10~~ x 50m plot is at a bearing of 158° degrees and 5 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker): Just South of ~~Mile~~ Mile Marker 408

Just N. of Duck River, take exit to John Gordon Historic House. Walk trail E, past historic house, follow sign to Duck River & Gordon Ferry (1/2 mi), past "closed" sign, to cross stream (foot-bridge in disrepair 2004). Continue ±S to river's edge. Plot is SW-facing bank.

Jason of the Landscape Maintenance Mowing crew helped us with directions to the river. [He lives on 20 toward Hohenwald]

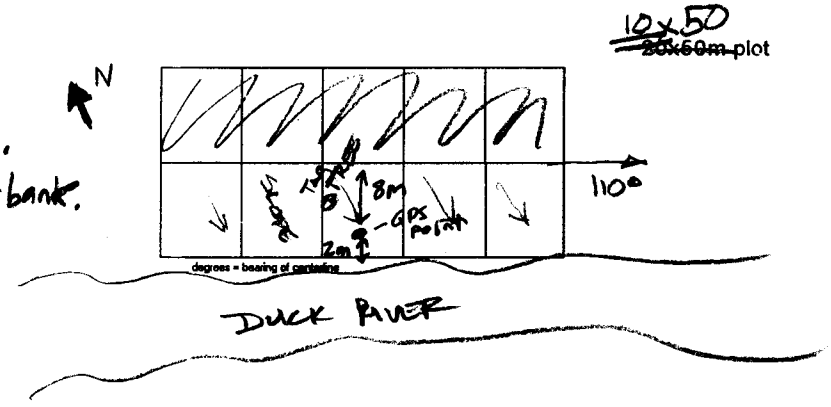
Time taken to walk to plot: 15 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)

GPS point is not at center of 10x50m plot. It is 2m from Riverbank.



Est. Extent of occurrence of community:
< 1HA 1-10 HA 10-100HA > 100HA

PIC # 17-20 Description of pictures (N,E,S & W from GPS point at middle of plot) : _____

Select one: UTM OR Lat/long (if lat/long) then values are 35.71703 N -87.26006 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) was 84 ~~NAD 83~~ OR NAD27 ~~UTM Zone: 15 16~~

GPS Unit ID _____ GPS file name NT129 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 516 m / (ft)

Averaging performed (at least 120 observations)? Coordinate accuracy 7 (m) ft DOP # sats 5

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ **Park:** NATR VICK **Plot Code:** NT 129 **State:** AL MS TN **Location org:** NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 8 ° ____ %

__ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
✓ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

__ Flat	__ SE 113-157 °
__ Variable	__ S 158-202 °
__ N 338-22 °	✓ SW 203-247 °
__ NE 23-67 °	__ W 248-292 °
__ E 68-112 °	__ NW 293-337

Topographic Postion

__ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope ✓ Low level (terrace)
✓ Lowslope (lower/footslope) __ Channel bed

Cowardin System

__ *Upland* ✓ *Palustrine*
__ *Estuarine* __ *Lacustrine* __ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
✓ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded ✓ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded __ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

Temp' flooded river bank

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:

__ Sand __ Peat ✓ Silt loam __ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock	20 % Litter, duff	____% Other _____
____% Large rocks (cobbles, boulders >10cm)	____% Wood (> 1 cm)	
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	80 % Bare soil	

Leaf type:

✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
Mixed

Leaf phenology (dominant stratum)

__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	✓ Hydrologic
_ erosion	✓ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
_ dogwood anthr	_ ORV	

Disturbance and animal use comments:

NPS GULF COAST PROJECT: Plot *Sampling Form* 8/16/04 Page 3

County: Maury Park: NATR VICK Plot Code: NT129 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	PLATOCC ACERSACCARINUM ACERNEG	.5-1m	10%
Understory T3	15-20m	40%	ACERSACCARINUM ACER NEG	1-2m	20%
Tall shrub S1	2-5m	10%	ARUNGIG	2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous	.5-1m	70%	CHASLAT ASTER DUM? IRESINE RHIZ. PRAEL? LEERVIR	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	6	4	4						6	PLATOCC		
	6	6							6	ACERSACCHARINUM		
	5									ULMVAME		
	6	6							6	ACER NEGVNDO		
					4					POLYGONUM VIR		
			5							ARUNGIG		
		4	4						4	CELTLAE		
					3					LAPOCAN		
							5			PARTQUE		
					6					CHASLAT		
				3						SMILHIS		
		4								FRAXPEN		
					6					~~SOLIDAGO SP.~~ ASTER DUM?	V	
					3					ELYMUS SP.		
					6					LEERVIR IRESINE RHIZ.		
					6					[redacted]		
					1					PILEA PUMILA		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:____________ **Park:** (NATR circled) VICK **Plot Code:** NT 129 **State:** AL MS (TN circled) **Location org:** NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?
							3			TOXIRAD		
					2					VERBALT		
					2					VIOLA ~~[illegible]~~ SOR		
					2					CYNA LAE ([illegible])		
					1					PHLOX PANICUL. (per MILO)	✓	

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team EKL 8CWN, Plot NT130.

Annotated by: CWN

Annotation Date (D-M-Y): 8/6/04

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
7179	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Maury Park: NATR VICK Plot Code: NT130 State: AL MS TN Location org: NPS

Provisional community name _____

Classified community name Pinus taeda Planted Forest
Classifyer CWN *Date* 8/6/04 *NVC ELCODE* 7179

Survey date: 8/6/04 **Surveyors initials:** CWN & EKL

Tagged tree is a Pinus taeda of 38 cm dbh with tag # 374. Center of 20 x 50m plot is at a bearing of 20° degrees and 1.5 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

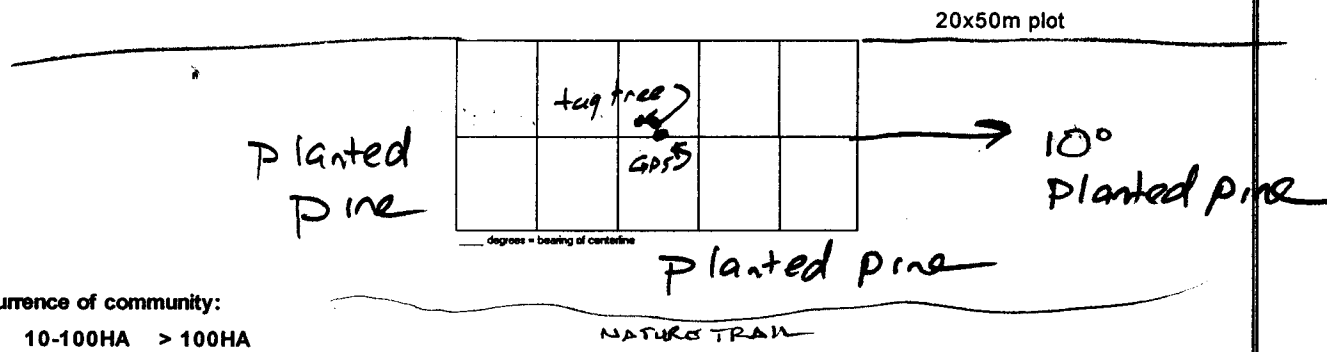
Just past jct. Hwy 7 and Natchez Trace (MILE 415.9) on east side; plot runs along edge of ~~Pine~~ Mowed area in planted pine.
Between NT and nature trail (Liriodendron tulipifera sign)

Time taken to walk to plot: 2 min

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 21-24 Description of pictures (N,E,S & W from GPS point at middle of plot) : N E S W

Select one: ~~UTM~~ OR Lat/long (If lat/long, then values are 35.80289 N -87.18681 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD 83 OR NAD27~~ WGS 84 UTM Zone: ~~15 16~~

GPS Unit ID _____ GPS file name NT130 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 822 m (ft) GPS

Averaging performed (at least 120 observations)? Coordinate accuracy 6 m / ft DOP # sats

County:_____ Park: NATR VICK Plot Code:_____ State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope _____ ° ____ %

__ Flat	0 °	0 %
✓ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

__ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	✓ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion
__ Interfluve (Ridge/summit/crest) __ Toeslope
✓ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System
✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	✓ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	✓ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)
✓ Not a wetland (Upland: XERIC / DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Planted mature loblolly pine

Soil Texture:
__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam ✓ Loam __ Clay loam __ Clay

Drainage:
__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock	100 % Litter, duff	____% Other _____
____% Large rocks (cobbles, boulders >10cm)	____% Wood (> 1 cm)	
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
__ Broad-leaved
✓ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)
✓ Evergreen
__ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
✓ dogwood anthr	_ ORV	

Disturbance and animal use comments:

Planted pine –

County: MAURY Park: NATR VICK Plot Code: NT130 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	80%	PINUTAE	.5-1m	10%
Understory T3	5-10m	50%	ACERRUB OXYDARB	1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous				10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	8									PINUTAE		
		6								ACERRUB		
		6								OXYDARB		
		4	4						4	FAGUGRA		
			5							CORNFLO (dying)		
				3						ACERSACCHARUM		
				2						QUERRUB		
				2						VACC STAM		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:____________ Park: NATR VICK Plot Code:_______ State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?

Use bottom of this sheet or additional pages for other species in 1 ha plot

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent

T2: Tree Can

T3 Subcanopy

S1 Tall Shrub (>1m; to 5m)

S2 Short Shrub (< 1m)

H Herbaceous

N Nonvascular

V Vines (lianas)

E Epiphytes

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team AS & CWN, Plot NT131

Annotated by: CWN

Annotation Date (D-M-Y): 9/22/2004

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
7225	2	M		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: (NATR) VICK Plot Code: NT131 State: (AL) MS TN Location org: (NPS)

Provisional community name_____

Classified community name Quercus alba - Carya glabra - Carya alba / Aesculus pavia Forest
Classifyer CWN *Date* 9/23/2004 NVC ELCODE 7285

Survey date: 8/16/2004 **Surveyors initials:** A. Schotz & CWN

Tagged tree is a white oak of 52 cm dbh with tag # 373. Center of 20 x 50m plot is at a bearing of 33° degrees and 5.5 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

2.0 km (1.2 mi) SW 210° from Mile Marker 320 (GPSed).

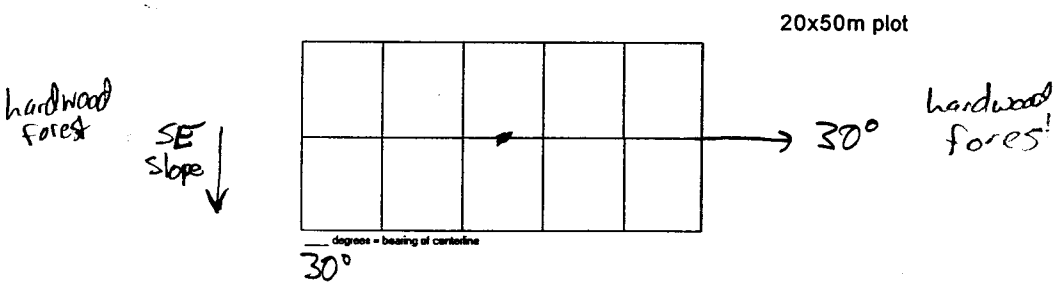
Down slope about 15 meters SE of edge of mowed bank of NT Parkway.

Time taken to walk to plot: 3 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___✓NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

small stream bed

PIC # 1-4 **Description of pictures (N,E,S & W from GPS point at middle of plot) :**

1(N), 2(E), 3(S), 4(W)

Select one: UTM OR (Lat/long) (If lat/long, then values are 34.73723 N 088.03736 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) **Datum(pick one)** ~~NAD 83 OR NAD27~~ WGS 84 **UTM Zone:** ~~15 16~~

GPS Unit ID _____ **GPS file name** NT131 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E **Y** _____ m N **Elevation** 626 m (ft) GPS

Averaging performed (at least 120 observations)? 216 **Coordinate accuracy** 5.8 m / ft **DOP** **# sats** 4

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ **Park:** MATR VICK **Plot Code:** NT131 **State:** AL MS TN **Location org: NPS**

ENVIRONMENTAL / SITE INFORMATION

Measur[redacted]	°	%
__ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 120 ° (N=0 °)

__ Flat		✓ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion
_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
✓ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System
_ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	✓ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present: conglomerate and limestone

Hydrologic Regime (check only for wetlands)
__ Not a wetland (Upland: XERIC (DRY - MESIC) : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Old road bed goes more or less along transect, parallel to NT. Shrubs of Ulmus alata and Cercis canadensis dominate along old roadbed.

Soil Texture:
__ Sand __ Peat ✓ Silt loam __ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:
__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

1 % Bedrock	90 % Litter, duff	____ % Other _____
5 % Large rocks (cobbles, boulders >10cm)	2 % Wood (> 1 cm)	
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % Sand (0.1-2 mm)	2 % Bare soil	

Leaf type:
✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	✓ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
✓ dogwood anthr	ORV	

Disturbance and animal use comments:

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ **Park:** (NATR) VICK **Plot Code:** NT131 **State:** (AL) MS TN **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	QUER ALB QUERSTE CARYOVA	.5-1m	10%
Understory T3	10-15m	50%	QUER ALB	1-2m	20%
Tall shrub S1	2-5m	30%	ILEXDEC ULMUALA	2-5m	30%
Short shrub S2	.5-1m	40%	CERCCAN TOXIRAD	5-10m	40%
Herbaceous	<.5	20%	AMPHBRA SOLIULM DIOSVIL	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

***T1:** Emergent \ **T2:** Tree Canopy \ **T3** Subcanopy \ **S1** Tall Shrub (>1m; to 5m) \ **S2** Short Shrub (< 1m) \ **H** Herbaceous \ **N** Nonvascular \ **V** Vines (lianas) \ **E** Epiphytes*

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	6		2						6	Quercus stellata		
			2							Ostrya virginiana		
		4								Acer rubrum		
					2					Dichanthelium dasci		
			5							Ilex decidua		
			5	3					5	Ulmus alata		
					2					Coreopsis major		
				2						Nyssa sylvatica		
			3							Carya alba		
			4	4					5	Cercis canadensis		
					2					Aster shortii		
					2					Solidago caesia		
					2					Helianthus divaricatus		
					3					Solidago ulmifolia		
							3			Vitis rotundifolia		
		4		2					4	Fraxinus americana		
				2			2		2	Parthenocissus quinquefolia		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: _____ **Park:** (NATR) VICK **Plot Code:** NT131 **State: AL MS TN** **Location org: NPS**

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
			3	2					3	Prunus serotina		
				1						Rosa carolina		
					2					Phanopyrum leptostachya		
				2						Rhus copallina		
					2					Phlox divaricata		
					2					Aristolochia serpentaria		
					2					Bignonia capreolata		
					3					Dioscorea villosa		
			3	2					3	Viburnum rufidulum		
				4			3		4	Toxicodendron radicans		
		4		2					4	Quercus prinus		
	4									Carya glabra		
				3						Smilax rotundifolia		
					2					Smilacina racemosa		
	7	5		3					7	Quercus alba		
	3									Pinus taeda		
	5									Carya ovata		
				2						Quercus rubra		
				3						Rhus aromatica		
					2					Salvia urticifolia		
				2						Celtis tenuifolia		
			3	3					3	Crataegus sp.		
			2							Cornus florida		
					2					Clitoria mariana		
		4								Liquidambar styraciflua		
					2					Euphorbia mercurialina		
					4					Amphicarpa bracteata		
					2					Desmodium paniculatum		
					1					Ruellia humilis		
							2			Vitis aestivalis		
					2					Desmodium nudiflorum		
			2							Quercus velutina		
					2					Polystichum acrostichoides		
			3							Vaccinium arboreum		
				2						Diospyros virginiana		

Use bottom of this sheet or additional pages for other species in 1 ha plot

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ **Park: NATR VICK Plot Code:** VT131 **State: AL MS TN Location org: NPS**

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
				2					2	Sassafras albidum		
					1				1	Polygonatum biflorum		
					2				2	Chimaphila maculata		
					1				1	Asplenium platyneuron		
					2				2	Trillium cuneatum		
					2				2	Desmodium rotundifolium		
					1				1	Viola pedata		
					1				1	~~Trillium~~ Phlox amoena		
					2				2	Sicyos angulata		
					1				1	Dichanthelium dichotomum		
							2		2	Smilax bona-nox		
			3						3	Morus rubra		
					2				2	Sanicula canadensis		
					1				1	Asteraceae		
					2				2	Spigelia marilandica		
					2				2	Piptochaetium avenaceum		
					2				2	Carex spp. cf. blanda		
					2				2	Agrimonia rostellata		
					1				1	Asclepias variegata		
				2					2	Symphoricarpos orbiculatus		
					2				2	Antennaria plantaginifolia		
					1				1	Passiflora lutea		
					2				2	Elephantopus tomentosus		
					1				1	Matelea sp.		
					1				1	Viola sororia		
					1				1	Botrychium virginianum		
					1				1	Carex sp.		
					2				2	Pote sim		
					1				1	Brac ere		
			4						4	Styr gra		
					1				1	Tril cun		
					2				2	Lith hir		
					2				2	Heli micro		
	5								5	Quer coc		
					1				1	Galium circaezans		

Cover classes	
1.	trace
2.	0.1-1%
3.	1-2%
4.	2-5%
5.	5-10%
6.	10-25%
7.	25-50%
8.	50-75%
9.	75-95%
10.	>95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

County:_____ Park: NATR VICK Plot Code: NT131 **State: AL MS TN Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	**5%**
Tree Canopy T2				.5-1m	**10%**
Understory T3				1-2m	**20%**
Tall shrub S1				2-5m	**30%**
Short shrub S2				5-10m	**40%**
Herbaceous				10-15m	**50%**
Non-vascular				15-20m	**60%**
Vine/liana				**20-35m**	**70%**
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				**35-50m**	**80%**
				>50m	**90%**
					100%

***T1:** Emergent \ **T2:** Tree Canopy \ **T3** Subcanopy \ **S1** Tall Shrub (>1m; to 5m) \ **S2** Short Shrub (< 1m) \ **H** Herbaceous \ **N** Nonvascular \ **V** Vines (lianas) \ **E** Epiphytes*

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: (NATR) VICK Plot Code: NT132 State: (AL) MS TN Location org: NPS

Provisional community name Pinus echinata – Quercus stellata

Classified community name Pinus echinata – Quercus stellata (Quercus marilandica) Forest

Classifyer CWN Date 4/4/2007 NVC ELCODE CEGL004053

Survey date: 8/16/2004 **Surveyors initials:** A. SCHOTZ & CWN

Tagged tree is a shortleaf pine of 27 cm dbh with tag # 349. Center of 20 x 50m plot is at a bearing of 200° degrees and 0.5 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

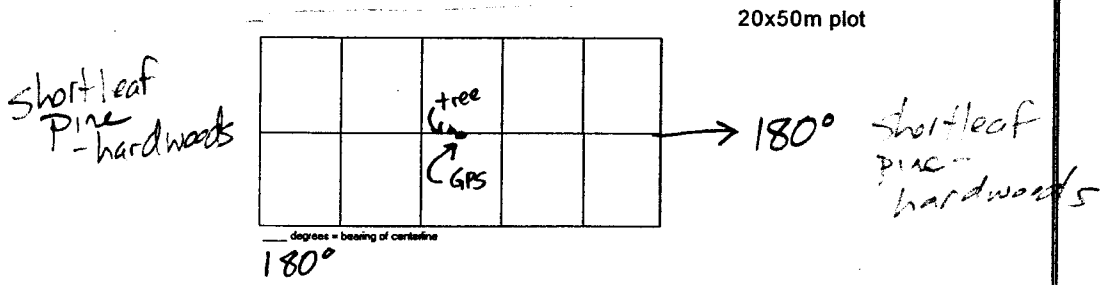
2.66 Km (1.5 mile) SW at 210° from Milemarker 320 on NT. Up bank on W. side of NT Parkway to top.

Time taken to walk to plot: 2 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___✓NO - If not, depict below)

PLOT LOCATION (Below show general plot location) Roadside of Natchez Trace



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 5-8 **Description of pictures (N,E,S & W from GPS point at middle of plot) :**_____

Select one: UTM OR (lat/long) (If lat/long, then values are 34.73230° N 088.04144° W

WGS 84

GPS Techniques/Equipment: Garmin III+ (Garmin V) **Datum(pick one)** ~~NAD 83~~ OR NAD27 **UTM Zone:** ~~15 16~~

GPS Unit ID _____ **GPS file name** NT132 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N **Elevation** 764 m / ft

Averaging performed (at least 120 observations)? 155 **coordinate accuracy** 6.6 m / ft **DOP** _____ **# sats** 5

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: (NATR) VICK Plot Code: NT132 State: (AL) MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope _____ ° ____ %

__ Flat	0 °	0 %
✓ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

__ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	✓ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion
✓ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System
✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	✓ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	Nose slope	Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)
✓ Not a wetland (Upland: XERIC (DRY) MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Some Fire

Soil Texture:
__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam ✓ Loam __ Clay loam __ Clay

Drainage:
✓ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
__ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock	96 % Litter, duff	____% Other _____
____% Large rocks (cobbles, boulders >10cm)	4 % Wood (> 1 cm)	
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
__ Broad-leaved
✓ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
__ Cold-deciduous
__ Drought-deciduous
✓ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	✓ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
✓ dogwood anthr	ORV	

Disturbance and animal use comments:

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Calhoun **Park:** (NATR) VICK **Plot Code:** NT132 **State:** (AL) MS TN **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20	50%	Pinus echinata - 50%	.5-1m	10%
Understory T3	10-15m	50%	Quercus marilandica - 20%, Quercus prinus - 10%, Quercus velutina - 10%	1-2m	20%
Tall shrub S1	2-5m	60%	Nyssa sylvatica - 20%	2-5m	30%
Short shrub S2	.5-1m	40%	Nyssa sylvatica - 10%	5-10m	40%
Herbaceous	—	—	no herbs detected	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	10%	Smilax rotundifolia - 5%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

***T1:** Emergent \ **T2:** Tree Canopy \ **T3** Subcanopy \ **S1** Tall Shrub (>1m; to 5m) \ **S2** Short Shrub (< 1m) \ **H** Herbaceous \ **N** Nonvascular \ **V** Vines (lianas) \ **E** Epiphytes*

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	7								7	Pinu ech		
		4							4	Quer ste		
		6	5						6	Quer mar		
		5	6	3					7	Nyss syl		
			5	4					5	Vacc arb		
			5	3					5	Corn flo		
			4	2					4	Prun ser		
		5		2					5	Quer pri		
	5	3							6	Quer cuc		
		4	4	3					5	Cary pal		
				2					2	Quer rub		
			3						3	Juni vir		
			3	3					4	Dios vir		
							2		2	Smil gla		
							4		4	Smil rot		
		4	3	3					5	Cary gla		
			3	3					4	Sass alb		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert **Park:** (NATR) VICK **Plot Code:** NT132 **State:** (AL) MS TN **Location org: NPS**

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
		5	4	3					6	Quer vel		
							3		3	Viti sot		
				1					1	Rosa car		
							2		2	Toni jap		
				2					2	Vacc pal		
				1					1	Acer rub		
				2					2	Ilex dec		
				2					2	Rhus aro		

Cover classes	
1.	trace
2.	0.1-1%
3.	1-2%
4.	2-5%
5.	5-10%
6.	10-25%
7.	25-50%
8.	50-75%
9.	75-95%
10.	>95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: NATR VICK Plot Code: NT133 State: AL MS TN Location org: NPS

Provisional community name Quercus Prinus Forest

Classified community name Quercus prinus – Carya spp. – Quercus velutina / Vaccinium arboreum / Iris verna var. smalliana Forest

Classifyer CWN *Date* 9/13/2004 *NVC ELCODE* 7261

Survey date: 8/16/04 **Surveyors initials:** AL SCHOTZ & CWN

Tagged tree is a Winged elm of 18 cm dbh with tag # 348. Center of 20 x 50m plot is at a bearing of 45° degrees and 3 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

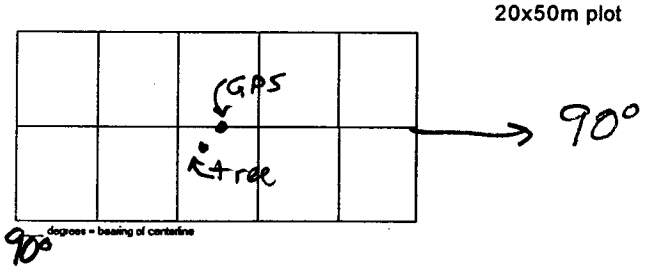
Mile 315.8 (1.4 km NE of Mile Marker 315 by GPS)
South side of Natchez Trace Parkway

Time taken to walk to plot: 2 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA (1-10 HA) 10-100HA > 100HA

PIC # 9-12 Description of pictures (N,E,S & W from GPS point at middle of plot) :_____

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 34.70125° N 088.03989° W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD 83 OR NAD27~~ WGS 84 ~~UTM Zone: 15 16~~

GPS Unit ID _____ GPS file name NT133 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 705 m (ft) GPS

Averaging performed (at least 120 observations)? Coordinate accuracy 7 m / ft DOP # sats 5

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: NATR VICK Plot Code: MT133 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope _____ ° ____ %

__ Flat	0 °	0 %
✓ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

__ Flat		__ SE	113-157 °
✓ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion
✓ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System
✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat
__ Alluvial terrace
__ Bald
__ Bank
__ Bar
__ Bench
__ Bottomlands
__ Cliff
__ Cove
__ Depression
__ Draw
__ Exogenous dome
__ Floodplain
__ Gap
__ Gorge
__ Hillslope bedrock outcrop
__ Midslope
__ Nose slope
✓ Ridge
__ Ridgetop bedrock outcrop
__ Saddle
__ Seep
__ Toe slope
__ Slope
__ Streambed
__ Streamhead
__ Periglacial boulderfield
__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)
✓ Not a wetland (Upland: XERIC : DRY : MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Some canopy gaps are present

Soil Texture:
__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam ✓ Loam __ Clay loam __ Clay

Drainage:
__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock	97 % Litter, duff	____% Other _____
____% Large rocks (cobbles, boulders >10cm)	3 % Wood (> 1 cm)	
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
✓ dogwood anthr	ORV	

Disturbance and animal use comments:

pines have fallen down years ago. Stumps and rotting logs remain.

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert **Park:** (NATR) VICK **Plot Code:** NT133 **State:** (AL) MS TN **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
			OK		
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35	80%	Quercus prinus - 65%	.5-1m	10%
Understory T3	15-20	50%	[redacted], Prunus serotina - 10%	1-2m	20%
Tall shrub S1	2-5m	30%	Nyssa sylvatica - 10%	2-5m	30%
Short shrub S2	.5-1m	40%	Nyssa sylvatica - 5%, Vaccinium pallidum - 5%	5-10m	40%
Herbaceous	–	–	herbs very sparse	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana	–	20%	Smilax rotundifolia - 5%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

***T1:** Emergent \ **T2:** Tree Canopy \ **T3** Subcanopy \ **S1** Tall Shrub (>1m; to 5m) \ **S2** Short Shrub (< 1m) \ **H** Herbaceous \ **N** Nonvascular \ **V** Vines (lianas) \ **E** Epiphytes*

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
		4	3	2					4	Cary ala		
		5		2					5	Quer alb		
			2	1					2	Crat sp.		
			5	4					6	Nyss syl		
	8	4	3	2					8	Quer pri		
		5	3	1					5	Prun ser		
			3	1					3	Dios vir		
				4					4	Vacc pal		
							4		4	Smil rot		
		4	3	2					4	Ulmu ala		
			4						4	Quer vel		
				2					2	Quer rub		
			4	3					4	Cary alb		
					1				1	Clit mar		
			4	3					4	Vacc arb		
				2					2	Sass alb		
							2		2	Viti aes		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert **Park:** (NATR) VICK **Plot Code:** NT133 **State:** (AL) MS TN **Location org: NPS**

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
							3		3	Smil gla		
							2		2	Viti rot		
		4							4	Juni vir		
							2		2	Part qui		
							2		2	Dios vil		
							1		1	Toxi rad		
				2					2	Vacc sta.		
	5								5	Quer coc		
				1					1	Rhus copa		
					2				2	Dich dic		
				1					1	Amel arb		
					1				1	Eric hir		
		4							4	Pinu ech		
				1					1	Crat spa		
			2						2	Ilex dec		
				1					1	Acer rub		
				1					1	Fran car		
				1					1	Liri tul		
					1				1	Dant spi		
							1		1	Smil bona		
		5								Quer alb		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team _____, Plot NT 134

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 22 2004

****

Method of assignment:

- ☑ inspection
- ☐ multivariate
- ☐ tabular analysis
- ☐ expert system

Ecoregion 43 in Alabama

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
~~7240~~				
~~7699~~	2	M		lacks oaks (nearly completely)
→ ✓ 4745	2	M		Lacks beech, but otherwise fits this description well.

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NT134 State: (AL) MS TN Location org: NPS

Provisional community name _____

Classified community name Fagus grandifolia - Carya spp. / (Acer negundo, Magnolia macrophylla, Tilia americana var. heterophylla Temp. Flooded forest
Classifyer CWN Date 9/22/2004 NVC ELCODE 4745

Survey date: 8/16/2004 **Surveyors initials:** Al Schotz & CWN

Tagged tree is a cedar of 39 cm dbh with tag # 347. Center of 20 x ~~50~~ 40m plot is at a bearing of 240 degrees and _____ m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

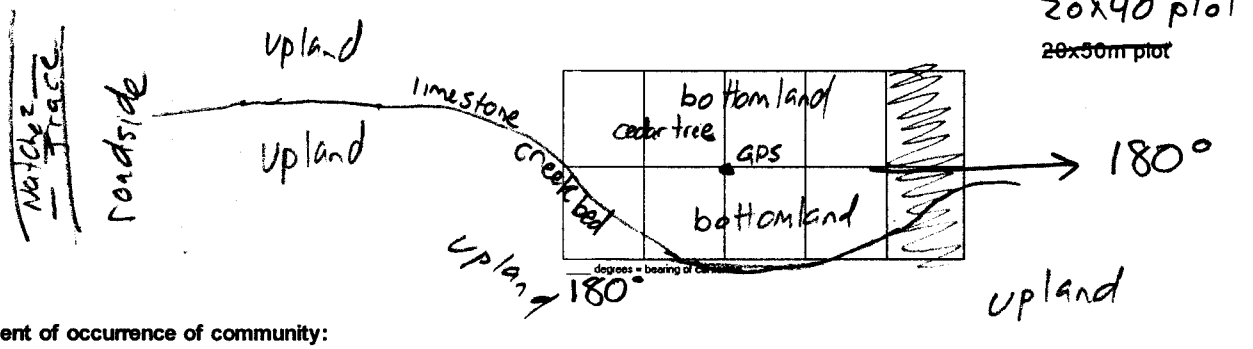
Vicinity of mile 313, S side of NT walk up limestone creekbed until floodplain widens.

Time taken to walk to plot: 5 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x ~~50~~ 40m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 13-16 Description of pictures (N,E,S & W from GPS point at middle of plot) : _____

Select one: ~~UTMs~~ OR (Lat/long) (If lat/long, then values are 34.67781° N -088.08231° W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD 83 OR NAD27~~ WGS 84 UTM Zone: ~~15 16~~

GPS Unit ID _____ **GPS file name** NT134 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N **Elevation** 481 m / (ft) GPS

Averaging performed (at least 120 observations)? **Coordinate accuracy** 7.0 m / ft **DOP** **# sats** 4

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: MT134 State: (AL) MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

__ Flat	0 °	0 %
✓ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

__ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
✓ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

__ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope ✓ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

__ *Upland* ✓ *Palustrine*
__ *Estuarine* __ *Lacustrine* __ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
✓ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded ✓ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

Floods after heavy rains

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam ✓ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained ✓ Somewhat poorly drained
__ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

3 % Bedrock (stream bed)	64 % Litter, duff	____ % Other _____
____ % Large rocks (cobbles, boulders >10cm)	3 % Wood (> 1 cm)	
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % Sand (0.1-2 mm)	30 % Bare soil	

Leaf type:

__ Broad-leaved
✓ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
__ Cold-deciduous
__ Drought-deciduous
✓ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	✓ exotic plants	_ Fire Suppression
dogwood anthr	ORV	

Disturbance and animal use comments:

Microstegium vimineum

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NT134 State: (AL) MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20	60%	Carya carolinae-septentrionalis - 30% Juniperus virginiana - 20%	.5-1m	10%
Understory T3	5-10m 10-15m	40%	Juniperus virginiana - 10%	1-2m	20%
Tall shrub S1	1-2m 2-5m	60%	Ostrya virginiana - 10%	2-5m	30%
Short shrub S2	.5-1m	30%	—	5-10m	40%
Herbaceous	—	90%	Chasmanthium sessiliflorum - 60%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	20%	Lonicera japonica - 5%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	6	5	4						7	Juni vir		
		4							4	Moru rub		
		4							4	Tili amer var. heter		
	5	4	3						6	Cary gla		
	6		3						6	Cary. Car		
				1					1	Cary cor		
			3	2					3	Fraxamer		
			4	3					4	Cerc can		
			4						4	Celt lae		
			5	3					5	Ostr vir		
			4	2					4	Ilex dec		
					8				8	Chas ses		
							4		4	Loni jap		
					2				2	Geum can		
				2					2	Quer rub		
					2				2	Soli fla		
					4				4	Dich bos		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NT34 State: (AL) MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					2					Dios vil		
					4					Verb occ		
				2			2		3	Part qui		
					2					Carex sp.		
			2							Acer bar		
			4							Ulmu ala		
					2		2		2	Bign cap		
					2					Rubb tri		
					3					Brom pur pubescens ✓		
					[redacted]					[redacted] Cirsium sp. ✓		
					3					Micr vim		
					1					Sani can		
					1					Trag cor		
				1						Senna sp.		
					2					Aspl pla		
					2					Smil rac		
				2						Rhus aro		
					1					Erig str		
					4					Chas lat		
					2					Soli rug		
					1					Bide fro		
		2								Quer mue		
					2					Eupa per		
				2						Euon ame		
					1					Aris tri		
					2					Poly acr		
				2						Hypericum sp.		
							3			[redacted] Trac dif ✓		
					2					Heli hir		
					1					Aris ser		
				2			2		3	Toxi rad		
					2					Aste lat		
					1					Silp tri var lat		
				2						Rubu arg		
					2					Core aur		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert **Park:** (NATR) VICK **Plot Code:** NTB4 **State:** (AL) MS TN **Location org:** NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					1				1	Dode mea		
					2				2	Spig mur		
					1				1	Clem set		
					1				1	Ruellia sp.		
							3		3	Viti rot		
					1				1	Ipom pan		
				1					1	Sass alb		
				1	1				1	Solv lyr		
							3		3	Ampe arb		
				1					1	Vacc arb		
					1				1	Pote sim		
							3		3	Berc sca		
	5								5	Ulmu ame		
					2				2	Hele aut		
					1				1	Mikania sca		
					1				1	Matelea sp.		
					3				3	Trac dif		
					2				2	[illegible] ? Eupa coe ?	Gono Coe	
					2				2	Blep cil		
					1				1	Mant vir		
					2				2	Lith tub		
							2		2	Smil bon		
								2	2	Pleo poly var. mich		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NT135 State: (AL) MS TN Location org: NPS

Provisional community name Successional shrubland (deciduous)

Classified community name Shrublands NLCD #51

Classifyer CWN *Date* _____ *NVC ELCODE* _____

Survey date: 8/16/04 **Surveyors initials:** AL SCHOTZ & CWN

Tagged tree is a No tag tree of ____ cm dbh with tag #_____. Center of 20 x 50m plot is at a bearing of ____ degrees and ____ m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

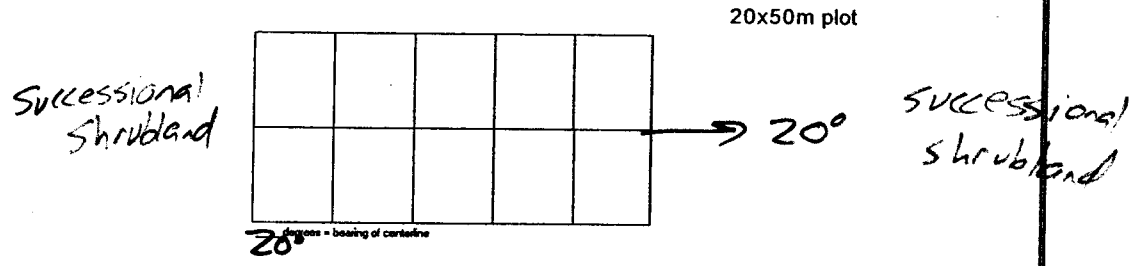
About 70m N. of MM 312 on East side of road, slope.

Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES _✓_NO - If not, depict below)

PLOT LOCATION (Below show general plot location) mowed roadside



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA forest

PIC # 17-20 Description of pictures (N,E,S & W from GPS point at middle of plot) : _____

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 34.66791° N -088.08782° W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum~~(pick one)~~ WGS 84 ~~NAD 83 OR NAD27~~ ~~UTM Zone: 15 16~~

GPS Unit ID _____ GPS file name NT135 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 581 m (ft) GPS

Averaging performed (at least 120 observations)? 253 Coordinate accuracy 6 m / ft DOP 5 # sats

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: NATR VICK Plot Code: NT135 State: (AL) MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

__ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
✓ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

__ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	✓ NW	293-337

Topographic Postion

_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	✓ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

✓ Not a wetland (Upland: XERIC (DRY - MESIC) : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

successional, probably was contoured for NT parkway construction.

Soil Texture:

__ Sand __ Peat ✓ Silt loam __ Muck
__ Sandy loam __ Loam ✓ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
55% Litter, duff
____% Wood (> 1 cm)
____% Water
30% Bare soil
15% Other moss

Leaf type:

✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

__ Forest (closed tree canopy)
__ Woodland (open tree canopy)
✓ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
dogwood anthr	ORV	

Disturbance and animal use comments:

successional along embankment or hillside upslope from NT parkway

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert **Park:** (NATR) VICK **Plot Code:** NTI35 **State:** (AL) MS TN **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3	5-10m	40%	Ulmus serotina - 30%	1-2m	20%
Tall shrub S1	2-5m	10%	Acer negundo - 10%	2-5m	30%
Short shrub S2	<.5-1m	30%	Toxicodendron radicans - 10	5-10m	40%
Herbaceous	–	80%	Rudbeckia triloba - 40%, Lespedeza cuneata - 30%	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana	–	5%	Lonicera japonica - 5%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
			5	3					5	Acer neg		
		4	4	1					5	Juni vir		
		6	4	3					6	Ulmu ser		
					7				7	Rudb tri		
					6				6	Soli alt		
					7				7	Lesp cun		
				5					5	Toxi rad		
		4	3						4	Ulmu ala		
			3	3					4	Frax ame		
					5				5	Soli can		
			4	3					4	Cerc can		
					5				5	Amor art		
					3				3	Geum can		
					3				3	Carex sp.		
					2				2	Fest ela		
				1					1	~~Lact tri~~ Galium triflora		
							3		3	Loni jap		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert **Park:** (NATR) VICK **Plot Code:** NT135 **State:** (AL) MS TN **Location org: NPS**

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					4				4	Verb vir		
			3	2					3	Celt ten		
			2	3					3	Rhus copa		
					2				2	Cony can		
				3					3	Ligu sin		
				1					1	Carya ala		
					1				1	Red Rum		
				1					1	Acer bar		
					1				1	Tray cur		
					1				1	Rub Wasey		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NT136 State: (AL) MS TN Location org: NPS

Provisional community name _____

Classified community name Paspalum notatum herbaceous Vegetation

Classifyer CWN *Date* 8/17/04 *NVC ELCODE* 47CC

Survey date: 8/17/04 **Surveyors initials:** AL SCHOTZ & CWN

Tagged tree is a No tag tree of ____ cm dbh with tag #_____. Center of 10 x 50m plot is at a bearing of ____ degrees and ____ m from tree.

Directions to tagged tree (including any notes on best access route, and mile marker):

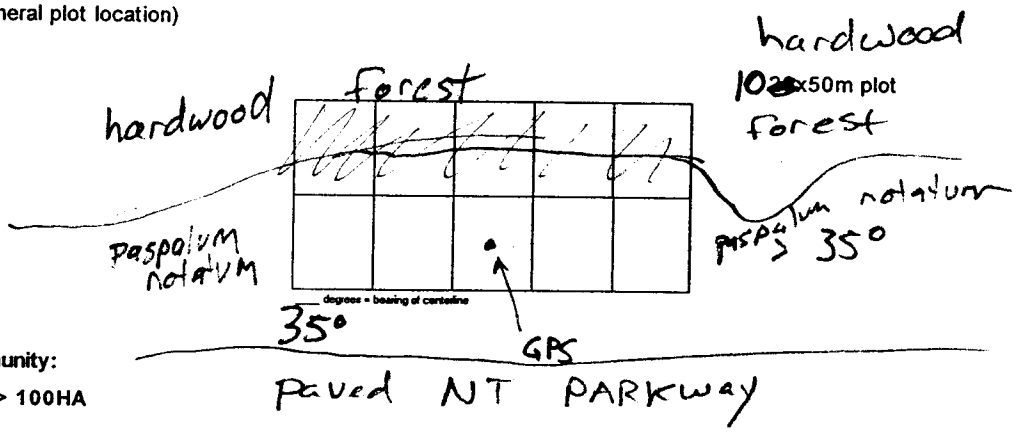
N. side of NT Parkway, in grassy area.

Time taken to walk to plot: 1 minute

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 10 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES _✓_NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 21-24 Description of pictures (N,E,S & W from GPS point at middle of plot) : _____

25 - Paul Davison

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 34.69792 N -088.04707 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD 83~~ OR NAD27 WGS 84 UTM Zone: ~~15~~ ~~16~~

GPS Unit ID _____ GPS file name NT136 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 791 m / (ft) GPS

Averaging performed (at least 120 observations)? Coordinate accuracy 3.8 m / ft DOP # sats 7

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NT136 State: (AL) MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 22 ° ____ %

__ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
✓ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 130 ° (N=0 °)

__ Flat		✓ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

_ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat
__ Alluvial terrace
__ Bald
__ Bank
__ Bar
__ Bench
__ Bottomlands
__ Cliff
__ Cove
__ Depression
__ Draw
__ Exogenous dome
__ Floodplain
__ Gap
__ Gorge
__ Hillslope bedrock outcrop
__ Midslope
__ Nose slope
__ Ridge
__ Ridgetop bedrock outcrop
__ Saddle
__ Seep
__ Toe slope
✓ Slope
__ Streambed
__ Streamhead
__ Periglacial boulderfield
__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

✓ Not a wetland (Upland: XERIC (DRY - MESIC) : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Contoured slope planted in Paspalum notatum Bahia grass

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam ✓ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
40 % Litter, duff
____% Wood (> 1 cm)
____% Water
60 % Bare soil
____% Other _____

Leaf type:

__ Broad-leaved
__ Needle-leaved
__ Microphyllous
✓ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
__ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
✓ Herb - Perennial

Physiognomic Class

__ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
✓ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging _ fire _ Hydrologic
_ erosion ✓ trails/roads _ Agriculture
_ grazing/browsing _ wind/ice damage _ Old Growth
_ pine bark beetle _ exotic plants _ Fire Suppression
dogwood anthr ORV

Disturbance and animal use comments:

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert **Park:** (NATR) VICK **Plot Code:** NT136 **State:** (AL) MS TN **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous		100%	Paspalum notatum - 90%	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

***T1:** Emergent \ **T2:** Tree Canopy \ **T3** Subcanopy \ **S1** Tall Shrub (>1m; to 5m) \ **S2** Short Shrub (< 1m) \ **H** Herbaceous \ **N** Nonvascular \ **V** Vines (lianas) \ **E** Epiphytes*

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
					9				9	Pasp not		
					6				6	Salv lyr		
					2				2	Pseu ob		
					3				3	Dich lax		
					2				2	Erig str		
					2				2	Dich acu		
					4				4	Rumm str		
					2				2	Lesp vio		
					1				1	Diod ter		
					1				1	Carex sp.		
					1				1	Setar par		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

County:_____________ Park: NATR VICK Plot Code:________ State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent

T2: Tree Can

T3 Subcanopy

S1 Tall Shrub (>1m; to 5m)

S2 Short Shrub (< 1m)

H Herbaceous

N Nonvascular

V Vines (lianas)

E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: TISHOMINGO Park: (NATR) VICK Plot Code: NT137 State: AL (MS) TN Location org: NPS

Provisional community name Vitaria appalachiana

Classified community name Hedyotis purpurea var. purpurea - Trichomanes boschianum - Thalictrum mirabile - (Ageratina luciae-brauniae, Solidago altopilosa) Herbaceous Vegetation

Classifyer CWN *Date* 9/13/04 NVC ELCODE 4301

Survey date: 8/17/04 **Surveyors initials:** PAUL DAVISON, AL SCHOTZ, CARL NORDMAN

Tagged tree is a _____ of ____ cm dbh with tag #_____. Center of 20 x 50 m plot is at a bearing of ____ degrees and _____ m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

CAVE SPRING, CAVE OPENING TO SW (OF 2 CAVE OPENINGS) NEAR ALABAMA STATE LINE.

2 x 5 meter area of ledges and overhangs underneath the main overhang. GPSed on tap. THIS VEGETATION IS UNDER OVERHANG.

Time taken to walk to plot: 2 minutes

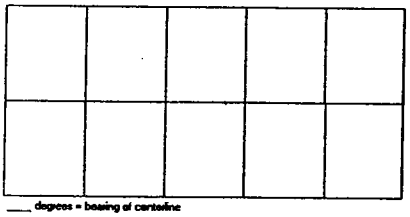
PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50 m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓NO - If not, depict below)

PLOT LOCATION (Below show general plot location)

2x5 m

20x50 m plot



___ degrees = bearing of centerline

Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 28 Description of pictures (N,E,S & W from GPS point at middle of plot) : SW toward cave opening

Select one: ~~UTM OR~~ Lat/long (If lat/long, then values are 34.64311 N -088.14103 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD 83 OR NAD27~~ WGS 84 ~~UTM Zone: 15 16~~

GPS Unit ID _____ GPS file name NT137 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 446 m (ft)

Averaging performed (at least 120 observations)? 2225 Coordinate accuracy 4.1 m / ft DOP # sats ~~8~~ 5

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: NATR VICK Plot Code: NT13 State: ~~AL~~ MS ~~TN~~ Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

__ Flat	0 °	0 %
✓ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

__ Flat	__ SE 113-157 °
✓ Variable	__ S 158-202 °
__ N 338-22 °	__ SW 203-247 °
__ NE 23-67 °	__ W 248-292 °
__ E 68-112 °	__ NW 293-337

Topographic Postion

_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
✓ Lowslope (lower/footslope) __ Channel bed

Cowardin System

✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat
__ Alluvial terrace
__ Bald
__ Bank
__ Bar
__ Bench
__ Bottomlands
__ Cliff
__ Cove
__ Depression
__ Draw
__ Exogenous dome
__ Floodplain
__ Gap
__ Gorge
__ Hillslope bedrock outcrop
__ Midslope
__ Nose slope
__ Ridge
__ Ridgetop bedrock outcrop
__ Saddle
__ Seep
__ Toe slope
__ Slope
__ Streambed
__ Streamhead
__ Periglacial boulderfield
__ Ravine

✓ Cave opening

Rock types present: sandstone

Hydrologic Regime (check only for wetlands)

✓ Not a wetland (Upland: XERIC : DRY - MESIC (MESIC))
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

Stays damp and shaded

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained ✓ Moderately well drained __ Somewhat poorly drained
__ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

70 % Bedrock
____ % Large rocks (cobbles, boulders >10cm)
____ % Small rocks (gravel, 0.2-10 cm)
____ % Sand (0.1-2 mm)
____ % Litter, duff
____ % Wood (> 1 cm)
____ % Water
30 % Bare soil
____ % Other _____

Leaf type:

__ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
✓ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
__ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
✓ Herb - Perennial

Physiognomic Class

__ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
✓ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging _ fire _ Hydrologic
_ erosion _ trails/roads _ Agriculture
_ grazing/browsing _ wind/ice damage _ Old Growth
_ pine bark beetle _ exotic plants _ Fire Suppression
_ dogwood anthr _ ORV

Disturbance and animal use comments:

Dog staying in Cave

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: TISHOMINGO Park: NATR VICK Plot Code: MT137 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2			
Understory T3			
Tall shrub S1			
Short shrub S2			
Herbaceous	<.5m	30%	VITTARIA APPALACHIANA
Non-vascular	<.5m	80%	
Vine/liana			

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
					6					VITTARIA APPALACHIANA (gametophytes)		
						3				LEUCOBRYUM ALBIDUM		
						6				PELLIA APPALACHIANA (NAKED!)		
						3				DIPHYSCIUM CUMBERLANDIANUM		
						6				ATRICUM SP.		
						3				DUMORTIERA HIRSUTA		
						3				SYRRHOPODON TEXANUS		
						3				PELARNEA		
						3				CALAPOGEA		
						3				DIPLOPHYLUM APICULATUM		
						6				FISSIDENS RAVENELII		
						3				TETRODONTIUM		
						3				PHYLANODUS		
						2				FLAKEA PAPALATA (lichen)		
						1				MNIUM SP.		
						2				HOOKERIA		
					2					TRICHOMANES BOSCIANUM (gametophytes)		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: TISH Park: NATR VICK Plot Code: MT137 State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					2	1				TETRODONTIUM BROWNIANUM		
						1				ANOMADON ROSTRATUS		
						1				PALAVICINIA LAVELII		
											ASK DUKE NYBG, MICH ABOUT MISS. COLLECTIONS	

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: TISH Park: (NATR) VICK Plot Code: NT 138 State: AL (MS) TN Location org: NPS

Provisional community name_____

Classified community name Heuchera parviflora var. parviflora - Trichomanes boschianum - Thalictrum mirabile - Herbaceous Vegetation
Classifyer CWN *Date* 9/13/04 *NVC ELCODE* 4301 (Ageratina luciae-braunii, Solidago altopilosa)

Survey date: 8/17/04 **Surveyors initials:** PAUL DAVISON, AL SCHOTZ, CWN

Tagged tree is a NO TAG TREE of ____ cm dbh with tag #_____. Center of 20 x 50m plot is at a bearing of ____ degrees and ____ m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

NE CAVE OPENING AT CAVE SPRING

GPSED ON TOP.

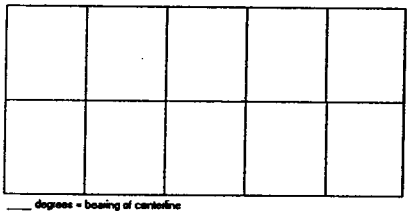
Time taken to walk to plot: 2 MINUTES

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓NO - If not, depict below)

PLOT LOCATION (Below show general plot location)

Not on surface
only under overhang



Est. Extent of occurrence of community:
(<1HA) 1-10 HA 10-100HA > 100HA

PIC # 26, 27 Description of pictures (N,E,S & W from GPS point at middle of plot): direction NE

26 (w/flash) 27 (w/out flash

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 34.64340 N 088.14067 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) __NAD 83 ~~OR NAD27~~__ WGS 84 ~~UTM Zone: 15 16~~

GPS Unit ID _____ GPS file name NT 138 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 445 m / ft (465 GPS - 20 = 445)

Averaging performed (at least 120 observations)? Coordinate accuracy ____ m / ft DOP ____ # sats

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: TISH. Park: (NATR) VICK Plot Code: NT138 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

__ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
✓ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

__ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
✓ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

__ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
✓ Lowslope (lower/footslope) __ Channel bed

Cowardin System

✓ *Upland* __ *Palustrine*
__ *Estuarine* __ *Lacustrine* __ *Riverine*

Landform (check most applicable)

__ Alluvial flat
__ Alluvial terrace
__ Bald
__ Bank
__ Bar
__ Bench
__ Bottomlands
__ Cliff
__ Cove
__ Depression
__ Draw
__ Exogenous dome
__ Floodplain
__ Gap
__ Gorge
__ Hillslope bedrock outcrop
__ Midslope
__ Nose slope
__ Ridge
__ Ridgetop bedrock outcrop
__ Saddle
__ Seep
__ Toe slope
__ Slope
__ Streambed
__ Streamhead
__ Periglacial boulderfield
__ Ravine

✓ cave opening

Rock types present: Sandstone

Hydrologic Regime (check only for wetlands)

✓ Not a wetland (Upland: XERIC : DRY - MESIC (MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

~~WET~~ water standing 5 m downslope from Vegetative opening

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

people used to swim in this cave, below the vegetated area.

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained ✓ Moderately well drained __ Somewhat poorly drained
__ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

70 % Bedrock
____ % Large rocks (cobbles, boulders >10cm)
____ % Small rocks (gravel, 0.2-10 cm)
____ % Sand (0.1-2 mm)
____ % Litter, duff
____ % Wood (> 1 cm)
____ % Water
30 % Bare soil
____ % Other _____

Leaf type:

__ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
✓ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
__ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
✓ Herb - Perennial

Physiognomic Class

__ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
✓ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
dogwood anthr	ORV	

Disturbance and animal use comments:

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: TISH Park: (NATR) VICK Plot Code: MT 138 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2			
Understory T3			
Tall shrub S1			
Short shrub S2			
Herbaceous	<.5m	20%	TRICHOMANES BOSCHIANUM
Non-vascular	<.5m	70%	DUMORTIERA HIRSUTA
Vine/liana			

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
					6					TRICHOMANES BOSHIANUM		
						3				FISSIDENS RAVENELII		
						6				DUMORTIERA HIRSUTA		
						3				SYROPODON TEX		
						3				DIPHISCIUM CUMB		
						3				PHAGIOCHILA PORELOIDES		
						3				COLOPOGEA SP.		
						3				FLAKEA		
						2				HOOKERIA ACUTIFOLIA		
						2				MNIUM SP.		
						3				ANOMADON ROSTRATUS		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NT139 State: (AL) MS TN Location org: NPS

Provisional community name _____

Classified community name Fraxinus pennsylvanica - Ulmus americana - Celtis laevigata / Ilex decidua Forest

Classifyer CWN *Date* 9/13/2004 *NVC ELCODE* 2427

Survey date: 8/17/04 **Surveyors initials:** AL SCHOTZ, CWN

Tagged tree is a Sycamore of 85 cm dbh with tag # 346. Center of 20 x 50m plot is at a bearing of 290° degrees and 3.5 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

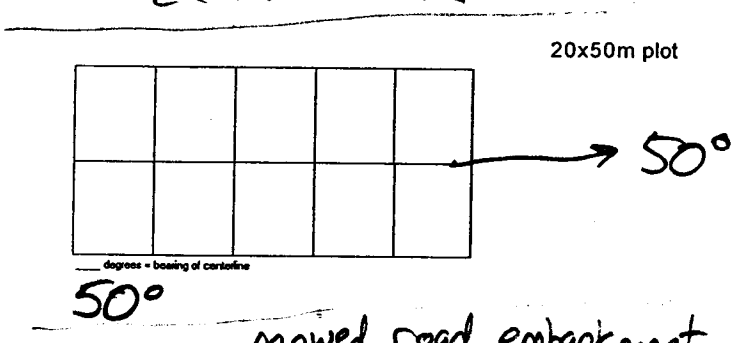
Just E of Mississipi State line on N. side of Natchez Trace Parkway, bottomlands between NT and Cedar Creek, just past (NE of bridge).

Time taken to walk to plot: 3 mintes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 29-32 Description of pictures (N,E,S & W from GPS point at middle of plot): NT Parkway

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 34.64602° N 088.12926° W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD 83 OR NAD27~~ WGS 84 ~~UTM Zone: 15 16~~

GPS Unit ID _____ GPS file name NT139 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 382 m / ft

Averaging performed (at least 120 observations)? Coordinate accuracy 53 m / ft DOP # sats 4

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: NATR VICK Plot Code: NT139 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

__ Flat	0 °	0 %
✓ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

__ Flat		__ SE	113-157 °
✓ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope ✓ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

_ *Upland* ✓ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat
__ Alluvial terrace
__ Bald
__ Bank
__ Bar
__ Bench
✓ Bottomlands
__ Cliff
__ Cove
__ Depression
__ Draw
__ Exogenous dome
__ Floodplain
__ Gap
__ Gorge
__ Hillslope bedrock outcrop
__ Midslope
__ Nose slope
__ Ridge
__ Ridgetop bedrock outcrop
__ Saddle
__ Seep
__ Toe slope
__ Slope
__ Streambed
__ Streamhead
__ Periglacial boulderfield
__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

Bottomland of Cedar Creek, which may be slower flowing due to impoundment of Tennessee River, but this is not clear, map should be looked at.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained ✓ Moderately well drained __ Somewhat poorly drained
__ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
46% Litter, duff
4% Wood (> 1 cm)
____% Water
50% Bare soil
____% Other _____

Leaf type:

✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

✓ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging _ fire _ Hydrologic
_ erosion _ trails/roads _ Agriculture
_ grazing/browsing _ wind/ice damage _ Old Growth
_ pine bark beetle _ exotic plants _ Fire Suppression
_ dogwood anthr _ ORV

Disturbance and animal use comments:

armadillo holes present. This forest used by a variety of wildlife.

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NT139 State: (AL) MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	90%	Fraxinus pensylvanica-30, Celtis laevigata-30%, Ulmus americana-20	.5-1m	10%
Understory T3	15-20m	40%	Fraxinus pensylvanica-10%, Acer negundo-10%, Celtis laevigata-10%, Ulmus americana-10%	1-2m	20%
Tall shrub S1	2-5m	50%	Fraxinus pensylvanica-10%, Acer negundo-10%	2-5m	30%
Short shrub S2	.5-1m	40%	Acer negundo-5%, Sambucus canadensis-5%	5-10m	40%
Herbaceous	—	50%	Microstegium vimineum-5%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	30%	Toxicodendron radicans-10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	6	5	5	3					7	Frax pen		
		5	5	4					6	Acer neg		
				4					4	Samb Can		
				3					3	Jugl nig		
					3				3	Soli gig		
					3				3	Lapo Can		
					3				3	Dicl bra		
	6	5	4	3					7	Celt lae		
							3		3	Smil ben		
					3				3	Elep car		
					3				3	Chas lat		
					2				2	Eupa rug		
					2				2	Care int		
					2				2	Geum can		
			3	2					3	Ligu sin		
							4		4	Pari qui		
							3		3	Camp rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NT139 State: (AL) MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
							5		5	Toxi rad		
				1					1	Quer pag		
					4				4	Micr vir		
					3				3	Elym vir		
					3		2		5	Bign cap		
			3	2					5	Acer bar		
							4		4	Loni jap		
	6	5	3	2					7	Ulmu ame		
							4		4	Smil rot		
					2				2	Vernonia sp.		
	5		3						5	Plat occ		
			v		2				2	Aste lat		
			2	2					5	Quer mic		
					1				1	Carex sp.		
			3	2					5	Quer nig		
				1					1	Juni vir		
					1				1	Sedu ter		
			4						4	Ilex dec		
			3						3	Vibu ruf		
			3						3	Side lyc		
			3	2					5	Ulmu ala		
					1				1	Poly acr		
					2				2	Polygonum Virginianum		
					2				2	Viol aff		
					2				2	Verb occ		
					1				1	Matalea sp		
					3				3	Lact Ala		
	5		3						5	Acer saccharinum		
			3						3	Ligu sty		
							3		3	Berc sca		
							2		2	Viti rot		
			3						3	Carp car		
							3		3	Iris fom		
					2				2	Care che		
					2				2	Comm vir		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert **Park:** (NATR) VICK **Plot Code:** NT139 **State:** (AL) MS TN **Location org: NPS**

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?
							4		4	Smil tam		
					2				2	Phlo amp		
					1				1	Impa cap		
					1				1	Sani can		
					1				1	Clem vir		
							4		4	Cocc car		
					3				3	Ruel str		
					2				2	Cinn asp		
							2		2	Meni can		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NT140 State: (AL) MS TN Location org: NPS

Provisional community name Quercus Falcata...

Classified community name Quercus falcata - Quercus stellata - Carya alba / Vaccinium spp. Coastal Plain Forest
Classifyer CWN *Date* 5/19/2005 *NVC ELCODE* 7246

Survey date: 8/17/2004 **Surveyors initials:** AL SCHOTZ & CWN

Tagged tree is a Quercus falcata f 53 cm dbh with tag # 345. Center of 20 x 50m plot is at a bearing of 60 degrees and 3.5 m from tree.

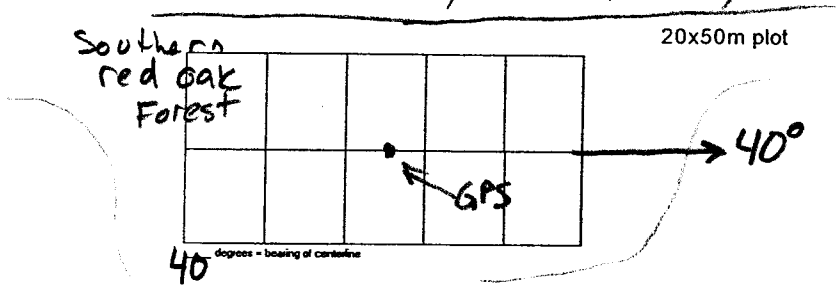
Directions to tag tree (including any notes on best access route, and mile marker): SE side of Natchez Trace Parkway 0.15 m N of MM 333

Time taken to walk to plot: 2 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:
< 1HA 1-10 HA 10-100HA > 100HA

dominated by Mixed oaks

PIC # 33-36 Description of pictures (N,E,S & W from GPS point at middle of plot) : _____

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 34.89475 N -087.88185 W
WGS 84

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) NAD 83 OR ~~NAD27~~ ~~UTM Zone: 15 16~~

GPS Unit ID _____ GPS file name NT140 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 707 m / (ft) GPS

Averaging performed (at least 120 observations)? Coordinate accuracy 5.8 m / ft DOP # sats

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: NATR VICK Plot Code: NT140 State: (AL) MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

__ Flat	0 °	0 %
✓ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

__ Flat	__ SE 113-157 °
✓ Variable	__ S 158-202 °
__ N 338-22 °	__ SW 203-247 °
__ NE 23-67 °	__ W 248-292 °
__ E 68-112 °	__ NW 293-337

Topographic Postion

✓ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

_ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

✓ Flat

Rock types present:

Hydrologic Regime (check only for wetlands)

✓ Not a wetland (Upland: XERIC : (DRY) : MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:

✓ Rapidly drained ✓ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock	96 % Litter, duff	____% Other _____
____% Large rocks (cobbles, boulders >10cm)	4 % Wood (> 1 cm)	
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:

✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

✓ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
dogwood anthr	ORV	

Disturbance and animal use comments:

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert **Park:** NATR VICK **Plot Code:** NT140 **State:** AL MS TN **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	90%	Quercus falcata - 10%	.5-1m	10%
Understory T3	15-20m	70%	Liquidambar styraciflua - 10%, Quercus stellata - 10%, Carya glabra - 10%	1-2m	20%
Tall shrub S1	2-5m	50%	Nyssa sylvatica - 10%, Liquidambar styraciflua - 5%, Acer rubrum - 5	2-5m	30%
Short shrub S2	.5-1m	30%	Vaccinium corymbosum - 10%, Nyssa sylvatica - 5%	5-10m	40%
Herbaceous	—	5%	Chasmanthium laxum - 5%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	20%	Vitis rotundifolia - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

***T1:** Emergent \ **T2:** Tree Canopy \ **T3** Subcanopy \ **S1** Tall Shrub (>1m; to 5m) \ **S2** Short Shrub (< 1m) \ **H** Herbaceous \ **N** Nonvascular \ **V** Vines (lianas) \ **E** Epiphytes*

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	8	4	3						8	Quer fal		
	6	3	4	3					7	Liqu sty		
	5	5	3						6	Quer ste		
		5	3						5	Cary gla		
		5	4	3					5	Acer rub		
			3	3					4	Prun ser		
			3	3					4	Dios vir		
							4		4	Smil gla		
							3		3	Smi rot		
							5		5	Viti rot		
							3		3	Part qui		
					2				2	Chas lax		
					1				1	Carex sp.		
			5	4					5	Nyss syl		
			3	5					5	Vacc cor		
				2					2	Vacc arb		
				2					2	Aron arb		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert **Park:** NATR VICK **Plot Code:** NT140 **State:** AL MS TN **Location org: NPS**

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
			3	2					3	Sass alb		
				2					2	Carp car		
							4		4	Toxi rad		
			4	1					4	Amel arb		
		4		3					4	Quer alb		
			4	3					5	Rhod can		
							4		4	Loni jap		
				2					2	Ostr vir		
			3						3	Ulmu ala		
					1				1	Soli ode		
							2		2	Smil bon		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: NATR VICK Plot Code: NT141 State: (AL) MS TN Location org: NPS

Provisional community name Liquidambar styraciflua

Classified community name Liquidambar styraciflua Forest

Classifyer CWN *Date* 8/18/04 *NVC ELCODE* 7216

Survey date: 8/17/04 **Surveyors initials:** AL SCHOTZ & CWN

Tagged tree is a White oak of 14 cm dbh with tag # 344. Center of 20 x 50m plot is at a bearing of 30 degrees and 2 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

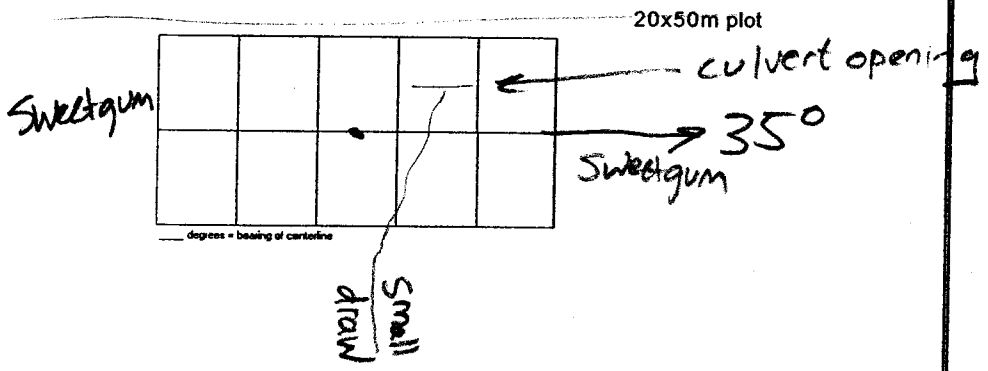
At NT Parkway and AL 14, downslope (SE) of blue sign for AL 14 turn off of NT parkway.

Time taken to walk to plot: 2 min.

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓NO - If not, depict below)

PLOT LOCATION (Below show general plot location) mowed roadside of NT



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 37-40 Description of pictures (N,E,S & W from GPS point at middle of plot) :_____

Select one: ~~UTM OR~~ (Lat/long) (If lat/long, then values are 34.87851 N -087.89308W WGS 84

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD 83 OR NAD27~~ UTM ~~Zone: 15 16~~

GPS Unit ID _____ GPS file name _____ (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? Coordinate accuracy 8 m / ft DOP # sats

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: NATR VICK Plot Code: NT14 State: (AL) MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope _____ ° ____ %

__ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
✓ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 105° (N=0 °)

__ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
✓ E	68-112 °	__ NW	293-337

Topographic Postion

_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
✓ Lowslope (lower/footslope) __ Channel bed

Cowardin System

✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	✓ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

✓ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

Small stream bed emerges from culvert in plot.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

successional

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam ✓ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____ % Bedrock	90 % Litter, duff	____ % Other _____
____ % Large rocks (cobbles, boulders >10cm)	4 % Wood (> 1 cm)	
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % Sand (0.1-2 mm)	6 % Bare soil	

Leaf type:

✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	✓ trails/roads	✓ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
_ dogwood anthr	_ ORV	

Disturbance and animal use comments:

probably abandoned ag land or cleared for grading NT.

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NT141 State: (AL) MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	90%	Liquidambar styraciflua - 70%	.5-1m	10%
Understory T3	[illegible]	70%	Liquidambar styraciflua - 30%	1-2m	20%
Tall shrub S1	2-5m	50%	Ilex decidua - 10%, Carya alba - 10%	2-5m	30%
Short shrub S2	.5-1m	90%	Toxicodendron radicans - 70%	5-10m	40%
Herbaceous		20%	Microstegium vimineum - 5%, Chasmanthium latum - 5%	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana		40%	Toxicodendron radicans - 20%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	8	6	3	3					8	Liqu sty		
	5	4		3					5	Nyss syl		
			3						3	Ulmu ala		
			3						3	Acer rub		
				8			6		8	Toxi rad		
							5		5	Loni jap		
					2				2	Sani can		
					1				1	Carex cf. bla		
					2				2	Botr dis		
		4							4	Quer ste		
			4	4					5	Quer alb		
		5	3	3					5	Dios vir		
		4							4	Ulmu ame		
			4	3					4	Ligu sin		
					4				4	Micr vim		
							3		3	Smil gla		
							3		3	Cocc car		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NT14 State: (AL) MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					2				2	Geum can		
			3						3	Fagu gra		
			3						3	Cornfl		
							3		3	Smil rot		
					2				2	Chas ses		
		5		2					5	Celt lae		
		4							4	Quer fal		
					1				1	Tipu dis		
			5						5	Ilex dec		
			5						5	Cary alb		
					4				4	Chas lax		
							2		2	Smil bon		
			3						3	Cary ova		
					2				2	Rubu gra		
					2				2	Aste lat		
					2				2	Chas lat		
					2				2	Cryp can		
					1				1	Eupa rug		
							2		2	Part qui		
							3		3	Camp rad		
					2				2	Dios opp		
					1				1	Polygonum virginianum		
					2				2	Lact flo		
					1				1	Aspl pla		
							3		3	Viti rot		
				2					2	Symp orb		
				1					1	Juni vir		
		3							3	Pinu tae		
		4							4	Prun ser		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: (NATR) VICK Plot Code: NT142 State: (AL) MS TN Location org: NPS

Provisional community name Pine - hardwood

Classified community name Pinus taeda - Liquidambar styraciflua Semi-natural Forest
Classifyer CWN Date 8/18/04 NVC ELCODE 8462

Survey date: 8/17/04 Surveyors initials: Al Schotz & Carl Nordman

Tagged tree is a Sweetgum of 27 cm dbh with tag # 343. Center of ~~20~~ 15 x 50m plot is at a bearing of 240 degrees and 4 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

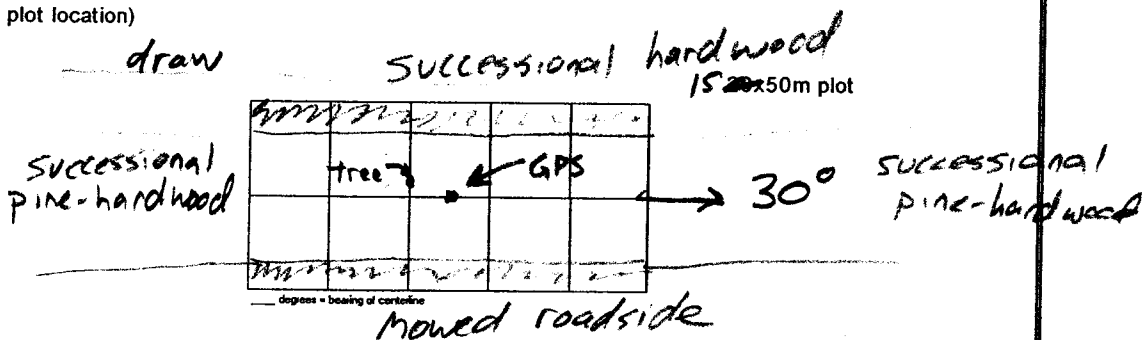
About 0.5 mile (not measured) N. of AL Hwy 2 on NW side of NT Parkway.

Time taken to walk to plot: 2 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:
< 1HA 1-10 HA 10-100HA > 100HA

NT PARKWAY

PIC # 41-44

Description of pictures (N,E,S & W from ~~GPS~~ point at middle of plot) :_____

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 34.84923 N -087.91280 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) NAD 83 OR NAD27 WGS 84 UTM ~~Zone: 15 16~~

GPS Unit ID _____ GPS file name NT142 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 563 m (ft) GPS

Averaging performed (at least 120 observations)? 276 Coordinate accuracy 13 m / ft DOP # sats 3

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: (NATR) VICK Plot Code: NT142 State: (AL) MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

__ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 300° (N=0 °)

__ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	✓ NW	293-337

Topographic Postion

_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
✓ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	✓ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

✓ Not a wetland (Upland: XERIC (DRY - MESIC) MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

steep slope with draw at bottom

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

successional forest

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam ✓ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
90 % Litter, duff
4 % Wood (> 1 cm)
____% Water
6 % Bare soil
____% Other _____

Leaf type:

__ Broad-leaved
✓ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
__ Cold-deciduous
__ Drought-deciduous
✓ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging _ fire _ Hydrologic
_ erosion _ trails/roads _ Agriculture
_ grazing/browsing _ wind/ice damage _ Old Growth
_ pine bark beetle ✓ exotic plants _ Fire Suppression
_ dogwood anthr ORV

Disturbance and animal use comments:

Lonicera japonica
Microstegium vimineum

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: NATR VICK Plot Code: NTN42 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20m	90%	Pinus taeda -40%, Liquidambar styraciflua -40%	.5-1m	10%
Understory T3	10-15m	50%	Liquidambar styraciflua - 30%	1-2m	20%
Tall shrub S1	2-5m	50%	Liquidambar styraciflua -10%, Ulmus rubra -10%, Ulmus alata -10%	2-5m	30%
Short shrub S2	.5-1m	60%	Toxicodendron radicans -40%	5-10m	40%
Herbaceous	–	20%	Polystichum acrostichoides - 5%, Microstegium vimineum - 5%	10-15m	50%
Non-vascular	–	—		15-20m	60%
Vine/liana	—	20%	Toxicodendron radicans -10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	7								7	Pinu tae		
	5								5	Pinu ech		
	7	7	5	4					8	Liqu sty		
	6	4							6	Liri tul		
			5	3					5	Ulmu rub		
			5	3					5	Ulmu ala		
			3	2					3	Cerc can		
				7			5		8	toxi rad		
			4	1					4	Fagu gra		
					2				2	Ilex opa		
							3		3	Part qui		
			4	3					4	Celt lae		
			3						3	Corn flo		
			4	3					4	Frax ame		
					4				4	Poly acr		
							3		3	Berc sca		
					2				2	Desm pan		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: NATB VICK Plot Code: NT142 State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
				2					2	Carex cor		
							5		5	Lobi jup		
			4	4					5	Acer neg		
			3						3	Ostr vir		
			4	3					4	Carya gla		
					2				2	Bote dis		
							3		3	Viti rot		
					3				3	Rubu arg		
					2				2	Brac eff		
				1					1	Quer fal		
					4				4	Micr vim		
					2				2	Polygonum virginianum		
			3						3	Juni vir		
				2					2	Dios vil		
			3	2					3	Cerc can		
				2					2	Quer alb		
					1				1	Botr vir		
					1				1	Tipu dis		
				2					2	Fran car		
							3		3	Viti aes		
			3	2					3	Acer rub		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NT143 State: (AL) MS TN Location org: NPS

1, H

Provisional community name _____

Classified community name Quercus shumardii - Quercus Muhlenbergii - Acer (barbatum, leucoderme, saccharum) / Ostrya Virginiana Forest

Classifyer CWN *Date* 8/18/04 *NVC ELCODE* 8492

Survey date: 8/17/04 **Surveyors initials:** AL Schotz & CWN

Tagged tree is a No tag tree of ____ cm dbh with tag #_____. Center of 20 x 50m plot is at a bearing of ____ degrees and ____ m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

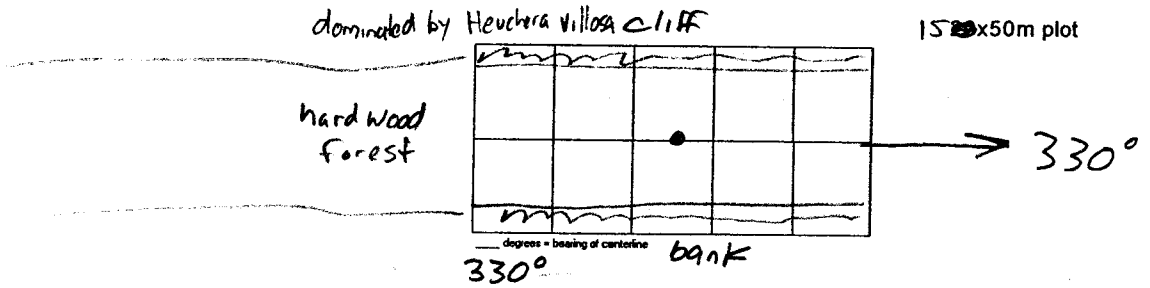
South side of Tennessee River, SE of Natchez Trace Bridge. Park at Colbert Ferry and take trail SE under bridge. Transect runs along trail about 100 m past bridge. Tree not tagged since transect runs along trail. Trail goes to a bat cave.

Time taken to walk to plot: 10 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the ~~20~~ 15 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

Tennessee River

PIC # 45-48 Description of pictures (N,E,S & W from GPS point at middle of plot) :_____

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 34.83592 N 087.94025 W

WGS 84

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD 83~~ OR NAD27 ~~UTM Zone: 15 16~~

GPS Unit ID _____ GPS file name NT143 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 451 m / (ft) GPS

Averaging performed (at least 120 observations)? ✓ Coordinate accuracy 8.3 m / ft DOP # sats 5

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NT 145 State: (AL) MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 27 ° ____ %

__ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
✓ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 60 ° (N=0 °)

__ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
✓ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

__ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
✓ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System
✓ *Upland* __ *Palustrine*
__ *Estuarine* __ *Lacustrine* __ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	✓ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)
✓ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

Flooded downslope, Tennessee River

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:
__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam ✓ Clay loam __ Clay

Drainage:
__ Rapidly drained ✓ Moderately well drained __ Somewhat poorly drained
__ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

10 % Bedrock	30 % Litter, duff	____ % Other _____
10 % Large rocks (cobbles, boulders >10cm)	5 % Wood (> 1 cm)	
5 % Small rocks (gravel, 0.2-10 cm)	% Water	
____ % Sand (0.1-2 mm)	40 % Bare soil	

Leaf type:
✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
Mixed

Leaf phenology (dominant stratum)
__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	✓ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
dogwood anthr	ORV	

Disturbance and animal use comments:
part of community has been flooded by impounding of Tennessee River

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NT143 State: (AL) MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	80%	Quercus shumardii - 40%, Quercus muehlenbergii - 30%	.5-1m	10%
Understory T3	15-20m	60%	Quercus shumardii - 10%, Quercus muehlenbergii - 10%, Fraxinus americana - 10%	1-2m	20%
Tall shrub S1	2-5m	50%	Staphylea trifolia - 20%	2-5m	30%
Short shrub S2	.5-1m	40%	Staphylea trifolia - 10%	5-10m	40%
Herbaceous	–	30%	Hybanthus concolor - 5%, Scutellaria ovata - 5%	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana		30%	Toxicodendron radicans - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

***T1:** Emergent | **T2:** Tree Canopy | **T3** Subcanopy | **S1** Tall Shrub (>1m; to 5m) | **S2** Short Shrub (< 1m) | **H** Herbaceous | **N** Nonvascular | **V** Vines (lianas) | **E** Epiphytes*

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	7	5							7	Quer shu		
	7	5		2					7	Quer muc		
			4	3					4	Celt lae		
		5		3					5	Tili ame var. heter.		
		5		2					5	Cary alb		
			4						4	Lind ben		
			6	5					7	Stap tri		
							4		4	Smil rot		
							3		3	Cocc car		
							2		2	Viti rot		
					3				3	Comm vir		
					4				4	Hyba con		
		5	5	3					6	Acer bar		
							4		4	Viti aes		
					4				4	Scut ova		
			5							Cary cor		
							4			Cuns rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: TN143 State: (AL) MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					2				2	Eupa rug		
							2		2	Part qui		
					3				3	Heuc vil		
					2				2	Impa pal		
					1				1	Aspl res		
					1				1	Cony can		
					1				1	Oxal dil		
					2				2	Camp ame		
							5		5	Toxi rad		
			3						3	Ulmu rub		
	5	5	4	2					6	Toax ame		
			3	2					3	Acer neg		
					2				2	Eric Kie		
					3				3	Soli sph		
					3				3	Bign cap		
					3				3	Did vil		
					3				3	Spig mar		
					2				2	Brun can		
					2				2	Chrys lat		
					1				1	Heut myo Acalypha gracilens		
					2				2	Aspl pla		
			3	2					3	Sass alb		
					1				1	Phlox sp.		
					1				1	Yeat vir		
					1				1	Gali cir		
		3	4						4	Oste vir		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NT144 State: (AL) MS TN Location org: NPS

Provisional community name _____

Classified community name Juniperus Virginiana – Quercus spp. Forest

Classifyer CWN *Date* 8/18/04 *NVC ELCODE* 7124

Survey date: 8/18/04 **Surveyors initials:** Al Schotz & CWN

Tagged tree is a Cedar of 16 cm dbh with tag # 342. Center of 20 x ~~50~~ 40m plot is at a bearing of 90 degrees and 1.0 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker): Natchez Trace (NW side)
Vicinity of MM 320, southwest of US 72

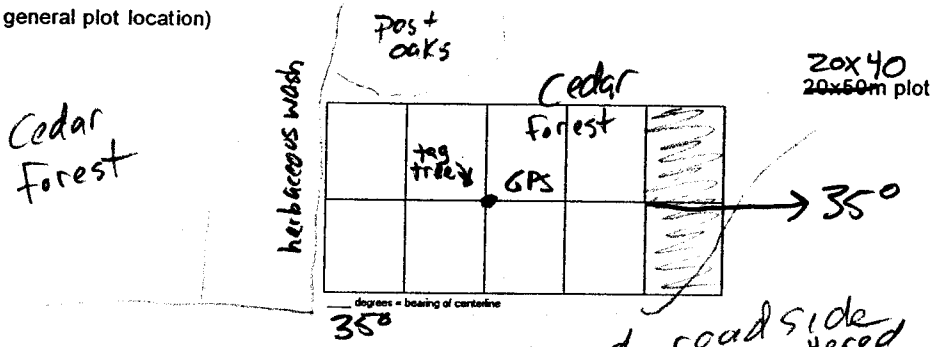
There is a rocky wash which goes back into cedar woods
From edge of NT, this is NE side of wash.

Time taken to walk to plot: 2 m.n.

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x ~~50~~ 40m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 49-52 Description of pictures (N,E,S & W from GPS point at middle of plot) : _____

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 34.75252° N -088.02718° W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD 83~~ OR NAD27 WGS 84 ~~UTM Zone: 15 16~~

GPS Unit ID _____ GPS file name NT 144 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 490 m (ft) GPS

Averaging performed (at least 120 observations)? Coordinate accuracy 4.8 m / ft DOP # sats 4

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NT144 State: (AL) MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

__ Flat	0 °	0 %
✓ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

__ Flat	__ SE 113-157 °
✓ Variable	__ S 158-202 °
__ N 338-22 °	__ SW 203-247 °
__ NE 23-67 °	__ W 248-292 °
__ E 68-112 °	__ NW 293-337

Topographic Postion

_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
✓ Lowslope (lower/footslope) __ Channel bed

Cowardin System

✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	✓ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present: limestone

Hydrologic Regime (check only for wetlands)

✓ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

thin soil over limestone

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

successional forest (may have been grazed in past)

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam ✓ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained ✓ Moderately well drained __ Somewhat poorly drained
__ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
45 % Litter, duff
5 % Wood (> 1 cm)
____% Water
20 % Bare soil
30 % Other Moss

Leaf type:

__ Broad-leaved
✓ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

✓ Evergreen
__ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging _ fire _ Hydrologic
_ erosion _ trails/roads _ Agriculture
_ grazing/browsing _ wind/ice damage _ Old Growth
_ pine bark beetle ✓ exotic plants _ Fire Suppression
_ dogwood anthr _ ORV

Disturbance and animal use comments:

Lonicera japonica
Ligustrum sinense

NPS-GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: NATR VICK Plot Code: NT144 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	15-20m	70%	Juniperus virginiana
Understory T3	10-15m	10%	Juniperus virginiana
Tall shrub S1	2-5m	30%	FRAXAME
Short shrub S2	0.5-1m	30%	
Herbaceous	<.5m	20%	
Non-vascular			
Vine/liana			
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):			

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	8	4	4	4					8	Juni vir		
			5							Frax ame		
				6			5		6	Loni jap		
				4						Ligu sin		
					3					Rubb tri		
				3						Rhus aro		
							4			Toxi rad		
					2					Pote sim		
					2					Bide bip		
					3					Dich lax		
				2						Rosa car		
	5		4	4					5	Quer ste		
				3						Symp orb		
					2					Aste dum		
			4							Ulmu ala		
					3					Prun vul		
				3						Quer mue		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NT144 State: (AL) MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
			4	3					4	Quer shu		
			2	3					3	Prun ser		
					2				2	Sanj can		
					1				1	Part ano		
				1					1	Acer rub		
			2						2	Quer pag		
					2				2	Pycn ten		
				3					3	Quer nig		
					2				2	Care cha		
			3	4					4	Celt lae		
			3						3	Cary alb		
					3				3	Salv lyr		
					2				2	Carex sp.		
			2	2					3	Ilex dec		
					3				3	Dant ser		
					2				2	Hspi pla		
					2				2	Rhet cor		
				1					1	Hesc pav		
					2				2	Rubu arg		
					3				3	Geum can		
							4		4	Camp rad		
			3						3	Acer bar		
			4						4	Macl pom		
					3				3	Lesp cun		
			3						3	Ulmu rub		
				2					2	Dios vir		
					1				1	Scle oli		
					1				1	Lact fra		
				2					2	Cary gla		
					1				1	Pani ang		
					2				2	Hete nud		
					2				2	Vern gig		
					1				1	Oxal dil		
								3	3	Pleo poly var. mich		
					2				2	Ante pla		
					1				1	Styl bif		
					1				1	Eupa inc		
					1				1	Manf vir		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NT145 State: (AL) MS TN Location org: NPS

Provisional community name Pinus Virginiana - Quercus spp. 2591 ?

Classified community name Pinus Virginiana Successional Forest

Classifyer CWN *Date* 8/18/04 *NVC ELCODE* 2591

Survey date: 8/18/04 **Surveyors initials:** Al Schotz & CWN

Tagged tree is a Scarlet oak of 21 cm dbh with tag # 341. Center of 20 x 50m plot is at a bearing of 220 degrees and 1.6 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

Between MM 317 & MM 318 on ridgetop, SE side of NT parkway

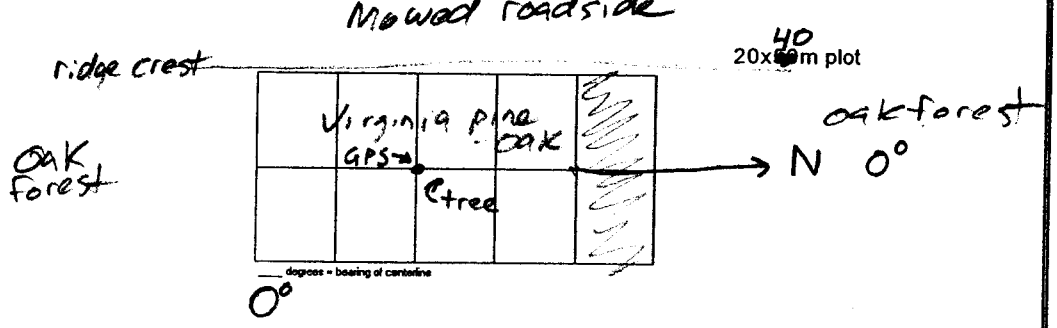
Ridgetop with Virginia Pine.

Time taken to walk to plot: 2 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 53-56 Description of pictures (N,E,S & W from GPS point at middle of plot) : _____

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 34.72116 N -088.03560 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) WGS 84 ~~NAD 83 OR NAD27~~ ~~UTM Zone: 15 16~~

GPS Unit ID _____ GPS file name NT145 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 693 m (ft)

Averaging performed (at least 120 observations)? Coordinate accuracy 6.9 m / ft DOP # sats 5

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NT145 State: (AL) MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

__ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
✓ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

__ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
✓ E	68-112 °	__ NW	293-337

Topographic Postion

✓ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	✓ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	Nose slope	__ Ravine

Rock types present: Pebbles of alluvial origin

Hydrologic Regime (check only for wetlands)

✓ Not a wetland (Upland: XERIC (DRY) MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Successional

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
✓ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:

✓ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
__ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
5 % Small rocks (gravel, 0.2-10 cm)
5 % Sand (0.1-2 mm)
60 % Litter, duff
5 % Wood (> 1 cm)
____% Water
25 % Bare soil
____% Other _____

Leaf type:

__ Broad-leaved
✓ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
__ Cold-decidiuous
__ Drought-deciduous
✓ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging _ fire _ Hydrologic
_ erosion ✓ trails/roads _ Agriculture
_ grazing/browsing _ wind/ice damage _ Old Growth
_ pine bark beetle _ exotic plants _ Fire Suppression
_ dogwood anthr _ ORV

Disturbance and animal use comments:

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NT145 State: (AL) MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20	90%	Pinus virginiana-40%, Quercus coccinea-40%	.5-1m	10%
Understory T3	5-10m	60%	Pinus virginiana - 10%, Quercus coccinea-10% Quercus marilandica 10%	1-2m	20%
Tall shrub S1	2-5m			2-5m	30%
Short shrub S2	.5-1m			5-10m	40%
Herbaceous	–	20%	herb layer sparse	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana	–	10%	Smilax rotundifolia + S. glauca - 5%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	7	5	2	2					7	Pinu vir		
	6	4	3						6	Pinu ech		
	7	5	4						7	Quer coc		
	6	5	5	4					7	Nyss syl		
		5	5	3					6	Quer mar		
			3						3	Juni vir		
		5	4	4					6	Acer rub		
			5	4					5	Quer alb		
			6	4					6	Corn flo		
		4	4	2					5	Prun ser		
					2				2	Dich dic		
					2				2	Schi sco		
					2				2	Aste dum		
					2				2	Core maj		
				2					2	Hype hyp		
					1				1	Desp cun		
							3		3	Smil rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NT145 State: (AL) MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
							2		2	Smil bon		
				4					4	Vacc pal		
			4	3					4	Ligu sty		
					2				2	Pter aqu		
			4	3					5	Vacc arb		
					2				2	Solidm		
							3		3	Smil gla		
			3	2					5	Sass alb		
			4	3					5	Oxyd arb		
					3				3	Rubu arg		
					2				2	Pani ane		
							3		3	Berc sca		
							2		2	Loni jap		
			3	2					3	Celt ten		
			4	3					4	Cary pal		
					2				2	Dant ser		
			3	3					4	Amel arb		
					1				1	Hypo hir		
				2					2	Rhus cop		
							2		2	Smil tam		
			3						3	Quer ste		
					2				2	Lesp hir		
					1				1	Aste pal var hem.		
					1				1	Lesp rep		
					1				1	Eupa ser		
					1				1	Amb art		
					2				2	Toph vir		
				2					2	Dios vir		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: NATR VICK Plot Code: NT146 State: ~~AL~~ MS TN Location org: NPS

Provisional community name Rhus coppalina shrubland (deciduous)

Classified community name Shrublands NLCD #51

Classifyer _____ *Date* _____ *NVC ELCODE* _____

Survey date: 8/18/2004 **Surveyors initials:** AI Schotz & CWN

Tagged tree is a No tag tree of ____ cm dbh with tag #_____. Center of 20 x 50m plot is at a bearing of ____ degrees and ____ m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

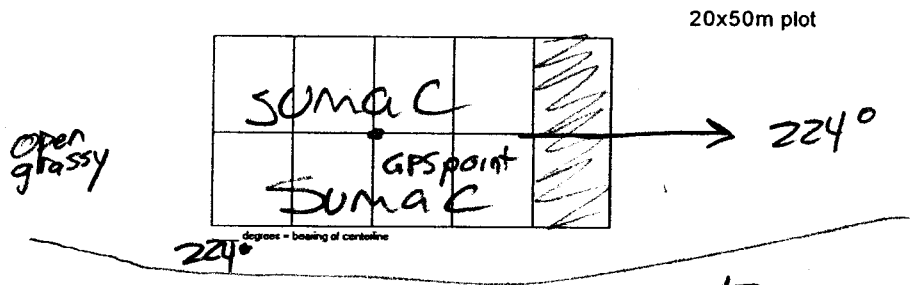
At NT MM 314, East at 94° from Milemarker Post center of plot is on SE facing hill side across NT From mile marker.

Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ____YES ____NO - If not, depict below)

PLOT LOCATION (Below show general plot location) Mowed roadside



Est. Extent of occurrence of community:

(1HA) 1-10 HA 10-100HA > 100HA

PIC # 57-60 Description of pictures (N,E,S & W from GPS point at middle of plot) :_____

Select one: ~~UTM OR~~ Lat/long (If lat/long, then values are 34.68546 N -088.06573 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) WGS 84 ~~NAD 83 OR NAD27~~ ~~UTM Zone: 15 16~~

GPS Unit ID _____ GPS file name NT146 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 623 m (ft) GPS

Averaging performed (at least 120 observations)? ✓ Coordinate accuracy 3.6 m / ft DOP # sats 8

306

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: NATR VICK Plot Code: NT146 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 18 ° ____ %

__ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
✓ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 120 ° (N=0 °)

__ Flat	✓ SE	113-157 °
__ Variable	__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
✓ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System
✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat
__ Alluvial terrace
__ Bald
__ Bank
__ Bar
__ Bench
__ Bottomlands
__ Cliff
__ Cove
__ Depression
__ Draw
__ Exogenous dome
__ Floodplain
__ Gap
__ Gorge
__ Hillslope bedrock outcrop
__ Midslope
__ Nose slope
__ Ridge
__ Ridgetop bedrock outcrop
__ Saddle
__ Seep
__ Toe slope
✓ Slope
__ Streambed
__ Streamhead
__ Periglacial boulderfield
__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)
✓ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Slope of road cut of NT Parkway

Soil Texture:
✓ Sand __ Peat __ Silt loam __ Muck
✓ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:
✓ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
__ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
20 % Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
50 % Litter, duff
____% Wood (> 1 cm)
____% Water
30 % Bare soil
____% Other _____

Leaf type:
✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
__ Forest (closed tree canopy)
__ Woodland (open tree canopy)
✓ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging _ fire _ Hydrologic
_ erosion ✓ trails/roads _ Agriculture
_ grazing/browsing _ wind/ice damage _ Old Growth
_ pine bark beetle _ exotic plants _ Fire Suppression
_ dogwood anthr _ ORV

Disturbance and animal use comments:

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NTT46 State: (AL) MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2			
Understory T3			
Tall shrub S1	2-5m	80%	Rhus copallina - 70%
Short shrub S2	.5-1m	20%	Rhus copallina 20%
Herbaceous	—	80%	Conyza canadensis - 20%, Lespedeza cuneata - 20%
Non-vascular	—	—	
Vine/liana	—	—	

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
			8	6					9	Rhus cop		
			5						5	Rhus gld		
					6				6	Cony can		
					4				4	Soli cun		
					6				6	Lesp cun		
					2				2	Festeka		
				1					1	Liri tul		
					2				2	Dich acu		
					4				4	Schi sco		
					2				2	Dich lax		
					2				2	Eupa ser		
					1				1	Sale gig		
					3				3	Andro ver		
					3				3	Rubu arg		
					1				1	Ambr art		
					2				2	Pseu ob		
				1					1	Frax ame		
					1				1	Lactuca sp.		
					1				1	Nutt cun		
					1				1	Cirs car		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form* also NATR. 100 - 4719 ✓ Page 1

County: Colbert Park: (NATR) VICK Plot Code: NT147 State: (AL) MS TN Location org: NPS

Provisional community name Sagittaria latifolia herbaceous vegetation

Classified community name Pontederia cordata - Peltandra virginica [Placeholder] ✓

Classifyer CWN Date 9/14/2004 NVC ELCODE 4291

Survey date: 8/18/04 Surveyors initials: Al Schotz & CWN

Tagged tree is a No tag tree of ____ cm dbh with tag #_____. Center of 20 x 50m plot is at a bearing of ____ degrees and ____ m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

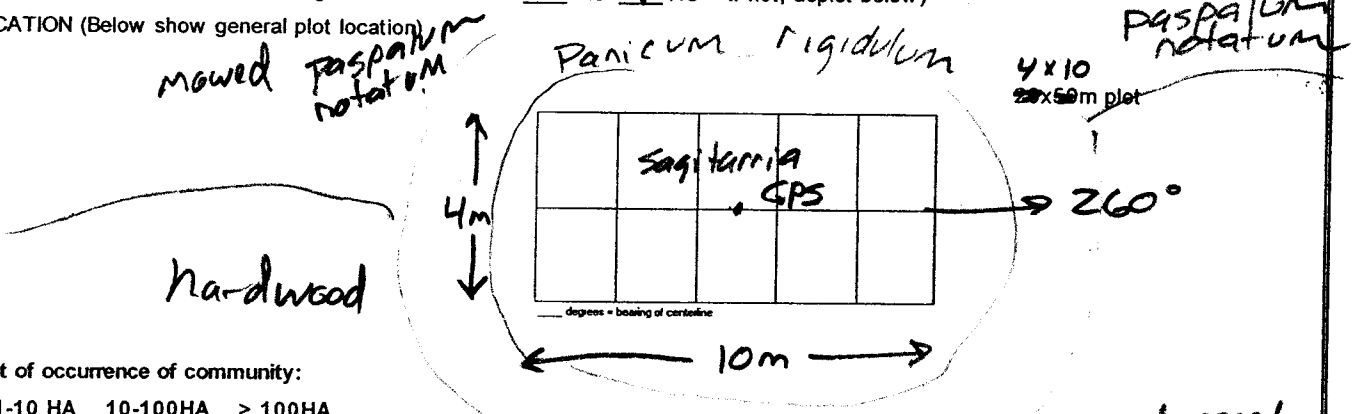
ON N side of Natchez Trace, at bottom of road embankment, just west of Maid Rd. Bridge and NE of Maid Rd. turnoff From NT Parkway.

Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the ~~20 x 50~~ 4 x 10m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

(< 1HA) 1-10 HA 10-100HA > 100HA

PIC # 61862 Description of pictures (N,E,S & W from GPS point at middle of plot) :

61 & 62 From SE road embankment.

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 34.64919 N 088.11941 W

WGS 84

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) NAD 83 OR NAD27 UTM Zone: 15 16

GPS Unit ID _____ GPS file name NT147 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 498 m (ft) GPS

Averaging performed (at least 120 observations)? Coordinate accuracy 7 m / ft DOP # sats 5

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: NATR VICK Plot Code: NT147 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

✓ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

✓ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

__ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System
__ *Upland* ✓ *Palustrine*
__ *Estuarine* __ *Lacustrine* __ *Riverine*

Landform (check most applicable)

__ Alluvial flat
__ Alluvial terrace
__ Bald
__ Bank
__ Bar
__ Bench
__ Bottomlands
__ Cliff
__ Cove
✓ Depression
__ Draw
__ Exogenous dome
__ Floodplain
__ Gap
__ Gorge
__ Hillslope bedrock outcrop
__ Midslope
__ Nose slope
__ Ridge
__ Ridgetop bedrock outcrop
__ Saddle
__ Seep
__ Toe slope
__ Slope
__ Streambed
__ Streamhead
__ Periglacial boulderfield
__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)
__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded ✓ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

semipermanently flooded

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:
__ Sand __ Peat __ Silt loam ✓ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:
__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
__ Well drained __ Poorly drained ✓ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
____% Litter, duff
____% Wood (> 1 cm)
100% Water
____% Bare soil
____% Other _____

Leaf type:
__ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
✓ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
__ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
✓ Herb - Perennial

Physiognomic Class
__ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
✓ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	✓ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
_ dogwood anthr	ORV	

Disturbance and animal use comments:
lots of dragon flies!

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NTT147 State: (AL) MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous	—	70% 100%	Sagittaria latifolia-60% (in pond) Panicum rigidulum-60% (along pond periphery)	10-15m	50%
Non-vascular		—		15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
					8				8	Sagi lat	in pond NATR. 147	
					5				5	Ludw pep		
					3				3	Cera dem		
					8				8	Pani rig	along pond periphery NATR. 100	
					6				6	Eleo ova		
					3				3	Poly hyd		
					2				2	Case lur		
					2				2	Pasp flo		
					2				2	Case Fra		
					1				1	Boeh cyl		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

Polygonum hydropiperoides

Entered as 2 plots
NATR. 147 - NATR. 100

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NT148 State: (AL) MS TN Location org: NPS

Provisional community name

Classified community name Pinus taeda / Liquidambar styraciflua – Acer rubrum var. rubrum / Vaccinium stamineum Forest

Classifyer CWN *Date* 8/19/04 *NVC ELCODE* 6011

Survey date: 8/18/2004 **Surveyors initials:** Al Schotz & CWN

Tagged tree is a Pinus taeda of 33 cm dbh with tag # 340. Center of 20 x 50m plot is at a bearing of 330 degrees and 1.3 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

In area between Natchez Trace Parkway, Maid Rd. and access road between NT Parkway and Maid Rd.

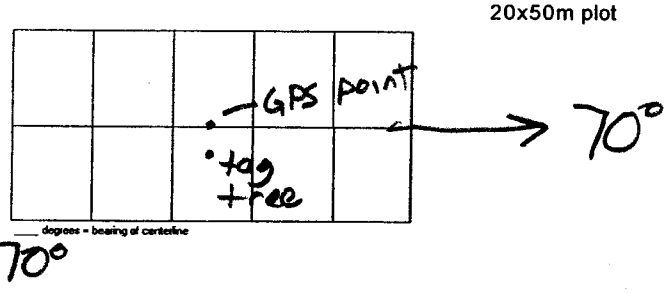
Time taken to walk to plot: 2 min

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ✓ YES ___ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)

Pinus taeda area is surrounded by Paspalum notatum herbaceous vegetation along the roadsides



Est. Extent of occurrence of community:

< 1HA (1-10 HA) 10-100HA > 100HA

PIC # 63-66 Description of pictures (N,E,S & W from GPS point at middle of plot) : ___

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 34.64828 N -088.11900 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD83 or NAD27~~ WGS 84 ~~UTM Zone: 15 16~~

GPS Unit ID ___ GPS file name NT148 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X ___ m E Y ___ m N Elevation 535 m (ft) GPS

Averaging performed (at least 120 observations)? N 52 Coordinate accuracy 8 m / ft DOP # sats 4

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NT148 State: (AL) MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

__ Flat	0 °	0 %
✓ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 330 ° (N=0 °)

__ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	✓ NW	293-337

Topographic Postion

_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
✓ Lowslope (lower/footslope) __ Channel bed

Cowardin System

_ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	✓ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	Nose slope	Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

✓ Not a wetland (Upland: XERIC (DRY - MESIC) MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Successional, perhaps was planted loblolly pine but now trees are big and there is a hardwood midstory and subcanopy. Many pines are 30 cm dbh.

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam ✓ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
95 % Litter, duff
5 % Wood (> 1 cm)
____% Water
____% Bare soil
____% Other _____

Leaf type:

__ Broad-leaved
✓ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

✓ Evergreen
__ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	✓ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
_ dogwood anthr	ORV	

Disturbance and animal use comments:

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NTN148 State: (AL) MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	Pinus taeda - 70%	.5-1m	10%
Understory T3	15-20m	80%	Liquidambar styraciflua - 20%, Fraxinus americana - 20%	1-2m	20%
Tall shrub S1	2-5m	50%	Quercus nigra - 20%, Nyssa sylvatica - 20%	2-5m	30%
Short shrub S2	.5-1m	60%	Toxicodendron radicans - 50%	5-10m	40%
Herbaceous	—	10%	various - herb layer sparse	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	50%	Toxicodendron radicans - 20%, Vitis rotundifolia - 10%, Berchemia scandens - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	8								8	Pinu tae		
		6	4	3					6	Liqu sty		
		6	5	6					7	Frax ame		
		5	5	4					6	Quer pag		
		5	6	4					6	Quer nig		
		5	5	4					6	Acer rub		
			6	6					7	Nyss syl		
				4					4	Sass alb		
				7			6		8	Toxi rad		
			5	5					6	Cary alb		
							4		4	Loni jap		
					1				1	Verb occ		
			2	3					3	Call ame		
		4	3	3					4	Celt lae		
				3					3	Tral spi		
			4	3					4	Quer alb		
							2		2	Smil tam		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Colbert Park: (NATR) VICK Plot Code: NT148 State: (AL) MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
							4		4	Camp rad		
							5		5	Viti rot		
			4	3					4	Prun ser		
			5	3					5	Corn flo		
			4						4	Carp car		
							3		3	Smil gla		
			4	3					4	Ilex dec		
					3				3	Chas ses		
							5		5	Berc sca		
				2					2	Ligu sin		
				2					2	Cary gla		
					2				2	Poly acr		
					3				3	Mic vim		
					1				1	Ipom pan		
							4		4	Smil rot		
					1				1	Leer vir		
					1				1	Eupa rug		
					2				2	Sani can		
					2				2	Clem vir		
					1				1	Geum can		
					1				1	Aspl pla		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Tishomingo Park: NATR VICK Plot Code: NT149 State: AL MS TN Location org: NPS

Provisional community name Pinus echinata - Pinus taeda

Classified community name

Classifyer CWN *Date* 8/19/04 *NVC ELCODE* 4052

Survey date: 8/18/2004 **Surveyors initials:** Al Schotz & CWN

Tagged tree is a Black cherry of 19.5 cm dbh with tag # 339. Center of 20 x 50m plot is at a bearing of 210° degrees and 4 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

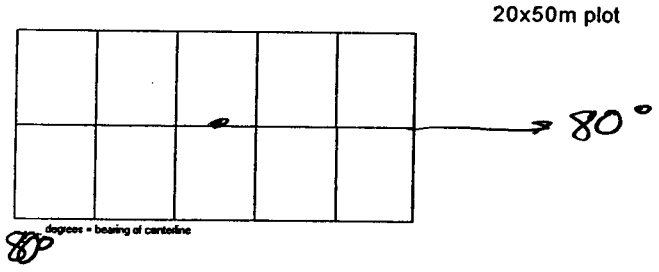
South side of entrance Rd. to Tishomingo State Park, ~0.1 Mile off NT Parkway.

Time taken to walk to plot: 2 min.

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓NO - If not, depict below)

PLOT LOCATION (Below show general plot location) mowed roadside (Paspalum notatum)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 67-70 **Description of pictures (N,E,S & W from GPS point at middle of plot) :**

Select one: ~~UTM~~ OR Lat/long (If lat/long, then values are 34.60817 N -088.20360 W

WGS 84

GPS Techniques/Equipment: Garmin III+ Garmin V **Datum(pick one)** ~~NAD 83 OR NAD27~~ **UTM Zone:** ~~15 16~~

GPS Unit ID _____ **GPS file name** NT149 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N **Elevation** 625 m / ft GPS

Averaging performed (at least 120 observations)? Coordinate accuracy 6 m / ft DOP # sats 6

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Tishomingo Park: (NATR) VICK Plot Code: NT149 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

__ Flat	0 °	0 %
✓ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

__ Flat	__ SE 113-157 °
__ Variable	__ S 158-202 °
__ N 338-22 °	✓ SW 203-247 °
__ NE 23-67 °	__ W 248-292 °
__ E 68-112 °	__ NW 293-337

Topographic Postion

__ Interfluve (Ridge/summit/crest) __ Toeslope
✓ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System
✓ *Upland* __ *Palustrine*
__ *Estuarine* __ *Lacustrine* __ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	✓ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)
✓ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

has burned in past, successional forest

Soil Texture:
__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:
__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
95 % Litter, duff
5 % Wood (> 1 cm)
____% Water
____% Bare soil
____% Other _____

Leaf type:
__ Broad-leaved
✓ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)
✓ Evergreen
__ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
dogwood anthr	ORV	

Disturbance and animal use comments:

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Tishomingo Park: (NATR) VICK Plot Code: NT149 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	80%	Pinus echinata - 40%, Pinus taeda - 40%	.5-1m	10%
Understory T3	10-15m	40%	Pinus echinata - 10%, Pinus taeda - 10%, Pinus serotina - 10%	1-2m	20%
Tall shrub S1	2-5m	70%	Quercus falcata - 40%	2-5m	30%
Short shrub S2	.5-1m	40%	Quercus falcata - 10%	5-10m	40%
Herbaceous	—	20%	herbs various	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	60%	Vitis rotundifolia - 30%, Smilax rotundifolia - 20%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

***T1:** Emergent | **T2:** Tree Canopy | **T3** Subcanopy | **S1** Tall Shrub (>1m; to 5m) | **S2** Short Shrub (< 1m) | **H** Herbaceous | **N** Nonvascular | **V** Vines (lianas) | **E** Epiphytes*

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	7	5							7	Pinu ech		
	7	5							7	Pinu tae		
			5	4					5	Dias vir		
			7	5					7	Quer fal		
			4	3					4	Quer alb		
		5	4	2					5	Pan ser		
		4	4	3					5	Acer rub		
							7		7	Viti rot		
				2					2	Crataegus sp.		
							6		6	Smil rot		
							3		3	Smil gla		
					2				2	Eupa hys		
					2				2	Sacc gig		
					2				2	Aste dum		
					2				2	Andr vir		
					3				3	Schi sco		
					2				2	Eupa rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Tishomingo Park: (NATR) VICK Plot Code: MT149 State: AL (MS) TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
			3	3					4	Vacc arb		
					1				1	Dich dic		
			2	2					3	Ilex dec		
					2				2	Dich lax		
					2				2	Dich com		
			3	2					3	Fagu gra		
				2					2	Cary gla		
					2				2	Lesp vir		
				2					2	Rhus cop		
			3	2					3	Vacc cor		
					2				2	Soli can		
			3						3	Nyss syl		
					1				1	Botr dis		
			4	3					4	Liqu sty		
				2					2	Liqu sin		
					1				1	Pity gra		
					1				1	Styl bif		
				2					2	Cary alb		
				2					2	Vacc pal		
			2						2	Quer fal		
			3						3	Juni vir		
			3						3	Quer nig		
					3				3	Heli hir		
			4						4	Corn flo		
				3					3	Quer COL		
					2				2	Asclepias syriaca		
			3						3	Vacc sta		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Tishomingo Park: (NATR) VICK Plot Code: NT150 State: AL (MS) TN Location org: NPS

Provisional community name _____

Classified community name Alnus serrulata shrubland
Classifyer CWN *Date* 8/18/04 *NVC ELCODE* 8474

Survey date: 8/18/04 **Surveyors initials:** AI Schotz & CWN

Tagged tree is a No tag tree of ____ cm dbh with tag #_____. Center of 20 x 50m plot is at a bearing of ____ degrees and ____ m from tree.

Directions to tag tree (including any notes on best access route, and mile marker): MM 302.1

Careful of Poison Sumac!

* Sporobolus vaginiflorus dominates a band on each side of the paved NT Parkway here about 2.5 m wide on limestone gravel continues past MM 301 & 300

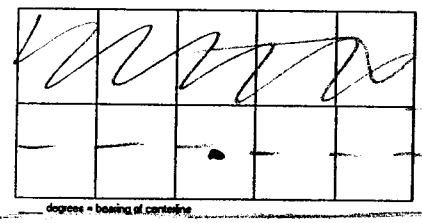
Time taken to walk to plot: 2 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the ~~20~~ 10 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓NO - If not, depict below)

PLOT LOCATION (Below show general plot location)

Plot includes openings dominated by Impatiens capensis and Boehmeria cylindrica, Alnus



Est. Extent of occurrence of community:
< 1HA 1-10 HA 10-100HA > 100HA

Paspalum notatum mowed roadside
2.5m Sporobolus vaginiflorus on limestone gravel
paved NT Parkway

PIC # 71-74, 75 Description of pictures (N,E,S & W from GPS point at middle of plot) : _____

75 (taken at 350° from edge of pavement on NT Parkway)

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 34.59717 N -088.23716 W
WGS 84

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD 83~~ OR NAD27 UTM Zone: ~~15 16~~

GPS Unit ID _____ GPS file name NT150 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 485 m/(ft) GPS

Averaging performed (at least 120 observations)? Coordinate accuracy 5 m / ft DOP # sats 5

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Tishomingo Park: NATR VICK Plot Code: NT 150 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

✓ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

✓ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope ✓ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System
_ *Upland* ✓ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

✓ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)
__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded ✓ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

May be temp. flooded,

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:
__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam ✓ Clay loam __ Clay

Drainage:
__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
__ Well drained ✓ Poorly drained __ *Very poorly drained*

Ground cover

____ % Bedrock	70 % Litter, duff	____ % Other _____
____ % Large rocks (cobbles, boulders >10cm)	____ % Wood (> 1 cm)	
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % Sand (0.1-2 mm)	30 % Bare soil	

Leaf type:
✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
__ Forest (closed tree canopy)
__ Woodland (open tree canopy)
✓ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
_ dogwood anthr	ORV	

Disturbance and animal use comments:

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Tishomingo Park: (NATR) VICK Plot Code: NT150 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1	2-5m	90%	Alnus serrulata – 80%	2-5m	30%
Short shrub S2	.5-1m	5%	Toxicodendron radicans – 5%	5-10m	40%
Herbaceous	—	90%	Impatien capensis – 40%, Apios americana – 30%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	20%	Lonicera japonica – 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
			9						9	Alnu ser		
			3						3	Sali nig		
			6	2					5	Frax pen		
			4	2					4	Toxi rad		
			3	2					3	Acer rub		
					7				7	Impa cap		
					5				5	Boeh cyl		
					6				6	Apio ame		
					4				4	Micr vim		
			4						4	Ceph occ		
					3				3	Clem vir		
					4				4	Soli alt		
							5		5	Loni jap		
					4				4	Rubu arg		
				3					3	Toxi rad		
					1				1	Eupa fis		
					2				2	Poly hyd		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Tishomingo Park: (NATR) VICK Plot Code: MTISO State: AL (MS) TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					2				2	Sacc gig		
					3				3	Comm vir		
					3				3	Junc eff		
					2				2	Dich sca		
							3		3	Viti rot		
					2				2	Poly sag		
					1				1	Cinn arg		
					2				2	Dich dic		
					2				2	Soli rug		
				3					3	Xant sib		
					3				3	Aran gig		
					2				2	Dich aci		
					2				2	Carex sp.		
					2				2	Care lur		
					2				2	Aste lat		
					1				1	Care bro		
					3				3	[redacted] Rudbeckia laciniata		
					2				2	Care cri		
					1				1	Eupaper		
			3						3	Samb can		
			3						3	Ilex ver		
					2				2	Rhex mar		
					1				1	Spar arge		
					2				2	Sagi lat		
					2				2	Scir cyp		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Tishomingo Park: (NATR) VICK Plot Code: NT 15 State: AL (MS) TN Location org: NPS

Provisional community name 7330 ?

Classified community name Liquidambar styraciflua - (Liriodendron tulipifera) Temporarily Flooded Forest
Classifyer CWN *Date* 9/14/2004 NVC ELCODE 7330

Survey date: 8/18/04 **Surveyors initials:** Al Schotz & CWN

Tagged tree is a tulip tree of 35 cm dbh with tag # 338. Center of 20 x 50m plot is at a bearing of 150° degrees and 0.7 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

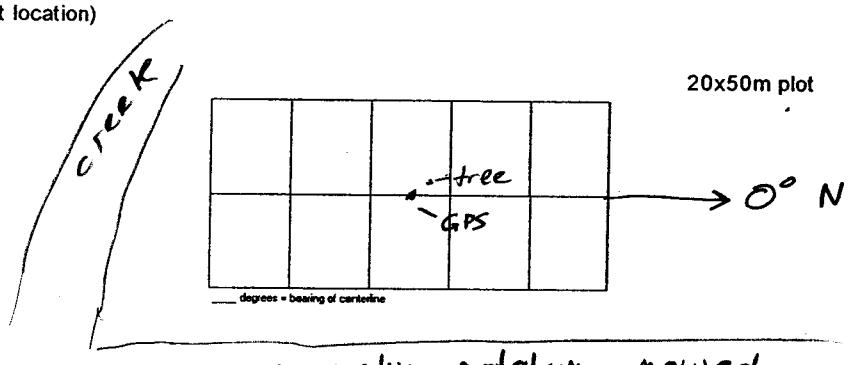
Bottoms on west side of NT just N. of a small creek. Mile ~298.1

Time taken to walk to plot: 2 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES _✓_ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:
< 1HA 1-10 HA 10-100HA > 100HA

PIC # 76 - 79 Description of pictures (N,E,S & W from GPS point at middle of plot) : _____

Select one: ~~UTM~~ ~~OR~~ (Lat/long) (If lat/long, then values are 34,55318 N -088,27632 W

GPS Techniques/Equipment: ~~Garmin III+~~ (Garmin V) Datum(pick one) ~~NAD 83 OR NAD27~~ WGS 84 UTM ~~Zone: 15 or 16~~

GPS Unit ID _____ GPS file name NT15 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? Coordinate accuracy 3.9 m / ft DOP # sats 5

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Tishomingo Park: (NATR) VICK Plot Code: NTIS1 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

✓ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

✓ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

__ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope ✓ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System
__ *Upland* ✓ *Palustrine*
__ *Estuarine* __ *Lacustrine* __ *Riverine*

Landform (check most applicable)

__ Alluvial flat
__ Alluvial terrace
__ Bald
__ Bank
__ Bar
__ Bench
✓ Bottomlands
__ Cliff
__ Cove
__ Depression
__ Draw
__ Exogenous dome
__ Floodplain
__ Gap
__ Gorge
__ Hillslope bedrock outcrop
__ Midslope
__ Nose slope
__ Ridge
__ Ridgetop bedrock outcrop
__ Saddle
__ Seep
__ Toe slope
__ Slope
__ Streambed
__ Streamhead
__ Periglacial boulderfield
__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)
__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded ✓ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded __ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

Bottomlands, temp. flooded

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:
__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:
__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
__ Well drained ✓ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
87 % Litter, duff
3 % Wood (> 1 cm)
____% Water
10 % Bare soil
____% Other _____

Leaf type:
✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance
__ logging __ fire __ Hydrologic
__ erosion __ trails/roads __ Agriculture
__ grazing/browsing __ wind/ice damage __ Old Growth
__ pine bark beetle __ exotic plants __ Fire Suppression
__ dogwood anthr __ ORV

Disturbance and animal use comments:
successional forest, may be an old field.

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Tishomingo Park: NATR VICK Plot Code: NMS1 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20m	80%	Liriodendron tulipifera - Lyquidambar sty	.5-1m	10%
Understory T3	10-15m	40%	Liritul Lyqusty	1-2m	20%
Tall shrub S1	2-5m	50%	Corylus americana-10%	2-5m	30%
Short shrub S2	.5-1m	60%	Toxicodendron radicans-40%	5-10m	40%
Herbaceous	—	30%	Various forbs	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	30%	Toxicodendron radicans-20%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	8	6	3						8	Liri tul		
	7	6	3						7	Liqu sty		
			3	3					3	Fray pen		
			3	3					3	Celt Lae		
			2						2	Symb can		
				2					2	Rubu arg		
					2				2	Micr vim		
							4		4	Part qui		
					2				2	Ath fel		
	4			3					4	Quer nig		
			5						5	Cary ova		
			3						3	Fagu gra		
			2						2	Acer spi		
			2						2	Corn flo		
				3			3		3	Loni jap		
			3						3	Corn amo		
					2				2	Botr dis		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Tishomingo Park: NATR VICK Plot Code: NTS1 State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
			4	2					4	Alnu ser		
				7			6		8	Toxi rad		
					2				2	Clem vir		
							4		4	Smil rot		
			2	2					2	Ligu sin		
					1				1	Polygonum virginianum		
							4		4	Viti rot		
					2				2	Poly acr		
							2		2	Smil bon		
					2				2	Uvul ses		
					2				2	Dich bos		
			4						4	Prun ser		
					3				3	Lact flo		
					2				2	Dios opp		
			6	4					6	Carp car		
	5								5	Pinu tae		
							2		2	Viti aes		
					1				1	Viol aff		
			3						3	Juni vir		
			3						3	Quer rub		
				2					2	Aste lat		
				2					2	Dios vil		
					1				1	Pote sim		
					1				1	Boeh cyl		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Itawamba? Park: NATR VICK Plot Code: NT152 State: AL MS TN Location org: NPS

Provisional community name Quercus phellos - Quercus michauxii

Classified community name Quercus phellos - Quercus nigra - Quercus alba / Cladrastis kentukea (lutea, sessilifolia) Forest

Classifyer CWN Date 9/14/2004 NVC ELCODE 4771

Survey date: 8/18/04 Surveyors initials: Al Schotz & CWN

Tagged tree is a willow oak of 36 cm dbh with tag # 337. Center of 20 x 50m plot is at a bearing of 305 degrees and 2.0 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

South side of NT Parkway in hardwood bottom.

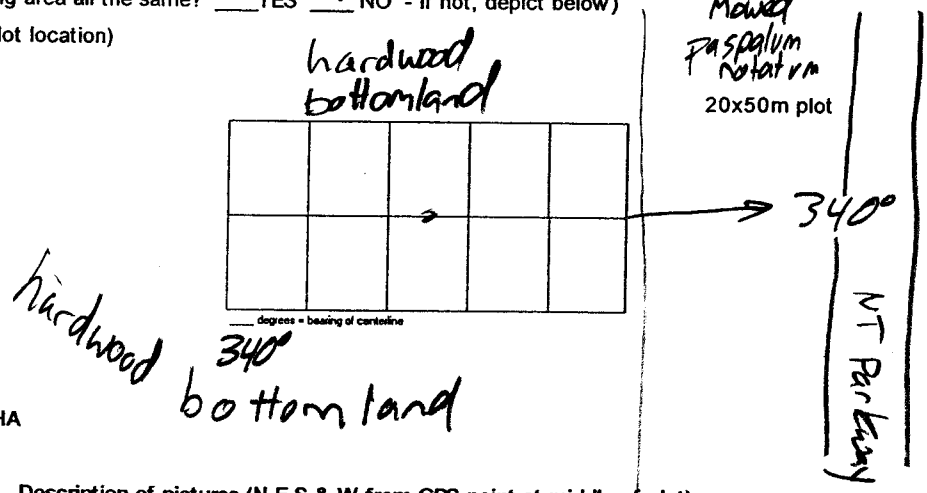
~ 0.15 mi East of Donivan Slough.

Time taken to walk to plot: 2 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 81-84 Description of pictures (N,E,S & W from GPS point at middle of plot) : _____

Select one: ~~UTM~~ OR Lat/long (If lat/long, then values are 34.46304 N -088.47345 W

WGS 84

GPS Techniques/Equipment: Garmin III+ Garmin V Datum(pick one) NAD 83 OR NAD27 UTM Zone: ~~15 16~~

GPS Unit ID _____ GPS file name NT152 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 320 m (ft) @ GPS

Averaging performed (at least 120 observations)? Coordinate accuracy 3.8 m / ft DOP # sats 6

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: (NATR) VICK Plot Code: MT152 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

✓ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

✓ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

__ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope ✓ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System
__ *Upland* ✓ *Palustrine*
__ *Estuarine* __ *Lacustrine* __ *Riverine*

Landform (check most applicable)

✓ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)
__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded ✓ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

Temp. flooded - many creeks in this area have been channelized.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:
__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam ✓ Loam __ Clay loam __ Clay

Drainage:
__ Rapidly drained ✓ Moderately well drained __ Somewhat poorly drained
__ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock	75 % Litter, duff	____% Other _____
____% Large rocks (cobbles, boulders >10cm)	5 % Wood (> 1 cm)	
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	20 % Bare soil	

Leaf type:
✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	✓ exotic plants	_ Fire Suppression
dogwood anthr	ORV	

Disturbance and animal use comments:
Lonicera japonica

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: (NATR) VICK Plot Code: NTI52 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	90%	Quercus phellos - 40%, Ulmus americana - 20%	.5-1m	10%
Understory T3	15-20m	40%	Carpinus caroliniana - 10%	1-2m	20%
Tall shrub S1	2-5m	50%	Liquidambar styraciflua - 10%, Ilex decidua - 10%, Nyssa sylvatica - 10%	2-5m	30%
Short shrub S2	.5-1m	40%	Toxicodendron radicans - 10%	5-10m	40%
Herbaceous	—	40%	Aster lateriflorus - 5%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	30%	Smilax rotundifolia - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	5		3	3					5	Quer mic		
	7			2					7	Quer phe		
	6		4	3					6	Ulmu ame		
	6		5	3					6	Liqu sty		
	5			3					5	Quer nig		
		5		3					5	Carp car		
				5			3		6	Taxi rad		
	5		4	4					6	Frax pen		
					4				4	Aste lat		
					2				2	Sani can		
					1				1	Dich dic		
					2				2	Saur cer		
					1				1	Carex lax		
	4								4	Quer pag		
				2					2	Mon rub		
					2				2	Aris tri		
					2				2	Boeh cyl		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: (NATR) VICK Plot Code: NTIS2 State: AL (MS) TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					1				1	Ler vir		
					2				2	Eupa rug		
							3		3	Berl sca		
					2				2	Carex dig		
			2						2	Liri tul		
							4		4	Toni lap		
					3				3	Polygonum virginianum		
					3				3	Rubus arg		
		4	3	3					5	Acer rub		
		4	4	3					5	Cary gla		
							5		5	Smil rot		
			4						4	Ulmu ala		
					2				2	Oxyd ria		
				2					2	Ceph occ		
					1				1	Chel gla		
			5	3					5	Ilex dec		
							4		4	Part qui		
				3					3	Sumb can		
				2	2				2	Asim tri		
			4	3					4	Cary lac		
					2				2	Dios vil		
					1				1	Vern gig		
					2				2	Soli ruc		
				2					2	Corn Flo		
							3		3	Camp rad		
					2				2	Ranu rec		
				2					2	Juni vir		
					2				2	Arun gig		
					1				1	Sacc can		
					1				1	Aris dra		
	5		5	3					5	Nyss syl		
							1		1	Bign cap		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team AS & CWN, Plot NT153.

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 22 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
4069?				Lacks Q. velutina - "Crawley's Ridge Mesic Oak Forest"
4072?				lacks Fagus grandifolia
✓ 2070	1	H		range extension to south

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Chickasaw Park: NATR VICK Plot Code: NT153 State: AL (MS) TN Location org: NPS

Provisional community name _____

Classified community name Quercus alba - Quercus rubra - Quercus Muhlenbergii / Cercis canadensis Forest
Classifyer CWN *Date* 8/19/04 *NVC ELCODE* 2070

Survey date: 8/19/2004 **Surveyors initials:** Al Schotz & CWN

Tagged tree is a White oak of 54 cm dbh with tag # 336. Center of 20 x 50m plot is at a bearing of 96° degrees and 3.5 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

Just N. of entrance to Bynum Mounds (<0.1m) across NT from restroom & picnic area 1 mile ~~side~~ sign on west facing slope on west side OF NT.

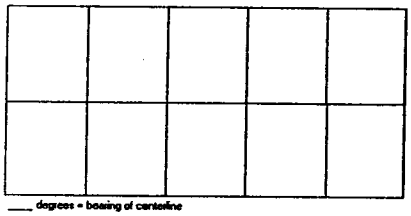
Time taken to walk to plot: 2 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___V___ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)

20x50m plot



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 85-88 Description of pictures (N,E,S & W from GPS point at middle of plot) : _____

(last images on Memory stick)

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 33.90174 N -088.94750 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) WGS 84 ~~NAD 83 OR NAD27~~ UTM Zone: ~~15 16~~

GPS Unit ID _____ GPS file name NT153 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 303 m (ft)

Averaging performed (at least 120 observations)? Coordinate accuracy 47 (m) / ft DOP # sats 6

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Chickasaw Park: NATR VICK Plot Code: NTI53 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 20 ° ____ %

__ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
✓ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 280 ° (N=0 °)

__ Flat	__ SE 113-157 °
__ Variable	__ S 158-202 °
__ N 338-22 °	__ SW 203-247 °
__ NE 23-67 °	✓ W 248-292 °
__ E 68-112 °	__ NW 293-337

Topographic Postion

__ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
✓ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

__ *Upland* __ *Palustrine*
__ *Estuarine* __ *Lacustrine* __ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	✓ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

✓ Not a wetland (Upland: XERIC : DRY - MESIC (MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Mature forest, not logged for a long time. Many trees over 50 cm dbh

Soil Texture:

__ Sand __ Peat ✓ Silt loam __ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
65 % Litter, duff
5 % Wood (> 1 cm)
____% Water
30 % Bare soil
____% Other _____

Leaf type:

✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
_ dogwood anthr	ORV	

Disturbance and animal use comments:

relatively undisturbed!

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Chickasaw Park: (NATR) VICK Plot Code: MT153 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	20-35m	80%	QUERRUB QUERALB ACERBAR
Understory T3	10-15m	50%	QUERALB ACERBAR
Tall shrub S1	2-5m	30%	OSTRVIR ARUNGIG
Short shrub S2			
Herbaceous	<.5m	10%	CHASSES POLYACR
Non-vascular			
Vine/liana			
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):			

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	6	6							6	QUERALB		
	6	6	4						6	ACERBAR		
	7	4		2					7	QUERRUB		
		5	6						6	OSTRVIR		
				2						CARYCOR		
			4	3					4	ARUNGIG		
				2						LONCJAP		
				3			3		3	TOXIRAD		
				3			2		3	VITIROT		
					1					SMILRAC		
					3					CHASSES		
				2						SMILGLA		
					2					PIOSVIL		
				2						SMILROT		
					2					CAREX SP.		
	5	4							5	FRAXAME		
		4	3						4	NYSSSYL		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Chickasaw Park: (NATR) VICK Plot Code: NTCS3 State: AL (MS) TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
			2	2					3	CARYGLA		
	4									QUERMUH		
				1						SMILBON		
					1					SMILHUG?		
				2						CERSCAN		
				2						MORURUB		
			2							HYDROVE		
					1					BOTRDIS		
					1					SMICAN		
					3					POLYACR		
					1					PASILUT		
		4								CARYALB		
		3		2					3	MAGNACU		
					1					POA AUTUMNALIS		
			2							CORNFLO		
	5		3						5	CARYOVATA		
					1					SALVLYR		
					1					PHLODIV		
					1					MELIMUT		
					2					DICHBOS		
					1					MATELEA SP.		
					1					COLLINSONIA SER? (Not canadensis)		
					1					ASPLPLA		
				2						ARALSPI		
					1					MICRVIM		
					1					PRENANTHES SP.		
					1					AGRIROS		
					2					DESMGLU		
					1					ARISSER		
					1					VIOLWAL		
					1					SILESTE		
				1						PRUNSER		
					1					SOLIFLACIDIFOLIA		
					1					DESMNUD		
			2							ASIMTRI		

Use bottom of this sheet or additional pages for other species in 1 ha plot

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Chickasaw Park: NATR VICK Plot Code: NT154 State: AL MS TN Location org: NPS

Provisional community name _____

Classified community name _____

Classifyer _____ *Date* _____ *NVC ELCODE* 6011

Survey date: 8/19/04 **Surveyors initials:** AI Schotz & CWN

Tagged tree is a *Pinus taeda* of 41 cm dbh with tag # 335. Center of 20 x 50m plot is at a bearing of 333° degrees and 2 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker): At Chickasaw Agency pull off. Center of plot is about 40-50 m SW of interpretive sign at 250°.

Between MM 241 & 242.

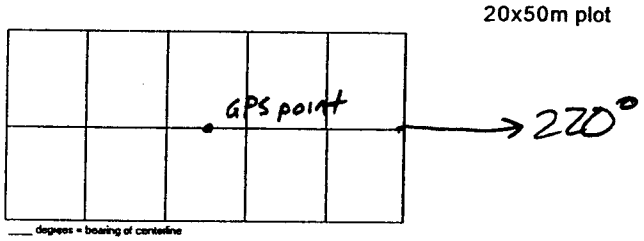
Time taken to walk to plot: 2 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ✓ YES ___ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)

Parking Area



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 1-4 Description of pictures (N,E,S & W from GPS point at middle of plot) : _____

Select one: ~~UTM~~ OR Lat/long (If lat/long, then values are 34.01454° N -088.89640° W

GPS Techniques/Equipment: Garmin III+ Garmin V Datum(pick ~~one~~) ~~NAD 83 OR NAD27~~ ~~UTM Zone: 15 16~~ WGS 84

GPS Unit ID _____ GPS file name NT154 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 371 m (ft)

Averaging performed (at least 120 observations)? Coordinate accuracy 4.8 m / ft DOP # sats

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Chickasaw Park: (NATR) VICK Plot Code: NT154 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 2 ° ____ %

__ Flat	0 °	0 %
✓ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 140 ° (N=0 °)

__ Flat		✓ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
✓ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

_ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	✓ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

✓ Not a wetland (Upland: XERIC : (DRY) - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

~~Mod SW~~

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Mid successional pine stand, burned recently Perhaps early 2004,

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam ✓ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
43 % Litter, duff
7 % Wood (> 1 cm)
____% Water
50 % Bare soil
____% Other _____

Leaf type:

__ Broad-leaved
✓ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

✓ Evergreen
__ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	✓ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
dogwood anthr	ORV	

Disturbance and animal use comments:

Rx burn done, early 2004?

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Chickasaw Park: (NATR) VICK Plot Code: NT154 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	20-35m	60%	Pinus taeda - 60%
Understory T3	10-15m	30%	Quercus falcata 5%, Quercus pagoda - 5% Liquidambar styraciflua - 10%
Tall shrub S1	2-5m	20%	various sprouts
Short shrub S2	.5-1m	10%	various sprouts
Herbaceous	—	80%	Erechtites hieracifolia - 60%
Non-vascular	—	—	
Vine/liana	—	—	

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	8								8	Pinu tae		
		5	3						5	Quer fal		
		5							5	Quer pag		
		5		3					5	Liqu sty		
		4	3	3					5	Frax ame		
		4	2	3					4	Ulmu ala		
		4	3	3					4	Pan ser		
			3						3	Cary alb		
					8				8	Erec hie		
					6				6	Part qui		
							3		3	Smil gla		
			3	3					3	Quer Nig		
					1				1	Scle ole		
				2					2	Rhus cop		
							3		3	Bere sca		
				1					1	Ligu sin		
					2				2	Rubu arg		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Chickasaw Park: NATR VICK Plot Code: NT154 State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
			3	2					3	Mor rub		
							3		3	Loni jap		
					2				2	Acal gra		
					1				1	Galactia sp		
					2				2	Lesp cun		
				2					2	Call ame		
					2				2	Chas ses		
					1				1	Sola car		
				2					2	Cary gla		
							2		2	Toxi rad		
							3		3	Viti aes		
				3					3	Corn flo		
							3		3	Smil bon		
							3		3	Viti rot		
				1					1	Quer mue		
					3				3	Phyt ame		
				2					2	Nyss syl		
			3						3	Quer alb		
					1				1	Sacc gig		
							2		2	Camp rad		
				2					2	Sass alb		
				1					1	Rhus gla		
					2				2	Carex sp		
					1				1	Pani cap		
					1				1	Lesp vir		

Use bottom of this sheet or additional pages for other species in 1 ha plot

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team AS & CWN, Plot NT 155

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 14 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
[redacted]	2	M		dominated by Juniperus virginiana otherwise perfect for 4664
7124	2	M		Worse - Juniperus Woodland is actually what plot is.
7747	1	H		Vegetation is adjacent top of

PLOT IS

little bluestem

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Lee? Park: (NATR) VICK Plot Code: NT155 State: AL (MS) TN Location org: NPS

Provisional community name Blackbelt Prairie -4664 in VA

Classified community name Sch.-zachyrium scoparium - Sorghastrum nutans - Dalea candida - Liatris squarrosa
Classifyer CWN *Date* _____ NVC ELCODE 4664 - (Silphium terebinthinaceum) Black Belt Herbaceous Vegetation

Survey date: 8/19/04 **Surveyors initials:** AI Schotz & CWN

Tagged tree is a cedar of 19 cm dbh with tag [redacted]. Center of 20 x 50m plot is at a bearing of 240 degrees and 2 m from tree. (OK)

Directions to tag tree (including any notes on best access route, and mile marker):

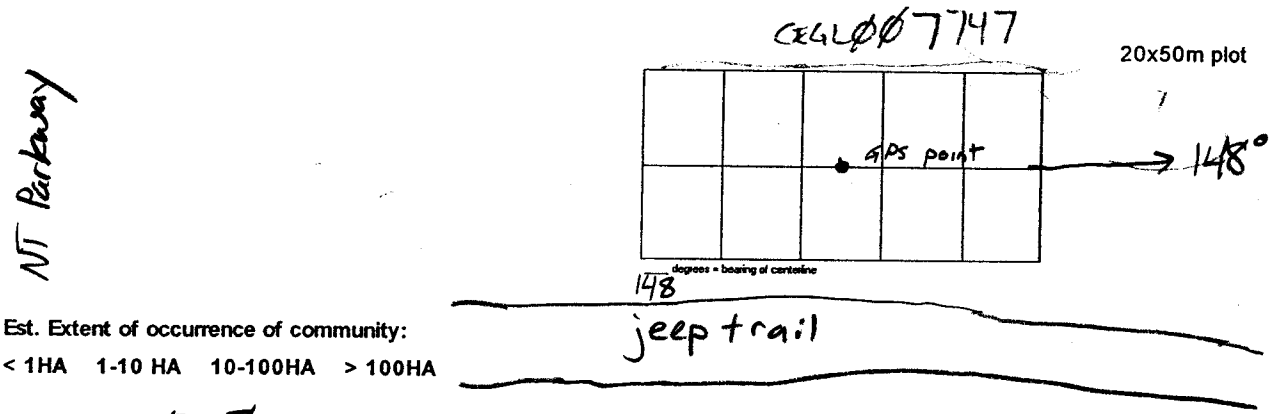
Blackbelt Prairie along N. side of eroded chalk ~~road~~ jeep road which goes SE from NT Parkway, just N. of Blackbelt Overlook site.

Time taken to walk to plot: 5 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:
< 1HA 1-10 HA 10-100HA > 100HA

PIC # 5-8 Description of pictures (N,E,S & W from GPS point at middle of plot) : _____

Select one: ~~UTM OR~~ (Lat/long) (If lat/long, then values are 34.15386 N -088.81628 W
WGS84

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD 83 OR NAD27~~ ~~UTM Zone: 15 16~~

GPS Unit ID _____ GPS file name NT155 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 333 (m) / ft

Averaging performed (at least 120 observations)? Coordinate accuracy 5.1 m / ft DOP # sats 5

Same # as NATR 1514 ? OK

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: NATR VICK Plot Code: MTISS State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 18 ° ____ %

__ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
✓ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 237 ° (N=0 °)

__ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	✓ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
✓ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	✓ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present: limestone

Hydrologic Regime (check only for wetlands)

✓ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Needs burning, perhaps thinning too in order to restore open conditions for prairie.

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam __ Clay loam ✓ Clay

Drainage:

__ Rapidly drained ✓ Moderately well drained __ Somewhat poorly drained
__ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock	50% Litter, duff	____% Other _____
____% Large rocks (cobbles, boulders >10cm)	____% Wood (> 1 cm)	
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	50% Bare soil	

Leaf type:

__ Broad-leaved
✓ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

✓ Evergreen
__ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

__ Forest (closed tree canopy)
✓ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	✓ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	✓ Fire Suppression
dogwood anthr	ORV	

Disturbance and animal use comments:

Needs burning.

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: NATR VICK Plot Code: MISS State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	5-10m	60%	Juniperus virginiana - 50%	.5-1m	10%
Understory T3	2-5m	30%	Juniperus virginiana - 30%	1-2m	20%
Tall shrub S1	1-2m	10%	Juniperus virginiana - 10%	2-5m	30%
Short shrub S2	.5-1m	—		5-10m	40%
Herbaceous	—	50%	Sorghastrum nutans - 10%, Schizachyrium scoparium - 10%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	5%	Berchemia scandens - 5%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	8	7	5						9	Juni vir		
		5	3						5	Quer mue		
					5				5	Sorg nut		
					5				5	Schi sco		
					3				3	Silp ter		
					1				1	Sch oli		
					2				2	Pani gat		
							3		3	Berc Sca		
					3				3	Cham Fas		
					2				2	Aste pat		
					1				1	Tram pan		
					3				3	Rati pin		
					2				2	Gala vol		
					1				1	Pens ten		
					2				2	Desm ill		
					2				2	Care che		
				2					2	Dios vir		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: _____ **Park:** NATR VICK **Plot Code:** NT155 **State:** AL MS TN **Location org:** NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					2				2	Stro hel		
					1				1	Rubb hir		
				2					2	Quer nig		
					3				3	Lesp vir		
					3				3	Dale can		
					2				2	Liat squ		
				2					2	Lobe spe		
					2				2	Dale pur		
					1				1	Ludw hir		
					1				1	Bout cur		
					2				2	Euph cor		
				2					2	Jugl nig		
					2				2	Bkep cil		
					1				1	Rhex hir		
					2				2	Hedy nig		
					2				2	Andr ger		
					2				2	Soli ptm		
				1						Toxi rad		
					2				2	Rubeup		
					2				2	Soli rig		
					3				3	Lesp cut		
				1					1	Rosa car		
					2				2	Aste dum		
								3	3	Pleo poly var. mich		
					1				1	Lobe spi var. lept		
					2				2	Desm cil		
					1				1	Saba any		
					1				1	Desm mar		
					1				1	Desm vir		
					2				2	Salv lyr		
					2				2	Liat squ		same as above?
					2				2	Eupa alt		
				2					2	Cean ame		
							2		2	Camp rad		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team_____, Plot NT 156.

Annotated by: CWN

Annotation Date (D-M-Y): Sept. 14, 2004

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
4052	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Chickasaw Park: NATR VICK Plot Code: NT156 State: AL (MS) TN Location org: NPS

Provisional community name Pinus echinata - Quercus falcata forest

Classified community name Pinus echinata - Quercus falcata East Gulf Coastal Plain Forest
Classifyer CWN *Date* 9/14/2004 *NVC ELCODE* 4052

Survey date: 8/19/2004 **Surveyors initials:** Al Schotz & CWN

Tagged tree is a Acer rubrum of 15 cm dbh with tag # 334. Center of 20 x 50m plot is at a bearing of 120° degrees and 1.8 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker): Mile 235.8 on NT Parkway
About 80 m west of NT Parkway on SW facing slope

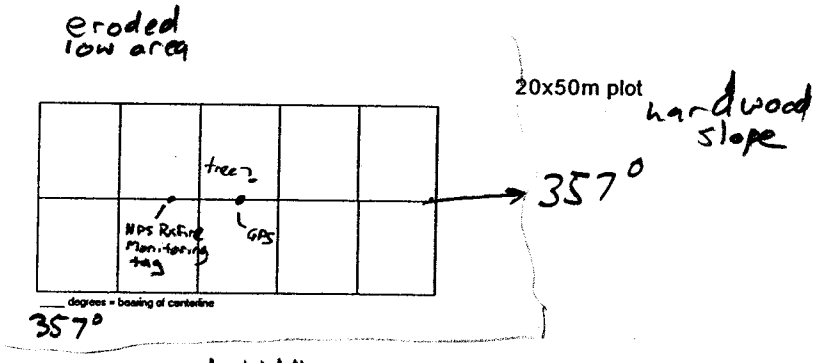
At M 32.4 on transect is NPS Fire monitoring tag on rebar.
"RX FIRE 1A WITCH W7 1.02"

Time taken to walk to plot: 5 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:
< 1HA 1-10 HA 10-100HA > 100HA

mixed loblolly pine & hardwoods

PIC # 9-12 Description of pictures (N,E,S & W from GPS point at middle of plot): roadside of NT Parkway

Select one: ~~UTM OR~~ (Lat/long) (If lat/long, then values are 33.94331° N -088.92706° W
WGS 84

GPS Techniques/Equipment: ~~Garmin III+~~ (Garmin V) Datum(pick one) ~~NAD 83 OR NAD27~~ UTM Zone: ~~15 16~~

GPS Unit ID _____ GPS file name NT 156 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 430 m / (ft) GPS

Averaging performed (at least 120 observations)? Coordinate accuracy 6.2 m / ft DOP # sats 5

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Chickasaw Park: (NATR) VICK Plot Code: NT156 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 4 ° ____ %

__ Flat	0 °	0 %
✓ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 235 ° (N=0 °)

__ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	✓ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion
__ Interfluve (Ridge/summit/crest) __ Toeslope
✓ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System
✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	✓ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)
✓ Not a wetland (Upland: XERIC : (DRY) : MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Burned recently (in 2004)

Soil Texture:
__ Sand __ Peat __ Silt loam __ Muck
✓ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:
__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock	55% Litter, duff	____% Other _____
____% Large rocks (cobbles, boulders >10cm)	5 % Wood (> 1 cm)	
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	40% Bare soil	

Leaf type:
__ Broad-leaved
✓ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
__ Cold-deciduous
__ Drought-deciduous
✓ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	✓ fire	_ Hydrologic
✓ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
_ dogwood anthr	ORV	

Disturbance and animal use comments:

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Chickasaw Park: NATR VICK Plot Code: NTI56 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	Pinus echinata - 30%, Quercus falcata - 40%	.5-1m	10%
Understory T3	15-20m	60%	Liquidambar styraciflua - 20%	1-2m	20%
Tall shrub S1	2-5m	20%	Acer rubrum - 5%	2-5m	30%
Short shrub S2	.5-1m	20%	Acer rubrum - 5%, Carya glabra - 5%	5-10m	40%
Herbaceous	–	5%	herbs very sparse	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana	–	30%	Vitis rotundifolia - 30%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	7			2					7	Pinu ech		
	7			3					7	Quer fal		
		5	3						5	Quer ste		
		4	3						4	Nyss syl		
		4	4	4					5	Acer rub		
		6	3	2					6	Liqu sty		
			3	4					4	Cary gla		
		5							5	Quer vel		
		5	3						5	Quer alb		
		4							4	Prun ser		
			3	2					3	Cary alb		
		5							5	Quer coc		
			3						3	Cary ova		
				2					2	Toxi rad		
							3		3	Part qui		
			3						3	Corn flo		
							2		2	Loni jap		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Chickasaw Park: (NATR) VICK Plot Code: NTI56 State: AL (MS) TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
							3		3	Smil gla		
							6		6	Viti rot		
				3					3	Sass alb		
					2				2	Sche dli		
					2				2	Pote sim		
					2				2	Erec hir		
					1				1	Schi sco		
					2				2	Lesp rep		
					2				2	Dich com		
					1				1	Dant ser		
					1				1	Stro umb		
			1						1	Rosa car		
							2		2	Smil bon		
							2		2	Smil rot		
							2		2	Viti aes		
					1				1	Smil rac		
					1				1	Hedi div		
			2						2	Ulmu ala		
					2				2	Dich dic		
					2				2	Dich bos		
					1				1	Gali pil		
			1						1	Hype hyp		
					2				2	Desm rot		
							2		2	Bere sca		
					1				1	Hypo hir		
			1						1	Rhus cop		
					1				1	Cocc car		
			1						1	Frax ame		
					2				2	Desm nud		
					1				1	Mant vir		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team_____, Plot NT157

Annotated by: CWN

Annotation Date (D-M-Y): Sept. 14, 2004

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
4053	1	H		!

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Clay Park: (NATR) VICK Plot Code: NT157 State: AL (MS) TN Location org: NPS

Provisional community name

Classified community name Pinus echinata - Quercus stellata - (Quercus Marilandica) Forest

Classifyer CWN *Date* 9/14/2004 *NVC ELCODE* CEGL004053

Survey date: 8/19/2004 **Surveyors initials:** Al Schotz & CWN

Tagged tree is a Shortleaf pine of 34 cm dbh with tag # 333. Center of 20 x 50m plot is at a bearing of 60 degrees and 3 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

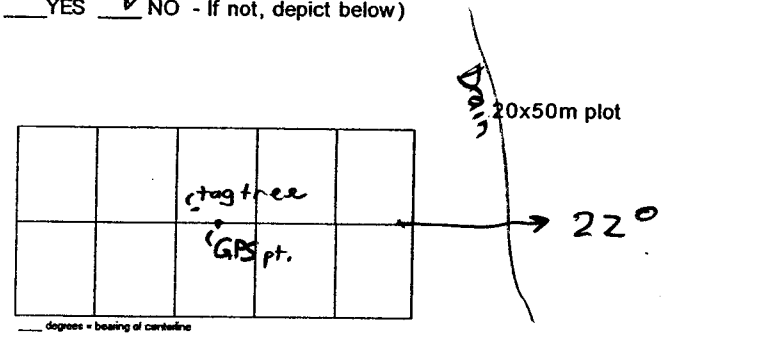
170m SW at 220° From Mile Marker 220.

Time taken to walk to plot: 2 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



22°

Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

Mowed paspalum notatum vegetation

PIC # 13-16

Description of pictures (N,E,S & W from GPS point at middle of plot) : paved NT Parkway

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 33.73696 N -089.02909 W

WGS 84

GPS Techniques/Equipment: ~~Garmin III+~~ (Garmin V) Datum(pick one) ~~NAD 83 OR NAD27~~ ~~UTM Zone: 16~~

GPS Unit ID _____ GPS file name NT157 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 333 (m) ft GPS

Averaging performed (at least 120 observations)? Coordinate accuracy 5 (m) / ft DOP # sats 5

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Clay Park: NATR VICK Plot Code: NT157 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %			Measured Aspect 0 ° (N=0 °)			Topographic Postion
__ Flat	0 °	0 %	__ Flat	__ SE	113-157 °	_ Interfluve (Ridge/summit/crest) __ Toeslope
✓ Gentle	0-5 °	1-9%	__ Variable	__ S	158-202 °	__ High Slope (upper/convex slope)
__ Moderate	6-14 °	10-25%	✓ N	__ SW	203-247 °	__ Midslope __ Low level (terrace)
__ Somewhat steep	15-25 °	26-49%	338-22 °	__ W	248-292 °	✓ Lowslope (lower/footslope) __ Channel bed
__ Steep	27-45 °	50-100%	__ NE	__ NW	293-337	
__ Very steep	45-69 °	101-275%	23-67 °			*Cowardin System*
__ Abrupt	70-100 °	276-300	__ E 68-112 °			✓ *Upland* _ *Palustrine*
__ ovrhng/shltrd	>100 °	>300%				_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	✓ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present: ✓

Hydrologic Regime (check only for wetlands)

✓ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)

__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)

__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Some wind + ice damage (downed)

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck

__ Sandy loam ✓ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained ✓ Moderately well drained __ Somewhat poorly drained

__ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock	97% Litter, duff	____% Other _____
____% Large rocks (cobbles, boulders >10cm)	3 % Wood (> 1 cm)	
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:

✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	✓ trails/roads	_ Agriculture
_ grazing/browsing	✓ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
dogwood anthr	ORV	

Disturbance and animal use comments:

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Clay **Park:** (NATR) VICK **Plot Code:** NTIS1 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	90%	Quercus stellata - 50%, Pinus echinata - 30%	.5-1m	10%
Understory T3	15-20m	10%	Quercus marilandica - 5%, Ulmus alata - 5%	1-2m	20%
Tall shrub S1	2-5m	50%	Vaccinium arboreum - 10%, Carya glabra - 10%	2-5m	30%
Short shrub S2	.5-1m	30%	Vaccinium arboreum - 5%	5-10m	40%
Herbaceous	—	20%	Diodia multiflora 10%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	30%	Vitis rotundifolia - 20%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

***T1:** Emergent | **T2:** Tree Canopy | **T3** Subcanopy | **S1** Tall Shrub (>1m; to 5m) | **S2** Short Shrub (< 1m) | **H** Herbaceous | **N** Nonvascular | **V** Vines (lianas) | **E** Epiphytes*

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	8								8	Quer ste		
	5		3	3					5	Quer alb		
	6		4	3					6	Cary alb		
	5		3						5	Cary ova [redacted]		
	7								7	Pinu ech		
		5	4	3					5	Ulmu ala		
			2						2	Moru rub		
			5	4					5	Vacc arb		
			5	3					5	Cary gla		
			4	2					4	Pour ser		
							3		3	Lonijap		
					2				2	Sele oli		
			4	3					4	Acer rub		
			3						3	Quer fal		
			4	3					4	Ilex dec		
				2					2	Rosa car		
				3					3	Toxi rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Clay **Park:** NATR VICK **Plot Code:** MS157 **State:** AL (MS) TN **Location org: NPS**

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
							6		6	Viti rot		
					5				5	Dioc mul		
					2				2	Heli hir		
							3		3	Smi rot		
					1				1	Tris ser		
			3						3	Quer coc		
					1				1	Euph cor		
							4		4	Parth qui		
		4	3						4	Quer mar		
				1					1	Juni vir		
				1					1	Trac dif		
				1					1	Quer nig		
				1					1	Dios vir		
					2				2	Chas ses		
			3						3	Corn flo		
					1				1	Rubu tri		
					1				1	Dich dos		
					1				1	Spiy mar		
			2						2	Ceat sp.		
				2					2	Ligu sin		
					1				1	Sani can		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Webster Park: (NATR) VICK Plot Code: NT158 State: AL (MS) TN Location org: NPS

Provisional community name _____

Classified community name _____

Classifyer CWN *Date* 9/14/2004 *NVC ELCODE* 7353

Survey date: 8/19/2004 **Surveyors initials:** Al Schotz & CWN

Tagged tree is a Sweetgum of 48 cm dbh with tag # 332. Center of 20 x 50m plot is at a bearing of 180° degrees and 5 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

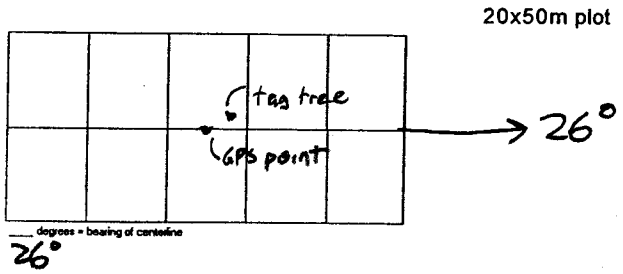
Center of plot is due West of MM 209, about 35m into woods. Tag tree has an old barbed wire fence thru it, which ends into the ground about 1 m on each side of tree.

Time taken to walk to plot: 2 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 17-20 **Description of pictures (N,E,S & W from GPS point at middle of plot) :** _____

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 33.60192° N −089.11289° W
WGS 84

GPS Techniques/Equipment: ~~Garmin III+~~ (Garmin V) Datum~~(pick one) NAD 83 OR NAD27~~ ~~UTM Zone: 15 16~~

GPS Unit ID _____ GPS file name NT158 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 459 m (ft) GPS

Averaging performed (at least 120 observations)? Coordinate accuracy 6.0 m/ ft DOP # sats 7

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Webster Park: (NATR) VICK Plot Code: NT158 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

✓ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

✓ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

__ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope ✓ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System ✓

__ Upland ✓ Palustrine
__ Estuarine __ Lacustrine __ Riverine

Landform (check most applicable)

✓ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded ✓ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded *__ Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Very large trees present, many over 70 cm dbh
largest in plot (Q. Pagoda) is 97 cm dbh!

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam ✓ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
__ Well drained ✓ Poorly drained *__ Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
82 % Litter, duff
3 % Wood (> 1 cm)
____% Water
15 % Bare soil
____% Other _____

Leaf type:

✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
Mixed

Leaf phenology (dominant stratum)

__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
dogwood anthr	ORV	

Disturbance and animal use comments:

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Webster Park: (NATR) VICK Plot Code: MTS58 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	35-60m	90%	Quercus pagoda – 50%
Understory T3	15-20m	30%	Liquidambar styraciflua – 20%
Tall shrub S1	2-5m	60%	Ulmus americana – 20% Carpinus caroliniana – 20%
Short shrub S2	.5-1m	40%	Toxicodendron radicans – 20%
Herbaceous	–	5%	herb layer very sparse
Non-vascular	–	–	
Vine/liana	–	20%	Vitis rotundifolia – 5% Toxicodendron radicans – 5%

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	8			3					8	Quer pag		
	6	6							7	Liqu sty		
	6		2	3					6	Quer mic		
	5								5	Quer tex		
	5								5	Quer alb		
			4	3					4	Cary lac		
			6	3					6	Ulmu ame		
		5	6	3					6	Carp car		
			4	4					5	Frax pen		
							3		3	Viti rot		
				6			3		6	Toxi rad		
							3		3	Smil rot		
			2	4					4	Cary gla		
			3	3					3	Acer rub		
							2		2	Loni jap		
				1					1	Liri tul		
				1					1	Morus rub		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Webster **Park:** (NATR) VICK **Plot Code:** NTIS **State:** AL (MS) TN **Location org: NPS**

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					2				2	Carex sp.		
							2		2	Bign cap		
			3	1					3	Fagu gra		
			2						2	Ilex opa		
				1					1	Aral spi		
			3	2					3	Hama vir		
			2	2					2	Cory ame		
				2					2	Prun ser		
				2					2	Ligu sin		
				1					1	Euon ame		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Attala Park: (NATR) VICK Plot Code: MT159 State: AL (MS) TN Location org: NPS

Provisional community name Nyssa aquatica Forest

Classified community name Nyssa aquatica forest
Classifyer CWN *Date* 8/20/04 *NVC ELCODE* 2414

Survey date: 8/20/2004 **Surveyors initials:** Al Schotz & CWN

Tagged tree is a No tag tree of ____ cm dbh with tag #_____. Center of 20 x 50m plot is at a bearing of ____ degrees and ____ m from tree.

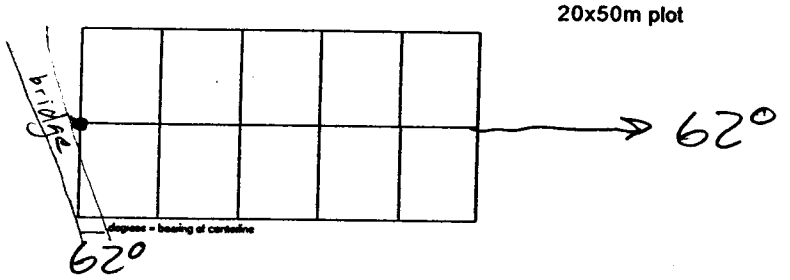
Directions to tag tree (including any notes on best access route, and mile marker): ~ 0.7 mile NE of M 175 Cole Creek Nature trail. End of transect is in middle of foot bridge across Gum Slough on rail on NE side of Bridge.

Time taken to walk to plot: 2 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location) Mowed roadside



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

bottomland

PIC # 21 Description of pictures (N,E,S & W from GPS point at middle of plot) : 21 is from bridge (transect origin GPS point) at 62°

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 33.22948° N -089.44535° W WGS 84

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD 83 OR NAD27~~ ~~UTM Zone: 15 16~~

GPS Unit ID _____ GPS file name NT 159 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 490 m (ft) GPS

Averaging performed (at least 120 observations)? Coordinate accuracy 9.0 m / ft DOP # sats 4

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Attala Park: NATR VICK Plot Code: NT159 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %		Measured Aspect ____ ° (N=0 °)	
✓ Flat	0 ° 0 %	✓ Flat	SE 113-157 °
Gentle	0-5 ° 1-9%	Variable	S 158-202 °
Moderate	6-14 ° 10-25%	N 338-22 °	SW 203-247 °
Somewhat steep	15-25 ° 26-49%	NE 23-67 °	W 248-292 °
Steep	27-45 ° 50-100%	E 68-112 °	NW 293-337
Very steep	45-69 ° 101-275%		
Abrupt	70-100 ° 276-300		
ovrhng/shltrd	>100 ° >300%		

Topographic Postion
- Interfluve (Ridge/summit/crest)
- Toeslope
- High Slope (upper/convex slope)
- Midslope
- Low level (terrace)
- Lowslope (lower/footslope)
- ✓ Channel bed

Cowardin System
- *Upland*
- ✓ *Palustrine*
- *Estuarine*
- *Lacustrine*
- *Riverine*

Landform (check most applicable)

Alluvial flat	Cove	Ridge
Alluvial terrace	Depression	Ridgetop bedrock outcrop
Bald	Draw	Saddle
Bank	Exogenous dome	Seep
Bar	Floodplain	Toe slope
Bench	Gap	Slope
Bottomlands	Gorge	Streambed
Cliff	Hillslope bedrock outcrop	Streamhead
	Midslope	Periglacial boulderfield
	Nose slope	Ravine

✓ slough

Rock types present:

Hydrologic Regime (check only for wetlands)
- Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
- Intermittently flooded
- Permanently flooded
- ✓ Semipermanently flooded
- Temporarily Flooded (e.g. floodplains)
- Seasonally Flooded (e.g. seasonal ponds)
- Saturated (e.g. bogs, perennial seeps)
- Unknown
- Irregularly flooded
- *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

a beaver dam at about meter 10 along transect has increased the water level in most of the plot by about ~~6 inches~~ 10".

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:
- Sand
- Peat
- Silt loam
- ✓ Muck
- Sandy loam
- Loam
- Clay loam
- Clay

Drainage:
- Rapidly drained
- Moderately well drained
- Somewhat poorly drained
- Well drained
- Poorly drained
- ✓ *Very poorly drained*

Ground cover
- ____% Bedrock
- ____% Large rocks (cobbles, boulders >10cm)
- ____% Small rocks (gravel, 0.2-10 cm)
- ____% Sand (0.1-2 mm)
- 5 % Litter, duff
- 5 % Wood (> 1 cm)
- 85 % Water
- ~~15~~ % Bare soil
- ____% Other _____

Leaf type:
- ✓ Broad-leaved
- Needle-leaved
- Microphyllous
- Graminoid
- Broad-leaved herbaceous
- Pteridophyte
- Extremely xeromorphic
- Mixed

Leaf phenology (dominant stratum)
- Evergreen
- ✓ Cold-deciduous
- Drought-deciduous
- Mixed evergreen-cold-deciduous
- Mixed evergreen drought deciduous
- Herb - Annual
- Herb - Perennial

Physiognomic Class
- ✓ Forest (closed tree canopy)
- Woodland (open tree canopy)
- Shrubland
- Dwarf Shrubland
- Herbaceous (less than 25% woody layers)
- Nonvascular
- Sparse Vegetation

Natural and Anthropogenic Disturbance

logging	fire	✓ Hydrologic
erosion	trails/roads	Agriculture
grazing/browsing	wind/ice damage	Old Growth
pine bark beetle	exotic plants	Fire Suppression
dogwood anthr	ORV	

Disturbance and animal use comments:

beavers

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Attala Park: (NATR) VICK Plot Code: MT159 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	90%	Nyssa aquatica-60%, Taxodium distichum-30%	.5-1m	10%
Understory T3	15-20m	50%	Acer rubrum-30%, Nyssa aquatica-20%	1-2m	20%
Tall shrub S1	2-5m	5%	tall shrub layer sparse	2-5m	30%
Short shrub S2	.5-1m			5-10m	40%
Herbaceous	–	20%	Boehmeria cylindrica 5%, Panicum geniculatum-5%	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana	–	10%	Toxicodendron radicans-5%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	8	6							9	Nyss aqu		
	7								7	Taxo dis		
					4				4	Boeh cyl		
					3				3	Bide fro		
								3	3	Pleo poly var. mic		
		7							7	Acer rub		
			5	4					5	Carp car		
			3						3	Itea vir		
							2		2	Dicw bar		
					2				2	Lycopus sp.		
					3				3	Pban gym		
					3				3	Comm vir		
					2				2	Saur cer		
							3		3	Toxi rad		
					2				2	Aste lat		
					2				2	Plat Pla		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Attala Park: NATR VICK Plot Code: NT160 State: AL MS TN Location org: NPS

Provisional community name

Classified community name Quercus Michauxii – Quercus shumardii – Liquidambar styraciflua / Acer rubrum Fagus grandifolia Forest
Classifyer CWN *Date* 9/14/2004 *NVC ELCODE* 2099

Survey date: 8/20/2004 **Surveyors initials:** AJ Schotz & CWN

Tagged tree is a Carpinus caroliniana of 10 cm dbh with tag # 331. Center of 20 x 50m plot is at a bearing of 335 degrees and 12.8 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

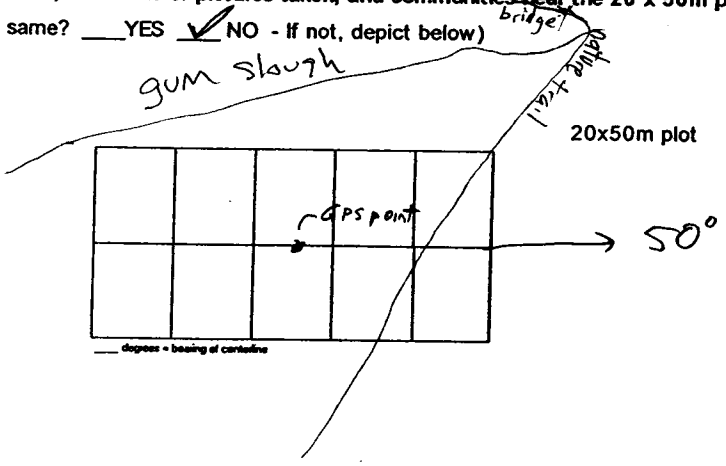
Cole Creek, ~0.7 mile NE of MM 175. Along Nature Trail past bridge & to right, center of plot is about 50 m south of bridge about 15 m west of trail

Time taken to walk to plot: 3 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ✓NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 22-25 Description of pictures (N,E,S & W from GPS point at middle of plot) :

Select one: ~~UTM~~ ~~OR~~ Lat/long (If lat/long, then values are 33.22881 N -089.44543 W WGS 84

GPS Techniques/Equipment: Garmin III+ Garmin V Datum(pick one) ~~NAD 83 OR NAD27~~ UTM ~~Zone: 15 16~~

GPS Unit ID _____ GPS file name NT160 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 460 m (ft) GPS

Averaging performed (at least 120 observations)? Coordinate accuracy 5.5 m / ft DOP # sats 6

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Attala Park: NATR VICK Plot Code: NT160 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

✓ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

✓ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope ✓ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

_ *Upland* ✓ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat
__ Alluvial terrace
__ Bald
__ Bank
__ Bar
__ Bench
✓ Bottomlands
__ Cliff
__ Cove
__ Depression
__ Draw
__ Exogenous dome
__ Floodplain
__ Gap
__ Gorge
__ Hillslope bedrock outcrop
__ Midslope
__ Nose slope
__ Ridge
__ Ridgetop bedrock outcrop
__ Saddle
__ Seep
__ Toe slope
__ Slope
__ Streambed
__ Streamhead
__ Periglacial boulderfield
__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded ✓ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

NE end of transect is becoming more inundated From beaver dam on slough above bridge to north (see notes For NT159).

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam ✓ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
__ Well drained ✓ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
80 % Litter, duff
5 % Wood (> 1 cm)
____% Water
15 % Bare soil
____% Other _____

Leaf type:

✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging _ fire ✓ Hydrologic
_ erosion _ trails/roads _ Agriculture
_ grazing/browsing _ wind/ice damage _ Old Growth
_ pine bark beetle _ exotic plants _ Fire Suppression
_ dogwood anthr _ ORV

Disturbance and animal use comments:

Beavers

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Attala Park: (NATR) VICK Plot Code: MT160 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	20-35m	80%	Quercus michauxii
Understory T3	10-15m	40%	Carpinus caroliniana
Tall shrub S1	2-5m		
Short shrub S2	.5-1m	30%	Toxicodendron radicans
Herbaceous	<.5m	20%	
Non-vascular			
Vine/liana			
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):			

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	8			4					8	Quer mic		
	~~4~~									Nyss syl		
		4								Cary lac		
		6	4	4					6	Carp car		
				6						Toxi rad		
				4			3		4	Bign cap		
										~~Toxi rad~~		
					3					Lycopus sp.		
				3						Smi rot		
		4	4						4	Ulmu ala		
			2	1					2	Asim tri		
					3					Pent see		
					2					Mikania sca		
	5			4					5	Acer rub		
					3					Saur cer		
					3					Boeh cyl		
					2					Care lou		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Attala Park: (NATR) VICK Plot Code: NT160 State: AL (MS) TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
			3	3					3	Frax pen		
					3				3	Leer vir		
					5				5	Phan aym		
					1				1	Phyt amer c		
			3	2					3	Sumb can		
			2						2	Sali nig		
					1				1	Saccharum sp.		
					2				2	Aste lat		
					4				4	Poly pun		
					3				3	Carex deb		
					2				2	Polygonum virginianum		
			2	M					2	Nyss aqv		
					2				2	Triadenum sp.		
					1				1	Mimu a/a		
							2		2	Lonijap		
							2		2	Brun oya		
					2				2	Lobe card		
					2				2	Care dig		
			3	2					3	Com Flo		
			3						3	Ilex del		
							2		2	Wist Fru		
					2				2	Rhyn cor		
					2				2	Ludwigia sp.		
			3	1					3	Itea vir		
					2				2	Care gla		
				1					1	Ceph occ		
			3							Cary ovalis		
			3		2					Comm vir		

Cover classes

1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team_____, Plot NT161.

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 15 / 2004

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
7380	1	H		Acer rubrum - Frax penn seasonally flooded Forest [placeholder] → Local description needed

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Attala Park: (NATR) VICK Plot Code: NT161 State: AL (MS) TN Location org: NPS

Provisional community name Acer rubrum ~~temp. flooded~~ seasonally flooded LA A.316

Classified community name Acer rubrum - Fraxinus pennsylvanica Seasonally Flooded Forest [placeholder]
Classifyer CWN *Date* 9/15/2004 NVC ELCODE 7380

Survey date: 8/20/2004 **Surveyors initials:** Al Schotz & CWN

Tagged tree is a Acer rubrum of 48 cm dbh with tag # 330. Center of 20 x ~~30~~ 40m plot is at a bearing of ____ degrees and 0.9 m from tree.

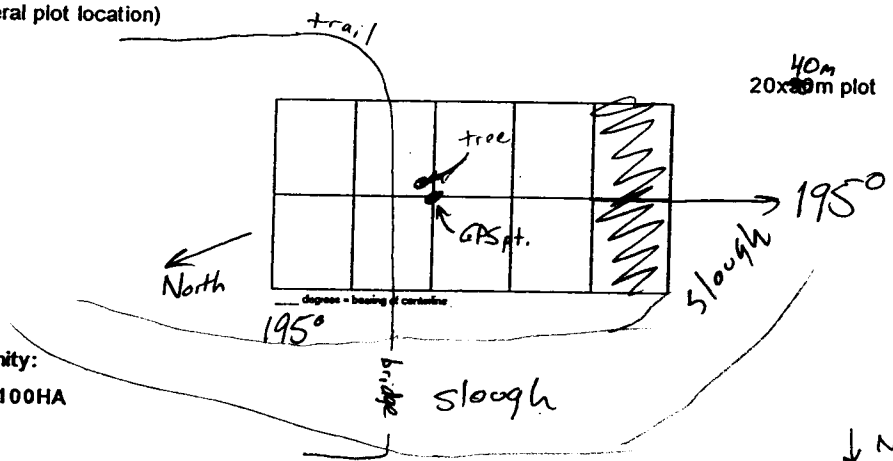
Directions to tag tree (including any notes on best access route, and mile marker): Follow Nature Trail at Cole Creek. Plot is across trail just before 2nd bridge as trail heads east towards NT Parkway. Tag tree is last large single trunked maple before bridge (15-20m from bridge).

Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x ~~30~~ 40m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES _✓_NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:
< 1HA 1-10 HA 10-100HA > 100HA

PIC # 26-29 Description of pictures (N,E,S & W from GPS point at middle of plot) : _____

Select one: ~~UTM~~ OR Lat/long (If lat/long, then values are 33.22853° N -089.44563° W
WGS 84

GPS Techniques/Equipment: ~~Garmin III+~~ Garmin V Datum(pick one) ~~NAD 83~~ OR NAD27 ~~UTM Zone: 15 16~~

GPS Unit ID _____ GPS file name NT161 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 495 m/~~ft~~ GPS

Averaging performed (at least 120 observations)? Coordinate accuracy 4.8 m / ft DOP # sats 3-4

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Attala Park: NATR VICK Plot Code: NT161 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %			Measured Aspect ____ ° (N=0 °)			Topographic Postion	
✓ Flat	0 °	0 %	✓ Flat		SE 113-157 °	_ Interfluve (Ridge/summit/crest)	_ Toeslope
_ Gentle	0-5 °	1-9%	_ Variable		S 158-202 °	_ High Slope (upper/convex slope)	
_ Moderate	6-14 °	10-25%	_ N	338-22 °	SW 203-247 °	_ Midslope	✓ Low level (terrace)
_ Somewhat steep	15-25 °	26-49%	_ NE	23-67 °	W 248-292 °	_ Lowslope (lower/footslope)	_ Channel bed
_ Steep	27-45 °	50-100%	_ E	68-112 °	NW 293-337		
_ Very steep	45-69 °	101-275%				*Cowardin System*	
_ Abrupt	70-100 °	276-300				_ *Upland*	✓ *Palustrine*
_ ovrhng/shltrd	>100 °	>300%				_ *Estuarine*	_ *Lacustrine* _ *Riverine*

Landform (check most applicable)

_ Alluvial flat	_ Cove	_ Ridge
_ Alluvial terrace	_ Depression	_ Ridgetop bedrock outcrop
_ Bald	_ Draw	_ Saddle
_ Bank	_ Exogenous dome	_ Seep
_ Bar	✓ Floodplain	_ Toe slope
_ Bench	_ Gap	_ Slope
_ Bottomlands	_ Gorge	_ Streambed
_ Cliff	_ Hillslope bedrock outcrop	_ Streamhead
	_ Midslope	_ Periglacial boulderfield
	_ Nose slope	_ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

_ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
_ Intermittently flooded _ Permanently flooded _ Semipermanently flooded ✓ Temporarily Flooded (e.g. floodplains)
_ Seasonally Flooded (e.g. seasonal ponds) _ Saturated (e.g. bogs, perennial seeps) _ Unknown _ Irregularly flooded _ *Irrgirly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

wetter than NT 160 (Quercus michauxii) soil mucky.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

perhaps cut over in the past and ⊗ maple is succession?

Soil Texture:
_ Sand _ Peat _ Silt loam _ Muck
_ Sandy loam _ Loam ✓ Clay loam _ Clay

Drainage:
_ Rapidly drained _ Moderately well drained _ Somewhat poorly drained
_ Well drained _ Poorly drained ✓ *Very poorly drained*

Ground cover

____ % Bedrock	20 % Litter, duff	____ % Other _____
____ % Large rocks (cobbles, boulders >10cm)	5 % Wood (> 1 cm)	
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % Sand (0.1-2 mm)	75 % Bare soil	

Leaf type:
✓ Broad-leaved
_ Needle-leaved
_ Microphyllous
_ Graminoid
_ Broad-leaved herbaceous
_ Pteridophyte
_ Extremely xeromorphic
Mixed

Leaf phenology (dominant stratum)
_ Evergreen
✓ Cold-deciduous
_ Drought-deciduous
_ Mixed evergreen-cold-deciduous
_ Mixed evergreen drought deciduous
_ Herb - Annual
_ Herb - Perennial

Physiognomic Class
✓ Forest (closed tree canopy)
_ Woodland (open tree canopy)
_ Shrubland
_ Dwarf Shrubland
_ Herbaceous (less than 25% woody layers)
_ Nonvascular
_ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
dogwood anthr	ORV	

Disturbance and animal use comments:

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Attala Park: (NATR) VICK Plot Code: NT161 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	20-35m	90%	Acer rubrum - 60%
Understory T3	15-20m	40%	Acer rubrum - 20%
Tall shrub S1	2-5m	50%	Carpinus caroliniana - 20% Itea virginica - 10%
Short shrub S2	.5-1m	10%	Acer rubrum - 5%
Herbaceous		60%	Saurus cernuus - 20%
Non-vascular	–	~	
Vine/liana	–	5%	Toxicodendron radicans - 5%

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	8	6	5	4					9	Acer rub		
		4	6						6	Carp car		
		3	3						3	Ulmu ame		
			6						6	Itea vir		
			3	2					3	Frax pen		
			2						2	Ceph occ		
		4	3	3					9	Quer lav		
	4		3						4	Nyss aqv		
			3						3	Cary ovalis		
			2						2	Corn Flor		
					3				3	Mikania scan		
					5				5	Phanop gym		
					6				6	Saur cer		
					2				2	Leer vir		
					3				3	Boeh cyl		
					4				4	Pent sec		
					2				2	Ludwigia sp.		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Attala **Park:** (NATR) VICK **Plot Code:** NT161 **State:** AL (MS) TN **Location org: NPS**

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
				1					1	Samb can		
					2				2	Rhyn cor		
							3		3	Toxi rad		
					1				1	Carex deb		
					2				2	Triadenum sp.		
					1				1	Carex sp.		
					2				2	Aste lat		
					2				2	Care lou		
					2				2	Pani rig		
					2				2	Poly punct		
					2				2	Mimu ala		
							2		2	Brun ova		
					2				2	Just ova		
							2		2	Bign cap		
					1				1	Bide fro		
					2				2	Pelt vir		
	4								4	Taxo dis		
	5	4							5	Ligu sty		
					2				2	Plat Pla		
					2				2	Leersia sp.		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team_____, Plot NT16Z

Annotated by: CWN

Annotation Date (D–M–Y): / /

****

Method of assignment:

☐ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
4006				May Prairie, TN only (GI)

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Attala Park: (NATR) VICK Plot Code: NT162 State: AL (MS) TN Location org: NPS

Provisional community name restored prairie grassland

Classified community name _____

Classifyer _____ *Date* _____ *NVC ELCODE* _____

Survey date: 8/20/2004 **Surveyors initials:** AI Schotz & CWN

Tagged tree is a Pinus taeda of 62 cm dbh with tag # 330 Center of 20 x 50m plot is at a bearing of 266° degrees and 11 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

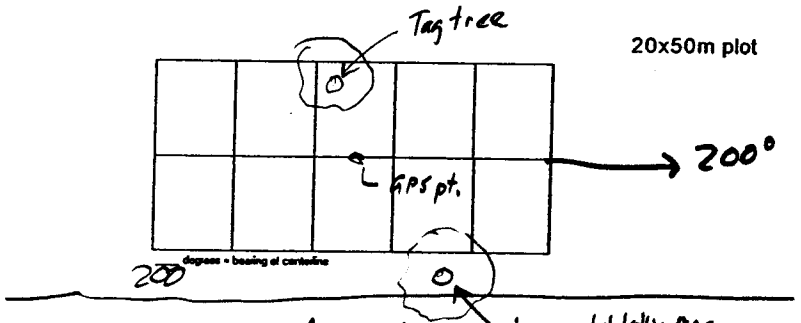
Open grassland on east side of NT Parkway, just South of MM 178. Tag tree is first large loblolly pine at bearing of 0° (due N) from Mile marker 178.

Time taken to walk to plot: 2 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 30-33

Description of pictures (N,E,S & W from GPS point at middle of plot) : _____

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 33.25422° N -089.42200° W

GPS Techniques/Equipment: ~~Garmin III+~~ (Garmin V) Datum(pick one) ~~NAD 83 OR NAD27~~ WGS 84 ~~UTM Zone: 15 16~~

GPS Unit ID _____ GPS file name NT162 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 456 m/(ft) GPS

Averaging performed (at least 120 observations)? 306 Coordinate accuracy 4.2 m / ft DOP _____ # sats 7

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Atala Park: NATR VICK Plot Code: NT162 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

__ Flat	0 °	0 %
✓ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

__ Flat		__ SE	113-157 °
✓ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
✓ Lowslope (lower/footslope) __ Channel bed

Cowardin System

✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat
__ Alluvial terrace
__ Bald
__ Bank
__ Bar
__ Bench
__ Bottomlands
__ Cliff
__ Cove
__ Depression
__ Draw
__ Exogenous dome
__ Floodplain
__ Gap
__ Gorge
__ Hillslope bedrock outcrop
__ Midslope
__ Nose slope
__ Ridge
__ Ridgetop bedrock outcrop
__ Saddle
__ Seep
__ Toe slope
✓ Slope
__ Streambed
__ Streamhead
__ Periglacial boulderfield
__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

✓ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Has been mowed infrequently, so grasses and forbs can grow waist high (1 m).

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam ✓ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
50% Litter, duff
____% Wood (> 1 cm)
____% Water
50% Bare soil
____% Other _____

Leaf type:

__ Broad-leaved
__ Needle-leaved
__ Microphyllous
✓ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
Mixed

Leaf phenology (dominant stratum)

__ Evergreen
__ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
✓ Herb - Perennial

Physiognomic Class

__ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
✓ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging _ fire _ Hydrologic
_ erosion _ trails/roads _ Agriculture
_ grazing/browsing _ wind/ice damage _ Old Growth
_ pine bark beetle _ exotic plants _ Fire Suppression
_ dogwood anthr _ ORV

Disturbance and animal use comments:

Managed with mowing.

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Atala Park: (NATR) VICK Plot Code: MT62 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	5%	Pinus taeda	.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous	1-2m	90%	Paspalum floridanum Dichanthelium scoparium Coreopsis tripteris Aster dumosos	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
					3					Schi sco		
					4					Pasp flo		
					3					Scut int		
					2					Soli nem		
					2					Lesp vir		
					1					Redi can		
					2					Rudb hir		
					3					Eupa pot		
					4					Core tri		
					3					Soli odo		
					4					Aste dum		
					2					Rhyn glo [redacted]		
					2					Aste pil var. hem.		
					1					Dity gen		
					3					Pani anc		
				1					1	Ligu sty		
					2					Eryn yuc		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Attala **Park:** (NATR) VICK **Plot Code:** NT162 **State:** AL (MS) TN **Location org:** NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					2				2	Desm mar		
				2					2	Quer pin		
					2				2	Pycn ten		
					3				3	Heli ang		
					2				2	Agal [redacted] Agalinus tenuifolia		
					2				2	Hel marginatus		
					3				3	Elym vir		
					2				2	Phys vir Physalis virginiana		
					2				2	Liat spi		
							2		2	Lonj jap		
					2				2	Thal rev		
					2				2	Soli can		
					4				4	Dich sco		
					2				2	Rhex mar		
					2				2	Pote sim		
					2				2	Trip dac		
					2				2	Cent vir		
					2				2	Cham fas		
							2		2	Viti aes		
							2		2	Part qui		
					2				2	Dich lin		
					2				2	Bolt dif		
					2				2	Desm pan		
					1				1	Linum sp.		
					1				1	Agal fas		
				1					1	RRus cop		
					1				1	Teph spi		
					1				1	Liat squ [redacted]		
					2				2	Stro umb		
					1				1	Styl bif		
					2				2	Silp int		
				1					1	Acer rub		
					1				1	Care com [redacted]		
					1				1	Lechea sp		
							1		1	Smil rot		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Attala Park: (NATR) VICK Plot Code: NT162 State: AL (MS) TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					1				1	Lobe pub		
					2				2	Verbesina sp.		
					1				1	Elep tom		
				2					2	Alys syl		
	3								3	Pinu tae		
					1				1	Seta par		
				1					1	Dios vir		
				1					1	Cary gla		
					1				1	Gala vol		
					1				1	Soli sug		
							1		1	Smil gla		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: CLAIBORNE Park: NATR VICK Plot Code: NT 163 State: AL (MS) TN Location org: NPS

Provisional community name KUDZU HILLSIDE

Classified community name PUERARIA MONTANA VAR LOBATA VINE-SHRUBLAND
Classifyer EKL/MILOP *Date* 8/31/04 *NVC ELCODE* EGL003882

Survey date: 8/23/04 **Surveyors initials:** AL SCHOTZ, ERIN LUNSFORD

Tagged tree is a NO TAG of ____ cm dbh with tag #_____. Center of 20 x 50m plot is at a bearing of ____ degrees and ____ m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

PLOT IS ON EAST (SE) SIDE OF ~~PKWY~~, 10 M FROM ROAD; KUDZU-COVERED HILLSIDE

*CENTER OF PLOT IS 5M TO SE OF GPS POINT.

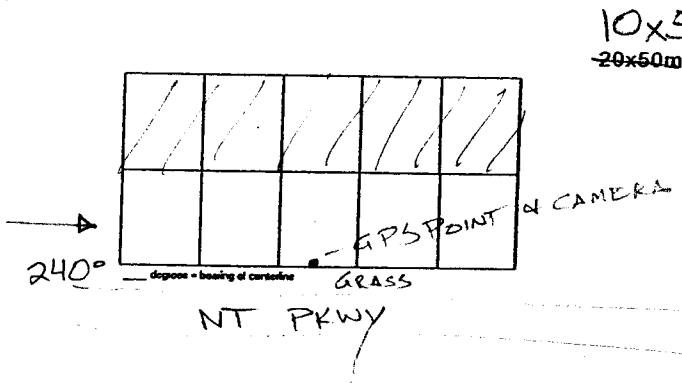
6/10 MILE N OF MILEPOST 38

Time taken to walk to plot: 10 SECONDS

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # ~~2-4~~ Accidentally erased

Description of pictures (N,E,S & W from GPS point at middle of plot): #2=NE #3=SE #4=SW PICTURES TAKEN FROM SAME VANTAGE POINT AS GPS

Select one: UTM OR (Lat/long) (If lat/long, then values are 31.93529 N -90.97900 W

WGS 84

GPS Techniques/Equipment: Garmin III+ Garmin V Datum(pick one) ~~NAD 83~~ OR ~~NAD27~~ UTM Zone: 15 16

GPS Unit ID _____ GPS file name NT163 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 120 m/(ft)

Averaging performed (at least 120 observations)? 211 Coordinate accuracy 9 (m)/ft DOP # sats 4

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: CLAIBORNE Park: NATR VICK Plot Code: NT163 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ___° ___ %			Measured Aspect 155° (N=0°)			Topographic Postion
__ Flat	0°	0 %	__ Flat	✓ SE	113-157°	__ Interfluve (Ridge/summit/crest) __ Toeslope
__ Gentle	0-5°	1-9%	__ Variable	__ S	158-202°	__ High Slope (upper/convex slope)
✓ Moderate	6-14°	10-25%	__ N 338-22°	__ SW	203-247°	✓ Midslope __ Low level (terrace)
__ Somewhat steep	15-25°	26-49%	__ NE 23-67°	__ W	248-292°	__ Lowslope (lower/footslope) __ Channel bed
__ Steep	27-45°	50-100%	__ E 68-112°	__ NW	293-337	
__ Very steep	45-69°	101-275%				*Cowardin System*
__ Abrupt	70-100°	276-300				✓ *Upland* __ *Palustrine*
__ ovrhng/shltrd	>100°	>300%				__ *Estuarine* __ *Lacustrine* __ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	✓ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present: None apparent

Hydrologic Regime (check only for wetlands)

✓ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)

__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded __ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY: Precip is likely well absorbed, as kudzu prevents rainflow off the ground surface

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):
Cleared and logged, which explains the prominence of kudzu.

Soil Texture:
__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam ✓ Clay loam __ Clay

Drainage:
__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

___% Bedrock	___% Litter, duff	0 % Other _____
___% Large rocks (cobbles, boulders >10cm)	___% Wood (> 1 cm)	
___% Small rocks (gravel, 0.2-10 cm)	___% Water	
___% Sand (0.1-2 mm)	___% Bare soil	

Leaf type:
✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
Mixed

Leaf phenology (dominant stratum)
__ Evergreen
__ Cold-decidiuous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
✓ Herb - Perennial

Physiognomic Class
__ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
✓ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	✓ exotic plants	_ Fire Suppression
dogwood anthr	ORV	

Disturbance and animal use comments:
Dominated by kudzu.

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: ~~CLAIBORNE~~ Park: (NATR) VICK Plot Code: NTN63 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous				10-15m	50%
Non-vascular				15-20m	60%
Vine/liana	—	100%	Pueraria montana var. lobata - 100%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
							10		10	Puer mon var. lob		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team_____, Plot UT164

Annotated by: Milo Ryne

Annotation Date (D-M-Y): 8/3/04

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.*	Reference	Notes:
8462 !	2 ?	H		fits description well,
7531	3 ?			(PROVISIONAL)
8450	2	H	NatR data analysis 2007-04-04	CWN

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

*CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: ADAMS Park: (NATR) VICK Plot Code: NT 164 State: AL (MS) TN Location org: NPS

Provisional community name _____

Classified community name PITA - LIST SEMI-NAT. 8450
Classifyer PYNE *Date* 8/31/04 *NVC ELCODE* 8462 (W/QUN1)

Survey date: 8/24/04 **Surveyors initials:** AL SCHOTZ, ERIN LUNSFORD

Tagged tree is a LIQU STY of ±19 cm dbh with tag # 326. Center of 20 x 50m plot is at a bearing of 190° degrees and 1 m from tree.

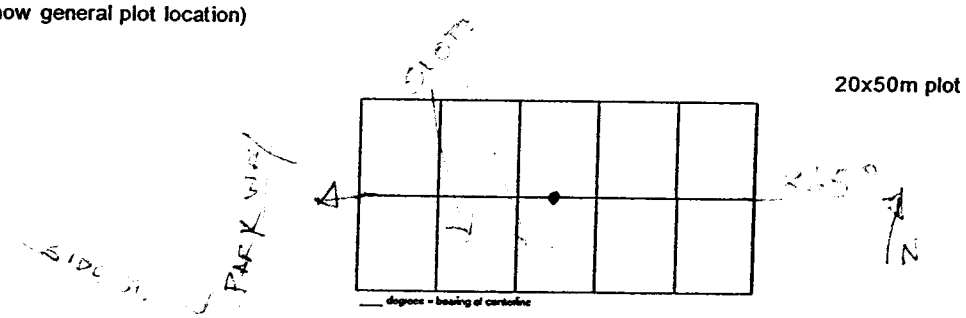
Directions to tag tree (including any notes on best access route, and mile marker): NEAR SOUTHERN TERMINUS of NATCHEZ TRACE PKWY, ON E SIDE of RD ±MILE 9.3 (½ MI. N. of OLD TRACE EXHIBIT)

Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:
< 1HA 1-10 HA 10-100HA >100HA

PIC # 5-6-9 23-26
23 = N 24 = E 25 = S 26 = W

Description of pictures (N,E,S & W from GPS point at middle of plot) : 23 = N

Select one: UTM OR (Lat/long) (If lat/long, then values are 31.62146 N -91.25176 W
WGS 84

GPS Techniques/Equipment: Garmin III+ Garmin V Datum(pick one) ~~NAD 83 OR NAD27~~ UTM Zone: 15 16

GPS Unit ID _____ GPS file name NT164 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 442 m / ft

Averaging performed (at least 120 observations)? ✓ Coordinate accuracy _____ m / ft DOP _____ # sats

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: ADAMS Park: (NATR) VICK Plot Code: NT164 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 5 ° ____ %

__ Flat	0 °	0 %
✓ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 155 ° (N=0 °)

__ Flat		✓ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
✓ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	✓ Midslope	__ Periglacial boulderfield
	Nose slope	Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : DRY - MESIC : (MESIC))
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam ✓ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
98 % Litter, duff
2 % Wood (> 1 cm)
____% Water
____% Bare soil
____% Other _____

Leaf type:

__ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
✓ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
__ Cold-deciduous
__ Drought-deciduous
✓ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

✓ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	✓ exotic plants	_ Fire Suppression
_ dogwood anthr	_ ORV	

Disturbance and animal use comments:

PRIVET

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: ADAMS Park: NATR VICK Plot Code: NT164 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE 8/24/04

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	20-35m	80%	Pinus taeda - 40 Quercus nigra
Understory T3	15-20m	80%	Liquidambar styraciflua - 60
Tall shrub S1	2-5m	40%	Quercus nigra - 10%, Liquidambar styraciflua - 10%
Short shrub S2	.5-1m	80%	Parthenocissus quinquefolia - 70%
Herbaceous	—	15%	total herbs - 15%
Non-vascular	—	—	
Vine/liana	—	40%	Toxicodendron radicans - 20%

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	7			3					7	Pinu tae		
	6	5	5	4					6	Quer nig		
	4	8	3	4					8	Liqu sty		
			2						2	Quer ste		
		5	3	3					4	Ulmu ame		
			4	3					4	Corn flo		
			3	1					3	Dios vir		
							3		3	Smil sma		
				2					2	Cary cor		
				2					2	Sass alb		
			2	2					2	Ligu sin		
				6			6		7	Toxi rad		
				8			5		8	Part qui		
							3		3	Viti rot		
					2				2	Botr dis		
							3		3	Smil bon		
							3		3	Camp rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: ADAMS Park: (NATR) VICK Plot Code: NT164 State: AL (MS) TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
							4		4	Lonijap		
					3				3	Poly dct		
					3				3	Amph bra		
			4	2					4	Ilex dln		
							4		4	Gels sem		
							2		2	Dios bat		
							3		3	Bign cap		
					2				2	Tris dra		
			3	3					4	Trun car		
					3				3	Osm sct		
					2				2	Chas zes		
					1				1	Botr vir		
					2				2	Aris tri		
					2				2	Sani can		
					2				2	Rubu ars		
		3							3	Moru rub		
					1				1	Ruel car		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team_____, Plot NT165

Annotated by: Milo Pyne & Carl Nordman

Annotation Date (D-M-Y): 8/31/2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

TNC ECOREGION 43

Assignment to Classification(s)

Class CODE	Fit*	Conf.*	Reference	Notes:
3807	3			HAS TOO MUCH CANOPY TO BE PURELY A SHRUBLAND
6927	2?			LIQU STY FOREST
9216?	1	~~H~~ M	CWN	Cut over, but still classifies here

merged?

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal
3 QUESTIONABLE

*CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: ADAMS Park: NATR VICK Plot Code: NTV65 State: AL MS TN Location org: NPS

Provisional community name PRIVET

Classified community name Liquidambar styraciflua Forest

Classifyer CWN *Date* 9/9/2004 *NVC ELCODE* 7216

Survey date: 8/24 Surveyors initials: AL S. ERIN L.

Tagged tree is a ACER NEG of 21 cm dbh with tag # 329. Center of 20 x 50m plot is at a bearing of ~~__ degrees and~~ X m from tree. SOUTH-FACING BASE OF TREE / SOUTH-FACING

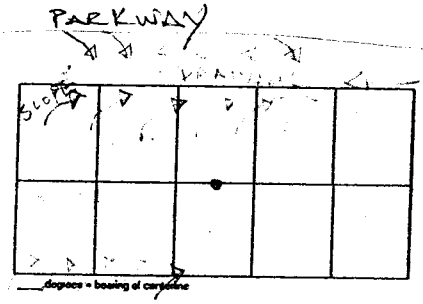
Directions to tag tree (including any notes on best access route, and mile marker):

Time taken to walk to plot: 15 SECONDS

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



20x50m plot

N

A 60°

Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # ~~10-13~~ 27-30 Description of pictures (N,E,S & W from GPS point at middle of plot) : N E S W

Select one: UTM OR Lat/long (If lat/long, then values are 31.62475 N -91.24751 W

GPS Techniques/Equipment: Garmin III+ Garmin V Datum(pick one) ~~NAD 83 OR NAD27~~ WGS 84 UTM Zone: 15 16

GPS Unit ID _____ GPS file name NT165 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 394' m / ft

Averaging performed (at least 120 observations)? ✓ Coordinate accuracy _____ m / ft DOP _____ # sats

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: ADAMS Park: (NATR) VICK Plot Code: NT[illegible] State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %		
__ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
✓ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 345° (N=0 °)

__ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
✓ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
✓ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	✓ Midslope	__ Periglacial boulderfield
	__ Nose slope	Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

X Not a wetland (Upland: XERIC : DRY - MESIC : (MESIC))
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

LAND CLEARED/BULLDOZED. DIRT TRACKS NEAR TENT

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam ✓ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
__ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____ % Bedrock	9 % Litter, duff	____ % Other _____
____ % Large rocks (cobbles, boulders >10cm)	2 % Wood (> 1 cm)	
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % Sand (0.1-2 mm)	7 % Bare soil	

Leaf type:

✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
Mixed

Leaf phenology (dominant stratum)

__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

__ Forest (closed tree canopy)
✓ Woodland (open tree canopy) WITH SOME SHRUB UNDERSTORY
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

✓ logging	_ fire	_ Hydrologic
_ erosion	✓ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	✓ exotic plants	_ Fire Suppression
dogwood anthr	ORV	

Disturbance and animal use comments:

CLEARED

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: [illegible] Park: (NATR) VICK Plot Code: NT165 State: AL (MS) TN Location org: NPS

8/24/04

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1		[illegible]	[illegible]	< .5m	5%
Tree Canopy T2	15-20m	30%	Liquidambar styraciflua - 30%	.5-1m	10%
Understory T3	10-15m	40%	Acer negundo - 20%	1-2m	20%
Tall shrub S1	2-5m	90%	Ligustrum sinense - 90%	2-5m	30%
Short shrub S2	.5-1m	10%	Ligustrum sinense - 5%	5-10m	40%
Herbaceous		5%	herb layer very sparse - 5%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Lonicera japonica - 5%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

***T1:** Emergent | **T2:** Tree Canopy | **T3** Subcanopy | **S1** Tall Shrub (>1m; to 5m) | **S2** Short Shrub (< 1m) | **H** Herbaceous | **N** Nonvascular | **V** Vines (lianas) | **E** Epiphytes*

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	7	4							7	Liqu sty		
		6	4	3					6	Acer neg		
			9	3					9	Ligu sin		
							3		3	Viti rot		
							2		2	Part qui		
					2				2	Osp set		
							3		3	Loni jap		
							2		2	Toxi rad		
					2				2	Aspl p/a		
					2				2	Poly acr		
				2					2	Samb can		
							1		1	Camp rad		
				1					1	Card cor		
				1					1	Cerc can		
		4		2					4	Quer nig		
							2		2	Ampe arb		
				2					2	Corn foe		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: ATAM Park: (NATR) VICK Plot Code: NT16 State: AL (MS) TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
							2		2	Viti aes		
					2				2	Polygonum virginianum		
					1				1	Sanicam		
				1					1	Prun ser		
							1		1	Smil bon		
					1				1	Toxi pun		
				1					1	Prun car		
		3	3	2					3	Ulmu ame		
					2				2	Tipu dis		
				1					1	Lind ben		
		3							3	Ulmu ala		
					1				1	Fris dsa		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team_____, Plot NT166.

Annotated by: ~~MT~~ EKL & CWN

Annotation Date (D-M-Y): 9 / 1 / 104

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

4770

Class CODE	Fit*	Conf.*	Reference	Notes:
→ New 4109				UPLAND QUER PAGODA ALLIANCE A.252 Quercus pagoda-Quercus nigra Forest
? 3871 UPLAND	2-3	M		HAS Q. PAGODA + LIQ. STY, + OSTR VIR, BUT LITTLE OF OTHER ASSOCIATES EXPECTED "WESTERN TENNESSEE"
7354	2+	M		BUT IS SUPPOSED TO OCCUR ON TERRACES + BOTTOMLANDS — THIS IS A SOMEWHAT STEEP RAVINE HAS LOTS OF EXPECTED ASSOCIATES
7353	2-3	M-L		NOT AS GOOD A FIT, BUT SUPPOSED TO BE LESS FLOOD-PRONE
7712 UPLAND	2	L		LOUISIANA; HERBACEOUS SPP DONT FIT

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

*CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: ADAMS Park: NATR VICK Plot Code: NT166 State: AL (MS) TN Location org: NPS

Provisional community name A.252

Classified community name Quercus pagoda – Quercus nigra Forest
Classifyer CWN *Date* _____ *NVC ELCODE* CEGL006409

Survey date: 8/24 Surveyors initials: A. SCHOTZ, E. LUNSFORD

Tagged tree is a FRAX AME of 8.5 cm dbh with tag # 328 → FACING WNW. Center of 20 x 50m plot is at a bearing of 225 degrees and 1.5 m from tree. → JUST DOWNSLOPE (2 M) FROM LARGE DBL-TRUNKED QUER NIG

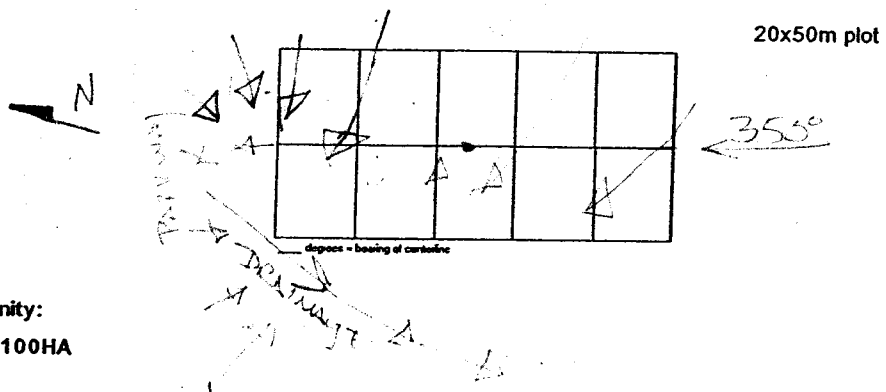
Directions to tag tree (including any notes on best access route, and mile marker): MILE 10.8 OR 10.9 JUST N OF EXIT TO EMERALD MOUND ½ MI. ON E (SE) SIDE OF NT PKWY, E SIDE OF RAVINE (W-FACING SLOPE)

Time taken to walk to plot: 10 SECONDS

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:
< 1HA 1-10 HA 10-100HA > 100HA

PIC # ~~NT~~ 31-34 Description of pictures (N,E,S & W from GPS point at middle of plot): N

Select one: UTM OR Lat/long (If lat/long, then values are 31.[illegible] N -9[illegible] W

GPS Techniques/Equipment: Garmin III+ Garmin V Datum(pick one) ~~NAD 83 OR NAD27~~ WGS 84 UTM Zone: 15 16

GPS Unit ID _____ GPS file name NT166 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 491 m / ft

Averaging performed (at least 120 observations)? Coordinate accuracy 7 m / ft DOP # sats

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: ADAMS Park: (NATR) VICK Plot Code: NT166 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ___25___ ° ____ %		
__ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
✓ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 275° (N=0 °)			
__ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	✓ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion
__ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
✓ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System
✓ *Upland* __ *Palustrine*
__ *Estuarine* __ *Lacustrine* __ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	✓ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)
✓ Not a wetland (Upland: XERIC : DRY - MESIC : (MESIC))
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:
__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam ✓ Clay loam __ Clay

Drainage:
__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover — UNVEGETATED SURFACE
____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
90 % Litter, duff
10 % Wood (> 1 cm)
____% Water
____% Bare soil
____% Other _____

Leaf type:
✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
Mixed

Leaf phenology (dominant stratum)
__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

✓ logging	__ fire	__ Hydrologic
✓ erosion	✓ trails/roads - PKWY	__ Agriculture
__ grazing/browsing	__ wind/ice damage	__ Old Growth
__ pine bark beetle	__ exotic plants	__ Fire Suppression
__ dogwood anthr	__ ORV	

Disturbance and animal use comments:
CLEARED IN PAST
SOME RUSTED CANS

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: ADAMS Park: (NATR) VICK Plot Code: NT166 State: AL (MS) TN Location org: NPS 8/24/04

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	Quercus pagoda - 50%	.5-1m	10%
Understory T3	15-20m	40%	Liquidambar styraciflua - 20%	1-2m	20%
Tall shrub S1	2-5m	40%	Carpinus caroliniana - 10%	2-5m	30%
Short shrub S2	.5-1m	90%	Toxicodendron radicans - 80%	5-10m	40%
Herbaceous	–	20%	herb layer sparse - 20%	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana		20%	Toxicodendron radicans 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
			4	2					4	OSTR VIR		
			5	3					5	CARP CAR		
	T	3							7	QUER PAG		
				9			5		9	TOXI RAD		
			3	3					4	ULMU rub		
		4	3						4	ULMU ALA		
				3					3	ELON AME		
		4	4	3					5	Corn flo		
					3				3	Poly acr		
	5	6	4	2					6	Liqu sty		
				2					2	Dios vir		
	5		4	3					5	Quer nig		
		4	2	3					4	Frax pen		
			2						2	Corn foe		
	4								4	Magn gra		
					2				2	Eupa ser		
				2					2	Fran car		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Adams Park: (NATR) VICK Plot Code: NT166 State: AL (MS) TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
							1		1	Ampe cor		
							1		1	Cocc car		
					1				1	Isac dif		
					1				1	Dicl bsq		
							2		2	Smil rot		
					1				1	Mate sp.		
				2					2	Cerc can		
							3		3	Loni jap		
					2				2	Chas fes		
					2				2	Ostr set		
					1				1	Dich bos		
				r					1	Cary car		
					1				1	Care dig		
					2				2	Aste lat		
					2				2	Oleum can		
					1				1	Clem vir		
					2				2	Lact fto		
					1				1	Ruel car		
				2					2	Sass alb		
							2		2	Smil bon		
							3		3	Bign cap		
								3	3	Till u3n		
					1				1	Aris ser		
					1				1	Tril cun		
					1				1	Phry lep		
				1					1	Vibu ruf		
				1					1	Ligu jap		
				1					1	Lind Ful		
		3							3	Quer mic		
					1				1	Erac hir		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team_____, Plot NT167.

Annotated by: ERIN LUNSFORD

Annotation Date (D-M-Y): 9 / 1 / 04

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

A.287

Assignment to Classification(s)

Class CODE	Fit*	Conf.*	Reference	Notes:
~~7330~~				NEW? NOTHING IN CLASS DOC 1b HAS EQUISETUM HYEMALE
~~4418~~				
7330	1	M		Cover 8 of Sarcobatus (CWN)

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

*CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: JEFFERSON Park: (NATR) VICK Plot Code: NT167 State: AL (MS) TN Location org: NPS

Provisional community name (EQUISETUM) A. 287

Classified community name Liquidambar styraciflua – (Liriodendron tulipifera) Temp. Flooded Forest

Classifyer CWN Date _____ NVC ELCODE CEGL000330

Survey date: 8/24/04 Surveyors initials: A. SCHOTZ, L. LUNSFORD

Tagged tree is a QUER NIG of 33 cm dbh with tag # 327 NE Center of 20 x 50m plot is at a bearing of 10 degrees and 2 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

0.4 MI N OF "TURKEY CREEK" PICNIC AREA; 0.15 MI. N OF "LOUSS BLUFF" TURNOUT, ON NT PKWY.

ON L (SE) SIDE OF NT PKWY

Time taken to walk to plot:

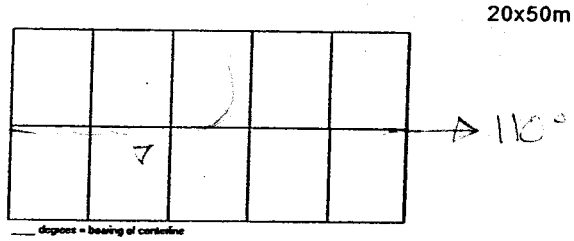
PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below) WELL OVER

PLOT LOCATION (Below show general plot location)

N

20x50m plot



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # ~~18~~ ~~21~~ 35-38

Description of pictures (N,E,S & W from GPS point at middle of plot) : N E S W

Select one: UTM OR (Lat/long) (If lat/long, then values are 31.24x.xx N ___.xx W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD 83 OR NAD27~~ WGS 84 UTM Zone: 15 16

GPS Unit ID _____ GPS file name NT167 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 200' m / ft

Averaging performed (at least 120 observations)? Coordinate accuracy 6 m / ft DOP .5 # sats

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Jackson Park: (NATR) VICK Plot Code: NT167 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

✓ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

✓ Flat	__ SE 113-157 °
__ Variable	__ S 158-202 °
__ N 338-22 °	__ SW 203-247 °
__ NE 23-67 °	__ W 248-292 °
__ E 68-112 °	__ NW 293-337

Topographic Postion

__ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope ✓ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

_ *Upland* ✓ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat
✓ Alluvial terrace
__ Bald
__ Bank
__ Bar
__ Bench
__ Bottomlands
__ Cliff
__ Cove
__ Depression
__ Draw
__ Exogenous dome
__ Floodplain
__ Gap
__ Gorge
__ Hillslope bedrock outcrop
__ Midslope
__ Nose slope
__ Ridge
__ Ridgetop bedrock outcrop
__ Saddle
__ Seep
__ Toe slope
__ Slope
__ Streambed
__ Streamhead
__ Periglacial boulderfield
__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded ✓ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture: ✓ SILTY CLAY

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
__ Well drained ✓ Poorly drained __ *Very poorly drained*

Ground cover

____ % Bedrock
____ % Large rocks (cobbles, boulders >10cm)
____ % Small rocks (gravel, 0.2-10 cm)
____ % Sand (0.1-2 mm)
40 % Litter, duff
____ % Wood (> 1 cm)
____ % Water
60 % Bare soil
____ % Other _____

Leaf type:

✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
Mixed

Leaf phenology (dominant stratum)

__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging _ fire ✓ Hydrologic
_ erosion _ trails/roads _ Agriculture
_ grazing/browsing _ wind/ice damage _ Old Growth
_ pine bark beetle _ exotic plants _ Fire Suppression
dogwood anthr ORV

Disturbance and animal use comments:

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Jefferson Park: (NATR) VICK Plot Code: NT167 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	80%	Liquidambar styraciflua - 60%,	.5-1m	10%
Understory T3	15-20m	60%	Liquidambar styraciflua - 20%, Ulmus americana 20%	1-2m	20%
Tall shrub S1	2-5m	50%	Carpinus caroliniana - 20%	2-5m	30%
Short shrub S2	.5-1m	30%	Carpinus caroliniana - 5%, Quercus nigra - 5%	5-10m	40%
Herbaceous	—	100%	Equisetum hyemale ssp. affine - 90%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	30%	Vitis rotundifolia - 20%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	8	6	5						8	Liqu sty		
		6	5	3					6	Ulmu ame		
		4	6	4					7	Carp car		
		4	4	3					5	Ulmu ala		
							6		6	Viti rot		
					9				9	Equi hye ssp. aff		
			4	3					4	Frax pen		
					2				2	Micr vim		
							2		2	Bign cap		
					2				2	Elep car		
	6	5		4					6	Quer nig		
					2				2	Cryp can		
					2				2	Soli nig		
					2				2	Dich bas		
							5		5	Part qui		
					2				2	Sani can		
					2				2	Aste lat		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Jefferson Park: (NATR) VICK Plot Code: MT167 State: AL (MS) TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
			3	3					4	Quer mic		
					2				2	Leer vir		
					3				3	Amph bra		
							3		3	Smil rot		
					1				1	Clem vir		
					2				2	Chas lat		
					2				2	Polygonum virginianum		
					2				2	Dich cla		
			4	3					4	Lind ben		
					1				1	Agri ros		
					1				1	Eup rug		
					2				2	Osm sat		
					2				2	Rany rec		
	5								5	Gled tri		
	5								5	Quer rub		
					1				1	Phyr lep		
					1				1	Care dub		
					2				2	Poly acr		
					2				2	Care cha		
			3	2					3	Corn foe		
							3		3	Till usn		
							2		2	Berc sca		
			3						3	Fran car		
					2				2	Soli rug		
	4								4	Liri tul		
		3							3	Cerc can		
					2				2	Chas ses		
					1				1	Mate gym		
			2						2	Vibu rut		
	4								4	Toxi del		
							2		2	Ampe cor		
							2		2	Pleo poly ssp. mich		
		3							3	Jugl nig		
				2					2	Cate dig		
				1					1	Brum can		

Use bottom of this sheet or additional pages for other species in 1 ha plot

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team AS &EKL, Plot NT168.

Annotated by: E-LUNS

Annotation Date (D-M-Y): 9 / 1 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

A:2867

Assignment to Classification(s)

NOT UPLAND
~~A:2814~~

Class CODE	Fit*	Conf.*	Reference	Notes:
~~7987~~	2	M		CONCEPT ONLY INCLUDES UPPER WEST GULF COASTAL PLAIN & SO. ARKANSAS BUT GLEDITSIA + ULMU AME = CANOPY
✓ 4619	2	H		ZOLLNER NOTE SAYS 4619 + 7987 MAY BE SAME.

Other Comments:

LIQU STY ~~UPLAND~~

*FIT: 1 = fits concept well
2 = fits;not typal

*CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: JEFFERSON Park: NATR VICK Plot Code: NTV68 State: AL MS TN Location org: NPS

Provisional community name Honeylocust A-234

Classified community name Quercus fagaca – Celtis laevigata – Ulmus (americana, crassifolia) – (Gleditsia triacanthos) forest
Classifyer CWN&ERL *Date* 9/2009 *NVC ELCODE* 4619

Survey date: 8/24/04 **Surveyors initials:** A. SCHOTZ, E. LUNSFORD

Tagged tree is a ULMU AME of 13 cm dbh with tag # 325. Center of 20 x 50m plot is at a bearing of 20 degrees and 2 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

½ MI. N of "HISTORIC INN" & MOUNT LOCUST PARK HEADQUARTERS; IMMEDIATELY S of ~~LARGE ROCK~~ RIVER & CREEK; WITH A SMALL RIVER BAR SHALLOW & MOSTLY SANDBARS, 40M W of PARKWAY

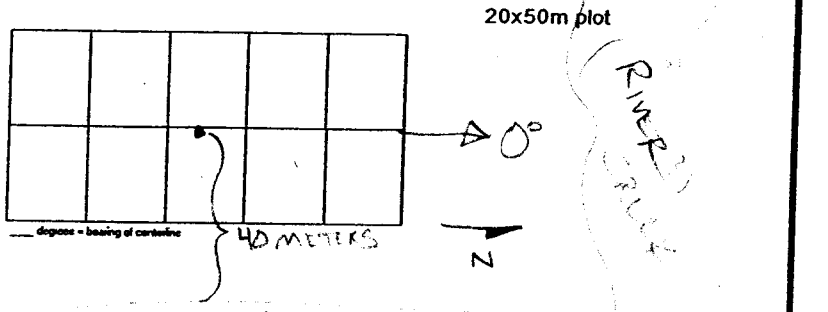
PARK ON S END of BRIDGE, & WALK NW DOWN INTO ALLUVIAL TERRACE ON W SIDE of ROAD.

Time taken to walk to plot: 2 MINUTES

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # ~~2-2-2539~~ 42 Description of pictures (N,E,S & W from GPS point at middle of plot) : N E S W

Select one: UTM OR Lat/long (If lat/long, then values are 31.69257 N -91.18181 W

GPS Techniques/Equipment: Garmin III+ Garmin V Datum(pick one) ~~NAD 83 OR NAD27~~ WGS84 UTM Zone: 15 16

GPS Unit ID _____ GPS file name NTV68 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 30 m / ft

Averaging performed (at least 120 observations)? Coordinate accuracy 6 m / ft DOP 6 # sats

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: I. [illegible] Park: (NATR) VICK Plot Code: NT168 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %			Measured Aspect ____ ° (N=0 °)		Topographic Postion	
✓ Flat	0 °	0 %	✓ Flat	__ SE 113-157 °	_ Interfluve (Ridge/summit/crest)	__ Toeslope
__ Gentle	0-5 °	1-9%	__ Variable	__ S 158-202 °	__ High Slope (upper/convex slope)	
__ Moderate	6-14 °	10-25%	__ N 338-22 °	__ SW 203-247 °	__ Midslope	✓ Low level (terrace)
__ Somewhat steep	15-25 °	26-49%	__ NE 23-67 °	__ W 248-292 °	__ Lowslope (lower/footslope)	__ Channel bed
__ Steep	27-45 °	50-100%	__ E 68-112 °	__ NW 293-337		
__ Very steep	45-69 °	101-275%			*Cowardin System*	
__ Abrupt	70-100 °	276-300			_ *Upland* ✓ *Palustrine*	
__ ovrhng/shltrd	>100 °	>300%			_ *Estuarine* _ *Lacustrine* _ *Riverine*	

Landform (check most applicable)		
__ Alluvial flat	__ Cove	__ Ridge
✓ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)

__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded ✓ Temporarily Flooded (e.g. floodplains)

__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

FLOODS PERIODICALLY -- JUST N of PLOT (CLOSER TO RIVER) IS FLOTSAM (+) -- TWIGS & SUCH.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

LOTS of YOUNG PRIVET (±1 M HIGH).

✓ ALSO NT 167 - CHINESE TALLOW

Soil Texture:					Drainage:		
__ Sand	__ Peat	__ Silt loam	__ Muck		__ Rapidly drained	__ Moderately well drained	✓ Somewhat poorly drained
__ Sandy loam	__ Loam	✓ Clay loam (SILTY CLAY)	__ Clay		__ Well drained	__ Poorly drained	__ *Very poorly drained*

Ground cover

____ % Bedrock	45 % Litter, duff	____ % Other _____
____ % Large rocks (cobbles, boulders >10cm)	5 % Wood (> 1 cm)	
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % Sand (0.1-2 mm)	50 % Bare soil	

Leaf type:	Leaf phenology (dominant stratum)	Physiognomic Class
✓ Broad-leaved	__ Evergreen	✓ Forest (closed tree canopy)
__ Needle-leaved	✓ Cold-deciduous	__ Woodland (open tree canopy)
__ Microphyllous	__ Drought-deciduous	__ Shrubland
__ Graminoid	__ Mixed evergreen-cold-deciduous	__ Dwarf Shrubland
__ Broad-leaved herbaceous	__ Mixed evergreen drought deciduous	__ Herbaceous (less than 25% woody layers)
__ Pteridophyte	__ Herb - Annual	__ Nonvascular
__ Extremely xeromorphic	__ Herb - Perennial	__ Sparse Vegetation
__ Mixed		

Natural and Anthropogenic Disturbance			*Disturbance and animal use comments:*
_ logging	_ fire	✓ Hydrologic	SOME OLD TRASH; PRIVET
_ erosion	✓ trails/roads	_ Agriculture	POSSUM TRACKS
_ grazing/browsing	_ wind/ice damage	_ Old Growth	
_ pine bark beetle	✓ exotic plants	_ Fire Suppression	
dogwood anthr	ORV		

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Jefferson Park: (NATR) VICK Plot Code: NT168 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	20-35m	80%	Gleditsia tricanthos – 40%, Liquidambar sty. 20%
Understory T3	15-20m	60%	Ulmus americana – 20%, Liquidambar styr. 10%, Morus rubra – 10%
Tall shrub S1	2-5m	40%	Ulmus americana – 10%
Short shrub S2	.5-1m	20%	Ligustrum sinense – 5%, Lindera benzoin – 5%
Herbaceous	–	80%	Microstegium vimineum – 70%
Non-vascular	–	–	
Vine/liana	–	30%	Toxicodendron radicans – 10%, Vitis rotundifolia 10%

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	7			2					7	Gled tri		
	6	5	3	2					7	Liqu sty		
			2						2	Cor ame		
	6	5		3					6	Quer nig		
							2		2	Cocc car		
				2					2	Rosa mul		
							2		2	Bign cap		
				1					1	Side lyc		
							2		2	Berc sca		
		6	5	2					6	Ulmu ame		
					8				8	Micr vim		
			3	2					3	Prun car		
			3	4					4	Ligu sin		
			3	4					4	Lind ben		
					2				2	Geum can		
					2				2	Aste lat		
							2			Smil bon		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Jefferson **Park:** (NATR) VICK **Plot Code:** NT168 **State:** AL (MS) TN **Location org:** NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
							5		5	Toxi rad		
			3	2					3	Prun ser		
					2				2	Mite gon		
					2				2	Chas lat		
			4	3					4	Acer neg		
		4	4	3					5	Celt lae		
					3				3	Polygonum virginianum		
							2		2	Loni jap		
					2				2	Aspl pla		
					2				2	Poly acr		
					3				3	Elep car		
					1				1	Salv lyr		
			3	2					3	Frax pen		
							2		2	Ampe arb		
			3	2					3	Frax car		
	5								5	Pinu tae		
							2		2	Part qui		
							5		5	Viti rot		
				2					2	Samb can		
		3	3						4	Ostr vir		
							2		2	Smil rot		
					1				1	Boeh cyl		
					2				2	Care che		
					1				1	Verb occ		
					1				1	Rubu fla		
					2				2	Ospl set		
					1				1	Care dig		
			4	3					4	Carp car		
			2	2					2	Styr gra		
					1				1	Rubu arg		
					3				3	Arun gig		
					1				1	Sani can		
				1					1	Quer pag		
					2				2	Brom pur		
			2						2	Juni vir		

Cover classes	
1.	trace
2.	0.1-1%
3.	1-2%
4.	2-5%
5.	5-10%
6.	10-25%
7.	25-50%
8.	50-75%
9.	75-95%
10.	>95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

5 5 Moru rub

3 3 Till usn

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team_____, Plot NT169. JEFFERSON CO MS

Annotated by: E. LUNSFORD

Annotation Date (D-M-Y): / / 203.476

****

Method of assignment: FAGU GRA — QUER MUEH / ACER BAR / ARUND GB
QUERSHU

☐ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

A.229
A.228 7181
A.1912 7699 7808

Assignment to Classification(s)

Class CODE	Fit*	Conf.*	Reference	Notes:
7181	1-2	M		GOOD FIT EXCEPT CURRENTLY DESCRIBED ONLY FROM VA! ALSO, 7181 DOESN'T MENTION ARUNDINARIA.
7780 QUER MUEH / ARUND GB	3	L		SUPPOSED TO BE LEVEL BOTTOMLANDS IN W. GULF COAST - NO MENTION OF FAGUS
4602	3			WEST OF MISS; NO MENTION OF FAGUS
8442	3			NO MENTION OF ~~FAGUS~~ ("QUER SHU - QUER MUEH L - ACER BAR / OSTRYA")

4072 (QUERUB)

Other Comments:

8488 similar but lacks FAGUS

9/13/04 → discussed with M.B could be new association in A.228 (Beech-white oak)

Init. 4963 or 7461 ? → this plot is not mixed.

*FIT: 1 = fits concept well
2 = fits;not typal

*CONFIDENCE: H = High
M = Moderate

7458 2 H MPS&CWN 4-4-2007 NATR data analysis

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Jefferson Park: NATR VICK Plot Code: NT169 State: AL MS TN Location org: NPS

Provisional community name _____

Classified community name _____

Classifyer MP *Date* 4-4-2007 *NVC ELCODE* 7458

Survey date: 8/24/04 **Surveyors initials:** A. Schotz E. Lunsford

Tagged tree is a ACER BAR of 2.5 cm dbh with tag # 324. Center of 20 x 50m plot is at a bearing of 160 degrees and 1 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

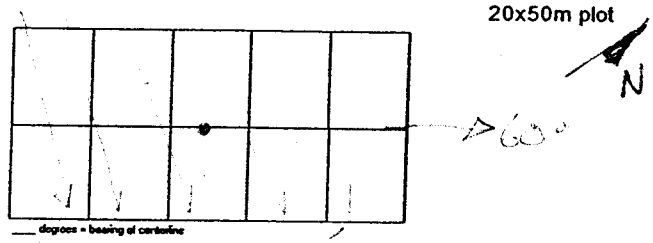
MILEPOST 21 on NT PKWY - W. SIDE of RD.
WALK DOWN SLOPE ACROSS CULVERT & UPSLOPE TO

Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



NORTHBOUND CULVERT

Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # ~~26-29~~ 43-46

Description of pictures (N,E,S & W from GPS point at middle of plot) : N

Select one: UTM OR Lat/long (If lat/long, then values are 31.75925 N -91.7172 W

GPS Techniques/Equipment: Garmin III+ Garmin V Datum(pick one) ~~NAD 83~~ OR NAD27 UTM Zone: 15 16

GPS Unit ID _____ GPS file name NT169 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 121 m / ft

Averaging performed (at least 120 observations)? Y Coordinate accuracy _____ m / ft DOP _____ # sats 7

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Jefferson Park: (NATR) VICK Plot Code: NT169 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 20 ° ____ %

__ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
✓ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 160° (N=0 °)

__ Flat		__ SE	113-157 °
__ Variable		✓ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
✓ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	✓ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present: None apparent

Hydrologic Regime (check only for wetlands)

✓ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY: Runoff is likely moderate, with impacts lessened by foliage

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Undoubtedly logged in the past, as trees are not exceptionally large, but mature. Site has recovered well. Small fragments of old plates (dinnerware) observed.

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam ✓ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
65 % Litter, duff
25 % Wood (> 1 cm)
____% Water
10 % Bare soil
____% Other _____

Leaf type:

✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
Mixed

Leaf phenology (dominant stratum)

__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging _ fire _ Hydrologic
_ erosion _ trails/roads _ Agriculture
_ grazing/browsing _ wind/ice damage _ Old Growth
_ pine bark beetle ✓ exotic plants _ Fire Suppression
dogwood anthr ORV

Disturbance and animal use comments:

Some exotic plants observed - not severe however. Logging likely occurred in the past, but no such evidence was apparent - site has recovered well.

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: [illegible] Park: (NATR) VICK Plot Code: NT169 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE 8/24/04

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1			FAGUS GRAN, QUER MUE	< .5m	5%
Tree Canopy T2	20-35	25°	FAGU GRA QUER MUE	.5-1m	10%
Understory T3			ACER BAR, ILAM AME	1-2m	20%
Tall shrub S1			ACER BAR	2-5m	30%
Short shrub S2			ACER BAR	5-10m	40%
Herbaceous			ARUN GIG	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
										~~QUER AED~~		
		6	7	5					7	ACER BAR		
				4					4	ASIM TRI		
				4					4	FRAX AME		
					6				6	ARUN GIG		
					1				1	CARY COR		
6			1		1				6	QUER MUEHLENB.		
5				2					5	TILI AME HET.		
		4		2					5	SASS ALB		
				4					4	TOXI RAD		
					2				2	MATELEA SP.		
				2					2	PART QUI		
5									5	LIQU STY		
					2				2	ARIS SER		
					2				2	CYST. PRO		
					2		2		2	PLEO POL SSP. MICH.		
				3					3	SMIL ROT		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Jefferson Park: NATR VICK Plot Code: NT 169 State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
				2					2	CELA ORB		
					2				2	CARE DIG		
		5	3						5	ULMU AME		
					2				2	MIKA SCA		
					1				1	CARE OXYLEPIS		
					2				2	SANI CAN		
					2				2	POLY VIR		
					2				2	BIGN CAP		
7	4								7	FAGUS GRN		
	3								3	PRUN SER		
					2				2	AMPH BRA		
					2				2	OSPL SER		
							4		4	VITI ROT		
	3		2						3	CARP CAR		
					1				1	VIOLA SOP		
			2						2	LIQU SIN		
		2	2						2	QUER NIG		
				2					2	CAREX POS		
			2						2	OSTR VIR		
				2					2	ASPL PLA		
			1						1	CALL AME		
				2					2	POLY ACR		
						2			2	GELS SEM		
		5	2						2	PRUN CAR		
			2						2	EUON AME		
				2					2	DICH BOS		
		2							2	CORN FLO		
		2							2	FRAN CAR		
									2	LONI JAP		
5									5	ULMU ALA		
5									5	QUER SHUM		
						1			1	BERCH SCA		
				2					2	CHAS SESS		
				1					1	ASTE LATERIFLORA		
	4								4	MAGN ACU		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

2 CARY ALBA
1 Community Survey
1 DIOS VIR
1 LILI CAR
1 SPIG MAR

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team_____, Plot NT170.

Annotated by: E. LUNSFORD

Annotation Date (D-M-Y): / /

****

Method of assignment:

☐ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

PHANOPYRUM GYMNOPOGON POND
NEW?

Assignment to Classification(s)

Class CODE	Fit*	Conf.*	Reference	Notes:
8555	3	L		8555 IS NOT PERMANENTLY FLOODED; CO-DOMINANT W/ POLYGONUM
NEW?				

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

*CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: JEFFERSON Park: NATR VICK Plot Code: NT 170 State: AL MS TN Location org: NPS

Provisional community name _____

Classified community name _____

Classifyer ERL *Date* _____ *NVC ELCODE* 8555

Survey date: 9/4/14 **Surveyors initials:** A. SCHOTT, E. LUNSFORD

Tagged tree is a MULTI STEMMED ACER RUB of 33 cm dbh with tag # 323. Center of 20 x 50m plot is at a bearing of 220 degrees and 8 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

PONDON E (ACTUALLY SSE) SIDE OF NJ PKWY, JUST N OF MILE 21.

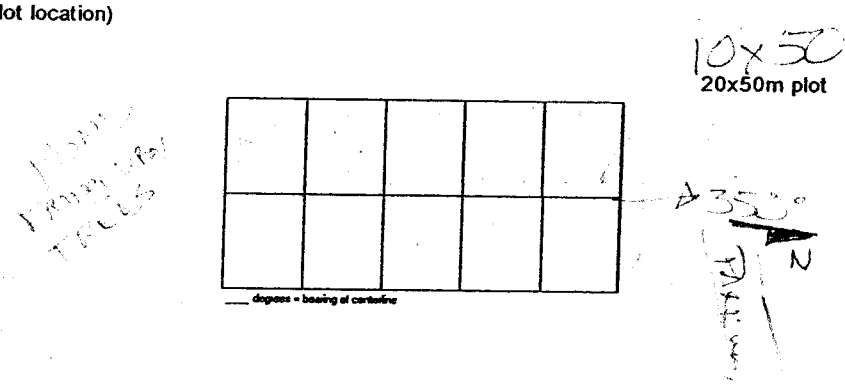
NOTE: 5 TURTLE CARAPICES (+ SHELLS) OBSERVED IN BOTTOMLAND FOREST JUST TO E OF POND. 4 LOOKED RECENT. ? SEEMED ODD. ONLY ONE HAD A 22 SHELL THROUGH 11; OTHERS WERE WHOLE.

Time taken to walk to plot: ½ MINUTE

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 30 33 47-50 Description of pictures (N,E,S & W from GPS point at middle of plot) : _____

Select one: UTM OR Lat/long (If lat/long, then values are 31.75910 N -91.1087 W NAD84

GPS Techniques/Equipment: Garmin III+ Garmin V Datum(pick one) NAD 83 OR NAD27 UTM Zone: 15 16

GPS Unit ID _____ GPS file name NT170 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 162' m / ft

Averaging performed (at least 120 observations)? Coordinate accuracy _____ m / ft DOP # sats

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Jefferson Park: (NATR) VICK Plot Code: NT170 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 0 ° 0 %

✓ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 0 ° (N=0 °)

✓ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

__ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) ✓ Channel bed

Cowardin System
__ *Upland* ✓ *Palustrine*
__ *Estuarine* __ *Lacustrine* __ *Riverine*

Landform (check most applicable)

__ Alluvial flat
__ Alluvial terrace
__ Bald
__ Bank
__ Bar
__ Bench
✓ Bottomlands
__ Cliff
__ Cove
__ Depression
__ Draw
__ Exogenous dome
__ Floodplain
__ Gap
__ Gorge
__ Hillslope bedrock outcrop
__ Midslope
__ Nose slope
__ Ridge
__ Ridgetop bedrock outcrop
__ Saddle
__ Seep
__ Toe slope
__ Slope
__ Streambed
__ Streamhead
__ Periglacial boulderfield
Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)
__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded ✓ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY: Permanently flooded, may have been induced by beaver activity.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):
Surrounding forest is relatively young, but mature. Site was likely open 35-40 years ago; average dbh is ca. 10".

Soil Texture:
__ Sand __ Peat ✓ Silt loam __ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:
__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
__ Well drained __ Poorly drained ✓ *Very poorly drained*

Ground cover
____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
____% Litter, duff
10 % Wood (> 1 cm)
____% Water
____% Bare soil
90 % Other H_2O

Leaf type:
__ Broad-leaved
__ Needle-leaved
__ Microphyllous
✓ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
Mixed

Leaf phenology (dominant stratum)
__ Evergreen
__ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
✓ Herb - Perennial

Physiognomic Class
__ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
✓ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance
_ logging _ fire _ Hydrologic
_ erosion _ trails/roads _ Agriculture
_ grazing/browsing _ wind/ice damage _ Old Growth
_ pine bark beetle _ exotic plants _ Fire Suppression
_ dogwood anthr _ ORV

Disturbance and animal use comments:
Site may have been created as a beaver impoundment, however, no beaver activity was witnessed on park property.

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Jefferson Park: (NATR) VICK Plot Code: NT17D State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous		100%	Phanopyrum gymnopogon – 100%	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
					10				10	Phano gym		
					2				2	Poly hyd		
					2				2	Junc eff		
					1				1	Comm vir		
					1				1	Pent sed		
					1				1	Mitr pet		
					2				2	Lobe car		
					2				2	Lemna sp.		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team_____, Plot NT 171.

Annotated by: E. LUNSFORD

Annotation Date (D-M-Y): 9 / 1 / 04

****

Method of assignment:

Q. PAGODA - Q. NIG - PIN TAED / COMM FLD - MAGNYR

☑ inspection ☑ multivariate 4/2007
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

A. 252

NOTE: Q. NIG NOT AS DIAGNOSTIC AS pagoda

Class CODE	Fit*	Conf.*	Reference	Notes:
7712	2	M		DOESNT HAVE PINU TAE ONLY IN LA.
7715	2	M		SHOULD HAVE QUER. MICH ONLY IN LA.
7461	3			RESTRICTED TO STEEP RAVINES FLORA OK
→ New 4109				Quercus pagoda - Quercus nigra Forest

OCCUR IN MOSAIC IN LA.

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

*CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: JEFFERSON Park: NATR VICK Plot Code: NT 171 State: AL MS TN Location org: NPS

Provisional community name _____

Classified community name Quercus pagoda – Quercus nigra Forest

Classifyer LWN *Date* _____ *NVC ELCODE* CEGL004109

Survey date: 8/25/04 **Surveyors initials:** A [illegible] L [illegible]

Tagged tree is a CAROLINA ASH of 11.5 cm dbh with tag # 332. Center of 20 x 50m plot is at a bearing of 350 degrees and 1 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker): (≈ MILE 16?)

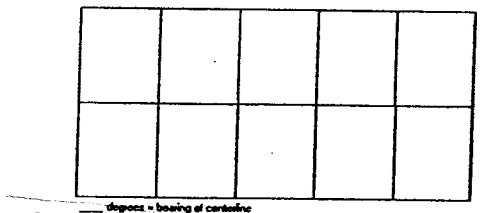
FROM NATCHEZ TRACE PKWY, TURN OFF (TO W) INTO PARKING AREA AT MOUNT LOCUST HISTORIC INN. WALK S BEYOND OLD HOUSE ALONG PAVED NATURE TRAIL LOOP -- TAKE LEFT PRONG OF LOOP, BUT STAY ON A STRAIGHT COURSE (S) INTO THE WOODS, LEAVING THE PAVED PATH & FOLLOWING WHAT MIGHT BE THE HISTORIC SUNKEN TRACE (TRAIL). PLOT IS ON RIGHT

Time taken to walk to plot: 5 MIN

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # ~~33~~ ~~37~~ 51-54 Description of pictures (N,E,S & W from GPS point at middle of plot): N E S W

Select one: UTM OR Lat/long (If lat/long, then values are 31.32417 N -91.19151 W

WGS 84

GPS Techniques/Equipment: Garmin III+ Garmin V Datum(pick one) ~~NAD 83~~ OR NAD27 UTM Zone: 15 16

GPS Unit ID _____ GPS file name N1171 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 212 m / ft

Averaging performed (at least 120 observations)? YES Coordinate accuracy 9 m / ft DOP # sats 7

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: [illegible] Park: (NATR) VICK Plot Code: ~~NT171~~ State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %			Measured Aspect ____ ° (N=0 °)		Topographic Postion	
✓ Flat	0 °	0 %	✓ Flat	__ SE 113-157 °	_ Interfluve (Ridge/summit/crest)	__ Toeslope
__ Gentle	0-5 °	1-9%	__ Variable	__ S 158-202 °	__ High Slope (upper/convex slope)	
__ Moderate	6-14 °	10-25%	__ N 338-22 °	__ SW 203-247 °	__ Midslope	✓ Low level (terrace)
__ Somewhat steep	15-25 °	26-49%	__ NE 23-67 °	__ W 248-292 °	__ Lowslope (lower/footslope)	__ Channel bed
__ Steep	27-45 °	50-100%	__ E 68-112 °	__ NW 293-337		
__ Very steep	45-69 °	101-275%			*Cowardin System*	
__ Abrupt	70-100 °	276-300			✓ *Upland*	_ *Palustrine*
__ ovrhng/shltrd	>100 °	>300%			_ *Estuarine*	_ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	Ravine

BUT NOT NEAR STREAM

✓ FLATLAND

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)

__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)

__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

MAY BE SOME PONDING DURING RAINS DUE TO TOPOGRAPHY (NO RUNOFF) THRU GOOD

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

POSSIBLY ~~US~~ CLEARED & USED FOR FARMING IN CONJUNCTION WITH HISTORIC INN/PLANTATION DURING DAYS OF THE TRACE.

BIG LOBLOLLY PINES, + TALL DOGWOODS — RICH SITE INDEX

Soil Texture:

__ Sand __ Peat ✓ Silt loam (ACCENTED WITH CLAY) __ Muck

__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained

✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____ % Bedrock	90 % Litter, duff	____ % Other _____
____ % Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:

__ Broad-leaved

__ Needle-leaved

__ Microphyllous

__ Graminoid

__ Broad-leaved herbaceous

__ Pteridophyte

__ Extremely xeromorphic

✓ Mixed

Leaf phenology (dominant stratum)

__ Evergreen

__ Cold-deciduous

__ Drought-deciduous

✓ Mixed evergreen-cold-deciduous

__ Mixed evergreen drought deciduous

__ Herb - Annual

__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)

__ Woodland (open tree canopy)

__ Shrubland

__ Dwarf Shrubland

__ Herbaceous (less than 25% woody layers)

__ Nonvascular

__ Sparse Vegetation

Natural and Anthropogenic Disturbance

✓ logging _ fire _ Hydrologic

_ erosion ✓ trails/roads _ Agriculture

_ grazing/browsing _ wind/ice damage _ Old Growth

_ pine bark beetle _ exotic plants _ Fire Suppression

_ dogwood anthr _ ORV

Disturbance and animal use comments:

JAPANESE HONEYSUCKLE (LIMITED)

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Jefferson Park: (NATR) VICK Plot Code: NTN1 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	26-35m	90%	Quercus pagoda-30%, Quercus nigra-40%
Understory T3	15-20m	70%	Quercus nigra-20%, Cornus florida-20%
Tall shrub S1	2-5m	50%	Carpinus caroliniana-20% Ostrya virginiana-10%
Short shrub S2	.5-1m	40%	Cornus florida-5%, Carpinus caroliniana-5%
Herbaceous	—	10%	Polystichum acrostichoides-5%
Non-vascular	—	—	
Vine/liana	—	20%	Vitis rotundifolia-10%

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	7		4						7	Quer pag		
	6								6	Pinu tae		
	7	6		3					8	Quer nig		
					2				2	Mitc rep		
					2				2	Chas ses		
				4			4		5	Toxi rad		
					4				4	Poly acr		
		6	4	4					6	Corn flo		
							2		2	Smil gla		
				2					2	Vacc cor		
			6	4					6	Carp car		
		4	3	3					6	Ostr vir		
							2		2	Bign cap		
			2	2					3	Frax ame		
		5	3	3					5	Liqu sty		
							2		2	Toxi sem		
			2	2					3	Acer rub		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: [illegible] Park: (NATR) VICK Plot Code: NTN1 State: AL (MS) TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
			1	1					2	Call ame		
							5		5	Viti rot		
			3	2					3	Quer alb		
			3	2					3	Vacc arb		
			3						3	Vacc ell		
					2				2	Sani can		
							1		1	Viti aes		
			2	2					3	Fran car		
		3		2					4	Prun ser		
					1				1	Gali uni		
							2		2	Part qui		
							3		3	Smil rot		
				1					1	Ilex opa		
							2		2	Smil bon		
					1				1	Botr vir		
					2				2	Dich bos		
					1				1	Scle oli		
		4	2	1					4	Maga aca		
					1				1	Smil tam		
			3	3					4	Ulmu ala		
					1				1	Botr dis		
							2		2	Loni jap		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team_____, Plot NT172.

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 13 / 2004

****

Method of assignment:

Yes

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

COULD IT BE TEMPORARILY FLOODED?
PROBABLY - BASED ON SPP.

A.289
A.288

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
7335	2	H		Successional

7340

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Jackson Park: NATR VICK Plot Code: NT172 State: AL MS TN Location org: NPS

Provisional community name EARLY SUCCESSIONAL

Classified community name Platanus occidentalis – Liquidambar styraciflua – (Ulmus americana)/(Crataegus viridis) Forest
Classifyer CWN *Date* 9/13/2004 *NVC ELCODE* 7335

Survey date: 8/25/04 **Surveyors initials:** A. SCHOTZ, E. LUNSFORD

Tagged tree is a [illegible] of 9 cm dbh with tag # [illegible]. Center of 20 x 50m plot is at a bearing of [illegible] degrees and 1 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

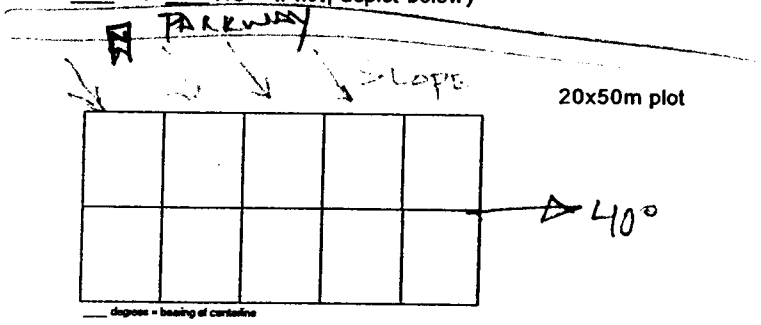
PARK ON NT PARKWAY AT MILEPOST 26. PLOT IS IMMEDIATELY E (ESE) IN EDGE OF WOODS

Time taken to walk to plot: ½ min

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA >100HA

PIC # ~~[illegible]~~ 55-58 Description of pictures (N,E,S & W from GPS point at middle of plot): [illegible]

Select one: UTM OR Lat/long (If lat/long, then values are 31.79593 N -91.10506 W

GPS Techniques/Equipment: Garmin III+ Garmin V Datum(pick one) ~~NAD 83 OR NAD27~~ WGS84 UTM Zone: 15 16

GPS Unit ID _____ GPS file name NT172 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 220 m / ft

Averaging performed (at least 120 observations)? ✓ Coordinate accuracy _____ m / ft DOP _____ # sats

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Jefferson Park: NATR VICK Plot Code: 172 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %			Measured Aspect ____ ° (N=0 °)		Topographic Postion	
✓ Flat	0 °	0 %	✓ Flat	__ SE 113-157 °	_ Interfluve (Ridge/summit/crest)	__ Toeslope
__ Gentle	0-5 °	1-9%	__ Variable	__ S 158-202 °	__ High Slope (upper/convex slope)	
__ Moderate	6-14 °	10-25%	__ N 338-22 °	__ SW 203-247 °	__ Midslope	✓ Low level (terrace)
__ Somewhat steep	15-25 °	26-49%	__ NE 23-67 °	__ W 248-292 °	__ Lowslope (lower/footslope)	__ Channel bed
__ Steep	27-45 °	50-100%	__ E 68-112 °	__ NW 293-337		
__ Very steep	45-69 °	101-275%			*Cowardin System*	
__ Abrupt	70-100 °	276-300			*_ Upland*	*✓ Palustrine*
__ ovrhng/shltrd	>100 °	>300%			*_ Estuarine*	*_ Lacustrine _ Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
✓ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

✓ FLATLAND

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)

__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded ✓ Temporarily Flooded (e.g. floodplains)

__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

Temp flooded – North Fork bottomlands

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

OLD FIELD - young forest about 10 yrs old

Soil Texture:

__ Sand __ Peat ✓ Silt loam __ Muck

__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained

✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock	95 % Litter, duff	____% Other _____
____% Large rocks (cobbles, boulders >10cm)	2 % Wood (> 1 cm)	
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	2 % Bare soil	

Leaf type:	**Leaf phenology** (dominant stratum)	**Physiognomic Class**
✓ Broad-leaved	__ Evergreen	✓ Forest (closed tree canopy)
__ Needle-leaved	✓ Cold-deciduous	__ Woodland (open tree canopy)
__ Microphyllous	__ Drought-deciduous	__ Shrubland
__ Graminoid	__ Mixed evergreen-cold-deciduous	__ Dwarf Shrubland
__ Broad-leaved herbaceous	__ Mixed evergreen drought deciduous	__ Herbaceous (less than 25% woody layers)
__ Pteridophyte	__ Herb - Annual	__ Nonvascular
__ Extremely xeromorphic	__ Herb - Perennial	__ Sparse Vegetation
__ Mixed		

Natural and Anthropogenic Disturbance

✓ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
_ dogwood anthr	_ ORV	

Disturbance and animal use comments:

CLEARED

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Jefferson Park: (NATR) VICK Plot Code: NTN2 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	5-10m	90%	Liquidambar styraciflua - 50% Platanus occidentalis - 40%	.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1	2-5m	30%	Cornus foemina - 5%, Ulmus americana - 5%	2-5m	30%
Short shrub S2	.5-1m	30%	Cornus foemina - 5%, Ulmus americana - 5%	5-10m	40%
Herbaceous	—	20%	Carex spp. - 10%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	10%	Lonicera japonica - 5%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	8								8	Liqu sty		
	7								7	Plat occ		
					1				1	Bar dis		
	2								2	Dios vir		
			4	4					5	Corn foe		
			2	2					3	Ligu sin		
					5				5	Rubu arg		
			4	4					5	Ulmus alle		
			3	2					3	Call ame		
					2				2	Care cha		
					2				2	Geum can		
							4		4	Loni jap		
			3	2					3	Cary ill		
							3		3	Camp rad		
				M					1	Bled fri		
					3				3	Care deb		
							3		3	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: JEFFERSON Park: NATR VICK Plot Code: MTP2 State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
			2							Poun ser		
			2	1					2	Foxpen		
					2				2	Leer VIR		
			2	1					2	Quer pag		
					1				1	Clem vir		
					1				1	Hyp pla		
					1				1	Eupa rug		
					2				2	Polygon sp		
					2				2	Poly hyd sagittatum		
			3	1					3	Ulmus ala		
					2				2	Frax dif		
					2				2	Soli ng		
					2				2	Polygonum virginianum		
							2		2	Berc sca		
					1				1	Soli gig		
				3					3	Toxi rad		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team_____, Plot NT173

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 10 / 2004

****

Method of assignment:

MAGNGRA - QUERNG - LIRITUL/CARY COR / ASIM TRI / ARUNG19.

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

MAGNOLIA - ~~BEECH~~ I.C.
A369
4965

Assignment to Classification(s)

Class CODE	Fit*	Conf.*	Reference	Notes:
4963 IC				No pine (None in LAUS.1 either!)

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

*CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: JEFFERSON Park: NATR VICK Plot Code: [illegible] State: AL MS TN Location org: NPS

Provisional community name _____

Classified community name Fagus grandifolia-Magnolia grandiflora-Quercus pagoda-Acer barbatum-Pinus taeda Forest
Classifyer CWN *Date* _____ *NVC ELCODE* 4963

Survey date: _____ **Surveyors initials:** A. Schen[illegible]

Tagged tree is a LIQU STY of 14 cm dbh with tag # 3207 facing N. Center of 20 x 50m plot is at a bearing of 1[illegible] degrees and 3.5 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

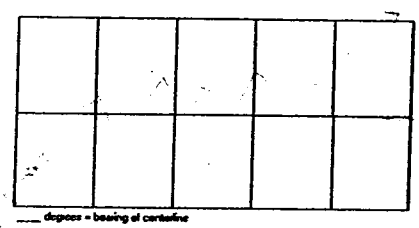
1/10 MILE S of MILE POST 33. PARK @ SOUTH END OF FIELD. WALK NW (UP) UP & OVER SMALL RIDGE. PLOT ON LOWER PART OF NW FACING SLOPE.

Time taken to walk to plot: 2 MIN

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # ~~X~~ 59-62 Description of pictures (N,E,S & W from GPS point at middle of plot) : [illegible]

Select one: UTM OR Lat/long (If lat/long, then values are _____ N _____ W

GPS Techniques/Equipment: Garmin III+ Garmin V Datum(pick one) ~~NAD 83 OR NAD27~~ UTM Zone: 15 16

GPS Unit ID _____ GPS file name _____ (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? ✓ Coordinate accuracy _____ m / ft DOP _____ # sats

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: (NATR) VICK Plot Code: NT17 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 10 ° ___ %			Measured Aspect 35° (N=0°)			Topographic Postion	
__ Flat	0 °	0 %	__ Flat	__ SE	113-157 °	_ Interfluve (Ridge/summit/crest)	__ Toeslope
__ Gentle	0-5 °	1-9%	__ Variable	__ S	158-202 °	__ High Slope (upper/convex slope)	
✓ Moderate	6-14 °	10-25%	__ N 338-22 °	__ SW	203-247 °	__ Midslope	__ Low level (terrace)
__ Somewhat steep	15-25 °	26-49%	__ NE 23-67 °	__ W	248-292 °	✓ Lowslope (lower/footslope)	__ Channel bed
__ Steep	27-45 °	50-100%	__ E 68-112 °	✓ NW	293-337		
__ Very steep	45-69 °	101-275%				*Cowardin System*	
__ Abrupt	70-100 °	276-300				✓ *Upland*	_ *Palustrine*
__ ovrhng/shltrd	>100 °	>300%				_ *Estuarine*	_ *Lacustrine* _ *Riverine*

Landform (check most applicable)		
__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	✓ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)
__ Not a wetland (Upland: XERIC : DRY - MESIC : (MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

SLOPE FLATTENS OUT TOWARDS BOTTOM OF PLOT. LIGHT RUNOFF; CANOPY PROTECTS FROM EROSION

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

SOME VERY LARGE TREES

Soil Texture:					Drainage:		
__ Sand	__ Peat	✓ Silt loam	__ Muck		__ Rapidly drained	__ Moderately well drained	__ Somewhat poorly drained
__ Sandy loam	__ Loam	__ Clay loam	__ Clay		✓ Well drained	__ Poorly drained	__ *Very poorly drained*

Ground cover		
____% Bedrock	28 % Litter, duff	____% Other _____
____% Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	2 % Bare soil	

Leaf type:	Leaf phenology (dominant stratum)	Physiognomic Class
✓ Broad-leaved	__ Evergreen	✓ Forest (closed tree canopy)
__ Needle-leaved	✓ Cold-deciduous	__ Woodland (open tree canopy)
__ Microphyllous	__ Drought-deciduous	__ Shrubland
__ Graminoid	__ Mixed evergreen-cold-deciduous	__ Dwarf Shrubland
__ Broad-leaved herbaceous	__ Mixed evergreen drought deciduous	__ Herbaceous (less than 25% woody layers)
__ Pteridophyte	__ Herb - Annual	__ Nonvascular
__ Extremely xeromorphic	__ Herb - Perennial	__ Sparse Vegetation
Mixed		

Natural and Anthropogenic Disturbance			*Disturbance and animal use comments:*
✓ logging	_ fire	_ Hydrologic	PRESUMABLY LOGGED
_ erosion	_ trails/roads	_ Agriculture	MICROSTEGIA > LONICERA
_ grazing/browsing	_ wind/ice damage	_ Old Growth	
_ pine bark beetle	✓ exotic plants	_ Fire Suppression	
dogwood anthr	ORV		

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Jefferson Park: NATR VICK Plot Code: ____ State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	80%	Quercus nigra – 30%, Magnolia grandiflora – 20% Liriodendron tulipifera – 20%	.5-1m	10%
Understory T3	15-20m	70%	Carya cordiformis – 20%, Quercus nigra – 10% Liquidambar styraciflua – 20%	1-2m	20%
Tall shrub S1	2-5m	60%	Asimina triloba – 20%, Liquidambar sty. – 10% Quercus nigra – 10%	2-5m	30%
Short shrub S2	.5-1m	60%	Asimina triloba – 10%, Fraxinus americana – 5%	5-10m	40%
Herbaceous	—	80%	Polystichum acrostichoides – 20% Arundinaria gigantea – 20%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	20%	Vitis rotundifolia – 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
					2				2	[illegible]		
		6	4	3					6	[illegible]		
					2				2	[illegible]		
	6		4						6	Magn gra		
	7	5		3					7	Quer nig		
			3						3	Ulmu ala		
					6				6	Poly acr		
			2						2	Quer mic		
		3	5	3					5	Corn flo		
					2				2	Chas lax		
							5		5	Viti rot		
							4		4	Loni jap		
			5	4					5	Frax ame		
							4		4	Smil rot		
			2	2					3	Call ame		
			6	5					6	Asim tri		
					2				2	Soli rug		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: (NATR) VICK Plot Code: NT173 State: AL (MS) TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					3				3	Dios vil		
					3				3	Desm glu		
				3			4		5	Toxi rad		
		4		2					4	Sass alb		
				3					3	Euon ame		
	6	5		2					6	Liri tul		
					2				2	Botr dis		
				2					2	Maru rub		
			4	4					5	Lind ben		
				2					2	Ligu sin		
			3	2					3	Celt lae		
					5				5	Micr vim		
					6				6	Arun gig		
							3		3	Smil tam		
					2				2	Ospi set		
					2				2	Carex sp		
		6	5	3					6	Ligu sty		
			2	2					3	Acer neg		
					1				1	Clem vir		
				3			4		4	Past qui		
					3				3	Thel his		
					2				2	Lith tub		
			2	2					3	Fran car		
							2		2	Bign cap		
					2				2	Desm pan		
					2				2	Aris dra		
					2				2	Eupa ova		
		4	3	2					4	Ulmu ala		
			2	1					2	Cerc can		
					2				2	Polygonum virginianum		
					2				2	Aste lat		
					2				2	Chas ses		
					1				1	Sani can		
					1				1	Agri pos		
					1				1	Cyst fra		

Use bottom of this sheet or additional pages for other species in 1 ha plot

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Jefferson Park: (NATR) VICK Plot Code: NTN3 State: AL (MS) TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					1				1	Cryp can		
					1				1	Aris tri		
					2				2	Rubu arg		
							2		2	Smil gta		
					2				2	Mika Gca		
					2				2	Case dig		
					2				2	Dich bas		
								2	2	Pleo poly ssp. mich		
			3						3	Ilex opa		
					1				1	Pass lut		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team_____, Plot NJ174.

Annotated by: EKL

Annotation Date (D-M-Y): 9 / 2 104

****

Method of assignment:

- ☐ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

A.279
6944
7304?

Assignment to Classification(s)

Class CODE	Fit*	Conf.*	Reference	Notes:
2431 - CWN ACER SACCHARINUM - CELT LAE - CARY ILL FORES	2-			PROBLEM: NO CELTIS LAEV OR CARYA SPP IN PLOT. THEY SHOULD BE DOMINANT.
2586 - EKL ACER SACCHARINUM - ULMU AME - POPU DEL	1			GREAT FIT! CLASSIFICATION COMMENTS INDICATE THAT A CLOSER LOOK SHOULD BE TAKEN OF ITS DISTINCTION FROM 2431 BASED ON RANGE -- 2586 IS SUPPOSED TO BE MORE NORTHERN.

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

*CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: CLINTON Park: (NATR) VICK Plot Code: NTT4 State: AL (MS) TN Location org: NPS

Provisional community name

Classified community name Acer saccharinum - Celtis laevigata - Carya illinoinensis Forest

Classifyer CWN *Date* *NVC ELCODE* 2431

Survey date: 9/25/04 **Surveyors initials:** A. SCHOTZ, L. LUNSFORD

Tagged tree is a ULMU AME of 7 cm dbh with tag # 519. Center of 20 x 50m plot is at a bearing of 225 degrees and 12 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

AROUND MILE 40.4, AT LITTLE BAYOU PIERRE.

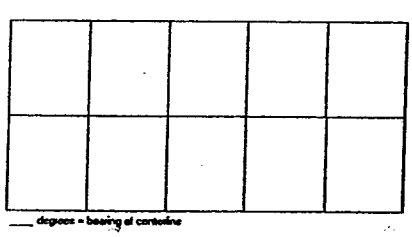
PARK ON N LNG [illegible] PLOT IS IN ALLUVIAL TERRACE ON W SIDE OF NT TRAIL.

Time taken to walk to plot: 2 MIN.

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA >100HA

PIC # DSC_0063-66 Description of pictures (N,E,S & W from GPS point at middle of plot):

Select one: UTM OR Lat/long (If lat/long, then values are 31.[illegible] N [illegible] W

GPS Techniques/Equipment: Garmin III+ Garmin V Datum(pick one) NAD 83 OR NAD27 UTM Zone: 15 16

GPS Unit ID _____ GPS file name NT172 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? ✓ Coordinate accuracy 3 m / ft DOP # sats

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: CLAIBORNE Park: NATR VICK Plot Code: NT174 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %			Measured Aspect ____ ° (N=0 °)		
✓ Flat	0 °	0 %	✓ Flat		
__ Gentle	0-5 °	1-9%	__ Variable	__ SE	113-157 °
__ Moderate	6-14 °	10-25%	__ N 338-22 °	__ S	158-202 °
__ Somewhat steep	15-25 °	26-49%	__ NE 23-67 °	__ SW	203-247 °
__ Steep	27-45 °	50-100%	__ E 68-112 °	__ W	248-292 °
__ Very steep	45-69 °	101-275%		__ NW	293-337
__ Abrupt	70-100 °	276-300			
__ ovrhng/shltrd	>100 °	>300%			

Topographic Postion
__ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope ✓ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System
__ *Upland* ✓ *Palustrine*
__ *Estuarine* __ *Lacustrine* __ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
✓ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)
__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded ✓ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded __ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

Significant flooding here - Lots of flotsam & mudlines on bark of trees. The little low lying area is a very colorful vegetation & [illegible] wetland

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Mayhaw [illegible]
Silvic[illegible] 25-30 yrs [illegible]

Soil Texture:
__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:
__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
__ Well drained ✓ Poorly drained __ *Very poorly drained*

Ground cover

____ % Bedrock	20 % Litter, duff	____ % Other _____
____ % Large rocks (cobbles, boulders >10cm)	30 % Wood (> 1 cm)	
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % Sand (0.1-2 mm)	50 % Bare soil	

Leaf type:
✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
Mixed

Leaf phenology (dominant stratum)
__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

__ logging	__ fire	✓ Hydrologic
__ erosion	__ trails/roads	__ Agriculture
__ grazing/browsing	__ wind/ice damage	__ Old Growth
__ pine bark beetle	__ exotic plants	__ Fire Suppression
dogwood anthr	ORV	

Disturbance and animal use comments:

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: CLIBORNE Park: (NATR) VICK Plot Code: NT174 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	20-35m	50%	Acer saccharinum - 50%
Understory T3	15-20m	90%	Acer negundo - 70%
Tall shrub S1	2-5m	20%	Acer negundo - 5%, Ulmus americana - 5%
Short shrub S2	.5-1m	10%	Acer negundo and Ulmus americana - 5%
Herbaceous	—	60%	Chasmanthium latifolium - 20%
Non-vascular	—	—	
Vine/liana	—	10%	Vitis sp - 5%

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
		8	4	3					8	ACER NEG		
		5	8	3					6	Ulmu ame		
	1	3							7	Acer saccharinum		
							2		2	Cocc car		
					1				1	Cnp can		
					6				6	Chas lat		
					4				4	Rubu tri		
					2				2	Clem vir		
				2					2	Samb can		
					1				1	Phry lep		
					2				2	Polygonum virginianum		
							3		3	Lonicera		
					2				2	Boeh cyl		
					2				2	Viol aff		
					2				2	Aste lat		
					2				2	Carex sp. (Ovales group)		
			2	2					3	Ligu sin		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: CLAIBORNE Park: (NATR) VICK Plot Code: MT174 State: AL (MS) TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
							2		2	Ampe arb		
					2				2	Micr vim		
							2		2	Toxi rad		
				2					2	Corn foe		
			2	1					2	Qver nig		
					2				2	Carex sp		
					2				2	Leer vir		
					2				2	Elep car		
							2		2	Camp rad		
					1				1	Sani can		
							2		2	Brun ova		
					1				1	Pari flo		
							2		2	Bign cap		
					2				2	Elym vir		
							4		4	Vitipal		
							2		2	Smil rot		
					2				2	Comm vir		
					2				2	Dich bra		
					2				2	Soli rug		
					2				2	Dich sp		
					1				1	Lact flo		
					1				1	Soli alt		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team_____, Plot NT75

Annotated by: CWN

Annotation Date (D-M-Y): 9/10/2001

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

A 289?

Assignment to Classification(s)

Class CODE	Fit*	Conf.*	Reference	Notes:
4963 2C				No Pine

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

*CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: CLAIBORNE Park: (NATR) VICK Plot Code: NT175 State: AL (MS) TN Location org: NPS

Provisional community name _____

Classified community name Fagus grandifolia - Magnolia grandiflora - Quercus pagoda - Acer barbatum - Pinus taeda Forest

Classifyer CWN *Date* _____ *NVC ELCODE* CEGL004963

Survey date: 8/25/04 **Surveyors initials:** A. SCHOTZ, E. LUNSFORD

Tagged tree is a ACER of 25.5 cm dbh with tag # 318. Center of 20 x 50m plot is at a bearing of 270 degrees and 5 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

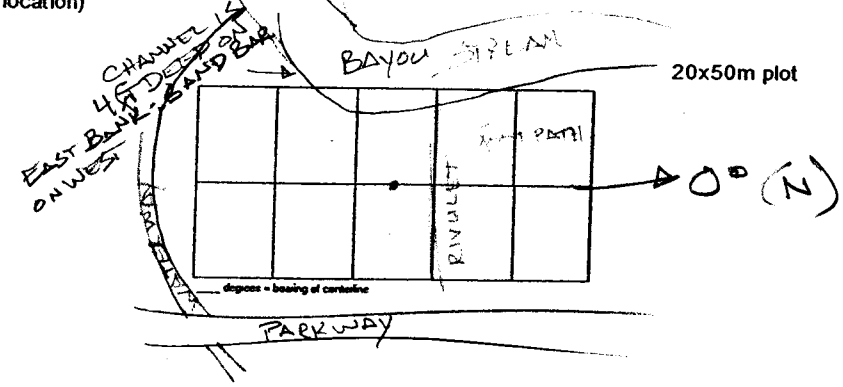
ABOUT MILE 5.6 ON NT PARKWAY
PLOT IS ON W SIDE OF ROAD, BOUNDED BY STREAM ON W.

Time taken to walk to plot: 1 MINUTE (OR, IN DOWNPOUR, 15 SECONDS TO GET BACK TO VEHICLE)

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # ~~50-53~~ 67-70 Description of pictures (N,E,S & W from GPS point at middle of plot) : N E S W

Select one: UTM OR (Lat/long) (If lat/long, then values are 32.05027 N -90.83209 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD 83 OR NAD27~~ W.S 84 UTM Zone: 15 16

GPS Unit ID _____ GPS file name NT175 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 134 m (ft)

Averaging performed (at least 120 observations)? 164 Coordinate accuracy 8-14 (m) / ft DOP # sats 6

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: CLAIBORNE Park: (NATR) VICK Plot Code: NT175 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %			Measured Aspect ____ ° (N=0 °)		Topographic Postion	
✓ Flat	0 °	0 %	__ Flat	__ SE 113-157 °	_ Interfluve (Ridge/summit/crest)	__ Toeslope
✓ Gentle	0-5 °	1-9%	✓ Variable	__ S 158-202 °	__ High Slope (upper/convex slope)	
__ Moderate	6-14 °	10-25%	__ N 338-22 °	__ SW 203-247 °	__ Midslope	✓ Low level (terrace)
__ Somewhat steep	15-25 °	26-49%	__ NE 23-67 °	__ W 248-292 °	__ Lowslope (lower/footslope)	__ Channel bed
__ Steep	27-45 °	50-100%	__ E 68-112 °	__ NW 293-337		
__ Very steep	45-69 °	101-275%			*Cowardin System*	
__ Abrupt	70-100 °	276-300			✓ *Upland*	_ *Palustrine*
__ ovrhng/shltrd	>100 °	>300%			_ *Estuarine*	_ *Lacustrine* _ *Riverine*

Landform (check most applicable)		
__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
✓ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : DRY - MESIC (MESIC)

__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)

__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

DURING [illegible] SOME [illegible]

[illegible] DRAINS THE SITE INTO SIPSEY

INFREQUENT OCCASIONAL FLOODING [illegible] DWARF PALMETTOS

POSSIBLE FLASH FLOODING INDUCED BY ADJACENT [illegible]

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability): EROSION OF SIPSEY CHANNEL

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck

__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained

✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock

____% Large rocks (cobbles, boulders >10cm)

____% Small rocks (gravel, 0.2-10 cm)

____% Sand (0.1-2 mm)

34 % Litter, duff

6 % Wood (> 1 cm)

____% Water

10 % Bare soil

____% Other _____

Leaf type:

✓ Broad-leaved

__ Needle-leaved

__ Microphyllous

__ Graminoid

__ Broad-leaved herbaceous

__ Pteridophyte

__ Extremely xeromorphic

__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen

✓ Cold-deciduous

__ Drought-deciduous

__ Mixed evergreen-cold-deciduous

__ Mixed evergreen drought deciduous

__ Herb - Annual

__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)

__ Woodland (open tree canopy)

__ Shrubland

__ Dwarf Shrubland

__ Herbaceous (less than 25% woody layers)

__ Nonvascular

__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging _ fire ✓ Hydrologic

_ erosion ✓ trails/roads _ Agriculture

_ grazing/browsing _ wind/ice damage _ Old Growth

_ pine bark beetle ✓ exotic plants _ Fire Suppression

dogwood anthr ORV

Disturbance and animal use comments:

[illegible]

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: CLAIBORNE Park: (NATR) VICK Plot Code: NT17 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	20-35m	90%	Magnolia grandiflora-30% Quercus nigra-30% Ulmus alata-30%
Understory T3	15-20m	100%	Acer barbatum-60%, Fagus grandifolia-30%
Tall shrub S1	2-5m	60%	Acer barbatum-20%
Short shrub S2	.5-1m	20%	Sabal minor-5%
Herbaceous	—	40%	Arundinaria gigantea-20%
Non-vascular	—	—	
Vine/liana	—	10%	Bignonia cap. + Toxicodendron radicans-5%

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	7		5						7	Magn gra		
	7		3	2					7	Ulmu ala		
	6	7	5	3					7	Fagu gra		
		8	6	3					8	Acer bar		
					2				2	Sabal uni		
	6		2	2					6	Quer mic		
					2				2	Ilex ari		
					6				6	Arun gig		
			2	2					3	Hama vir		
					2				2	Chas ses		
		6	5	3					6	Ligu sty		
				4					4	Saba min		
					2				2	Aris tri		
			2	2					3	Cary gla		
					2				2	Aris dra		
					2				2	Mitc rep		
					3				3	Desm pan		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: CLAIBORNE Park: (NATR) VICK Plot Code: NTN5 State: AL (MS) TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
			1	2					2	Evon ame		
							3		3	Bign cap		
							1		1	Smil bon		
					2				2	Carex sp		
					2				2	Case dig		
					2				2	Elep car		
							2		2	Smil tam		
					4				4	Micr vim		
					4				4	Amph bra		
							2		2	Part qui		
					2				2	Dich bos		
			5	3					5	Ostr vir		
		6	4	2					6	Acer rub		
					2				2	Poly acr		
							2		2	Toni jap		
							3		3	Toxi rad		
	6								6	Plan occ		
				2					2	Tili ame var. hete		
							2		2	Viti rot		
	7		4	2					7	Quer nig		
	2				2				2	Chas lat		
					2				2	Matelea sp		
				3					3	Boeh cyl		
		3	2						3	Carp car		
	5		2						5	Frax ame		
					2				2	Leer vir		
					2				2	Ospl set		
					1				1	Mikania		
					2				2	Sanicun		

Cover classes

1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team_____, Plot NT176

Annotated by: CWN

Annotation Date (D-M-Y): 9/13/2004

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

BALD CYPRESS

Assignment to Classification(s)

Class CODE	Fit*	Conf.*	Reference	Notes:
2420?				
7719				
4046	1	H		PLOT IS WOODLAND not forest.

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

*CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: HINDS Park: NATR VICK Plot Code: NT176 State: AL MS TN Location org: NPS

Provisional community name _____

Classified community name Taxodium distichum East Gulf Coastal Plain Pondshore Woodland
Classifyer ChiN *Date* 9/13/2004 *NVC ELCODE* 4046

Survey date: 8/25/04 **Surveyors initials:** A S. EKL

Tagged tree is a LIQU STY of 15.5 cm dbh with tag # 317 RACING E. Center of 20 x 50m plot is at a bearing of 190 degrees and 5 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

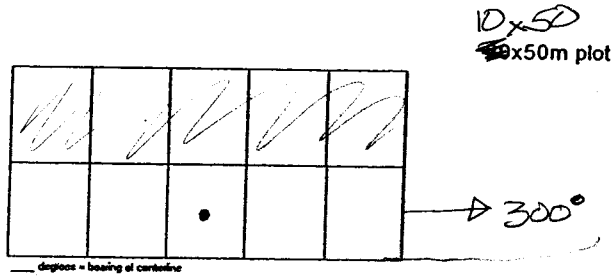
AROUND MILE 63.1 ON NATCHEZ TRACE PKWY — YOUNG CYPRESS & SWAMP POND ON E SIDE OF ROAD, NORTH MARGIN.
PLOT CENTER IS ~5M INTO POND, AMONG THE TAXODIUMS

Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



PARKWAY

Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 54 ST 71-74 Description of pictures (N,E,S & W from GPS point at middle of plot) : NE SW

Select one: UTM OR Lat/long (If lat/long, then values are 32.15707 N -90.69043 W

GPS Techniques/Equipment: Garmin III+ Garmin V Datum(pick one) ~~NAD 83 OR NAD27~~ WGS84 UTM Zone: 15 16

GPS Unit ID _____ GPS file name NT176 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 286 m / ft

Averaging performed (at least 120 observations)? 194 Coordinate accuracy 6 m / ft DOP # sats 6

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: HNDS Park: NATR VICK Plot Code: NT176 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 0 ° 0 %		Measured Aspect 0 ° (N=0 °)		Topographic Postion	
✓ Flat	0 ° 0 %	✓ Flat	SE 113-157 °	_ Interfluve (Ridge/summit/crest)	__ Toeslope
__ Gentle	0-5 ° 1-9%	__ Variable	S 158-202 °	__ High Slope (upper/convex slope)	
__ Moderate	6-14 ° 10-25%	__ N 338-22 °	SW 203-247 °	__ Midslope	__ Low level (terrace)
__ Somewhat steep	15-25 ° 26-49%	__ NE 23-67 °	W 248-292 °	__ Lowslope (lower/footslope)	✓ Channel bed
__ Steep	27-45 ° 50-100%	__ E 68-112 °	NW 293-337		
__ Very steep	45-69 ° 101-275%			*Cowardin System*	
__ Abrupt	70-100 ° 276-300			_ *Upland* ✓ *Palustrine*	
__ ovrhng/shltrd	>100 ° >300%			_ *Estuarine* _ *Lacustrine* _ *Riverine*	

Landform (check most applicable)		
__ Alluvial flat	✓ Cove	__ Ridge
__ Alluvial terrace	✓ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	Nose slope	Ravine

Rock types present: Not apparent

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded ✓ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY: Man-made pond, now supporting a narrow band of Taxodium distichum, ca. 10 meters in width. The presence of T. distichum suggests that site is semi-permanently flooded.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Habitat anthropogenically induced.

Soil Texture:				Drainage:		
__ Sand	__ Peat	__ Silt loam	✓ Muck	__ Rapidly drained	__ Moderately well drained	__ Somewhat poorly drained
__ Sandy loam	__ Loam	__ Clay loam	__ Clay	__ Well drained	__ Poorly drained	✓ *Very poorly drained*

Ground cover

____% Bedrock	____% Litter, duff	____% Other _____
____% Large rocks (cobbles, boulders >10cm)	____% Wood (> 1 cm)	
____% Small rocks (gravel, 0.2-10 cm)	100% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:	Leaf phenology (dominant stratum)	Physiognomic Class
__ Broad-leaved	__ Evergreen	✓ Forest (closed tree canopy)
✓ Needle-leaved	✓ Cold-deciduous	✓ Woodland (open tree canopy) (edited by CWN)
__ Microphyllous	__ Drought-deciduous	__ Shrubland
__ Graminoid	__ Mixed evergreen-cold-deciduous	__ Dwarf Shrubland
__ Broad-leaved herbaceous	__ Mixed evergreen drought deciduous	__ Herbaceous (less than 25% woody layers)
__ Pteridophyte	__ Herb - Annual	__ Nonvascular
__ Extremely xeromorphic	__ Herb - Perennial	__ Sparse Vegetation
Mixed		

Natural and Anthropogenic Disturbance			*Disturbance and animal use comments:*
_ logging	_ fire	✓ Hydrologic	Habitat is anthropogenically induced.
_ erosion	_ trails/roads	_ Agriculture	Evidence of beaver is common
_ grazing/browsing	_ wind/ice damage	_ Old Growth	
_ pine bark beetle	_ exotic plants	_ Fire Suppression	
dogwood anthr	ORV		

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Hinds Park: (NATR) VICK Plot Code: NTN6 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	15-20m	30%	Taxodium distichum - 30%
Understory T3	10-15m	60%	Taxodium distichum - 50%
Tall shrub S1	?		
Short shrub S2			
Herbaceous		5%	herb layer sparse - 5%
Non-vascular	—	—	
Vine/liana	—	—	

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	6	7							8	Taxo dis		
		6							6	Liqu sty		
					2				2	Both cyl		
					1				1	Mika sca		
					2				2	Junc eff		
					2				2	Pent sed		
			2						2	Quer nig		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team_____, Plot NS 177.

Annotated by: _____

Annotation Date (D–M–Y): / /

****

Method of assignment:

- ☐ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

A. 1219?

Class CODE	Fit*	Conf.*	Reference	Notes:
4048				

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

*CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Hinds Park: (NATR) VICK Plot Code: NI177 State: AL (MS) TN Location org: NPS

Provisional community name Successional Field

Classified community name

Classifyer _____ *Date* _____ *NVC ELCODE* CEGL004048

Survey date: Aug. 26, 2004 Surveyors initials: EL, AS

Tagged tree is a _____ of ~ cm dbh with tag # _____. Center of 20 x 50m plot is at a bearing of 350 degrees and (170) ±50 m from ~~base~~ MILE MARKER 73.

Directions to tag tree (including any notes on best access route, and mile marker):

Northwest side of NT at mile Marker 73.

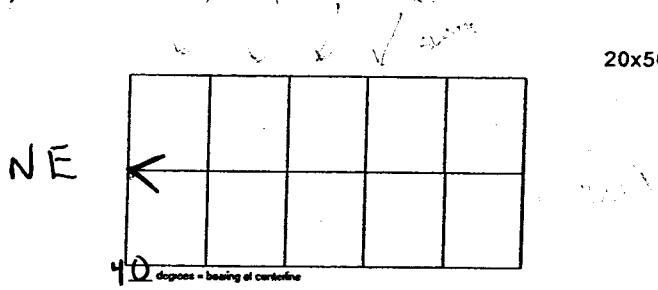
FIELD - NO TAG.

Time taken to walk to plot: 1 minute

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ✓ YES ___ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



20x50m plot

Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA (> 100HA)

PIC # ~~52 OF~~ 75-78 Description of pictures (N,E,S & W from GPS point at middle of plot): N E S W

Select one: UTM OR (Lat/long) (If lat/long, then values are 32.23140 N -90.54834 W NAD83

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) NAD 83 OR NAD27 UTM Zone: 15 16

GPS Unit ID _____ GPS file name NI177 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? ✓ Coordinate accuracy 7 m / ft DOP # sats 8

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: HINDS Park: (NATR) VICK Plot Code: NTRR State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 0 ° 0 %		Measured Aspect 0 ° (N=0 °)		Topographic Postion	
✓ Flat	0 ° 0 %	✓ Flat		_ Interfluve (Ridge/summit/crest)	_ Toeslope
_ Gentle	0-5 ° 1-9%	_ Variable		_ High Slope (upper/convex slope)	
_ Moderate	6-14 ° 10-25%	_ N	338-22 °	_ Midslope	✓ Low level (terrace)
_ Somewhat steep	15-25 ° 26-49%	_ NE	23-67 °	_ Lowslope (lower/footslope)	_ Channel bed
_ Steep	27-45 ° 50-100%	_ E	68-112 °		
_ Very steep	45-69 ° 101-275%	_ SE	113-157 °	*Cowardin System*	
_ Abrupt	70-100 ° 276-300	_ S	158-202 °	✓ *Upland*	_ *Palustrine*
_ ovrhng/shltrd	>100 ° >300%	_ SW	203-247 °	_ *Estuarine*	_ *Lacustrine* _ *Riverine*
		_ W	248-292 °		
		_ NW	293-337		

Landform (check most applicable)

_ Alluvial flat	_ Cove	_ Ridge
_ Alluvial terrace	_ Depression	_ Ridgetop bedrock outcrop
_ Bald	_ Draw	_ Saddle
_ Bank	_ Exogenous dome	_ Seep
_ Bar	✓ Floodplain (Flatland)	_ Toe slope
_ Bench	_ Gap	_ Slope
_ Bottomlands	_ Gorge	_ Streambed
_ Cliff	_ Hillslope bedrock outcrop	_ Streamhead
	_ Midslope	_ Periglacial boulderfield
	_ Nose slope	_ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

✓ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)

_ Intermittently flooded _ Permanently flooded _ Semipermanently flooded _ Temporarily Flooded (e.g. floodplains)

_ Seasonally Flooded (e.g. seasonal ponds) _ Saturated (e.g. bogs, perennial seeps) _ Unknown _ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY: Some ponding is likely, based on terrain. No streams/drainage courses observed nearby.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Appears to be an abandoned agricultural field that is now beginning to transform/in early stage of successional woodland/forest.

Soil Texture:

_ Sand _ Peat ✓ Silt loam _ Muck

_ Sandy loam _ Loam _ Clay loam _ Clay

Drainage:

_ Rapidly drained ✓ Moderately well drained _ Somewhat poorly drained

_ Well drained _ Poorly drained _ *Very poorly drained*

Ground cover

____% Bedrock	____% Litter, duff	0 % Other _____
____% Large rocks (cobbles, boulders >10cm)	____% Wood (> 1 cm)	
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:

_ Broad-leaved

_ Needle-leaved

_ Microphyllous

✓ Graminoid

_ Broad-leaved herbaceous

_ Pteridophyte

_ Extremely xeromorphic

Mixed

Leaf phenology (dominant stratum)

_ Evergreen

_ Cold-deciduous

_ Drought-deciduous

_ Mixed evergreen-cold-deciduous

_ Mixed evergreen drought deciduous

_ Herb - Annual

✓ Herb - Perennial

Physiognomic Class

_ Forest (closed tree canopy)

_ Woodland (open tree canopy)

_ Shrubland

_ Dwarf Shrubland

✓ Herbaceous (less than 25% woody layers)

_ Nonvascular

_ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	✓ exotic plants	_ Fire Suppression
dogwood anthr	ORV	

Disturbance and animal use comments:

Association is an artifact of human disturbance.

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: HINDS Park: (NATR) VICK Plot Code: NT177 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE 8/26/04

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous	TYP. 1m	100%	FESTUCA ELA / VERN. sig / MIXED	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
					5					DICH SCO		
					5					VERN sig		
					4					PASP URV		
					6					FEST ELA		
					4					DIOD VIR		
					4					PASP NOT		
					3					CICU MAC		
					3					SETA PARV		
					2					CYPERUS sp.		
					2					JUNC MAR		
					2					CAMP RAD		
					5					LONI JAP		
					3					RUBU SPA		
			2							ULMU ALA		
					3					CLEM VIR		
					1					BOLTONIA sp.		
				1						CARY ILL		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: HINDS Park: NATR VICK Plot Code: NT177 State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					6					PLUI ANC		
				4	星					FRAX PEN		
					2					SOLA CAR		
					3					RUBU ARG		
					3					SOLI CAN		
					2					CAREX sp (OVALES)		
					2					GALA VOL		
					4					SYMP DUM		
					2					HYPE MUT		
					2					CARE COMPL		
					2					DICH DIC		
					2					JUNC [illegible]		
					2					JUNC sp. (globoses)		
										~~FRAXS~~	✓	
					4					SOLI ALT		
					2					HELE ANT		
					3					ANDR GLO		
					2					JUNC ~~EF~~		
					2					CYPERUS #2		
					1					EUPA CAP		
					3					TRAC DIC		
					3					DESM CAN		
							2			VITI ROT		
					1					PLUC WHITE QUEEN STEM PETIOLATE		
					2					PANICUM ~~sp.~~ HIANS		
					2					LUDW ALT		
					2					ELYM VIR		
					2					VITIS CIN		
					5					RUBU TRI		
					2					PASP PRA		
					1					POLY HYDROPIPEROIDES		
			1							ULMU RUB		
					2					DIGITARIA ISC		
					2					SCHIZ SCO		
			1							LIQU STY		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

AGER COCCINEUM (MIST FLW)

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team_____, Plot NT178.

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 13 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Populus - Salix

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
2427	2	H		has higher Populus deltoides - disturbance related. Fits 2427 well

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: HINDS Park: (NATR) VICK Plot Code: NT178 State: AL (MS) TN Location org: NPS

Provisional community name _____

Classified community name

Classifyer CWN *Date* 9-13-2004 *NVC ELCODE* CEGL002427

Survey date: 8/26/04 **Surveyors initials:** AS, EKL

Tagged tree is a FRAX PEN of 11 cm dbh with tag # 316. Center of 20 x 50m plot is at a bearing of 110° degrees and 2 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

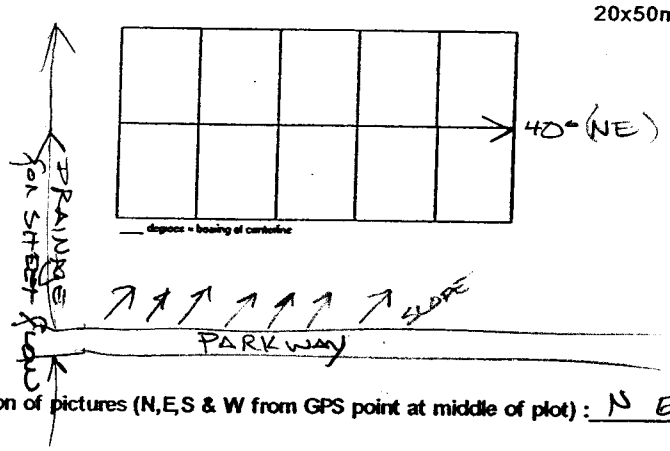
± MILE 85.17

Time taken to walk to plot: MW

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # ~~62 66~~ 79 82

Description of pictures (N,E,S & W from GPS point at middle of plot): N E S W

Select one: UTM OR (Lat/long) (If lat/long, then values are 32.31908 N -90.37321 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD 83 OR NAD27~~ WGS 84 UTM Zone: 15 16

GPS Unit ID _____ GPS file name NT178 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 212 m/(ft)

Averaging performed (at least 120 observations)? Coordinate accuracy 6 (m)/ ft DOP # sats 7

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: HINDS Park: (NATR) VICK Plot Code: NT178 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %			Measured Aspect ____ ° (N=0 °)			Topographic Postion	
✓ Flat	0 °	0 %	✓ Flat		SE 113-157 °	_ Interfluve (Ridge/summit/crest)	_ Toeslope
_ Gentle	0-5 °	1-9%	_ Variable		S 158-202 °	_ High Slope (upper/convex slope)	
_ Moderate	6-14 °	10-25%	_ N 338-22 °		SW 203-247 °	_ Midslope	✓ Low level (terrace)
_ Somewhat steep	15-25 °	26-49%	_ NE 23-67 °		W 248-292 °	_ Lowslope (lower/footslope)	_ Channel bed
_ Steep	27-45 °	50-100%	_ E 68-112 °		NW 293-337		
_ Very steep	45-69 °	101-275%				*Cowardin System*	
_ Abrupt	70-100 °	276-300				_ *Upland*	✓ *Palustrine*
_ ovrhng/shltrd	>100 °	>300%				_ *Estuarine*	_ *Lacustrine* _ *Riverine*

Landform (check most applicable)		
_ Alluvial flat	_ Cove	_ Ridge
_ Alluvial terrace	_ Depression	_ Ridgetop bedrock outcrop
_ Bald	_ Draw	_ Saddle
_ Bank	_ Exogenous dome	_ Seep
_ Bar	_ Floodplain	_ Toe slope
_ Bench	_ Gap	_ Slope
✓ Bottomlands	_ Gorge	_ Streambed
_ Cliff	_ Hillslope bedrock outcrop	_ Streamhead
	_ Midslope	_ Periglacial boulderfield
	_ Nose slope	_ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

_ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)

✓ Intermittently flooded _ Permanently flooded _ Semipermanently flooded _ Temporarily Flooded (e.g. floodplains)

_ Seasonally Flooded (e.g. seasonal ponds) _ Saturated (e.g. bogs, perennial seeps) _ Unknown _ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

PONDING / SATURATION APPARENTLY FREQUENT - PROBABLY DUE TO CLAY LAYER. VERY LITTLE HERBACEOUS LAYER. BLACKENED LITER FROM ANAEROBIC ACTIVITY.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

LOGGED OR OLD FIELD ± 30 YRS AGO?
SUCCESSIONAL

Soil Texture: ✓ SILTY CLAY				Drainage:			
_ Sand	_ Peat	_ Silt loam	_ Muck	_ Rapidly drained	✓ Moderately well drained	_ Somewhat poorly drained	
_ Sandy loam	_ Loam	_ Clay loam	_ Clay	_ Well drained	✓ Poorly drained	_ *Very poorly drained*	

Ground cover

____ % Bedrock	60 % Litter, duff	____ % Other _____
____ % Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % Sand (0.1-2 mm)	30 % Bare soil	

Leaf type:	Leaf phenology (dominant stratum)	Physiognomic Class
✓ Broad-leaved	_ Evergreen	✓ Forest (closed tree canopy)
_ Needle-leaved	✓ Cold-deciduous	_ Woodland (open tree canopy)
_ Microphyllous	_ Drought-deciduous	_ Shrubland
_ Graminoid	_ Mixed evergreen-cold-deciduous	_ Dwarf Shrubland
_ Broad-leaved herbaceous	_ Mixed evergreen drought deciduous	_ Herbaceous (less than 25% woody layers)
_ Pteridophyte	_ Herb - Annual	_ Nonvascular
_ Extremely xeromorphic	_ Herb - Perennial	_ Sparse Vegetation
_ Mixed		

Natural and Anthropogenic Disturbance			Disturbance and animal use comments:
_ logging	_ fire	✓ Hydrologic	SITE IS AN ARTIFACT OF HUMAN DISTURBANCE
_ erosion	_ trails/roads	_ Agriculture	
_ grazing/browsing	_ wind/ice damage	_ Old Growth	
_ pine bark beetle	_ exotic plants	_ Fire Suppression	
_ dogwood anthr	ORV		

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Hinds Park: (NATR) VICK Plot Code: NTN8 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	20-35m	90	Fraxinus pensylvanica - 70%
Understory T3	15-20m	50%	Fraxinus pensylvanica - 20%, Ulmus americana - 20%
Tall shrub S1	2-5m	30%	Ulmus americana - 10%, Acer negundo - 10%
Short shrub S2	.5-1m	10%	short shrub layer is sparse - 10%
Herbaceous	—	20%	Aster lateriflorus - 10%
Non-vascular	—	—	
Vine/liana	—	—	

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	6								6	Popu del		
	5								5	Sali nig		
	8	6							9	Frax pen		
		6	5	3					6	Ulmu ame		
		5	5						6	Acer neg		
	4	4	2						5	Cary ill		
				1					1	Celt lae		
					5				5	Aste lat		
					4				4	Carex sp. (Ovales group)		
					1				1	Boeh cyl		
				2					2	Toxi rad		
				1					1	Ceph occ		
					2				2	Brun ova		
					2				2	Junc eff		
				1					1	Ulmu ala		
							2		2	Camp rad		
					1				1	Pani rig		
					1				1	Case lou		
										Platanthera sp.		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team_____, Plot NT179.

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 13 / 2004

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.'	Reference	Notes:
4771	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

'CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: MADISON Park: NATR VICK Plot Code: NT179 State: AL MS TN Location org: NPS

Provisional community name _____

Classified community name Quercus phellos – Quercus nigra – Quercus alba/Chasmanthium (laxum, sessiliflorum) Forest

Classifyer CWN *Date* 9/13/2004 *NVC ELCODE* 4771

Survey date: 8/26/04 **Surveyors initials:** AS EL

Tagged tree is a QUER PHE of 46 cm dbh with tag # 315. Center of 20 x 50m plot is at a bearing of 220 SW degrees and 3 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

MILE 104.1 PARKWAY RUN E-WHERE -- PLOT IS IN NARROW STRIP OF WOODS N OF ROAD, BTWN RD + BRICK HOUSE

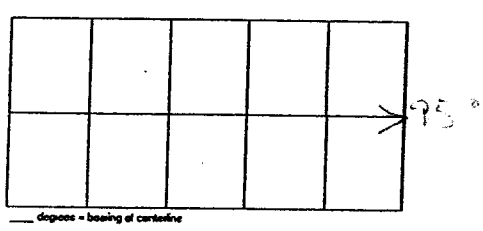
PLOT CTR IS ABOUT 40M N OF RD.

Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location) (HOMES)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PARKWAY

PIC # ~~80 89~~ 83 86 Description of pictures (N,E,S & W from GPS point at middle of plot) : _____

Select one: UTM OR Lat/long (If lat/long, then values are 32.42588 N -90.09625 W

GPS Techniques/Equipment: Garmin III+ Garmin V Datum(pick one) ~~NAD 83 OR NAD27~~ WAS 84 UTM Zone: 15 16

GPS Unit ID _____ GPS file name NT179 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 415 m / ft

Averaging performed (at least 120 observations)? 159 Coordinate accuracy 10 m / ft DOP _____ # sats _____

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: MADISON Park: NATR VICK Plot Code: NT179 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %			Measured Aspect ____ ° (N=0 °)			Topographic Postion	
✓ Flat	0 °	0 %	✓ Flat		SE 113-157 °	_ Interfluve (Ridge/summit/crest)	__ Toeslope
__ Gentle	0-5 °	1-9%	__ Variable		S 158-202 °	__ High Slope (upper/convex slope)	
__ Moderate	6-14 °	10-25%	__ N	338-22 °	SW 203-247 °	__ Midslope	✓ Low level (terrace)
__ Somewhat steep	15-25 °	26-49%	__ NE	23-67 °	W 248-292 °	__ Lowslope (lower/footslope)	__ Channel bed
__ Steep	27-45 °	50-100%	__ E	68-112 °	NW 293-337		
__ Very steep	45-69 °	101-275%				*Cowardin System*	
__ Abrupt	70-100 °	276-300				_ *Upland*	✓ *Palustrine*
__ ovrhng/shltrd	>100 °	>300%				_ *Estuarine*	_ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	Nose slope	Ravine

FLATLAND

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)

✓ Intermittently flooded __ Permanently flooded __ Semipermanently flooded X Temporarily Flooded (e.g. floodplains)

__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

APPARENTLY SATURATED/PONDED INTERMITTENTLY. SURFACE SOIL IS LOAMY, BUT SITE ONLY SUPPORTS WETLAND PLANTS; CLAY LENS LIKELY SLOWS DRAINAGE.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

A NARROW STRIP OF WOODS BETWEEN NT PKWAY & BACKYARDS OF A SUBURBAN STREET. (~50m)

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam ✓ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained ✓ Somewhat poorly drained
__ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)

85 % Litter, duff
15 % Wood (> 1 cm)
____% Water
____% Bare soil

✓ % Other BRYOPHYTES (=5°)

Leaf type:

✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
Mixed

Leaf phenology (dominant stratum)

__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

✓ logging	_ fire	✓ Hydrologic
_ erosion	✓ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
dogwood anthr	ORV	

Disturbance and animal use comments:

~~SLIGHTLY~~ ELEVATED PARKWAY MAY HAVE ALTERED HYDROLOGY

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: [illegible] Park: (NATR) VICK Plot Code: NM29 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	90%	Quercus phellos - 70%	.5-1m	10%
Understory T3	15-20m	30%	Ulmus americana - 20%	1-2m	20%
Tall shrub S1	2-5m	20%	Ulmus americana - 5%, Ulmus alata - 5% Ilex decidua - 5%	2-5m	30%
Short shrub S2	–	10%	Total short shrub - 10%	5-10m	40%
Herbaceous	–	50%	Carex (Ovales subgenus) - 10% Leersia virginica - 10% Chasmanthium laxum - 5%	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana	–	20%	Bignonia capreolata - 5%, Smilax rotundifolia - 5%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	9			2					9	Quer phe		
		6	4						6	Ulmu ame		
		4	4	2					5	Ulmu ala		
			4	2					4	Ilex dec		
							4		4	Bign cap		
			2	1					2	Lind sin		
							4		4	Smil rot		
							3		3	Camp rad		
					5				5	Leer vir		
							2		2	Smil bon		
					4				4	Chas lax		
					2				2	Dich dic		
					3				3	Trac dif		
					5				5	Carex sp. (Ovales group)		
							3		3	Toxi rad		
			2	2					3	Frax pen		
							3		3	Loni jap		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: MADISON Park: NATR VICK Plot Code: NTTT9 State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					2				2	Chas lat		
								2	2	Pleo pol ssp. mich		
					2				2	Rubu dea		
				2					2	Dios vir		
					2				2	Care dig		
							2		2	Viti rot		
					2				2	Sani can		
	5			1					5	Quer nig		
					1				1	Sele alt		

Cover classes

1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team_____, Plot NT180.

Annotated by: CWN

Annotation Date (D–M–Y): 9 / 10 / 04

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.*	Reference	Notes:
6011	1	H		lacks Vaccinium stamineum

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

*CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: MADISON Park: NATR VICK Plot Code: NT180 State: AL (MS) TN Location org: NPS

Provisional community name _____

Classified community name Pinus taeda / Liquidambar styraciflua - Acer rubrum var. rubrum / Vacc. stamineum Forest
Classifyer CWN *Date* 9/10/2004 *NVC ELCODE* 6011

Survey date: 8/26/04 **Surveyors initials:** A.S. EKL

Tagged tree is a LIQU STY of 12 cm dbh with tag # 315. Center of 20 x 50m plot is at a bearing of 10 degrees and 1 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

BETWEEN MILE 105 & 106, TURN OFF (TO E) TO OVERLOOK FOR ROSS-BARNETT RESERVOIR. PARK & WALK DOWNSLOPE TO WATER'S EDGE & TO THE RIGHT (SE) INTO WOODS

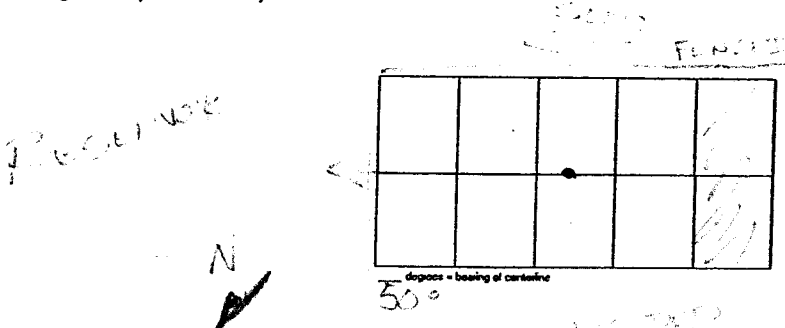
GPS TAKEN AT 25 M, NOT AT PLOT CENTER (SEE DIAGRAM)

Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 70-73-87-90 Description of pictures (N,E,S & W from GPS point at middle of plot) : _____

Select one: UTM OR Lat/long (If lat/long, then values are 32.40582 N -90.07326 W

GPS Techniques/Equipment: Garmin III+ Garmin V Datum(pick one) NAD 83_OR_NAD27 UTM Zone: 15 16

GPS Unit ID _____ GPS file name NT180 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? N2 Coordinate accuracy _____ m / ft DOP _____ # sats

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: MADISON Park: NATR VICK Plot Code: NT180 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 5 ° ____ %

__ Flat	0 °	0 %
✓ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 50° (N=0 °)

__ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
✓ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
✓ Lowslope (lower/footslope) __ Channel bed
(ARTIFICIAL) -- DUE TO RESERVOIR

Cowardin System

✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat
__ Alluvial terrace
__ Bald
__ Bank
__ Bar
__ Bench
__ Bottomlands
__ Cliff
__ Cove
__ Depression
__ Draw
__ Exogenous dome
__ Floodplain
__ Gap
__ Gorge
__ Hillslope bedrock outcrop
__ Midslope
__ Nose slope
__ Ridge
__ Ridgetop bedrock outcrop
__ Saddle
__ Seep
__ Toe slope
✓ Slope
__ Streambed
__ Streamhead
__ Periglacial boulderfield
Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : DRY - MESIC (MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

NO EXCESSIVE RUNOFF

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

SITE ASSOCIATION MAY BE AN ARTIFACT OF ANTHROPOGENIC DISTURBANCE POSSIBLY PLANTED LOBLOLLIES LEFT TO SUCCESSION; ADJACENT TO MOWED LAWN W/ LOBLOLLIES OF SIMILAR SIZE

Soil Texture:

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
95% Litter, duff
5% Wood (> 1 cm)
____% Water
____% Bare soil
____% Other _____

Leaf type:

__ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
✓ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

✓ logging SELECTIVE
_ erosion
_ grazing/browsing
_ pine bark beetle
dogwood anthr
_ fire
_ trails/roads
_ wind/ice damage
✓ exotic plants
ORV
_ Hydrologic
_ Agriculture
_ Old Growth
_ Fire Suppression

Disturbance and animal use comments:

SOME TRASH; A DUMPED CRAPE MYRTLE
[PULLED UP A SAPLING SEBASTIANA - TALLOW TREE - SEEDLING]
HONEYSUCKLE

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: MADISON Park: (NATR) VICK Plot Code: NT 120 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	20-35m	60%	Pinus taeda - 60%
Understory T3	10-15m	50%	Liquidambar styraciflua - 30%
Tall shrub S1	2-5m	30%	Liquidambar styraciflua - 10%
Short shrub S2	.5-1m	20%	Prunus serotina - 5%
Herbaceous	—	10%	Herb layer relatively sparse - 10%
Non-vascular	—	—	
Vine/liana	—	20%	Berchemia scandens - 10%

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	8			1					8	Pinu tae		
			3	2					3	Quer nig		
		7	5						7	Liqu sty		
		5	3						5	Acer rub		
			3	1					3	Cary ova		
		3	4	3					4	Prun ser		
							3		3	Camp rad		
							3		3	Toni jap		
							2		2	Cocc car		
			3	2					3	Ulmu ala		
			2						2	Cary alb		
		3		2					3	Fraxame		
							2		2	Smil rot		
				1					1	Samb can		
							2		2	Smil sma		
							3		3	Part qui		
			2						2	Call ame		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Madison Park: (NATR) VICK Plot Code: NT180 State: AL (MS) TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
			3	2					3	Dios vir		
					2				2	Verb vir		
					2				2	Chas lax		
					2				2	Diac mul		
					2				2	Clit mar		
							2		2	Smil gla		
			2						2	Ulmu ame		
							6		6	Berc sca		
				1					1	Sass alb		
							3		3	Gels sem		
					2				2	Chas ses		
			2	2					3	Nyss syl		
							2		2	Bign cap		
				1					1	Nandina		
				1					1	Quer alb		
			2						2	Ligu sin		
							2		2	Arpe arb		
							3		3	Viti rot		
					1				1	Lact flo		
					2				2	Sale oli		
					1				1	Sani can		
							2		2	Hede hel		
					2				2	Rubu arg		
							5		5	Toxi rad		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team _____, Plot NT181.

Annotated by: CWN

Annotation Date (D-M-Y): 6 / 4 / 2007

****

Method of assignment:

- [x] inspection
- [ ] tabular analysis
- [x] multivariate
- [ ] expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
4112	1	H	CWN 2007-04-06	

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: MADISON Park: (NATR) VICK Plot Code: NT16 State: AL (MS) TN Location org: NPS

Provisional community name _____

Classified community name _____

Classifyer CWN *Date* 2007-04-06 *NVC ELCODE* 4112

Survey date: 8/26/24 **Surveyors initials:** AS EKL

Tagged tree is a _____ of ____ cm dbh with tag #_____. Center of 20 x 50m plot is at a bearing of ____ degrees and ____ m from tree.

Directions to tag tree (including any notes on best access route, and mile marker): MILE 106.55 FROM S END of BRIDGE, W-MOST SIDE, LOOK 220° (SW) TOWARD SWAMP EDGE. THAT'S WHERE GPS PT TAKEN

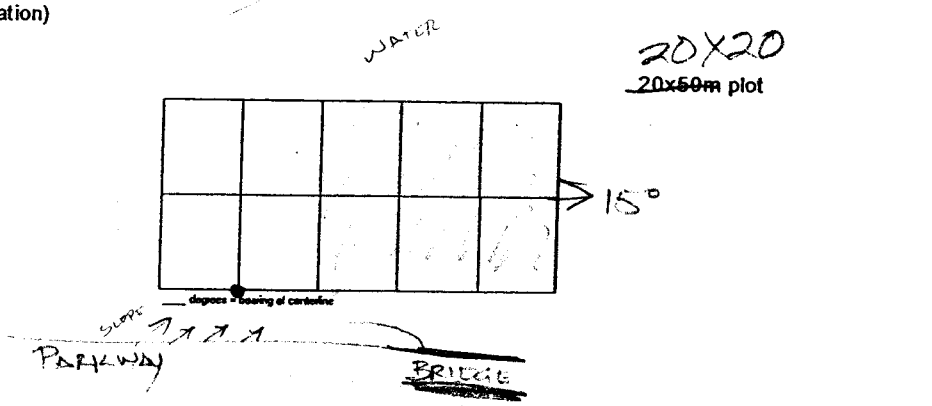
GPS POINT & PICTURES TAKEN FROM CENTRAL POINT OF EAST EDGE (BANK) of PLOT (SEE DIAGRAM)

Time taken to walk to plot: _____

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # ~~74 77~~ 91-94 Description of pictures (N,E,S & W from GPS point at middle of plot) : _____

Select one: UTM OR Lat/long (If lat/long, then values are 32.44886 N -90.07198 W

GPS Techniques/Equipment: Garmin III+ Garmin V Datum(pick one) ~~NAD 83 OR NAD27~~ WGS 84 UTM Zone: 15 16

GPS Unit ID _____ GPS file name NT181 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 298' m / ft

Averaging performed (at least 120 observations)? 145 Coordinate accuracy 50 m / ft DOP # sats 6

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: MADISON Park: NATR VICK Plot Code: NT181 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

✓ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

✓ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) ✓ Channel bed

Cowardin System
_ *Upland* ✓ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

✓ Alluvial flat ? SWAMPY END OF INLET	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
✓ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)
__ Not a wetland (Upland: XERIC - DRY - MESIC : MESIC)
__ Intermittently flooded ✓ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

AN INLET OF THE ROSS BARNETT RESERVOIR FORMED BY THE ROAD/BRIDGE

Soil Texture:
__ Sand __ Peat __ Silt loam ✓ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:
__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
__ Well drained __ Poorly drained ✓ *Very poorly drained*

Ground cover

____% Bedrock	____% Litter, duff	____% Other _____
____% Large rocks (cobbles, boulders >10cm)	____% Wood (> 1 cm)	
____% Small rocks (gravel, 0.2-10 cm)	✓ % Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
__ Broad-leaved
__ Needle-leaved
__ Microphyllous
✓ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
Mixed

Leaf phenology (dominant stratum)
__ Evergreen
__ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
✓ Herb - Perennial

Physiognomic Class
__ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
✓ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	✓ exotic plants	_ Fire Suppression
_ dogwood anthr	_ ORV	

Disturbance and animal use comments:
SOME TRASH
ALLIGATOR NOTED

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Madison Park: (NATR) VICK Plot Code: NT181 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous		90%	Juncus effusus - 40%, Alternanthera phil. - 20% Polygonum hydropiperoides - 10%	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
			2						2	Ceph occ		
					1				1	Junc eff		
					6				6	Alte phi		
					3				3	Echi cor		
					3				3	Mika sca		
					2				2	Care gig		
					4				4	Hydr ver		
					2				2	Hibi mos		
					2				2	Myri spi		
					6				6	Poly hydropiperoides		
					1				1	Pluc odo		
					2				2	Scir cyp		
					2				2	Rhyn cor		
					2				2	Poly den		
					2				2	Bali fin		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team _____, Plot NT182.

Annotated by: CWN

Annotation Date (D-M-Y): 4 / 6 / 2007

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.*	Reference	Notes:
7611	1	H	CWN 2007-04-06	

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

*CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: MADISON Park: (NATR) VICK Plot Code: NT 182 State: AL (MS) TN Location org: NPS

Provisional community name

Classified community name Eichhornia crassipes Herbaceous Vegetation

Classifyer CWN *Date* 2007-04-06 *NVC ELCODE* 7671

Survey date: Aug. 26, 2004 Surveyors initials: EL, AS

Tagged tree is a _____ of ___ cm dbh with tag #_____. Center of 20 x 50m plot is at a bearing of ____ degrees and ____ m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

MILE 108.3. GPS POINT TAKEN AT WATER'S EDGE AT SW BASE OF PILINGS.

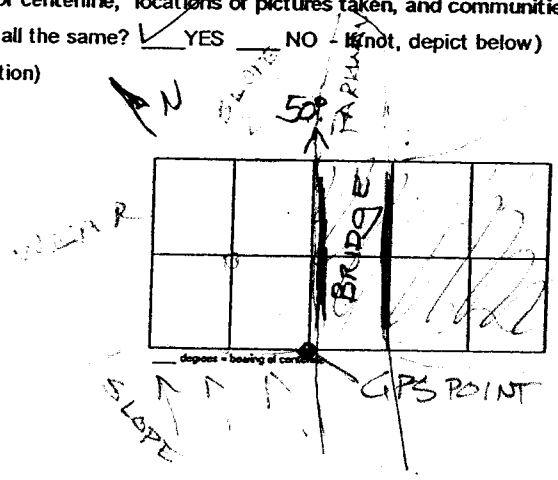
CENTER OF 20X20 PLOT IS AT A BEARING OF 5° AND 15 M FROM GPS PT.

Time taken to walk to plot: 1 minute

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ✓ YES ___ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



20X20 ~~20X50m~~ plot

Est. Extent of occurrence of community:

< 1HA 1-10 HA (10-100HA) > 100HA

PIC # ~~78~~ ~~79~~ 9596 Description of pictures (N,E,S & W from GPS point at middle of plot): 78 = VIEW OF PLOT FROM WSW 79 = WATER HYACINTH

Select one: UTM OR (Lat/long) (If lat/long, then values are 32.46846 N -90.05477 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD 83~~ OR NAD27 WAS 84 UTM Zone: 15 16

GPS Unit ID _____ GPS file name NT182 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 300 m / (ft)

Averaging performed (at least 120 observations)? ✓ Coordinate accuracy 70 (m) / ft DOP # sats 6

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Madison Park: (NATR) VICK Plot Code: NT182 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 0 ° 0 %

✓ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 0 ° (N=0 °)

✓ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

__ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope
__ Lowslope (lower/footslope)
✓ Low level (terrace)
✓ Channel bed

Cowardin System

__ *Upland* ✓ *Palustrine*
__ *Estuarine* __ *Lacustrine* __ *Riverine*

Landform (check most applicable)

__ Alluvial flat
__ Alluvial terrace
__ Bald
__ Bank
__ Bar
__ Bench
__ Bottomlands
__ Cliff
✓ Cove (of reservoir)
__ Depression
__ Draw
__ Exogenous dome
__ Floodplain
__ Gap
__ Gorge
__ Hillslope bedrock outcrop
__ Midslope
__ Nose slope
__ Ridge
__ Ridgetop bedrock outcrop
__ Saddle
__ Seep
__ Toe slope
__ Slope
__ Streambed
__ Streamhead
__ Periglacial boulderfield
Ravine

Rock types present: None apparent.

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded ✓ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY: Cove/inlet of Ross Barnett Reservoir

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Association is an artifact of anthropogenic disturbance.

Soil Texture:

__ Sand __ Peat __ Silt loam ✓ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
__ Well drained __ Poorly drained ✓ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
____% Litter, duff
____% Wood (> 1 cm)
____% Water
____% Bare soil
0 % Other _____

Leaf type:

__ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
✓ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
__ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
✓ Herb - Annual
__ Herb - Perennial

Physiognomic Class

__ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
✓ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging _ fire _ Hydrologic
_ erosion _ trails/roads _ Agriculture
_ grazing/browsing _ wind/ice damage _ Old Growth
_ pine bark beetle ✓ exotic plants _ Fire Suppression
_ dogwood anthr ORV

Disturbance and animal use comments:
Association is an artifact of human disturbance.

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Madison Park: (NATR) VICK Plot Code: NT182 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous		100%	Eichhornia crassipes - 100%	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
					10				10	Eich cra		
					2				2	Alte phi		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team _____, Plot NT183

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 10 / 2004

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.*	Reference	Notes:
24|9	1	H		some Taxodium distichum present

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

*CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: MADISON Park: (NATR) VICK Plot Code: NT183 State: AL (MS) TN Location org: NPS

Provisional community name BALD CYPRESS - TUPELO SWAMP

Classified community name Nyssa aquatica Forest

Classifyer CWN *Date* 9/10/2004 *NVC ELCODE* 2419

Survey date: 8/26/04 **Surveyors initials:** AS EKL

Tagged tree is a _____ of ____ cm dbh with tag #_____. Center of 20 x 50m plot is at a bearing of 130 degrees and 10 m from GPS POINT

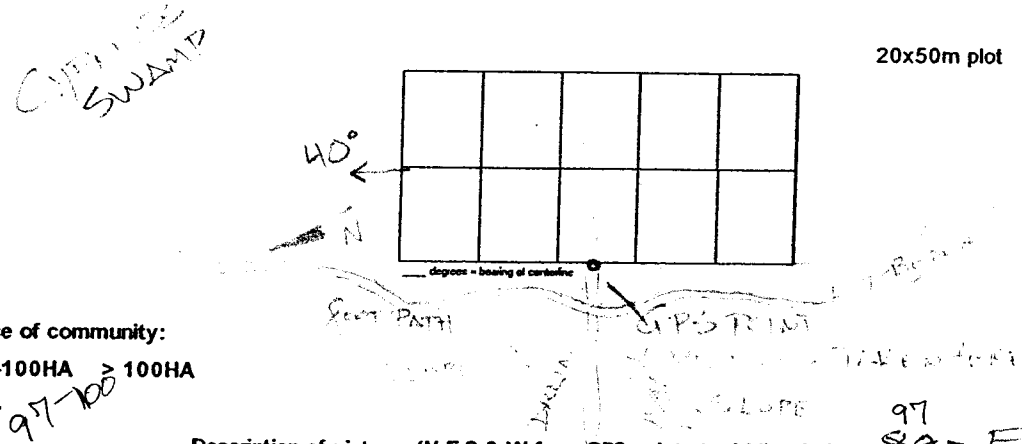
Directions to tag tree (including any notes on best access route, and mile marker): ± MILE 122 TAKE TURN OF (NATCHEZ TRACE) PKWY (L) TO 'CYPRESS SWAMP'. FACING SWAMP, TAKE NATURE TRAIL TO RIGHT TO SMALL DRAINAGE FEATURE. NO TAG SINCE THIS IS A SCENIC, HEAVILY TOURISTED AREA. GPS PT TAKEN AT EDGE OF SWAMP WHERE SHALLOW DRAW DRAINS INTO SWAMP. (LOW SPOT IN FOOT PATH).

Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # ~~97~~ 97-100 Description of pictures (N,E,S & W from GPS point at middle of plot): ~~98~~ 97 = E

~~98~~ =S ~~99~~ 99 = SW (225°) ALONG EDGE OF PLOT ~~100~~ 100 = AMERICAN ALLIGATOR NEAR N END OF PLOT

Select one: UTM OR (Lat/long) (If lat/long, then values are 32.57891 N -87.87006 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD 83 OR NAD27~~ WAS 84 UTM Zone: 15 16

GPS Unit ID _____ GPS file name NT183 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 339 m / ft

Averaging performed (at least 120 observations)? yes Coordinate accuracy _____ m / ft DOP _____ # sats _____

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Madison Park: (NATR) VICK Plot Code: NT183 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 0 ° 0 %

✓ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 0 ° (N=0 °)

✓ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

__ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope
__ Lowslope (lower/footslope) ✓ Low level (terrace) ✓ Channel bed

Cowardin System
__ *Upland* ✓ *Palustrine*
__ *Estuarine* __ *Lacustrine* __ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
✓ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	Ravine

Rock types present: None apparent

Hydrologic Regime (check only for wetlands)
__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded ✓ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded __ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY: Association is classified as an oxbow lake. Site - permanently flooded - trees scattered throughout suggesting that site periodically becomes dry.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):
Nature area along NT Parkway - nature trail encircles swamp.

Soil Texture:
__ Sand __ Peat __ Silt loam ✓ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:
__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
__ Well drained __ Poorly drained ✓ *Very poorly drained*

Ground cover

____ % Bedrock	____ % Litter, duff	0 % Other _____
____ % Large rocks (cobbles, boulders >10cm)	____ % Wood (> 1 cm)	
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
__ Broad-leaved
✓ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

__ logging	__ fire	__ Hydrologic
__ erosion	__ trails/roads	__ Agriculture
__ grazing/browsing	__ wind/ice damage	__ Old Growth
__ pine bark beetle	__ exotic plants	__ Fire Suppression
dogwood anthr	ORV	

Disturbance and animal use comments:
No apparent disturbance.

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: MADISON Park: (NATR) VICK Plot Code: MT183 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	20-35m	90%	Nyssa aquatica-70%, Taxodium distichum 20%
Understory T3	15-20m	20%	Nyssa aquatica-10%, Quercus lyrata-5%
Tall shrub S1	—	—	
Short shrub S2	—	—	
Herbaceous	—	90%	Lemna minor-90%
Non-vascular	—	—	
Vine/liana	—	—	

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	8	5							8	Nyss aqu		
	6								6	Taxo dis		
		5							5	Quer lyr		
					2				2	Boeh cyl		
					9				9	Lemn min		
								3	3	Pleo poly ssp. mich		
			2						2	Iten vir		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team_____, Plot NT184.

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 10 / 2004

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.'	Reference	Notes:
4763	1	H		Perfect fit!

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

'CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: MADISON Park: (NATR) VICK Plot Code: NT184 State: AL (MS) TN Location org: NPS

Provisional community name WHITE OAK - [illegible]

Classified community name Pinus taeda - Quercus alba / Chasmanthium sessiliflorum Forest
Classifyer CWN *Date* 9/10/2004 *NVC ELCODE* 4763

Survey date: 8/26/04 **Surveyors initials:** AS EKL

Tagged tree is a Nyss BIF of 30 cm dbh with tag # 314 NE NW. Center of 20 x 50m plot is at a bearing of 50 degrees and 2 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker): ± MILE 122

SAME DIRECTIONS AS PLOT NT 184 - (@ CYPRESS SWAMP)

NT184 IS 1ST SLOPE (W) FROM PLOT NT 183 - CYPRESS SWAMP

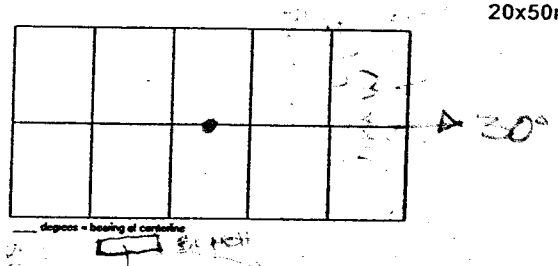
Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)

PARKWAY



PARKING FOR CYPRESS SWAMP

Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 84-87 101-104

Description of pictures (N,E,S & W from GPS point at middle of plot) : _____

Select one: UTM OR (Lat/long) (If lat/long, then values are 32.37837 N 88.87042 W

NAD83

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD 83 OR NAD27~~ UTM Zone: 15 16

GPS Unit ID _____ GPS file name NT184 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 324 m / ft

Averaging performed (at least 120 observations)? ✓ Coordinate accuracy 9 m / ft DOP # sats 4

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Madison Park: NATR VICK Plot Code: NT124 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %

__ Flat	0 °	0 %
✓ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect ____ ° (N=0 °)

__ Flat		__ SE	113-157 °
✓ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

✓ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat
__ Alluvial terrace
__ Bald
__ Bank
__ Bar
__ Bench
__ Bottomlands
__ Cliff
__ Cove
__ Depression
__ Draw
__ Exogenous dome
__ Floodplain
__ Gap
__ Gorge
__ Hillslope bedrock outcrop
__ Midslope
__ Nose slope
✓ Ridge
__ Ridgetop bedrock outcrop
__ Saddle
__ Seep
__ Toe slope
__ Slope
__ Streambed
__ Streamhead
__ Periglacial boulderfield
__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

NO NEAR STREAMS
A SHALLOW DRAW RUNS EAST THROUGH N END OF PLOT, DRAINING INTO SWAMP.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

NICE PLOT

Soil Texture:

__ Sand __ Peat ✓ Silt loam __ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
95 % Litter, duff
5 % Wood (> 1 cm)
____% Water
____% Bare soil
____% Other _____

Leaf type:

__ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
✓ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
__ Cold-deciduous
__ Drought-deciduous
✓ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

✓ logging SELECTIVE
_ erosion
_ grazing/browsing
_ pine bark beetle
dogwood anthr
_ fire
_ trails/roads
_ wind/ice damage
_ exotic plants
ORV
_ Hydrologic
_ Agriculture
_ Old Growth
_ Fire Suppression

Disturbance and animal use comments:

FRESH [illegible] LOGS
ABUNDANCE OF LIVING AND DEAD [illegible]
INDICATES SCATTERED, SMALL SCALE SELECTIVE LOGGING
SOME SMOOTHING BALE OF PECANS LOCALLY IN [illegible]

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Madison Park: (NATR) VICK Plot Code: NT182 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	20-35m	90%	Pinus taeda - 40%, Quercus alba - 40%
Understory T3	15-20m	70%	Quercus alba - 20%, Cornus florida - 20%
Tall shrub S1	2-5m	50%	Cornus Aucuba 10%, Ulmus alata - 5% Nyssa sylvatica - 10%
Short shrub S2		40%	Euonymus americana - 5%
Herbaceous	—	10%	herb layer is sparse - total = 10%
Non-vascular	—	—	
Vine/liana		20%	Vitis rotundifolia - 10%

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	7								7	Pinu tae		
	7	6	5	3					7	Quer alb		
	5		3	2					5	Quer spp		
		3	3						4	Cary alb		
		4	3	3					5	Acer rub		
			3	2					3	Aral spi		
			2	5					5	Euon ame		
				2					2	Sass alb		
							3		3	Smil rot		
			4	4					5	Ulmu ala		
			3	2					3	Call ame		
							5		5	Viti rot		
							3		3	Toxi rad		
							2		2	Part qui		
							2		2	Loni jap		
			5	3					5	Nyss syl		
							2		2	Smil bon		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Madison Park: (NATR) VICK Plot Code: NT184 State: AL (MS) TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
							4		4	Gels sem		
			4						4	Vacc ell		
		3	3						4	Ligu sty		
				4					4	Seba fru		
					2				2	Dios vil		
					2				2	Desm per		
					2				2	Dich bos		
					2				2	Chas ses		
					2				2	Dioc mul		
									1	Celt ten		
		6	5						6	Corn flo		
			4	2					4	Pan ser		
					2				2	Sani can		
					2				2	Sele oli		
					2				2	Chas lax		
			3	3					4	Symp fin		
					1				1	Smil rac		
								2	2	Pleo pol ssp. mich		
					1				1	Rubu arg		
			2						2	Fesc pal		
					1				1	Iris fri		
			2						2	Ulmu ame		
					1				1	Gali uni		
				1					1	Moru rub		
							2		2	Smil gla		

Cover classes

1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NAPR Team _____, Plot NT 185.

Annotated by: CWN

Annotation Date (D-M-Y): 4 / 6 / 2007

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

BLACKBRUSH SHRUBLAND

Class CODE	Fit*	Conf.*	Reference	Notes:
2191	2	M		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

*CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: ATALA Park: (NATR) VICK Plot Code: NT185 State: AL (MS) TN Location org: NPS

Provisional community name BLACK WILLOW SWAMP

Classified community name Cephalanthus occidentalis/Carex spp.-Lemna spp. Southern Shrubland
Classifyer CWN *Date* 4-6-2007 *NVC ELCODE* CEGL002191

Survey date: 8/27/04 Surveyors initials: AS EJL

Tagged tree is a _____ of ____ cm dbh with tag #_____. Center of 20 x 50m plot is at a bearing of ____ degrees and ____ m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

MILE 156.7 TOWN OF ROCKFORD

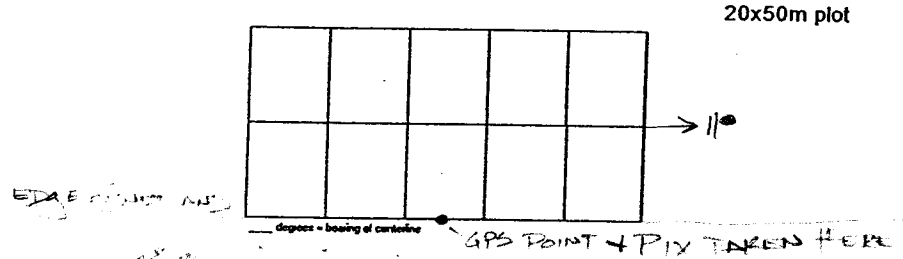
W SIDE OF PKWY. EDGE OF SWAMP MARKS EDGE OF SWAMP

Time taken to walk to plot: 5 SECONDS

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 88-89 105-106 Description of pictures (N,E,S & W from GPS point at middle of plot): 105 N 106 W

(E+S WERE OF PARKWAY)

Select one: UTM OR (Lat/long) (If lat/long, then values are 32.99709 N 89.60327 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) NAD 83 OR NAD27 UTM Zone: 15 16

GPS Unit ID _____ GPS file name NT185 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 397 m / (ft) GPS

Averaging performed (at least 120 observations)? Y Coordinate accuracy 5 (m) / ft DOP # sats 8

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: ATTALA Park: (NATR) VICK Plot Code: NT M25 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____ ° ____ %			Measured Aspect ____ ° (N=0 °)			Topographic Postion	
✓ Flat	0 °	0 %	✓ Flat		SE 113-157 °	_ Interfluve (Ridge/summit/crest)	__ Toeslope
__ Gentle	0-5 °	1-9%	__ Variable		S 158-202 °	_ High Slope (upper/convex slope)	
__ Moderate	6-14 °	10-25%	__ N	338-22 °	SW 203-247 °	__ Midslope	✓ Low level (terrace)
__ Somewhat steep	15-25 °	26-49%	__ NE	23-67 °	W 248-292 °	__ Lowslope (lower/footslope)	__ Channel bed
__ Steep	27-45 °	50-100%	__ E	68-112 °	NW 293-337		
__ Very steep	45-69 °	101-275%				*Cowardin System*	
__ Abrupt	70-100 °	276-300				_ *Upland*	✓ *Palustrine*
__ ovrhng/shltrd	>100 °	>300%				_ *Estuarine*	_ *Lacustrine* _ *Riverine*

Landform (check most applicable)		
__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
✓ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)

__ Intermittently flooded ✓ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)

__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

BEAVER - IMPOUNDED WETLAND -- OLD SNAGS OF TALL ELM & [illegible]

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:				Drainage:		
__ Sand	__ Peat	__ Silt loam	✓ Muck	__ Rapidly drained	__ Moderately well drained	__ Somewhat poorly drained
__ Sandy loam	__ Loam	__ Clay loam	__ Clay	__ Well drained	__ Poorly drained	✓ *Very poorly drained*

Ground cover

____ % Bedrock	____ % Litter, duff	____ % Other _____
____ % Large rocks (cobbles, boulders >10cm)	20 % Wood (> 1 cm)	
____ % Small rocks (gravel, 0.2-10 cm)	80 % Water	
____ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:	Leaf phenology (dominant stratum)	Physiognomic Class
✓ Broad-leaved	__ Evergreen	__ Forest (closed tree canopy)
__ Needle-leaved	✓ Cold-deciduous	__ Woodland (open tree canopy)
__ Microphyllous	__ Drought-deciduous	✓ Shrubland
__ Graminoid	__ Mixed evergreen-cold-deciduous	__ Dwarf Shrubland
__ Broad-leaved herbaceous	__ Mixed evergreen drought deciduous	__ Herbaceous (less than 25% woody layers)
__ Pteridophyte	__ Herb - Annual	__ Nonvascular
__ Extremely xeromorphic	__ Herb - Perennial	__ Sparse Vegetation
Mixed		

Natural and Anthropogenic Disturbance			*Disturbance and animal use comments:*
_ logging	_ fire	_ Hydrologic	ASSOCIATION IS AN ARTIFACT OF BEAVER
_ erosion	_ trails/roads	_ Agriculture	DISTURBANCE
_ grazing/browsing	_ wind/ice damage	_ Old Growth	
_ pine bark beetle	_ exotic plants	_ Fire Suppression	
dogwood anthr	ORV		

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Hale Park: (NATR) VICK Plot Code: TN185 State: AL (MS) TN Location org: NPS

8/27/04

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m		Liquidambar sty. - 10%	.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1	2-5m	90%	Salix nigra - 60%, Cephalanthus occ - 30%	2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous				10-15m	50%
Non-vascular	~	~		15-20m	60%
Vine/liana	~		Brunnichia ovata - 20%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
			8						8	Sali nig		
			7						7	Ceph occ		
			5						5	Taxo dis		
					3				3	Scir cyp		
					2				2	Junc eff		
					3				3	Just ova		
							6		6	Brun ova		
					2				2	Sacc gl		
					6				4 2 r	Pan rig		
					2					Mikania		
					4				4	Poly pun		
					3				3	Saur cer		
					3				3	Alte phi		
					2				2	Boeh cyl		
					2				2	Rhyn cor		
	5			2					5	Liqu sty		
					2				2	Care glaucescens		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Attala Park: (NATR) VICK Plot Code: NT185 State: AL (MS) TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
			2						2	Nyss bif		
			2						2	Frax pen		
					2				2	Utri bif		
					2				2	Ludwigia sp.		
					3				3	Poly sten		
			3						3	Samb can		
					2				2	Lemn min		
			2						2	Quer nig		
			3						3	Comm sp		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team_____, Plot NT86.

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 10 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.*	Reference	Notes:
4763	1	H		Perfect fit!

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

*CONFIDENCE: H = High
M = Moderate

TERRAIN NAVIGATOR PRO

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: ATTALA? OR LEAKE Park: (NATR) VICK Plot Code: NT186 State: AL (MS) TN Location org: NPS

Provisional community name _____

Classified community name Pinus taeda - Quercus alba / Chasmanthium sessiliflorum Forest

Classifyer CWN *Date* 9/10/2004 *NVC ELCODE* 4763

Survey date: 8/27/04 **Surveyors initials:** AS EKL

Tagged tree is a QUERVEL of ___ cm dbh with tag # 312. Center of 20 x 50m plot is at a bearing of 0 degrees and 35 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker): MILE 152.5 5.6 KM FROM MILEPOST 149

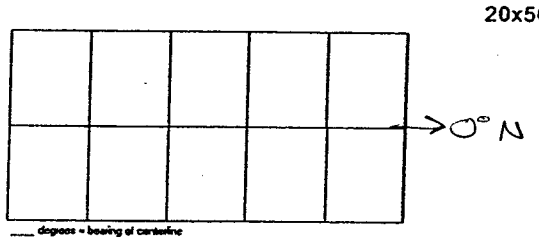
PLOT IS IMMEDIATELY TO THE WEST OF SOME BIG BEECH TREES ON W SIDE OF PKWY.

Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 1-4 (2ND MEMORY STICK) Description of pictures (N,E,S & W from GPS point at middle of plot) : _____

Select one: UTM OR (Lat/long) (If lat/long, then values are 32.93777 N -89.61353 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) WGS84 ~~NAD 83 OR NAD27~~ UTM Zone: 15 16

GPS Unit ID _____ GPS file name NT186 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 358 m (ft)

Averaging performed (at least 120 observations)? Coordinate accuracy 7 (m) ft DOP # sats 6

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: (NATR) VICK Plot Code: NT186 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 2 ° ____ %

__ Flat	0 °	0 %
✓ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
__ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 360 ° (N=0 °)

__ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
✓ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
__ E	68-112 °	__ NW	293-337

Topographic Postion

✓ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
__ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat
__ Alluvial terrace
__ Bald
__ Bank
__ Bar
__ Bench
__ Bottomlands
__ Cliff
__ Cove
__ Depression
__ Draw
__ Exogenous dome
__ Floodplain
__ Gap
__ Gorge
__ Hillslope bedrock outcrop
__ Midslope
__ Nose slope
✓ Ridge
__ Ridgetop bedrock outcrop
__ Saddle
__ Seep
__ Toe slope
__ Slope
__ Streambed
__ Streamhead
__ Periglacial boulderfield
__ Ravine

Rock types present: None apparent

Hydrologic Regime (check only for wetlands)

✓ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY: Relatively level, since pooling likely. Small, intermittant drainage course noted just downslope from plot.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Presently a part of NT Parkway, a national park unit. Prior to park acquisition site was likely selectively logged, based on age and structure of forest.

Soil Texture:

__ Sand __ Peat ✓ Silt loam __ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
90 % Litter, duff
10 % Wood (> 1 cm)
____% Water
____% Bare soil
____% Other _____

Leaf type:

Y Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

_ logging _ fire _ Hydrologic
_ erosion _ trails/roads _ Agriculture
_ grazing/browsing _ wind/ice damage _ Old Growth
_ pine bark beetle ✓ exotic plants _ Fire Suppression
_ dogwood anthr _ ORV

Disturbance and animal use comments:

Other than a minimal occurrence of Lonicera japonica, there was no apparent disturbance.

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: _____ Park: NATR VICK Plot Code: NT 186 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1			QUER ALB - PINU TAE - QUER GAL	< .5m	5%
Tree Canopy T2	20-35m	80%	↓ ↓ ↓	.5-1m	10%
Understory T3	10-15m	10%	CORN FLO	1-2m	20%
Tall shrub S1	2-5	60%	FAGU GRA - CORN FLO - LIQU STY	2-5m	30%
Short shrub S2	.5-1	30%	QUER ALB - VITI ROT	5-10m	40%
Herbaceous	—	—		10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	30%	VITI ROT	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	6			2					6	PINU TAE		
	7	3	3	4					7	QUER ALB		
	5			1					5	QUER VEL		
		5	6	3					6	CORN FLO		
		2	4	3					4	ULMU ALA		
			6						6	FAGU GRA		
		3	3	2					4	ACER RUB		
		3	5						6	LIQU STY		
				2			4		4	TOXI RAD		
				4			7		7	VITIS ROT		
				3					3	PART QUI		
					2				2	ARIS SER		
				2					2	ELON ANG		
				2					2	SMIL GLA		
			2	2					3	SASS ALB		
			4	3						SERE REP (EUPHORBIACEAE)		
			2	3						QUER NIG		
										LACTUCA FLO		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

Community Survey

QUER GAL

SMIL SMA

CHIO VIR

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: (NATR) VICK Plot Code: MT186 State: AL (MS) TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM 8/27

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
				4						PRUN SER		
		3	4						4	CARP CAR		
			2	3					3	ASIM TRI		
			3						3	VACC ELL		
							3			BERC SCA		
				2						HYPE HYP		
			2	2					3	ILEX DEC		
				2			2		3	BIGN CAP		
				2						JUNI VIR		
				1						VACC ARB		
			3	2					3	NYSS SYL		
					2					DESM NUD		
			2							SYMP TINC		
			2	1					2	DIOS VIR		
							2			LONI JAP		
						2				GELS SEM		
		2	2							CALL AME		
					1					RUEL CAR		
					1					CHAS SES		
					1					ELEP CAR		
					1					PHYT AME		
				2						RUBU ARG		
					2					PLEO POLY		
				2						VITIS CIN		
		3	2						4	CARY GLA BUT W/ VELVET		
				2						ILEX OPA		
					1					SCLE OLI		
						2				SMIL ROT		
					1					CHAS LAX		
					2					MITC REP		
		2	2						2	ARUN SPI		
					1					ASPL PLA		
					2					DICH BOS		
				2						QUER RUB		
		2	1						2	MORU RUB		

Use bottom of this sheet or additional pages for other species in 1 ha plot

DIOS VIL
Community Survey
CAREX Page 4
POLY ACR
SAMB CAN

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team_____, Plot NT187.

Annotated by: CWN

Annotation Date (D-M-Y): 4 / 6 / 2007

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

NYMPHEA SD

Class CODE	Fit*	Conf.*	Reference	Notes:
7671	2	M		Eichhornia has lower cover, but is a floating aquatic, rather than submerged (i.e. higher stratum)

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

*CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: MADISON Park: NATR VICK Plot Code: NT187 State: AL (MS) TN Location org: NPS

Provisional community name

Classified community name Eichhornia crassipes Herbaceous Vegetation

Classifyer CWN *Date* 4-6-2007 *NVC ELCODE* CEGL00 7671

Survey date: 8/27/04 **Surveyors initials:** AS EKL

Tagged tree is a _____ of ____ cm dbh with tag #_____. Center of 20 x 30m plot is at a bearing of 120 degrees and 10 m from ~~the~~ GPS POINT

Directions to tag tree (including any notes on best access route, and mile marker):

SAME AS TO PLOT 183 - CYPRESS SWAMP.

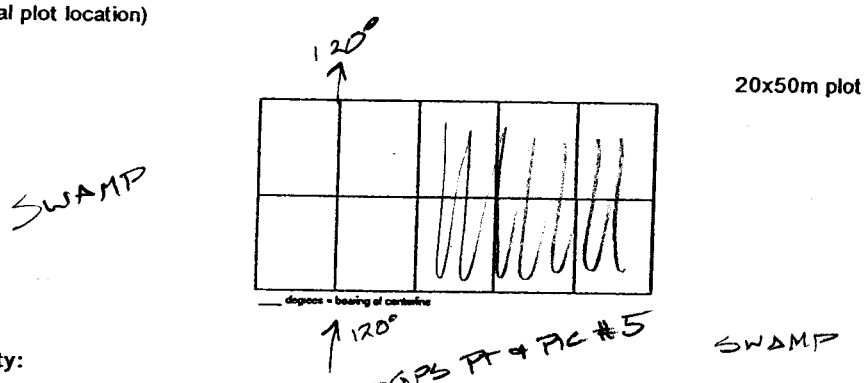
CONTINUE ALONG NATURE TRAIL ACROSS 2 BOARDWALKS. UPON CROSSING 2ND BOARDWALK, FOLLOW LOOP TRAIL TO RIGHT, MORE THAN HALFWAY AROUND, TO BENCH. GPS PT TAKEN FROM EDGE OF SWAMP JUST E/NE OF BENCH

Time taken to walk to plot: 5 MIN

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 5-7 Description of pictures (N,E,S & W from GPS point at middle of plot): 5 = 120° 6 7 =

Select one: UTM OR (Lat/long) (If Lat/long, then values are 32.57729 N -89.86969 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD 83 OR NAD27~~ WGS 84 UTM Zone: 15 16

GPS Unit ID _____ GPS file name NT187 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation 312 m / ft

Averaging performed (at least 120 observations)? ✓ Coordinate accuracy 5-9 (m) / ft DOP # sats 7

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Monroe Park: (NATR) VICK Plot Code: MT187 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 0 ° 0 %		Measured Aspect ✓ ° (N=0 °)		Topographic Postion	
✓ Flat	0 ° 0 %	○ Flat	__ SE 113-157 °	__ Interfluve (Ridge/summit/crest)	__ Toeslope
__ Gentle	0-5 ° 1-9%	__ Variable	__ S 158-202 °	__ High Slope (upper/convex slope)	
__ Moderate	6-14 ° 10-25%	__ N 338-22 °	__ SW 203-247 °	__ Midslope	✓ Low level (terrace)
__ Somewhat steep	15-25 ° 26-49%	__ NE 23-67 °	__ W 248-292 °	__ Lowslope (lower/footslope)	✓ Channel bed
__ Steep	27-45 ° 50-100%	__ E 68-112 °	__ NW 293-337		
__ Very steep	45-69 ° 101-275%			*Cowardin System*	
__ Abrupt	70-100 ° 276-300			*__ Upland*	*✓ Palustrine*
__ ovrhng/shltrd	>100 ° >300%			*__ Estuarine*	*__ Lacustrine __ Riverine*

Landform (check most applicable)		
__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	✓ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

__ Not a wetland (Upland: XERIC / DRY - MESIC : MESIC)

__ Intermittently flooded ✓ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)

__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY: Permanently flooded slough at the upper reaches of the Reas Burnett Reservoir.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Nature area along the NT Parkway - nature trail parallels portion of wetland.

Soil Texture:				Drainage:		
__ Sand	__ Peat	__ Silt loam	✓ Muck	__ Rapidly drained	__ Moderately well drained	__ Somewhat poorly drained
__ Sandy loam	__ Loam	__ Clay loam	__ Clay	__ Well drained	__ Poorly drained	✓ *Very poorly drained*

Ground cover

____ % Bedrock	____ % Litter, duff	____ % Other _____
____ % Large rocks (cobbles, boulders >10cm)	____ % Wood (> 1 cm)	
____ % Small rocks (gravel, 0.2-10 cm)	100 % Water	
____ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:	Leaf phenology (dominant stratum)	Physiognomic Class
__ Broad-leaved		__ Forest (closed tree canopy)
__ Needle-leaved	__ Evergreen	__ Woodland (open tree canopy)
__ Microphyllous	__ Cold-deciduous	__ Shrubland
__ Graminoid	__ Drought-deciduous	✓ Dwarf Shrubland
✓ Broad-leaved herbaceous	__ Mixed evergreen-cold-deciduous	✓ Herbaceous (less than 25% woody layers)
__ Pteridophyte	__ Mixed evergreen drought deciduous	__ Nonvascular
__ Extremely xeromorphic	__ Herb - Annual	__ Sparse Vegetation
Mixed	✓ Herb - Perennial	

Natural and Anthropogenic Disturbance			*Disturbance and animal use comments:*
_ logging	_ fire	_ Hydrologic	Other than Eichhornia crassipes, no disturbance was apparent.
_ erosion	_ trails/roads	_ Agriculture	
_ grazing/browsing	_ wind/ice damage	_ Old Growth	
_ pine bark beetle	✓ exotic plants	_ Fire Suppression	
dogwood anthr	ORV		

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: Madison Park: (NATR) VICK Plot Code: NS187 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous		90%	Cabomba caroliniana – 100%	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
					8				8	Cab car		
					6				6	Eich cra		
					3				3	Nym odo		
					2				2	Myri spi		
			3						3	Ceph occ		
					2				2	Poly hydropiperoides		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team ASE EKL, Plot NT 188.

Annotated by: CWN

Annotation Date (D-M-Y): 9 / 21 / 2004

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
2070	2	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: (NATR) VICK Plot Code: NT188 State: AL MS (TN) Location org: NPS 5:30 pm

Provisional community name_____

Classified community name Quercus alba - Quercus rubra - Quercus Muehlenbergii / Cercis canadensis Forest
Classifyer CWN *Date* 9/21/2004 NVC ELCODE CEGL002070 Amina Rangoonwala

Survey date: 9/8/04 **Surveyors initials:** A Schotz, E. Lunsford, A.R., E.R. Elijah Ramsey

Tagged tree is a FRAX AME of 19 cm dbh with tag # 8854 Center of 20 x 50m plot is at a bearing of 50 degrees and 0-8 m from tree. facing ESE

Directions to tag tree (including any notes on best access route, and mile marker):

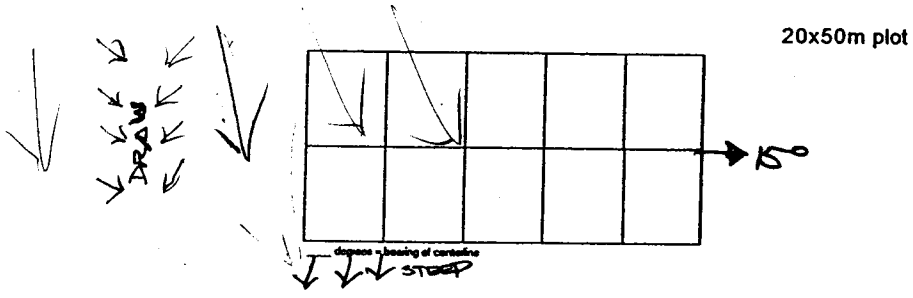
UPSLOPE FROM PARKING AREA OF PHOSPHATE MINE TURNOUT - MID-SLOPE

Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

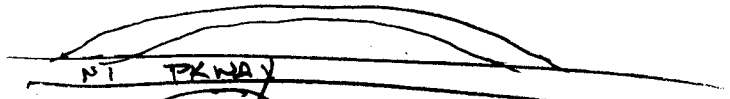
Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA



PIC # 1-4 Description of pictures (N,E,S & W from GPS point at middle of plot) :_____

Select one: UTM OR (Lat/long) (If lat/long, then values are 35.56881 N -87.43154 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) ~~NAD83 OR NAD27~~ WGS84 UTM Zone: 15 16

GPS Unit ID _____ GPS file name NT188 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation "748" m / ft

Averaging performed (at least 120 observations)? ✓ Coordinate accuracy 6 (m) / ft DOP # sats 4

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: (NATR) VICK Plot Code: NT188 State: AL MS (TN) Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope 22 ° ____ %

__ Flat	0 °	0 %
__ Gentle	0-5 °	1-9%
__ Moderate	6-14 °	10-25%
✓ Somewhat steep	15-25 °	26-49%
__ Steep	27-45 °	50-100%
__ Very steep	45-69 °	101-275%
__ Abrupt	70-100 °	276-300
__ ovrhng/shltrd	>100 °	>300%

Measured Aspect 105 ° (N=0 °)

__ Flat		__ SE	113-157 °
__ Variable		__ S	158-202 °
__ N	338-22 °	__ SW	203-247 °
__ NE	23-67 °	__ W	248-292 °
✓ E	68-112 °	__ NW	293-337

Topographic Postion

_ Interfluve (Ridge/summit/crest) __ Toeslope
__ High Slope (upper/convex slope)
✓ Midslope __ Low level (terrace)
__ Lowslope (lower/footslope) __ Channel bed

Cowardin System

✓ *Upland* _ *Palustrine*
_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)

__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	✓ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	__ Ravine

Rock types present: LIMESTONE

Hydrologic Regime (check only for wetlands)

✓ Not a wetland (Upland: XERIC : DRY - MESIC : (MESIC))
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY: CANOPY DIMINISHES RUNOFF; NO EROSION

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

SELECTIVE LOGGING; CLEARED HISTORICALLY (±60 YRS AGO), REGENERATING TO HARDWOODS

Soil Texture: ✓ SILTY CLAY LOAM

__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam __ Clay loam __ Clay

Drainage:

__ Rapidly drained __ Moderately well drained __ Somewhat poorly drained
✓ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock
2 % Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
93 % Litter, duff
5 % Wood (> 1 cm)
____% Water
____% Bare soil
____% Other _____

Leaf type:

✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

✓ logging _ fire _ Hydrologic
_ erosion ✓ trails/roads _ Agriculture
_ grazing/browsing ✓ wind/ice damage _ Old Growth
_ pine bark beetle _ exotic plants _ Fire Suppression
_ dogwood anthr _ ORV

Disturbance and animal use comments: FORMER RAILROAD TO PHOSPHATE MINE RUNS BELOW PLOT – STEEP BANK CUT JUST DOWNSLOPE FROM PLOT

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: – Park: NATR VICK Plot Code: NT188 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	20-35m	90%	Quercus alba - 30%, Quercus rubra - 20%, Acer saccharum - 20%
Understory T3	15-20m	30%	Acer saccharum - 10%, Nyssa sylvatica - 10%
Tall shrub S1	2-5m	30%	Cornus florida - 10%
Short shrub S2	.5-1m	10%	Fraxinus americana - 2%, Nyssa sylvatica - 2%
Herbaceous	–	20%	Dichanthelium boscii - 2%
Non-vascular	–	–	
Vine/liana	–	5%	Vine layer sparse; total = 5%

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	6	5	4	2					6	Acer saccharum		
	7	4							7	Quer alb		
	6		3						6	Quer rub		
					2				2	Cyn vir		
					1				1	Salv lyr		
					3				3	Dich bos		
	5	4	3	3					6	Frax ame		
					2				2	Amph bra		
					1				1	Sani can		
			2	2					2	Cerc can		
				2			2		3	Toxi rad		
					2				2	Aris ser		
					1				1	Care dig		
					1				1	Galium sp.		
					2				2	Poly acr		
				1					1	Carp car		
					2				2	Agri ros		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot *Sampling Form*

County: _____ Park: (NATR) VICK Plot Code: NT188 State: AL MS (TN) Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T1	T2	T3	S1	S2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
							2		2	Smil gla		
					2				2	Viol pal		
			5	3					5	Corn flo		
	5	4	4	2					6	Cary alb		
							2		2	Part qui		
							1		1	Viti rot		
					2				2	Soli cae		
					2				2	Eupa rug		
							2		2	Smil rot		
					1				1	Pote sim		
				2					2	Liri tul		
			4	2					4	Ostr vir		
					2				2	Scut ova		
			4	1					4	Fagu gra		
					2				2	Phyt div		
					2				2	Desm rot		
					1				1	Smil rac		
		5	4	3					6	Nyss syl		
					2				2	Aste sho		
			4	2					4	Ulmu ala		
					2				2	Mona cli		
					2				2	Clit mar		
					1				1	Dios vil		
					1				1	Desm gla		
					2				2	Aspo pet		
					2				2	Coll can		
					2				2	Micr vim		
					2				2	Desm pan		
					2				2	Elep tom		
		2							2	Ulmu rub		
			2						2	Sass alb		
					1				1	Trag cor		
					1				1	Lobe pub		
					1				1	Sury can		
					1				1	Cora ode		

Use bottom of this sheet or additional pages for other species in 1 ha plot

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub (>1m; to 5m)
S2 Short Shrub (< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team AS&EKL, Plot NT189.

Annotated by: CWN

Annotation Date (D-M-Y): 9/21/2004

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
✓7244	2	M		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: (NATR) VICK Plot Code: NT189 State: AL MS (TN) Location org: NPS

Provisional community name_____

Classified community name Quercus falcata - Quercus alba - Carya alba / Oxydendrum arboreum / Vaccinium stamineum Forest

Classifyer CWN *Date* 9/21/2004 *NVC ELCODE* 7244

Survey date: Sept. 9, 2004 **Surveyors initials:** EL, AS, AR, ER Amina Rangoonwala Elijah Ramsey

Tagged tree is a MULTI-STEMMED Acer Rub of 31 cm dbh with tag # 853. Center of 20 x 50m plot is at a bearing of 42 degrees and 8 m from tree. FACING PARKWAY

Directions to tag tree (including any notes on best access route, and mile marker):

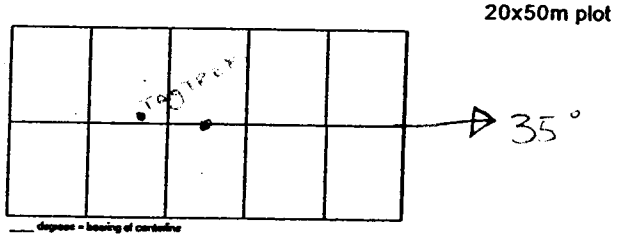
At mile 372.4, proceed west ca. 300 feet to plot.

Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ___YES ___NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

NT PKWY

PIC # 5-8 Description of pictures (N,E,S & W from GPS point at middle of plot) :_____

Select one: UTM OR (Lat/long) (If lat/long, then values are 35.35218 N -87.56794 W

GPS Techniques/Equipment: Garmin III+ (Garmin V) Datum(pick one) WGS 84 NAD 83 OR NAD27 UTM Zone: 15 16

GPS Unit ID _____ GPS file name NT189 (standard = First letter of park + # of plot (N04 or V04)

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? ✓ Coordinate accuracy 6 m / ft DOP # sats 5

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: (NATR) VICK Plot Code: NT 189 State: AL MS (TN) Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ____° ____ %		Measured Aspect ____ ° (N=0 °)		Topographic Postion
✓ Flat SLIGHT VARIABILITY	0 ° 0 %	✓ Flat	__ SE 113-157 °	_ Interfluve (Ridge/summit/crest) __ Toeslope
__ Gentle	0-5 ° 1-9%	__ Variable	__ S 158-202 °	__ High Slope (upper/convex slope)
__ Moderate	6-14 ° 10-25%	__ N 338-22 °	__ SW 203-247 °	__ Midslope ✓ Low level (terrace)
__ Somewhat steep	15-25 ° 26-49%	__ NE 23-67 °	__ W 248-292 °	__ Lowslope (lower/footslope) __ Channel bed
__ Steep	27-45 ° 50-100%	__ E 68-112 °	__ NW 293-337	
__ Very steep	45-69 ° 101-275%			*Cowardin System*
__ Abrupt	70-100 ° 276-300			✓ *Upland* _ *Palustrine*
__ ovrhng/shltrd	>100 ° >300%			_ *Estuarine* _ *Lacustrine* _ *Riverine*

Landform (check most applicable)		
__ Alluvial flat	__ Cove	__ Ridge
__ Alluvial terrace	__ Depression	__ Ridgetop bedrock outcrop
__ Bald	__ Draw	__ Saddle
__ Bank ✓ FLAT	__ Exogenous dome	__ Seep
__ Bar	__ Floodplain	__ Toe slope
__ Bench	__ Gap	__ Slope
__ Bottomlands	__ Gorge	__ Streambed
__ Cliff	__ Hillslope bedrock outcrop	__ Streamhead
	__ Midslope	__ Periglacial boulderfield
	__ Nose slope	Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)
__ Not a wetland (Upland: XERIC : DRY - MESIC : (MESIC)) -- BUT IN SOME PLACES, SITE MODERATELY PONDING
__ Intermittently flooded __ Permanently flooded __ Semipermanently flooded __ Temporarily Flooded (e.g. floodplains)
__ Seasonally Flooded (e.g. seasonal ponds) __ Saturated (e.g. bogs, perennial seeps) __ Unknown __ Irregularly flooded _ *Irrglrly exposed*

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:
LEAF LITTER IN PLACES SHOWS EVIDENCE OF PONDING -- GREY MEPE TH CLAY LENS IS AT THE SURFACE - ELSEWHERE - WHERE THERE IS SLIGHT ELEVATION - THERE IS A LOAM LAYER ABOVE THE CLAY

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):
NOT MUCH RECRUITMENT FOR OAK -- WOODS MAY BE TOO YOUNG (< 45 YRS) FOR CANOPY OAKS FROM DISTURBANCE.

Soil Texture:
__ Sand __ Peat __ Silt loam __ Muck
__ Sandy loam __ Loam __ Clay loam ✓ Clay

Drainage:
__ Rapidly drained __ Moderately well drained ✓ Somewhat poorly drained (VARIABLE - SOME PONDING)
__ Well drained __ Poorly drained __ *Very poorly drained*

Ground cover

____% Bedrock	85 % Litter, duff	____% Other _____
____% Large rocks (cobbles, boulders >10cm)	12 % Wood (> 1 cm)	
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	3 % Bare soil	

Leaf type:
✓ Broad-leaved
__ Needle-leaved
__ Microphyllous
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Extremely xeromorphic
Mixed

Leaf phenology (dominant stratum)
__ Evergreen
✓ Cold-deciduous
__ Drought-deciduous
__ Mixed evergreen-cold-deciduous
__ Mixed evergreen drought deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Natural and Anthropogenic Disturbance

✓ logging	_ fire	_ Hydrologic
_ erosion	_ trails/roads	_ Agriculture
_ grazing/browsing	_ wind/ice damage	_ Old Growth
_ pine bark beetle	_ exotic plants	_ Fire Suppression
dogwood anthr	ORV	

Disturbance and animal use comments:
HISTORICALLY CLEARED -- ALLOWED TO REGENERATE

NPS GULF COAST PROJECT: Plot *Sampling Form*

County:_____ Park: (NATR) VICK Plot Code: NTN89 State: AL MS (TN) Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	15-20m	80%	Quercus alba - 30%, Quercus falcata - 20%, Nyssa sylvatica - 10%, Acer rubrum - 20%
Understory T3	10-15m	20%	Nyssa sylvatica - 10%
Tall shrub S1	2-5m		Acer rubrum - 10%
Short shrub S2	.5-1m	5%	short shrubs sparse; total cover = 5%
Herbaceous	–	5%	herb layer very sparse
Non-vascular	–	–	
Vine/liana	–	2%	Smilax rotundifolia - 2%

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded ?
	8								7	Quer alb		
	6	4	5						6	Acer rub		
	6								6	Quer fal		
	6	5	4	2					6	Nyss syl		
			2						2	Liqu sty		
							3		3	Smil rot		
					2				2	Carex sp		
				2					2	Vacc sp		
			3						3	Cary gla		
			2						2	Vacc arb		
				2					2	Oxyd arb		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team AG & AKL, Plot NTOP1. NATR.201

Annotated by: CWN

Annotation Date (D-M-Y): 10 , 1 , 2004

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
✓ 4052	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: *Quickplot Form* NATR. 201

County: Lee Park: (NATR) VICK Plot Code NTQP1 State: AL (MS) TN

Location name _____ Provisional community name 405Z Pinus echinata-Quercus falcata E. Gulf

Survey date: 9/8/04 Surveyors: A. SCHOTZ, E. LUNSFORD, ANNA RAMSEY, C.P. Forest

Datum WGS 84 Lat/Long (decimal degrees): 34.40978 N -88.63197 W

GPS File Name NTQP1 Coordinate accuracy 8 (m) ft DOP ____ # sats 5 Elevation "553" m (ft) GPS

Directions or nearby Milemarker: ± MILE 274

Measured Slope 8 ° ____ %

Measured Aspect 150 ° (N = 0°)

Topographic Postion NOSE – MID SLOPE
- ✓ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System ✓ *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand ✓ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
✓ Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% **Sand (0.1-2 mm)**
45% Litter, duff
5% Wood (> 1 cm)
____% Water
____% **Bare soil**
____% Bryophyte/lichen
____% Other _____

Comments:

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale	Cover cls for strata
Tree Canopy T2	15-20m	80%	Pinu ech-30%, Quer Fal-30%, Liri Tul-10%, Pinu taed-10%	<.5m	5%
Understory T3	10-15m	60%	Liqu sty-20%, Acer rub-10%, Nyss syl-10%	.5-1m	10%
Tall shrub S1	2-5m	40	Vacc arb-10%, Liqu sty-20%	1-2m	20%
Short shrub S2	.5-1m	30%	Liqu sty-10%, Vacc arb-10%	2-5m	30%
Herbaceous		20%	Soli odo-5%, Chas lax-5%	5-10m	40%
Non-vascular	–	–		10-15m	50%
Vine/liana			Smil rot-5%	15-20m	60%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				20-35m	70%
				35-50m	80%
				>50m	90%
					100%

Other important species:

Description of community on back:

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team AS & EKL, Plot NTOPZ NATR.202

Annotated by: CWN

Annotation Date (D-M-Y): 10 / 1 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
4771	2	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR-202

NPS GULF COAST PROJECT: *Quickplot Form*

County: Lee Park: NATR VICK Plot Code NT QP 2 State: AL (MS) TN

Location name _____ Provisional community name Quercus phellos – Quercus nigra – Quercus alba/ Chasmanthium (laxum, sessiliflorum) Forest

Survey date: Sept 2021 Surveyors: EL, AS, AR, EA (4771)

Datum WGS 84 Lat/Long (decimal degrees): 34.41018 N -88.63191 W

GPS File Name NTQP2 Coordinate accuracy 8 m / ft DOP _____ # sats 5 Elevation "410" m (ft) (actually only 505ft diff. than NTQP1)

Directions or nearby Milemarker: ± MILE 274

Measured Slope 5 ° ____ %

Measured Aspect 150 ° (N = 0°)

Topographic Postion
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- ✓ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- ✓ Channel bed

Cowardin System ✓ *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand ✓ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- ✓ Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

____% Bedrock	90% Litter, duff	____% Bryophyte/lichen
____% Large rocks (cobbles, boulders >10cm)	10% Wood (> 1 cm)	____% Other _____
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% **Sand (0.1-2 mm)**	____% **Bare soil**	

Comments:

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Tree Canopy T2	20-35m	90%	Pinu tae -20%, Quer pha -30%, Liri tul-10% Pinu ech-10%, Quer fal-20%
Understory T3	15-20m	70%	Acer rub-40%, Quer fal-20%
Tall shrub S1	2-5m	60%	Acer rub-30%, Vacc cor -10%
Short shrub S2	.5-1m	20%	Liqu sty -10%
Herbaceous	—	10%	herbaceous component passes total = 10%
Non-vascular	—	—	
Vine/liana	—	20%	Smil rot -10%

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale	Cover cls for strata
<.5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

Other important species:

Description of community on back:

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR, Team AS & ~~CKL~~, Plot NT OP3. NATR. 203

Annotated by: CWN

Annotation Date (D-M-Y): 10 / 1 / 2004

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
✓ 2102	2	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR. 203

NPS GULF COAST PROJECT: *Quickplot Form*

County: Itawamba Park: (NATR) VICK Plot Code NTQP3 State: AL (MS) TN

Location name _____ Provisional community name Quercus phellos – (Quercus lyrata) / Carex spp. Forest 2102

Survey date: 9-8-04 Surveyors: A. SCHOTZ, E LUNSFORD, A.R, E.R.

Datum (WGS 84) Lat/Long (decimal degrees): 34.43648 N -88.53099 W

GPS File Name NTQP3 Coordinate accuracy 5 m / ft DOP _____ # sats 7 Elevation "339"

Directions or nearby Milemarker: JUST SO. OF MILE 280

Measured Slope 0 ° ____ %

Measured Aspect 0 ° (N=0°)

Topographic Postion
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- ✓ Toeslope (alluvial toeslope)
- ✓ Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
✓ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded ✓ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- ✓ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- __ Moderately well drained
- ✓ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

____ % Bedrock	95 % Litter, duff	____ % Bryophyte/lichen
____ % Large rocks (cobbles, boulders >10cm)	5 % Wood (> 1 cm)	____ % Other _____
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % **Sand (0.1-2 mm)**	____ % **Bare soil**	

Comments:

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale	Cover cls for strata
Tree Canopy T2	20-35m	70%	Quer phe – 40%, Quer lex – 20%	<.5m	5%
Understory T3	15-20m	30%	Acer rub – 10%, Plat occ – 10%	.5-1m	10%
Tall shrub S1	2-5m	30%	Fint pen – 10%, Acer rub – 10%	1-2m	20%
Short shrub S2	.5-1m	~	~	2-5m	30%
Herbaceous		30%	Arun gig – 5%, Comm vir – 10%	5-10m	40%
Non-vascular	~	~		10-15m	50%
Vine/liana		30%	Camp rad – 10%, Toxi rad – 10%, Smil rot – 10%	15-20m	60%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				20-35m	70%
				35-50m	80%
				>50m	90%
					100%

Other important species:

Description of community on back:

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

NATR. 204

Plot Record: Study NATR Team AS8 EKL. Plot NT OP4

Annotated by: CWN

Annotation Date (D-M-Y): 10 / 1 / 2004

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
✓7225	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NATR.204

NPS GULF COAST PROJECT: *Quickplot Form*

County: Tishomingo Park: (NATR) VICK Plot Code NT QP 4 State: AL (MS) TN

Location name _____ Provisional community name Quercus alba – Carya glabra – Carya alba Aesculus pavia Forest (7225)

Survey date: Sept. 8, 2004 Surveyors: EL, AS, AR, ER

Datum WGS 84 Lat/Long (decimal degrees): 34.58913 N -88.24921 W

GPS File Name NT QP 4 Coordinate accuracy 9 m / ft DOP _____ # sats 5 Elevation 485

Directions or nearby Milemarker: SOUTH of MILE 302

Measured Slope 10 ° ___ %

Measured Aspect 30 ° (N=0°)

Topographic Postion
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- ✓ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System ✓ *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand ✓ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- ✓ Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

___ % Bedrock	95 % Litter, duff	___ % Bryophyte/lichen
___ % Large rocks (cobbles, boulders >10cm)	5 % Wood (> 1 cm)	___ % Other _____
___ % Small rocks (gravel, 0.2-10 cm)	___ % Water	
___ % **Sand (0.1-2 mm)**	___ % **Bare soil**	

Comments:

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale	Cover cls for strata
Tree Canopy T2	20-35m	60%	Quer alb – 50%, Cary alb – 10%	<.5m	5%
Understory T3	15-20m	30%	Lirt tul – 20%,	.5-1m	10%
Tall shrub S1	2-5m	80%	Corn flo – 20%, Ostr vir – 30%, Oxyd arb-20%	1-2m	20%
Short shrub S2	.5-1m	30%	Styr gra – 10%, Ostr vir – 20%	2-5m	30%
Herbaceous	—	5%	herb layer sparse, total = 5%	5-10m	40%
Non-vascular	—	—		10-15m	50%
Vine/liana	—	—	no vines observed	15-20m	60%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				20-35m	70%
				35-50m	80%
				>50m	90%
					100%

Other important species:

Description of community on back:

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team AS& EKL Plot NT OP5 NATR.205

Annotated by: CWN

Annotation Date (D-M-Y): 10 / 1 / 2004

****

Method of assignment:

☑ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
✓ 4708	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: ***Quickplot Form*** NATR. 205

County:_____ Park: (NATR) VICK Plot Code NT QP5 State: AL MS (TN)

Location name _____ Provisional community name 4708 ROCK OUTCROP - HEUCHERA SPARSELY

Survey date: 9/9/04 Surveyors: A. Schotz, E Lunsford

Datum (WGS 84) Lat/Long (decimal degrees): 35.46310 N -87.47943 W

GPS File Name [redacted] Coordinate accuracy 8 m / ft DOP _____ # sats 6 Elevation 704 ft

Directions or nearby Milemarker:

Measured Slope 45 ° ____ %

Measured Aspect 90 ° (N=0°)

~~Topographic Postion~~

__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
__ Low level (terrace)
__ Channel bed

Cowardin System ✓*Upland*: XERIC : DRY-MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand __Sandy loam
__Sandy clay loam
__Loam __Silt loam
✓Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
✓Well drained
__Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover

95 % Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% **Sand (0.1-2 mm)**
5 % Litter, duff
____% Wood (> 1 cm)
____% Water
____% **Bare soil**
____% Bryophyte/lichen
____% Other _____

Comments:

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale	Cover cls for strata
Tree Canopy T2				<.5m	5%
Understory T3				.5-1m	10%
Tall shrub S1				1-2m	20%
Short shrub S2		5%	Hydr arb - 5%	2-5m	30%
Herbaceous	—	30%	Heuc vil - 20%, Sedu ter - 5%	5-10m	40%
Non-vascular	—	30%	various bryophytes - 30%	10-15m	50%
Vine/liana				15-20m	60%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Asplenium rhizophyllum, Cystopteris bulbifera, Aquilegia canadensis, Hepatica acuta, Saxifraga virginiensis, among others - are indicative of calcareous regions.				20-35m	70%
				35-50m	80%
				>50m	90%
					100%

Other important species:

Description of community on back:

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team AS8 EKL, Plot NT OP6 NATR.206

Annotated by: CWN

Annotation Date (D-M-Y): 10 / 1 / 2004

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
√2591	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: ***Quickplot Form***

County: [redacted] Park: (NATR) VICK Plot Code NTQP6 State: AL MS (TN)

Location name _____ Provisional community name Pinus virginiana Successional Forest CEGL 00 2591

Survey date: Sept. 9, 2004 Surveyors: EL, AS, AR, ER

Datum WGS 84 Lat/Long (decimal degrees): 35.30702 N -87.58287 W

GPS File Name NTQP6 Coordinate accuracy 7 m / ft DOP _____ # sats 5 Elevation 1029 [redacted]

Directions or nearby Milemarker:

Measured Slope 4 ° ____ %

Measured Aspect 220 ° (N = 0°)

Topographic Postion
- ✓ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System ✓ *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam ✓ Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- ✓ Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

____ % Bedrock	85 % Litter, duff	____ % Bryophyte/lichen
____ % Large rocks (cobbles, boulders >10cm)	15 % Wood (> 1 cm)	____ % Other _____
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % **Sand (0.1-2 mm)**	____ % **Bare soil**	

Comments:

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale	Cover cls for strata
Tree Canopy T2	15-20m	90%	Pinus virginiana - 70%, Prunus serotina - 20%	<.5m	5%
Understory T3	10-15m	10%	Pinus virginiana - 10%	.5-1m	10%
Tall shrub S1	2-5m	60%	Liriodendron tulipifera - 5%, Prunus serotina - 20% Ulmus alata - 10%, Quercus spp. - 10%	1-2m	20%
Short shrub S2	.5-1m	40%	Toxicodendron radicans - 20%	2-5m	30%
Herbaceous	—	<1%	Chasmanthium laxum - 2%; herb layer very sparse	5-10m	40%
Non-vascular	—	—		10-15m	50%
Vine/liana	—		Lonicera japonica - 20%, Smilax rotundifolia - 10%	15-20m	60%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				20-35m	70%
				35-50m	80%
				>50m	90%
					100%

Other important species:

Description of community on back:

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study NATR Team AS & EKL, Plot NT OP. 7 NATR. 207

Annotated by: CWN

Annotation Date (D-M-Y): 10 / 1 / 2001

****

Method of assignment:

- ☑ inspection
- ☐ tabular analysis
- ☐ multivariate
- ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf.#	Reference	Notes:
√ 7246	1	H		

Other Comments:

*FIT: 1 = fits concept well
2 = fits;not typal

#CONFIDENCE: H = High
M = Moderate

NPS GULF COAST PROJECT: ***Quickplot Form*** NATR. 207

County: Lauderdale Park: (NATR) VICK Plot Code NTQP7 State: (AL) MS TN

Location name _____ **Provisional community name** Quercus falcata - Quercus stellata - Carya alba / Vaccinium spp. Coastal Plain Forest

Survey date: 9/9/04 **Surveyors:** A.S., E.L., A.R., E.R. CEGL007246

Datum (WGS 84) **Lat/Long (decimal degrees):** 34.94770 N -87.82545 W

GPS File Name NTQP7 **Coordinate accuracy** 10 m / ft **DOP** ____ **# sats** 4 **Elevation** 702

Directions or nearby Milemarker: Ca. 60 feet west of NT at Mile 337.8.

Measured Slope 0 %

Measured Aspect 0 ° (N = 0°)

Topographic Postion
- ✓ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System ✓ *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- ✓ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- ✓ Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

____ % Bedrock	95 % Litter, duff	____ % Bryophyte/lichen
____ % Large rocks (cobbles, boulders >10cm)	5 % Wood (> 1 cm)	____ % Other _____
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % **Sand (0.1-2 mm)**	____ % **Bare soil**	

Comments:

* Nice beech tree (Quercus stellata)!

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale	Cover cls for strata
Tree Canopy T2	20-35m	70%	Quercus falcata - 30%, Quercus stellata - 30%, Quercus velutina - 10%,	<.5m	5%
Understory T3	15-20m	60%	Carya alba - 20%, Acer rubrum 10%, Nyssa sylvatica - 20%,	.5-1m	10%
Tall shrub S1	2-5m	60%	Sassafras albidum - 20%, Carya alba - 20%	1-2m	20%
Short shrub S2	–	20%	short shrub sparse; total cover = 20%	2-5m	30%
Herbaceous	–	5%	herb layer very sparse; coverage = 5%	5-10m	40%
Non-vascular	–	–		10-15m	50%
Vine/liana		30%	Vitis rotundifolia - 20%, Smilax rotundifolia - 10%	15-20m	60%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				20-35m	70%
				35-50m	80%
				>50m	90%
					100%

Other important species:

Description of community on back:

NATURESERVE FIELD FORMS

NATR. 208 – NATR. 259

SEPTEMBER 2005

NPS GULF COAST PROJECT: *Plot Sampling Form* – NATR. 208

County: Wayne Park: NATR Plot Code: 4 190A State: AL MS TN Location org: NPS CEGL004044

Location name _____ **Provisional community name** herbaceous upland – doesn't Key quite right

Survey date: 9/20/05 **Surveyors:** LUNSFORD / SCHOTZ / MCCOY

Datum WGS 84 UTM ~~Lat/Long~~ (decimal degrees): 424980 N 3874288 W

GPS File Name V190A **Coordinate accuracy** 4 (m) / ft **DOP** _____ **# sats** 08 **Elevation** 224 (m) / ft

Directions or nearby Mile marker:

Measured Slope

_____ ° _____ %

Measured Aspect

_____ ° (N = 0°)

FLAT

Topographic Position

__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
X Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
__ Low level (terrace)
__ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:

__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
__ Well drained
X Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover

__ __ % Bedrock
__ __ % Large rocks (cobbles, boulders > 10cm)
__ __ % Small rocks (gravel, 0.2-10 cm)
__ __ % Sand (0.1-2 mm)
____ % Litter, duff
____ % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:
__ Broad-leaved
__ Needle-leaved
X Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
__ Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
X Herb - Perennial

Physiognomic Class
__ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
X Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community GRASSLAND ADJACENT TO ROADSIDE, SMALL DEPRESSION AREA COULD BE SUCCESSIONAL W/ SOME PASTURE G LIG. STYRA. (1½ 2M TALL)

Comments

Disturbance and animal use comments:

✓ EK 12/5/05

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR-203

County: WAYNE **Park:** NATR **Plot Code:** ~~NATR~~ **State:** AL MS (TN) **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous	70%	.5/1m	ANDROPOGON TERN./PANICUM ANCEP	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): MIST FLOWER IS OBVIOUS from Road.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
					5			ANDROPOGON TERNARIUS		
					5			TRIDENS FLAVUS		
					5			PANICUM ANCEPS = SETA PAR.		
					3			SETARIA GENTICULATA VAR PAR.		
					3			CYPERUS SP (Esculenta?)		
					2			SCUTT. INTEGER		
					4			AGERATINA/FLEISHMANIA/CONOCLINIUM	Coleostem.	
					3			VERNONIA Gigantea		
					2			CRAPSIS RAD.		
					2			DICH DICH.		
				3				EUP. STY		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** = NATR. 209

IMMED. N of STATE LINE

County: WAYNE Park: NATR Plot Code: U191 State: AL MS (TN) Location org: NPS

Location name MORGAN RD

Provisional community name → 8474 - SE SMOOTH ALDER SWAMP (41123 - JUNCUS spp. RUSH MARSH)

Survey date: 9/20/05 Surveyors: SCHOZ, McCOY, LUNSFORD

Datum WGS 84 UTM FROM AMINAS COORDINATES Lat/Long (decimal degrees): 424981 N 3874285 W

GPS File Name U191 Coordinate accuracy ____ m / ft DOP ____ # sats ____ Elevation ____ m / ft

Directions or nearby Mile marker:

Measured Slope
NA ° ____ %

Measured Aspect
NA ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- ✓ Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
✓ *Palustrine* __ *Lacustrine* __ *Riverine*:
✓ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- ✓ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- ✓ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- ____ % Litter, duff
- ____ % Wood (> 1 cm)
- 100 % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other ____

Leaf type:
- ✓ Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- ✓ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- __ Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- ✓ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

ARTIFICIALLY IMPOUNDED WETLAND - DUE TO ROAD. PLOT IS ~1/4 LONG EDGE OF OPEN WATER (100) W/ WHITE SWAMP & CEPHALANTHUS -- NUMEROUS DOWNED LOGS IN WATER. WE STOOD ON RD (50m) TO S of PLOT. TO N of PLOT, TALL SHRUB STRATUM BECOMES DOMINANT - BLACK WILLOW. EVENTUALLY TRANSITIONS (NW) TO WETLANDS SURVEYED - EOR 24 193A.

POINT MAY HAVE FALLEN E of PK BOUNDARY

Comments

ROGER McCOY PHOTOGRAPHED

Disturbance and animal use comments:

✓ 12/15/05

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR · 209

County: WAYNE **Park:** NATR **Plot Code:** U19T **State:** AL MS (TN) **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1	2-5	20%	ALNUS SERR	2-5m	30%
Short shrub S2	1-2	50%	ALNUS SERRULATA, SALIX NIGRA, (CEPH. OCC)	5-10m	40%
Herbaceous		30%	JUNCUS EFFUSUS (SCIRP CYPER)	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
			7	6			7	ALNU SER		
				7			7	SALIX NIG		
				3			3	CEPH OCC		
				7→			7	JUNC EFF		
				3→			3	SCIR CYP		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR. 212

County: Wayne Park: NATR Plot Code: U193A = NATR. 212 State: AL MS (TN) Location org: NPS

Location name _____ **Provisional community name** 7330

Survey date: 9/20/05 **Surveyors:** Erin Lunsford, Roger McCoy, Al Schotz

Datum WGS 84 UTM (decimal degrees): 425012 N 3874825 W

GPS File Name U193A **Coordinate accuracy** 6 (m) ft **DOP** _____ **# sats** 6 **Elevation** 210 (m) ft

Directions or nearby Mile marker:

Measured Slope 0 ° 0 %

Measured Aspect _____ ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
X *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated X Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
__ Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 80 % Litter, duff
- 20 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Slightly elevated ridge surrounded by a forested swamp. The canopy is represented by a preominence of Liquidambar styraciflua, with Acer rubrum and a scattering of Fagus grandifolia occuring as secondary components. The understory is relatively dence with the aforementioned canopy species, in addition to Carpinus caroliniana, Ilex opaca, and Quercus phellos serving as characteristic species. The herbaceous component is primarily represented by Onoclea sensibilis.

Comments

Disturbance and animal use comments: Forest is relatively young, but mature. Furrows observed.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: NT **Park:** NATR **Plot Code:** ~~U193A~~ 210 **State:** AL MS (TN) **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35	70%	Liqu sty - 70%	.5-1m	10%
Understory T3	10-15m	50%	Liqu sty - 30%, Acer rub - 10%, Ilex opa - 10%	1-2m	20%
Tall shrub S1	2-5m	20%		2-5m	30%
Short shrub S2	.5-1	20%		5-10m	40%
Herbaceous	—	30%	Onoc sen - 30%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Ilex verticillata, Fagus grandifolia, Quercus phellos, Vaccinium corymbosum				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8	7					8	Liqu sty		
		5					5	Acer rub		
		5					5	Ilex opa		
					2		2	Onoc sen		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* = NATR 211

County: NT Park: NATR Plot Code: U194A State: AL MS (TN) Location org: NPS

~~2220 (successional tulip tree forest upland)~~

Location name Cypress Creek Provisional community name 7330 (successional sweetgum floodplain)

Survey date: 9/20/05 Surveyors: Erin Lunsford, Roger McCoy, Al Schotz

Datum WGS 84 UTM ~~Lat/Long (decimal degrees)~~: 0425004 N 3876809 W

GPS File Name U194A Coordinate accuracy ±100 (m) / ft DOP ____ # sats 5 Elevation 204 (m) ft

Directions or nearby Mile marker:

Measured Slope 0.0 %

Measured Aspect 0 ° (N = 0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* X *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

___ % Bedrock	____ % Litter, duff	____ % Bryophyte/lichen
___ % Large rocks (cobbles, boulders > 10cm)	____ % Wood (> 1 cm)	____ % Other _____
___ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
___ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Bottomland forest alluvsite Cypress Creek, dominated by a mature canopy of Liriodendron tulipifera and Liquidambar styraciflua. Species of secondary importance include Acer barbatum, Fagus grandifolia, and Betula nigra. Shrub layer primarily consists of Lindera benzoin and, to a lesser extent, Stewartia malacodendron. Herbs are scattered, with Botrychium dissectum, Saururus cernuus, and Toxicodendron radicans appearing most prominent. Ligustrum sinense is widely scattered.

Comments

WE MOVED THE POINT FROM U194 BY DOZENS of METERS, BECAUSE U194 PUT US OUT IN A PRIVATE COW PASTURE!

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form* 211

County: NT **Park:** NATR **Plot Code:** UNITA **State:** AL MS (TN) **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	26-35m	80%	Liritul-40%, Liqsty-25%	.5-1m	10%
Understory T3	10-15	70%	Liqsty-25%, Carpcar 20%, Faggra-10%	1-2m	20%
Tall shrub S1	~~5-10~~	30%		2-5m	30%
Short shrub S2	1-5m	25%	Lindun-5%	5-10m	40%
Herbaceous	—	20%		10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7							Liri tul		
	6	6						Liqu sty		
		6						Carp car		
		5						Fagu gra		
				4				Lind ben		
					3			Bott dis		
					3			Soli cae		
					4			Toxi rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* = NATR. 212

County: WAYN Park: NATR Plot Code: U195A State: AL MS (TN) Location org: NPS

Location name South of Cypress Creek Provisional community name Successional Sweetgum Floodplain Forest Ceglow 7330

Survey date: 9-20-2005 Surveyors: Erin Lunsford / AL Shotz / R. McCoy

Datum WGS 84 ~~Lat/Long~~ UTM (decimal degrees): 0412496 N 3875538 W UTM 16

GPS File Name U195A Coordinate accuracy 5 (m) / ft DOP ____ # sats 6 Elevation 210 (m) ft

Directions or nearby Mile marker:

Measured Slope FLAT %

Measured Aspect ____ ° (N = 0°)

FLAT

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- X Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC

✓ *Palustrine* __ *Lacustrine* __ *Riverine*:

__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded

__ Seasonally flooded __ Saturated ✓ Irregularly flooded

Soil texture:

__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:

__ Rapidly drained
__ Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover

__ % Bedrock
__ % Large rocks (cobbles, boulders > 10cm)
__ % Small rocks (gravel, 0.2-10 cm)
__ % Sand (0.1-2 mm)
30 % Litter, duff
____ % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other ____

Leaf type:

✓ Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
✓ Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

Appears to be lowland forest. Perhaps near old road bed. Area is thick w/ Vines (smilax) & good deal of Tox RAD. Outside of plot is a good deal of Acer rubrum giant. Some privet

Comments On plot 194A - Community keyed to the same. This one however is much more clearly a lowland w/o any beech, Tulip Tree & w/ more maple

Disturbance and animal use comments: old Road bed

NPS GULF COAST PROJECT: *Plot Sampling Form* 212

County: WAYNE **Park:** NATR **Plot Code:** ~~4195A~~ **State:** AL MS (TN) **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	35-50	40%	Liq. Sty	.5-1m	10%
Understory T3	15-20	~~10~~ 9%	Acer R.b.	1-2m	20%
Tall shrub S1	—			2-5m	30%
Short shrub S2	.5-1m	40%	Smilax rotund/Tox Rad	5-10m	40%
Herbaceous	<.5	40%	Tox RAD	10-15m	50%
Non-vascular	<.5	5%	Moss	15-20m	60%
Vine/liana		20%.	Tox RAD	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Some scant Juncus & Carex & Cinna Arundinacea				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Lig STYR.		
	5						5	ULMUS americana		
		5					5	Acer R.B.		
				6		3	7	Smilax Rotund		
				6		3	7	Tox RAD		
				4			4	Itea virginiana		
					4		4	PARTH QUIN		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* = NATR.213 FULL PLOT

Page 1

County: WAYNE Park: NATR Plot Code: EOR2 State: AL MS (TN) Location org: NPS Atypical 4425

Location name _____ **Provisional community name** NOT IN BOOK, See Comments

Survey date: 9-20-2005 **Surveyors:** LUNSFORD, SCHOTZ, MCCOY

Datum WGS 84 Lat/Long (decimal degrees): UTM 424981 N 3874824 W

GPS File Name EOR2 Coordinate accuracy ~~10~~ 5 (m) / ft DOP _____ # sats 4 Elevation 222 (m) ft

Directions or nearby Mile marker:

Measured Slope

_____ ° _____ %

Measured Aspect

_____ ° (N=0°)

FLAT

Topographic Position

__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
X Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
__ Low level (terrace)
__ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
✓*Palustrine* __*Lacustrine* · __*Riverine*:
__Permanently flooded X Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand __Sandy loam
__Sandy clay loam
__Loam __Silt loam
__Silt/ Silty clay loam
__Silty clay __Clay
X Muck __Peat

Drainage:
__Rapidly drained
__Well drained
__Moderately well drained
__Somewhat poorly drained
X Poorly drained
__Very poorly drained

Ground cover

__ __% Bedrock
__ __% Large rocks (cobbles, boulders >10cm)
__ __% Small rocks (gravel, 0.2-10 cm)
__ __% Sand (0.1-2 mm)
5 % Litter, duff
____% Wood (> 1 cm)
5 % Water
20 % Bare soil
____% Bryophyte/lichen
____% Other _____

Leaf type:
X Broad-leaved
X Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

Soils w/ muck. Distinguishing characteristic is Taxodi dist in spots. when elevation increas by .5m, then other species occur (Red maple, beech)
Diverse Lobs: Sag. Latifolia
Cobelia Cardinalis

Comments

Plantanthera glaucs - a TN-listed species found here

Initial thought on Community: Red Maple / Black gum / w/ some TAXodium.
Species List CREATED

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:** 213 **State:** AL MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1			ACER RUB	< .5m	5%
Tree Canopy T2	20-35	30%	ACER RUB	.5-1m	10%
Understory T3	5-10	20%	ILEX OPACA, NYSS SYL VAR BIFL	1-2m	20%
Tall shrub S1	1-2	10%	ILEX VERT.	2-5m	30%
Short shrub S2	.5-1	10%	" "	5-10m	40%
Herbaceous	0.5	5%	ONOCLEA SENSIB / graminoid?	10-15m	50%
Non-vascular		50%	Sphagnum	15-20m	60%
Vine/liana	1-2m	5	SMILAX ROTUND	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Mucky & wet				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6							ACER RUB.		
		4						TAX DIST.		
		4						ILEX AMER.		
			5	5				ILEX VERT.		
		4						FAG GRAND		
		5						NYSSA SYLV. (Likely BIFLORA)		
				3				QUER. PHELLOS		
						5		SMILAX ROTUND		
	3							LIQ. STYRAC		
					3			SAMBUCUS CANAD. (Elegans TAIL)		
				4				VACC. CORYM		
				4				ITEA VIRGINICA		
					4			CAREX BROMOIDES?		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR-213

County: WAYNE **Park:** NATR **Plot Code:** EOR1 **State:** AL MS (TN) **Location org:** NPS (EOR2)

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

List ONLY dominant or diagnostic species, and mark ONLY those strata at which they are dominant, but consider all strata when giving total cover.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
								SPECIES LIST CONT.		
					3			DECUMARIA		
					2			LYCOPUS RUBELIS		
					3			Polygonum Hydropiperoides		
					2			BOEMARIA CYLINDR		
					3			ARONIA ARBUTIFOLIUM		
				2				ALNUS SERRULATA		
					4			ITEA VIRG.		
					1			BARTONIA PANIC.		
					1			SMILAX GLAUCA		
					2			DICH. DICH. VAR DICA		
				(N)	3			SPHAGNUM		
					4			CORNUS FOEMA		
					1			JUNCUS EFFUSUS		
					2			POLYGONUM SAG		
					2			CAREX CRINATA		
					1			SENNA		
					2			LOBELIA CARD.		
					2			CAREX INTUMES.		
					1			VITIS SP.		
					2			CHELONE GLABRA		
				1	1			VIBURNUM NUDEM		
				1				FRAX PENN.		
						1		AMPHICARPA BRACT		
					1			BIDENS ARIST		
				2			dup	Q. phellos		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T2: Tree Can

T3 Subcanopy

S1 Tall Shrub (>1m; to 5m)

S2 Short Shrub (< 1m)

H Herbaceous

V Vines (lianas)

NPS GULF COAST PROJECT: ***Plot Sampling Form*** 191 (Michaels) = NATR-214 (ON ERIN'S GPS)

County: Colbert Park: NATR Plot Code: 191 (Michaels) State: (AL) MS TN Location org: NPS

Location name _____ Provisional community name 7330

Survey date: 9/21/05 Surveyors: Erin Lunsford, Al Schotz

Datum WGS 84 Lat/Long (decimal degrees): 410422 N 8850345 W

GPS File Name 191 (Michaels) Coordinate accuracy 8 (m) / ft DOP ____ # sats 6 Elevation 178 (m) ft

Directions or nearby Mile marker:

Measured Slope 0 ° 0 %

Measured Aspect 0 ° (N = 0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
X *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated X Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
__ Well drained
X Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders > 10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 80 % Litter, duff
- 20 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Bottomland with young, but mature, Liquidambar forest.

Comments

Disturbance and animal use comments: Ligustrum sinense dominates shrub layer, nearly to the exclusion of other shrubs + herbs. Small creek has been ditched.

NPS GULF COAST PROJECT: ***Plot Sampling Form*** 214

County: Colbert **Park:** NATR **Plot Code:** ~~19~~ **State:** (AL) MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35	80%	Liqu sty - 40%, Celt lae - 30%	.5-1m	10%
Understory T3	15-20m	30%	Liqu sty - 30%	1-2m	20%
Tall shrub S1	2-5m	70%	Liqu stv - 70%	2-5m	30%
Short shrub S2	.5-1	20%		5-10m	40%
Herbaceous	—	10%		10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Bacc sca	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	7					8	Liqu sty		
	7						7	Celt lae		
			8				8	Liqu stv		
						5	5	Bacc sca		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form* =NATR-215

County: Colbert Park: NATR Plot Code: U223A State: (AL) MS TN Location org: NPS

Location name _____ **Provisional community name** Deciduous forest (NLCD #41)

Survey date: 9/21/05 **Surveyors:** Erin Lunsford, Al Schotz

Datum WGS 84 **Lat/Long (decimal degrees):** 410894 N 3852623 W

GPS File Name U223A **Coordinate accuracy** 5 (m) / ft **DOP** ____ **# sats** 6 **Elevation** 179 (m) ft

Directions or nearby Mile marker:

Measured Slope 1 ° ____ %

Measured Aspect 0 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- ___ % Bedrock
- ___ % Large rocks (cobbles, boulders >10cm)
- ___ % Small rocks (gravel, 0.2-10 cm)
- ___ % Sand (0.1-2 mm)
- 100 % Litter, duff
- ____ % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Small Celtis laevigata stand with a mowed understory of grass (lawn-like). A small drainageway traverses center of plot.

[THIS PLOT WAS DONE AT REQUEST of REMOTE SENSING SPECIALISTS]

Comments Just NW of plot is a vast cotton field.

Disturbance and animal use comments: Herbaceous component (mostly grass) frequently mowed.

NPS GULF COAST PROJECT: ***Plot Sampling Form*** 215

County: Obion **Park:** NATR **Plot Code:** [redacted] **State:** (AL) MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20m	60%	Celt lae-60%	.5-1m	10%
Understory T3	—	—		1-2m	20%
Tall shrub S1	—	—		2-5m	30%
Short shrub S2	—	—		5-10m	40%
Herbaceous	—	—		10-15m	50%
Non-vascular		9	mowed grass	15-20m	60%
Vine/liana	—	10%	Pue que	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: *Tree Canopy* | ***T3*** *Subcanopy* | ***S1*** *Tall Shrub (>1m to 5m)* | ***S2*** *Short Shrub (< 1m)* | ***H*** *Herbaceous* | ***V*** *Vines (lianas)*

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8						8	Celt lae		
						5	5	Pue que		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** =NATR-216

County: Colbert Park: NATR Plot Code: U196A State: (AL) MS TN Location org: NPS

Location name _____ Provisional community name: 7217 Liquidambar styraciflua - Quercus (alba, falcata) Forest

Survey date: 9/21/05 Surveyors: A. Schotz, E. Lundgren

Datum WGS 84 UTM (decimal degrees): 411029 N 3852736 W

GPS File Name U196A Coordinate accuracy 5 (m) ft DOP ____ # sats 6 Elevation 182 (m) ft

Directions or nearby Mile marker:

Measured Slope 3 ° ____ %

Measured Aspect 340 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ Toeslope (alluvial toeslope)
- __ High Slope (upper slope, convex slope)
- __ Low level (terrace)
- X Midslope (middle slope)
- __ Channel bed
- __ Lowslope (lower slope, footslope)

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover

__ % Bedrock	80 % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders >10cm)	20 % Wood (> 1 cm)	____ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
__ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Relatively young but mature forest composed of various hardwoods, namely Liquidambar styraciflua, Celtis laevigata, and Quercus falcata. Juglans nigra is also present, but of secondary importance.

Comments

Disturbance and animal use comments: Lonicera japonica and, to a lesser degree, Ligustrum sinense, are common.

NPS GULF COAST PROJECT: ***Plot Sampling Form*** 216

County: Colbert Park: NATR Plot Code: UI46F State: (AL) MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	30-35m	80%	Liqu sty - 30%, Quer fal - 20%, Celt lae - 10%	.5-1m	10%
Understory T3	5-	40%	Celt lae - 30%	1-2m	20%
Tall shrub S1	2-5m	↓	↓	2-5m	30%
Short shrub S2	.5-1m	20%		5-10m	40%
Herbaceous		10%		10-15m	50%
Non-vascular				15-20m	60%
Vine/liana		30%	Lonijap (mostly prostrate)	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Juglans nigra				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7							Liqu sty		
	6							Quer fal		
	6		7					Celt lae		
						7		Lonijap (mostly trailing on ground)		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* = NATR. 217

County: Colbert Park: NATR Plot Code: ~~U220~~ State: (AL) MS TN Location org: NPS

Location name South of Colbert's Ferry Provisional community name 7216 (Successional sweetgum forest)

Survey date: 9/21/05 Surveyors: Erin Lunsford, Al Schotz

Datum ~~WGS 84~~ UTM ~~Lat/Long~~ (decimal degrees): 0412957 N 3854391 W

GPS File Name U220 Coordinate accuracy 10 (m) / ft DOP ____ # sats 5 Elevation ____ m / ft

Directions or nearby Mile marker:

Measured Slope 0 ° 0 %

Measured Aspect 0 ° (N = 0°)

Topographic Position
- (X) Interfluve (Ridge, summit or crest)
- ( ) High Slope (upper slope, convex slope)
- ( ) Midslope (middle slope)
- ( ) Lowslope (lower slope, footslope)
- ( ) Toeslope (alluvial toeslope)
- ( ) Low level (terrace)
- ( ) Channel bed

Cowardin System (X) *Upland*: XERIC : DRY-MESIC : MESIC
( ) *Palustrine* ( ) *Lacustrine* ( ) *Riverine*:
( ) Permanently flooded ( ) Semipermanently flooded ( ) Temporarily flooded
( ) Seasonally flooded ( ) Saturated ( ) Irregularly flooded

Soil texture:
- ( ) Sand ( ) Sandy loam
- ( ) Sandy clay loam
- ( ) Loam ( ) Silt loam
- (X) Silt/ Silty clay loam
- ( ) Silty clay ( ) Clay
- ( ) Muck ( ) Peat

Drainage:
- ( ) Rapidly drained
- (X) Well drained
- ( ) Moderately well drained
- ( ) Somewhat poorly drained
- ( ) Poorly drained
- ( ) Very poorly drained

Ground cover

___ % Bedrock	70 % Litter, duff	___ % Bryophyte/lichen
___ % Large rocks (cobbles, boulders > 10cm)	30 % Wood (> 1 cm)	___ % Other ____
___ % Small rocks (gravel, 0.2-10 cm)	___ % Water	
___ % Sand (0.1-2 mm)	___ % Bare soil	

Leaf type:
- (X) Broad-leaved
- ( ) Needle-leaved
- ( ) Graminoid
- ( ) Broad-leaved herbaceous
- ( ) Pteridophyte
- ( ) Mixed

Leaf phenology (dominant stratum)
- ( ) Evergreen
- ( ) Cold-deciduous
- (X) Mixed evergreen-cold-deciduous
- ( ) Herb - Annual
- ( ) Herb - Perennial

Physiognomic Class
- (X) Forest (closed tree canopy)
- ( ) Woodland (open tree canopy)
- ( ) Shrubland
- ( ) Dwarf Shrubland
- ( ) Herbaceous (less than 25% woody layers)
- ( ) Nonvascular
- ( ) Sparse Vegetation

Qualitative description of Community

Young forest characterized by Liquidambar styraciflua and Pinus taeda. Shrub and herb layers are weedy, patchy in distribution.

Comments

Disturbance and animal use comments: Microstegium vimineum is relatively abundant in vicinity.

NPS GULF COAST PROJECT: ***Plot Sampling Form*** 217

County: Colbert **Park:** NATR **Plot Code:** ~~V220~~ **State:** (AL) MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	Liqu sty - 30%, Pinu tae - 20%	.5-1m	10%
Understory T3	10-15m	60%	Liqu sty - 20%, Celt lae - 30%	1-2m	20%
Tall shrub S1	2-5m	30%		2-5m	30%
Short shrub S2	.5-1m	20%	Symp orb - 10%	5-10m	40%
Herbaceous	—	5%	Eupa rug	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	10%	Viti rot - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8	6					8	Liqu sty		
	6	1					6	Pinu tae		
		7	5				7	Celt lae		
						5	5	Viti rot		
					4		4	Eupa rug		
				5			5	Symp orb		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** = NATR. 219

County: Colbert Park: NATR Plot Code: U219 State: (AL) MS TN Location org: NPS

Location name Colbert's Ferry Provisional community name 7244 (Southern red oak - white oak mixed oak forest)

Survey date 9/21/05 Surveyors: A. SCHOTZ, E. LUNSFORD

Datum WGS 84 UTM ~~Lat/Long~~ (decimal degrees): 413857 N 3855226 W

GPS File Name U219 Coordinate accuracy 100 (m) / ft DOP ____ # sats 4 Elevation 1500 (m) / ft

Directions or nearby Mile marker:

Measured Slope 23° ____ %

Measured Aspect 290 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

__ % Bedrock	90 % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____ % Other ____
__ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
__ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Plot is located on side of ravine dominated by Quercus falcata, Carya alba, Liquidambar styraciflua, and to a lesser extent Nyssa sylvatica, Acer barbatum, and Quercus alba. The sub-canopy is comprised of the foregoing canopy species, as well as Diospyros virginiana, Quercus velutina, and Carya cordiformis. The herbaceous component is sparse, with Bignonia seedlings appearing most conspicuous.

Comments

Disturbance and animal use comments: Ligustrum sinense present, but widely scattered.

NPS GULF COAST PROJECT: *Plot Sampling Form* 218

County: Colbert Park: NATR Plot Code: U214 State: (AL) MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	80%	Quer Fal - 30%, Cary alb - 30%, Liqu sty - 20	.5-1m	10%
Understory T3	10-15m	60%	Caryn alb - 20%, Acer bar - 20%	1-2m	20%
Tall shrub S1	2-5m	50%	Acer bar - 30%	2-5m	30%
Short shrub S2	.5-1m	10%		5-10m	40%
Herbaceous	—	10%		10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	10%		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Quer fal		
	7	6					7	Cary alb		
	6						6	Liqu sty		
		6	7				7	Acer bar		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form* = NATR.219

County: Colbert Park: NATR Plot Code: U218 State: (AL) MS TN Location org: NPS

Location name Cobert's Ferry Provisional community name 6011 (Early- to mid- successional hardwood)

Survey date: 9/21/05 Surveyors: Erin Lunsford, Al Schotz

Datum WGS 84 UTM (decimal degrees): 413394 N 3854788 W

GPS File Name U218 Coordinate accuracy ____ (m) ft DOP ____ # sats ____ Elevation 182 (m) ft

Directions or nearby Mile marker:

Measured Slope 0.0 %

Measured Aspect 0 ° (N=0°)

Topographic Position
- X Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam X Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

__ % Bedrock	100 % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders >10cm)	____ % Wood (> 1 cm)	____ % Other ____
__ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
__ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- X Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Site relatively open, with Pinus taeda occurring as a dominant species; Liquidambar styraciflua, although present, is sparse occupying no more than 10% of the canopy. Subcanopy is virtually non-existant. Tall and short shrub layers are dense, being characterized by various hardwoods, most notably Celtis laevigata, Ulmus americana, Quercus spp, and a scattering of Juniperus virginiana. Vitis rotundifolia, Phytolacca, Eupatorium rugosum, Rubus, and Toxicodendron serve as principal ground layer vegetation.

Comments Site has been burned (charcoaling on tree trunks) years ago.

Disturbance and animal use comments: Ligustrum sinense is widely distributed.

NPS GULF COAST PROJECT: ***Plot Sampling Form*** 219

County: Colbert **Park:** NATR **Plot Code:** [illegible] **State:** (AL) MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35	70%	Pinu tae-60%	.5-1m	10%
Understory T3	—	—		1-2m	20%
Tall shrub S1	2-5m	30%		2-5m	30%
Short shrub S2	.5-1m	40%		5-10m	40%
Herbaceous	—	70%	Rubus-20%, Toxicodendron radicans-20%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: *Tree Canopy* | ***T3*** *Subcanopy* | ***S1*** *Tall Shrub (>1m to 5m)* | ***S2*** *Short Shrub (< 1m)* | ***H*** *Herbaceous* | ***V*** *Vines (lianas)*

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8							Pinu tae		
					6			Rubu ag		
					6			Toxi rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** = NATR. 220 NEAR

County:_____ **Park:** NATR **Plot Code:** 4239 **State:** (AL) MS TN **Location org:** NPS

7246

Location name _____ **Provisional community name** _____

Survey date: 9/21/05 **Surveyors:** E. LUNSFORD, A. SCHOTZ

Datum _WGS 84_ ~~Lat/Long (decimal degrees)~~ UTM: 412610 N 3854330 W

GPS File Name 4239 **Coordinate accuracy** 5 m / ft **DOP** ____ **# sats** 8 **Elevation** 173 (m) / ft

Directions or nearby Mile marker:

Measured Slope

N/A ° ____ %

Measured Aspect

N/A ° (N=0°)

Topographic Position

- ✓ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System ✓ *Upland*: XERIC : DRY-MESIC : MESIC

__ *Palustrine* __ *Lacustrine* __ *Riverine*:

__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded

__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:

__ Sand __ Sandy loam

__ Sandy clay loam

__ Loam __ Silt loam

__ Silt/ Silty clay loam

__ Silty clay __ Clay

__ Muck __ Peat

Drainage:

__ Rapidly drained

__ Well drained

__ Moderately well drained

__ Somewhat poorly drained

__ Poorly drained

__ Very poorly drained

Ground cover

__ % Bedrock	88 % Litter, duff	__ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders >10cm)	5 % Wood (> 1 cm)	__ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	__ % Water	
__ % Sand (0.1-2 mm)	2 % Bare soil	

Leaf type:

- ✓ Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)

- __ Evergreen
- ✓ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class

- ✓ Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

A WOODED PATCH ON A KNOLL SURROUNDED BY FIELDS, LOBLOLLY PLANTATION, & ROAD

Comments

Disturbance and animal use comments:

2 OR MORE DOWNED PINE TREES, BUT NONE LIVE.

NPS GULF COAST PROJECT: ***Plot Sampling Form*** 220

County:_____ **Park: NATR** **Plot Code:** ~~NATR~~ **State:** (AL) **MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1	35-50?			< .5m	5%
Tree Canopy T2	35-50?	60%	QUER FAL, PRUN SER	.5-1m	10%
Understory T3	15-20		CELT LAE,	1-2m	20%
Tall shrub S1	(2) 10		CELT LAE, SASSALB	2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous			TOXI RAD	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana			TOXI RAD	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	4					7	QUER FAL		
		5	6				7	CELT LAE		
		4	6				6	[illegible] ALB		
			4				4	ULMU ALA		
					7	6	7	TOXI RAD		
	5	4					5	PRUN SER		
					6		6	LONI JAP		
		4					4	DIOS VIR		
								DEAD PINU TAE on ground		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR. 221

County: Colbert **Park:** NATR **Plot Code:** U240 = NATR. 221 **State:** (AL) MS TN **Location org:** NPS

Location name _____ **Provisional community name** ~~7220~~ 7124

Survey date: 9/21/05 **Surveyors:** Erin Lunsford, Al Schotz

Datum WGS 84 **Lat/Long (decimal degrees):** 410506 N 8851353 W (UTM)

GPS File Name U240 **Coordinate accuracy** 8 (m) / ft **DOP** _____ **# sats** 6 **Elevation** _____ m / ft

Directions or nearby Mile marker:

Measured Slope 0 ° 0 %

Measured Aspect 0 ° (N=0°)

Topographic Position
- X Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

__ % Bedrock	70 % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders >10cm)	30 % Wood (> 1 cm)	____ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
__ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Young mix of hardwoods and red cedar roughly no more than 35-40 years of age.

Comments

Disturbance and animal use comments:

Exotics, namely Lonicera japonica, Microstegium vimineum, and Ligustrum sinense, are common, assuming a patchy distribution.

NPS GULF COAST PROJECT: *Plot Sampling Form* 221

County: Colbert Park: NATR Plot Code: ~~1210~~ State: (AL) MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	10-15m	80%	Juni vir-30%, Cary alb-20, Oxyd tri-10%	.5-1m	10%
Understory T3	5-10m	40%		1-2m	20%
Tall shrub S1	2-5m	40%	Celt lae-20%	2-5m	30%
Short shrub S2	.5-1m	30%	Symp orb-20%	5-10m	40%
Herbaceous	—	30%		10-15m	50%
Non-vascular	—			15-20m	60%
Vine/liana		20%	Smil rot-10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Fraxinus americana, Cercis canadensis, Quercus muehlenbergii				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Juni vir		
	6						6	Cary alb		
	5						5	Oxyd tri		
			6				6	Celt lae		
				6			6	Symp orb		
						5	5	Smil rot		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** = NATR-222

County: _____ **Park:** NATR **Plot Code:** 4241 **State:** (AL) MS TN **Location org:** NPS 7795

Location name _____ **Provisional community name** OAK-HICKORY RIDGETOP

Survey date: 9/21/05 **Surveyors:** E LUNSFORD, A SCHOTZ

Datum WGS 84 **UTM** ~~Lat/Long~~ (decimal degrees): 410 2077 N 3850421 W

GPS File Name 4141 **Coordinate accuracy** 4 m / ft **DOP** ____ **# sats** 7 **Elevation** 203 m / ft

Directions or nearby Mile marker:

Measured Slope

N/A ° ____ %

Measured Aspect

N/A ° (N = 0°)

Topographic Position

- ✓ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, ~~footslope~~)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System ✓ *Upland*: XERIC : DRY-MESIC : MESIC

__ *Palustrine* __ *Lacustrine* __ *Riverine*:

__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded

__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:

__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:

__ Rapidly drained
__ Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover

__ % Bedrock
__ % Large rocks (cobbles, boulders > 10cm)
__ % Small rocks (gravel, 0.2-10 cm)
__ % Sand (0.1-2 mm)
95 % Litter, duff
5 % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:

__ Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
✓ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
__ Cold-deciduous
✓ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

RIDGETOP

NNE-FACING SLOPE IS ABRUPT (MOD STEEP) W/ HICKORY + ASH + WHITE OAK.

SSW-FACING SLOPE IS GRADUAL, W/ MATURE LOBLOLLY SUCCESSIONAL

→ AT BOTTOM OF THAT SLOPE IS HACKBERRY SHRUBLAND

Comments

Disturbance and animal use comments: LOTS OF STANDING DEAD JUNIPER - SI

NPS GULF COAST PROJECT: ***Plot Sampling Form*** 222

County:_____ **Park:** NATR **Plot Code:** UHHT **State:** (AL) MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	35-32	90%	QUER VEL CARY GLAB	.5-1m	10%
Understory T3	10-15		NYSS SYL, CARY GLA	1-2m	20%
Tall shrub S1	2-5		ULMU ALA	2-5m	30%
Short shrub S2	1-2		FRAX AME, SYMPH. ORB	5-10m	40%
Herbaceous				10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): BEAUTY BERRY SHORTLEAF (PINE) ARIS TRI RHUS AROM (CALCAR. EDUS)				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	QUER VELUTINA		
	7							~~CARY ALB~~		
	8	5					8	CARY GLAB		
		5	4				5	NYSS		
	5						5	QUER RUB		
			4					ULMU ALA		
				3	4			FRAX AME		
(				3				CELT LAE		
	4							QUER ALB		
(			3					ULMU AME		
								LONI JAP		
				5			5	SYMPH ORB		
		4						CARY OVATA SHAG BARK		
	4							QUER RUB		
		3						JUNIVIR		
	4							PINU TAE		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR 223

County:_____ Park: NATR Plot Code: U242 State: (AL) MS TN Location org: NPS

Location name _____ Provisional community name MESIC BOTTOMLAND CEGL00 7353

Survey date: 9/21/05 Surveyors: E. LUNSFORD A. SHOTZ

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 401577 N 3838345 W

GPS File Name U242 Coordinate accuracy 5 m / ft DOP _____ # sats 7 Elevation 146 (m) ft

Directions or nearby Mile marker:

Measured Slope

_____ ° _____ %

Measured Aspect

_____ ° (N=0°)

Topographic Position

__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
__ Low level (terrace)
✓ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : (MESIC)
✓ *Palustrine* __ *Lacustrine* __ *Riverine*:

__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated Irregularly flooded

Soil texture:

__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
✓ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:

__ Rapidly drained
__ Well drained
__ Moderately well drained
__ Somewhat poorly drained
✓ Poorly drained
__ Very poorly drained

Ground cover

__ % Bedrock
__ % Large rocks (cobbles, boulders >10cm)
__ % Small rocks (gravel, 0.2-10 cm)
__ % Sand (0.1-2 mm)
75 % Litter, duff
5 % Wood (> 1 cm)
__ % Water
20 % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:

✓ Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
✓ Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

✓ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

BOTTOMLAND COMMUNITY WELL BELOW RD & BTWEEN RD & T'L SLOPE INNER TO NW

Comments

Disturbance and animal use comments:

MICROSTEG VIM

NPS GULF COAST PROJECT: ***Plot Sampling Form*** 223

County:_____ **Park: NATR** **Plot Code:** U2T2 **State:** (AL) MS TN **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	55-90	70	[illegible] QUER PAL	.5-1m	10%
Understory T3	5-10+	20	ULMU, QUER [illegible]	1-2m	20%
Tall shrub S1	2-5	20	[illegible]	2-5m	30%
Short shrub S2	1-2	10	CELT LAE	5-10m	40%
Herbaceous			POLYG. VIR, ARUND gig, [illegible]	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): ARUNDINARIA [illegible] CARYA CORD MUSHROOMS ACER NEGUNDO-CL				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	5						5	PLAT OCC		
	6						[illegible]	QUER [illegible] SHUM [illegible]	VACCINIUM	
		4	4				8	ACER SACCHARUM		
	4	[illegible]					[illegible]	LIQU STY		
		4					[illegible]	QUER [illegible] CIPHELLOS		
	4						[illegible]	QUER NIG		
	5						[illegible]	QUER PALUS.		
					4		[illegible]	ARUND gig		
					5		5	RUDBECK HIRT [illegible] ATROPURPUREA		
				4			[illegible]	CART CAR		
					4		[illegible]	ELEPH CAR		
					4		[illegible]	BIGNON		
					5		5	TOXI RAD		
					4		[illegible]	MICR VIM		
	5		4	4			5	FRAX PEN		
		4	4				[illegible]	ULMU RUB		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** = NATR-224

County: Colbert Park: NATR Plot Code: ~~U243~~ State: (AL) MS TN Location org: NPS

Location name _____ **Provisional community name** CEGL002070

Survey date: 9/21/05 **Surveyors:** Brin Lunsford, Al Schotz

Datum _WGS 84_ **Lat/Long (decimal degrees):** 421562 N 3838361 W

GPS File Name U243 **Coordinate accuracy** 8 (m) ft **DOP** _____ **# sats** 5 **Elevation** _____ m / ft

Directions or nearby Mile marker:

Measured Slope 0 . 0 %

Measured Aspect 0 ° (N = 0°)

Topographic Position

- X Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC

__ *Palustrine* __ *Lacustrine* __ *Riverine*:

__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded

__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:

__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:

__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover

__ % Bedrock
__ % Large rocks (cobbles, boulders > 10cm)
__ % Small rocks (gravel, 0.2-10 cm)
__ % Sand (0.1-2 mm)
90 % Litter, duff
10 % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:

X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

High quality oak-hickory forest dominated by Quercus rubra, Carya alba and Carya glabra. Quercus alba and Liriodendron tulipifera are also present just beyond the plot boundary.

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form* 224

County: Colbert **Park:** NATR **Plot Code:** ~~NA43~~ **State:** (AL) MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	80%	Quer rub-30%, Cary alb-20%, Cary gla-20%	.5-1m	10%
Understory T3	10-15m	40%	Acer bar-30%	1-2m	20%
Tall shrub S1	2-5m	30%	Osty vir-20%	2-5m	30%
Short shrub S2	.5-1m	20%		5-10m	40%
Herbaceous		40%	Chas ses-30%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Quercus meyerbergii, Cercis canadensis, Rhus aromatica				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Quer rub		
	6						6	Cary alb		
	5						5	Quer sho		
	6						6	Cary gla		
		7					7	Acer bar		
			6				6	Osty vir		
					7		7	Chas ses		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form* =NATR-225 W212(All), 119 (Erin's GPS unit)

County: Colbert Park: NATR Plot Code: W212(All) State: AL MS TN Location org: NPS

Location name _____ **Provisional community name** 7124 (Red cedar successional forest)

Survey date: 9/21/05 **Surveyors:** Erin Lunsford, Al Schotz

Datum WGS 84 **Lat/Long (decimal degrees):** 401706 N 3838210 W

GPS File Name 119 (Erin's) W212(All's unit) **Coordinate accuracy** 8 m / ft **DOP** _____ **# sats** 7 **Elevation** _____ m / ft

Directions or nearby Mile marker:

Measured Slope 0 ° 0 %

Measured Aspect 0 ° (N = 0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

__ % Bedrock	100 % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders > 10cm)	____ % Wood (> 1 cm)	____ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
__ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- X Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Early successional (10-15 years of age) Juniperus - hardwood association with a relatively dense understory of shrubs and vines (namely Campsis radicans). One large Juglans, with spreading crown, present suggesting more open conditions at one time.

CORNFIELD ± 20 M TO SOUTHEAST

Comments

Disturbance and animal use comments: Lonicera japonica is present, not too dense however. Some Microstegium vimineum between plot and trace. Plot vegetation very young, likely open field/pasture 10-15 years ago.

NPS GULF COAST PROJECT: *Plot Sampling Form* HALE(Ellis) 225

County: Colbert Park: NATR Plot Code: ~~WRP(AL)~~ State: (AL) MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1	15-20m	20%	Jugl nig - 20%	< .5m	5%
Tree Canopy T2	—	—		.5-1m	10%
Understory T3	5-10m	70	Juni vir - 40%, Acer neg - 10%	1-2m	20%
Tall shrub S1	2-5m	30%	Juni vir - 10%, Cerc can - 10%	2-5m	30%
Short shrub S2	.5-1m	20%		5-10m	40%
Herbaceous	—	30%	Verb vir - 10%, Elym vir - 10%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	10%	Camp rad - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Rudbeckia triloba var. triloba, Quercus muehlenbergii (seedling)				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

DM Emg	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
6							6	Jugl nig		
		7	5				7	Juni virg		
			5				5	Cerc can		
		5					5	Acer neg		
						5	5	Camp rad		
					5		5	Verb vir		
					5		5	Elym vir		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** = NATR. 226

County:_____ **Park:** NATR **Plot Code:** U198 **State:** (AL) MS TN **Location org:** NPS

classified as → NLCD Class #41 Deciduous Forest

Location name _____ **Provisional community name** EARLY SUCCESSIONAL HACKBERRY

Survey date: 9/21/05 **Surveyors:** E. LUNSFORD, (A. SCHOTZ)

Datum _WGS 84_ ~~Lat/Long~~ UTM **(decimal degrees):** 410435 **N** 3851390 **W**

GPS File Name U198 **Coordinate accuracy** _____ **m / ft** **DOP** _____ **# sats** _____ **Elevation** _____ **m / ft**

Directions or nearby Mile marker:

Measured Slope
GENTLE ° ____ %

Measured Aspect
120 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- ✓ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System ✓ *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- ✓ Loam __ Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- __ Moderately well drained
- ✓ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 75 % Litter, duff
- 25 % Wood (> 1 cm)
- __ % Water
- __ % Bare soil
- __ % Bryophyte/lichen
- __ % Other _____

Leaf type:
- ✓ Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- ✓ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- __ Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- ✓ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

WHITE ASH, HICKORY RECRUITING

Comments DOWNED JUNIPERUS VIR + OTHER CANOPY TREES

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: _____ **Park:** NATR **Plot Code:** ~~4198~~ 2226 **State:** (AL) MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3	10-15	20%	JUNI VIR	1-2m	20%
Tall shrub S1	5-10	80%	CELT LAE, ULMU ALA, ULMU AME	2-5m	30%
Short shrub S2	1-2	20%	LIGU SIN, RUBU	5-10m	40%
Herbaceous		20%	LONI JAP, PHYT AME, ASPL PLAT	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): MATE GON - 2 MORU RUB - 2 (SOLO)				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
			8				8	CELT LAE		
	(		3	5			5	LIGU SIN)		
			4				4	ULMU ALA		
					4		4	PHYT AME POKEBERRY		
			4				4	ULMA AME		
				4			4	RUBUS sp.		
					4		4	ASPL PLATY		
					3		3	FERN	✓	
	(		2	2			2	ARAL SPIN)		
					5		5	LONI JAP		
			5				5	QUER MUEL		
				5			5	SYMP ORB		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR-227

County:_____ Park: NATR Plot Code: W181 State: AL (MS) TN Location org: NPS

Location name Donivan Slough Provisional community name ~~YPH?~~ CEGL006102

Survey date: 9/21/05 Surveyors: AJ Schotz

Datum WGS 84 UTM Lat/Long (decimal degrees): 364425 N 3814433 W

GPS File Name W181 Coordinate accuracy 10 (m) / ft DOP ____ # sats 6 Elevation 146 (m) ft

Directions or nearby Mile marker:
Just ENE of Donivan Slough parking area.

Measured Slope 0 . 0 %

Measured Aspect 0 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- X Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
X *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated X Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
X Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 80 % Litter, duff
- 20 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Bottomland fragment forest contains a good representation of wetland tree species typical for the region, including Quercus phellos, Quercus texana, Quercus michauxii, Quercus nigra, Quercus lyrata, Liquidambar styraciflua, and Ulmus americana, among a few others. The ground surface is characterized as a mosaic of shallow depressions where water accumulates during times of heavy rainfall.

Comments

Disturbance and animal use comments: Small amount of Lonicera japonica along periphery of forest, but site is generally free of exotics.

NPS GULF COAST PROJECT: ***Plot Sampling Form*** 227

County: _____ **Park:** NATR **Plot Code:** WHSI **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	90%	Quer nig - 40%, Quer phe - 30%	.5-1m	10%
Understory T3	15-20m	70%	Ulmu ame - 30%, Quer mic - 20%, Quer tex - 20%	1-2m	20%
Tall shrub S1	2-5m	40%	Acer rub - 10%, Ulmu ame - 10%	2-5m	30%
Short shrub S2	.5-1m	10%		5-10m	40%
Herbaceous	—	10%		10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	10%	Toxi rad - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Platanus occidentalis, Fraxinus pennsylvanica, Quercus lyrata				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Quer nig		
	7						7	Quer phe		
		7	5				7	Ulmu ame		
		6					6	Quer mic		
		6					6	Quer tex		
			5				5	Acer rub		
						5	5	Toxi rad		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form* = NATR - 223

County:_____ Park: NATR Plot Code: W183 State: AL (MS) TN Location org: NPS

Location name Dorman Slough Nature Trail Provisional community name 2419 (water tupelo swamp forest)

Survey date: 9/21/05 Surveyors: Al Schotz

Datum WGS 84 UTM Lat/Long (decimal degrees): 364219 N 3814340 W

GPS File Name W183 Coordinate accuracy 70 (m) ft DOP _____ # sats 7 Elevation _____ m / ft

Directions or nearby Mile marker:
In slough ca. 40 meters from parking area just south of nature trail.

Measured Slope
0.0 %

Measured Aspect
0 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- X Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
✓ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
X Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- X Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- X Poorly drained
- __ Very poorly drained

Ground cover

___ % Bedrock	60 % Litter, duff	____ % Bryophyte/lichen
___ % Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____ % Other _____
___ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
___ % Sand (0.1-2 mm)	30 % Bare soil	

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Small slough bounded on either side by a mature bottomland hardwood forest.

Comments

Disturbance and animal use comments: Microstegium vimineum noticed along natural trail near plot.

NPS GULF COAST PROJECT: ***Plot Sampling Form*** 223

County: _____ **Park:** NATR **Plot Code:** LATR5 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	60%	Nyss aqu - 30%, Taxo dis - 30%	.5-1m	10%
Understory T3	10-15m	30%	Quer lyr - 10%, Nyss aqu 10%	1-2m	20%
Tall shrub S1	2-5m	10%	Nyss aqu - 10%	2-5m	30%
Short shrub S2	—	—		5-10m	40%
Herbaceous	—	10%		10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Sarracenia cernua, Rudbeckia laciniata, Lobelia cardinalis				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	5	5				7	Nyssa aqu		
	7						7	Taxo dis		
		5					5	Quer lyr		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form* = NATR-229

County: Pearl River Park: NATR Plot Code: W184 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** ~~8462~~ (Mid - to late successional loblolly pine - sweetgum forest)

Survey date: 9/21/05 **Surveyors:** Al Schotz CEGL008450

Datum WGS 84 ~~Lat/Long~~ UTM (decimal degrees): 365386 N 3814933 W

GPS File Name W184 **Coordinate accuracy** 7 (m) / ft **DOP** _____ **# sats** 7 **Elevation** 160 (m) ft

Directions or nearby Mile marker:

Measured Slope 10 ° ____ %

Measured Aspect 350 ° (N = 0°)

Topographic Position
- X Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam X Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

__ __% Bedrock	100% Litter, duff	____% Bryophyte/lichen
__ __% Large rocks (cobbles, boulders >10cm)	____% Wood (> 1 cm)	____% Other _____
__ __% Small rocks (gravel, 0.2-10 cm)	____% Water	
__ __% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Successional loblolly stand, with an understory of various hardwoods, most notably Liquidambar styraciflua.

Comments

Disturbance and animal use comments: Lonicera japonica is present.

NPS GULF COAST PROJECT: ***Plot Sampling Form*** 3229

County: Prentiss **Park:** NATR **Plot Code:** VH84 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	Pinu tae-30%, Quer alb-20%, Liqu sty-20%	.5-1m	10%
Understory T3	10-15m	40%	Liqu sty-10%, Quer ste-10%	1-2m	20%
Tall shrub S1	2-5m	30%	Liqu sty-20%	2-5m	30%
Short shrub S2	.5-1m	20%	Nyss syl-10%, Toxi rad-10%	5-10m	40%
Herbaceous	—	—	herb layer sparse-about 5% coverage	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	10%	Loni jap-10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
	6						6	Quer alb		
	6	5	6				7	Liqu sty		
		5					5	Quer ste		
				5			5	Nyss syl		
				5			5	Toxi rad		
						5	5	Loni jap		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR-230

County: Perdido Park: NATR Plot Code: ~~W185~~ = State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** ~~4911~~ (East Gulf Coastal Plain Oak/Pine Small Stream Floodplain Forest)

Survey date: 9/21/05 **Surveyors:** AJ Schotz CEGL007330

Datum WGS 84 Lat/Long (decimal degrees): 365105 N 3814781 W (UTM)

GPS File Name W185 **Coordinate accuracy** 9 (m) / ft **DOP** _____ **# sats** 6 **Elevation** _____ (m) / ft

Directions or nearby Mile marker:

Measured Slope 0.0 %

Measured Aspect 0 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- X Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
- __Sand __Sandy loam
- __Sandy clay loam
- __Loam __Silt loam
- X Silt/ Silty clay loam
- __Silty clay __Clay
- __Muck __Peat

Drainage:
- X Rapidly drained
- X Well drained
- __Moderately well drained
- __Somewhat poorly drained
- __Poorly drained
- __Very poorly drained

Ground cover

__ __% Bedrock	90% Litter, duff	____% Bryophyte/lichen
__ __% Large rocks (cobbles, boulders >10cm)	10% Wood (> 1 cm)	____% Other _____
__ __% Small rocks (gravel, 0.2-10 cm)	____% Water	
__ __% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Rich bottomland forest with good statured trees. Although hardwoods predominate, Pinus taeda is present. The hardwood diversity is quite impressive, representing one of the more diverse areas encountered along the parkway.

Comments

Disturbance and animal use comments: Lonicera japonica is present but not severe.

NPS GULF COAST PROJECT: *Plot Sampling Form* 230

County: Perkiss **Park:** NATR **Plot Code:** WHS5 **State:** AL MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	90%	Liqu sty-30%, Liri tul-30%, Quer nig-20%	.5-1m	10%
Understory T3	10-15m	40%	Acer rub-20%, Liqu sty-10%	1-2m	20%
Tall shrub S1	2-5m	50%	Fagu gra-20%, Carp car-10%	2-5m	30%
Short shrub S2	.5-1m	10%		5-10m	40%
Herbaceous		20%	Toxi rad-10%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		20%	Smil rot-10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Quercus pagoda, Polystichum acrostichoides, Lindera benzoin, Spiranthes ovalis, Pinus taeda				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Liqu sty		
	7						7	Liri tul		
	6	5					6	Quer nig		
			6				6	Fagu gra		
		6					6	Acer rub		
			5				5	Carp car		
					5			Toxi rad		
						5		Smil rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** = NATR-231

County: Perry Park: NATR Plot Code: W195 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** 6011 (Early- to mid-successional loblolly pine Forest)

Survey date: 9/21/05 **Surveyors:** DI Schatz

Datum WGS 84 UTM **Lat/Long (decimal degrees):** 3711167 N 3816592 W

GPS File Name W195 **Coordinate accuracy** 10 (m) / ft **DOP** _____ **# sats** 6 **Elevation** 159 (m) / ft

Directions or nearby Mile marker:
SE quadrant of jct. of NT Pkwy + C.R. 4101.

Measured Slope 2 ° ____ %

Measured Aspect 160 ° (N=0°)

Topographic Position
- X Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam X Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- X Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community
Successional loblolly pine plantation.

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: _____ **Park:** NATR **Plot Code:** ~~bl195~~ 231 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20m	50%	Pinu tae - 50%	.5-1m	10%
Understory T3	5-10m	40%	Oxyd arb - 20%, Ligu sty - 20%	1-2m	20%
Tall shrub S1	2-5m	60%	Acer rub - 30%, Ligu sty - 20%	2-5m	30%
Short shrub S2	.5-1m	10%	Ligu sty - 10%	5-10m	40%
Herbaceous	—	—	herb layer very sparse	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	10%	Camp rad - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinutae		
		6					6	Oxyd arb		
		6	6	5			7	Ligu sty		
			7				7	Acer rub		
						5	5	Camp rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR-232

County: Prentiss Park: NATR Plot Code: W197 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** 9244 (Southern red oak - white oak mixed oak Forest)

Survey date: 9/21/05 **Surveyors:** Al Schotz

Datum WGS 84 ~~Lat/long~~ (decimal degrees): 372143 N 3817033 W

GPS File Name W197 **Coordinate accuracy** 9 (m) ft **DOP** _____ **# sats** 6 **Elevation** 169 (m)/ ft

Directions or nearby Mile marker:

Measured Slope 2 ° ____ %

Measured Aspect 340° (N=0°)

Topographic Position
- X Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
__ __% Bedrock
__ __% Large rocks (cobbles, boulders >10cm)
__ __% Small rocks (gravel, 0.2-10 cm)
__ __% Sand (0.1-2 mm)
90 % Litter, duff
10 % Wood (> 1 cm)
____% Water
____% Bare soil
____% Bryophyte/lichen
____% Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Native oak-hickory Forest dominated by Quercus alba and Quercus falcata. Although not in plot Carya alba is also a frequent component of the canopy. Other canopy species include Quercus velutina, Quercus rubra, Quercus coccinea, and the occasional Pinus echinata.

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: Tishomingo Park: NATR Plot Code: WHAT 232 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	15-20m	90%	Quer alb-30%, Quer fal-30%
Understory T3	5-10m	40%	Quer alb-20%, Nyss syl-10%
Tall shrub S1	2-5m	30%	Nyss syl-10%, Cun flo-10%
Short shrub S2	.5-1m	10%	
Herbaceous	—	—	herb layer very sparse-roughly 2% coverage
Non-vascular	—	—	
Vine/liana	—	—	

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Vaccinium arboreum

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	6					7	Quer alb		
	7						7	Quer fal		
		5	5				6	Nyss syl		
			5				5	Cun flo		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form* = NATR-233

County: Prentiss Park: NATR Plot Code: ~~WP98~~ State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 8450 (successional loblolly pine - oak forest)

Survey date: 9/21/05 Surveyors: AI Schotz

Datum ~~WGS 84~~ UTM (decimal degrees): 382204 N 3821462 W

GPS File Name WP98 Coordinate accuracy 12 (m) ft DOP ____ # sats 7 Elevation 160 (m) ft

Directions or nearby Mile marker:

Measured Slope 4 ° ____ %

Measured Aspect 300 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam X Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- X Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 80 % Litter, duff
- 20 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Formerly a Pinus taeda plantation that is now senescent, and is being transformed into an oak-hickory forest.

Comments

Disturbance and animal use comments: Lonicera japonica is extremely common.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: Tishomingo **Park:** NATR **Plot Code:** WH98 233 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	60%	Pinu tae - 30%, Quercus alb - 30%	.5-1m	10%
Understory T3	10-15m	60%	Quer ste - 20%, Liqu sty - 20%, Quer nig - 10%	1-2m	20%
Tall shrub S1	2-5m	30%	Cary alb - 10%	2-5m	30%
Short shrub S2	.5-1m	20%		5-10m	40%
Herbaceous	—	—	herb layer very sparse, ca. no more than 3% coverage	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Toxi jap - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
	7						7	Quer alb		
		6					6	Quer ste		
		6					6	Liqu sty		
		5					5	Quer nig		
			5				5	Cary alb		
						5	5	Toxi jap		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* = NATR-234

County: Tishomingo Park: NATR Plot Code: W199 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** 6327

Survey date: 9/21/05 **Surveyors:** Al Schotz

Datum WGS 84 UTM ~~Lat/Long~~ (decimal degrees): 385561 N 3827185 W

GPS File Name W199 **Coordinate accuracy** 8 (m) / ft **DOP** ____ **# sats** 6 **Elevation** 210 (m) ft

Directions or nearby Mile marker:

Measured Slope 3 ° ____ %

Measured Aspect 320° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam X Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ __ % Bedrock
- __ __ % Large rocks (cobbles, boulders >10cm)
- __ __ % Small rocks (gravel, 0.2-10 cm)
- __ __ % Sand (0.1-2 mm)
- 80 % Litter, duff
- 20 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- X Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mature Pinus echinata forest transitioning into hardwood forest dominated by Quercus spp. + Carya spp. No pine regeneration was apparent. Some Pinus taeda mixed in but rather sparse.

Comments

Disturbance and animal use comments: Fire repression apparent - needs prescribed Burning. No evidence of past fire. No exotics observed.

NPS GULF COAST PROJECT: *Plot Sampling Form* 234

County: Tishomingo Park: NATR Plot Code: ~~MN~~ 194 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	Pinu ech-70%	.5-1m	10%
Understory T3	10-15m	60%	Quer alb-20%, Cary alb-20%	1-2m	20%
Tall shrub S1	2-5m	30%	Cary alb-20%	2-5m	30%
Short shrub S2	.5-1m	10%		5-10m	40%
Herbaceous	—	—	herb layer very sparse, ca. no more than 3%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	10%	Viti rot-10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Vaccinium arboreum, Nyssa sylvatica.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8						8	Pinu ech		
		6					6	Quer alb		
		6	6				7	Cary alb		
						5	5	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** = NATR-235

County: Tishomingo Park: NATR Plot Code: W201 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name ~~7205~~? 7244

Survey date: 9/21/05 Surveyors: Al Schotz

Datum WGS 84 ~~Lat/Long~~ UTM (decimal degrees): 385444 N 3827578 W

GPS File Name W201 Coordinate accuracy 12 (m) / ft DOP ____ # sats 5 Elevation 191 (m) ft

Directions or nearby Mile marker:

Measured Slope
11 ° ____ %

Measured Aspect
90 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
__ % Bedrock
__ % Large rocks (cobbles, boulders >10cm)
__ % Small rocks (gravel, 0.2-10 cm)
__ % Sand (0.1-2 mm)
90 % Litter, duff
10 % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:
X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

Mature mixed oak-hickory forest. Some immature Pinus taeda occurs just beyond the plot's western boundary along forest margin, adjacent to NT.

Comments Plot was relocated roughly 20 meters at 105° ESE of Michael Barbour's predetermined point, which was in the manicured lawn adjacent to the NT.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form*** 235

County: Tishomingo **Park:** NATR **Plot Code:** W201 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	26-35m	80%	Quer alb - 30%, Quer ste - 20%, Cary gla - 20%, Quer coc - 10%	.5-1m	10%
Understory T3	15-20m	20%	Quer ste - 10%, Quer fal - 10%	1-2m	20%
Tall shrub S1	2-5m	40%	Oxyd arb - 20%	2-5m	30%
Short shrub S2	.5-1m	20%		5-10m	40%
Herbaceous	—	—	herb layer very sparse, ca. no more 2% coverage	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Cornus florida, Carya alba, Sassafras albidum				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Quer alb		
	6	5					6	Quer ste		
	6						6	Quer coc		
	6						6	Cary gla		
		5					5	Quer fal		
			6				6	Oxyd arb		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form* = NATR-236

County: Tishomingo Park: NATR Plot Code: W205 State: AL (MS) TN Location org: NPS

Location name Tishomingo/Belmont Exit Provisional community name 7330 (Successional sweetgum floodplain forest)

Survey date: 9/21/05 Surveyors: Al Schotz

Datum WGS 84 Lat/Long (decimal degrees): 388253 N 3829587 W

GPS File Name W205 Coordinate accuracy 9 (m)/ft DOP ____ # sats 5 Elevation 265 (m)/ft

Directions or nearby Mile marker:
Directly across NT from Tishomingo/Belmont Exit

Measured Slope
2 ° ____ %

Measured Aspect
210 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- X Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
X *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated X Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
X Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
__ Well drained
X Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
__ __% Bedrock
__ __% Large rocks (cobbles, boulders >10cm)
__ __% Small rocks (gravel, 0.2-10 cm)
__ __% Sand (0.1-2 mm)
90 % Litter, duff
10 % Wood (> 1 cm)
____% Water
____% Bare soil
____% Bryophyte/lichen
____% Other _____

Leaf type:
X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community
Small disturbed dominated by Liriodendron tulipifera and, to a lesser extent, Liquidambar styraciflua. Forest is young, with largest trees likely no more than 50 years of age. A powerline corridor is situated just to the NNW side of the plot.

Comments

Disturbance and animal use comments:
Some Lonicera japonica observed but not severe.

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR 236

County: Tishomingo **Park:** NATR **Plot Code:** W205 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	50%	Liri tul - 40%	.5-1m	10%
Understory T3	15-20m	90%	Liri tul - 30%, Ligu sty - 30%, Acer rub - 20%	1-2m	20%
Tall shrub S1	2-5m	30%	Acer rub - 10%, Ligu sty - 20%	2-5m	30%
Short shrub S2	.5-1m	10%		5-10m	40%
Herbaceous	—	—	Herb layer very sparse - ca 5% coverage	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Decu bar 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: *Tree Canopy* | ***T3*** *Subcanopy* | ***S1*** *Tall Shrub (> 1m to 5m)* | ***S2*** *Short Shrub (< 1m)* | ***H*** *Herbaceous* | ***V*** *Vines (lianas)*

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	7					8	Liri tul		
		7	6				7	Ligu sty		
		6	5				6	Acer rub		
						5	5	Decu bar		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form* = NATR-237

County: Tishomingo Park: NATR Plot Code: W207 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name * 4053 (East Gulf Coastal Plain Shortleaf Pine-Post Oak Forest) → see comments

Survey date: 9/21/05 Surveyors: Al Schotz

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 390592 N 3830400 W

GPS File Name W207 Coordinate accuracy 6 (m) ft DOP ____ # sats 5 Elevation 215 (m) ft

Directions or nearby Mile marker:

Measured Slope 2 ° ____ %

Measured Aspect 25 ° (N=0°)

Topographic Position
- X Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover

___ % Bedrock	90 % Litter, duff	____ % Bryophyte/lichen
___ % Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____ % Other _____
___ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
___ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Dry oak-hickory-pine forest situated along a ridge and upper slope on the west side of Cedar Creek. Pinus echinata, Quercus rubra, Quercus alba, Quercus stellata, Quercus marilandica, Carya glabra, and Carya alba are most common. Nyssa sylvatica and Oxydendrum arboreum are also present, but are generally scattered. Herb layer is very sparse. Good quality site.

Comments

* Only one post oak in plot but more frequent beyond plot boundary.

Disturbance and animal use comments: No exotics observed.

NPS GULF COAST PROJECT: *Plot Sampling Form* 237

County: Tishomingo Park: NATR Plot Code: NATR207 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20m	70%	Pinu ech-20%, Quer alb-10%, Quer rub-20%	.5-1m	10%
Understory T3	10-15	60%	Cary alb-20%, Cary gla-20%	1-2m	20%
Tall shrub S1	2-5m	30%	Cary alb-10%, Vacc ark-10%	2-5m	30%
Short shrub S2	.5-1	10%		5-10m	40%
Herbaceous	—	—	herb layer very sparse	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Viti rot	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Nyssa sylvatica, Rhododendron arborescens				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6						6	Pinu ech		
	5						5	Quer alb		
	6						6	Quer rub		
		6	5				6	Cary alb		
		6					6	Cary gla		
			5				5	Vacc ark		
						5	5	Viti rot		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form* = NATR-238

County: Tishomingo Park: NATR Plot Code: W208A State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** 2067 (White oak - red oak dry-mesic acid forest)

Survey date: 9/21/05 **Surveyors:** Al Schotz

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 391562 N 3831112 W

GPS File Name W208A **Coordinate accuracy** 8 (m) ft **DOP** _____ **# sats** 6 **Elevation** 184 (m) ft

Directions or nearby Mile marker:

Measured Slope 49 ° ____ %

Measured Aspect 270 ° (N=0°)

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC

__ *Palustrine* __ *Lacustrine* __ *Riverine*:

__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded

__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:

__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:

__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover

40 % Bedrock
10 % Large rocks (cobbles, boulders >10cm)
__ % Small rocks (gravel, 0.2-10 cm)
__ % Sand (0.1-2 mm)
40 % Litter, duff
10 % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:

X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

Steep, west-facing slope with a series of sandstone ledges, some ca. 10-15 meters in height. Mature hardwood canopy with some large trees (2-2.5 A DBH) present.

Comments Habitat rare in Mississippi - biological surveys recommended.

Disturbance and animal use comments:

Nice site with no apparent disturbance.

NPS GULF COAST PROJECT: *Plot Sampling Form* 238

County: Tishomingo Park: NATR Plot Code: ~~WJOSA~~ State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	80%	Cary gla - 30%, Quer rel - 40%	.5-1m	10%
Understory T3	10-15m	60%	Quer alb - 30%, Ostr vir - 20%	1-2m	20%
Tall shrub S1	2-5m	30%	Kalm lat - 20%	2-5m	30%
Short shrub S2	.5-1m	10%		5-10m	40%
Herbaceous	—	10%		10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Rhododendron canescens, Oxydendrum arboreum, Fagus grandifolia				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7							Cary gla		
	7							Quer rel		
		7						Quer alb		
		6						Ostr vir		
			6					Kalm lat		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* = NATR-239

County: Tishomingo Park: NATR Plot Code: ~~W206~~ State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name CEGL002070

Survey date: 9/22/05 Surveyors: Al Schotz

Datum WGS 84 ~~Lat/Long~~ (decimal degrees): 39,1555 N 3831098 W (UTM)

GPS File Name W206 Coordinate accuracy 8 (m) / ft DOP ____ # sats 6 Elevation 175 (m) ft

Directions or nearby Mile marker:

Measured Slope 10 ° ____ %

Measured Aspect 290 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover

____ % Bedrock	80 % Litter, duff	____ % Bryophyte/lichen
10 % Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____ % Other _____
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mature hardwood forest primarily composed of various oak and hickory. One loblolly pine was noted in the plot, near highway, but not tabulated. The northeast boundary of the plot is bordered by a sandstone ledge (Plot W206A). Good quality site!

Comments

Disturbance and animal use comments: No exotics observed!

NPS GULF COAST PROJECT: ***Plot Sampling Form*** 2-39

County: Tishomingo **Park:** NATR **Plot Code:** ~~WOOK~~ **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20m	70%	Quer alb-20, Quer rub-20%	.5-1m	10%
Understory T3	5-10m	50%	Quer alb-10%, Ostr vir-20%	1-2m	20%
Tall shrub S1	2-5m	20%	Ostr vir-10%	2-5m	30%
Short shrub S2	.5-1	10%		5-10m	40%
Herbaceous	—	10%		10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Polystichum acrostichoides, Styrax grandifolia				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6	5					6	Quer alb		
	6						6	Quer rub		
	5						5	Liqu sty		
	5						5	Cary gla		
		6	5				6	Ostr vir		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** = NATR-242

County:_____ Park: NATR Plot Code: W158 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 6011 (Early to mid-successional loblolly pine forest)

Survey date: 9/22/05 Surveyors: AJ Schotz

Datum WGS 84 ~~Lat/Long~~ UTM (decimal degrees): 326210 N 3768007 W

GPS File Name W158 Coordinate accuracy 8 (m) ft DOP _____ # sats 6 Elevation 108 (m) ft

Directions or nearby Mile marker:
Just NE of Davis Lake Rec Area, SE side of NT.

Measured Slope 0.0 %

Measured Aspect 0 ° (N=0°)

Topographic Position
- X Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
X Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community
Mid-successional loblolly pine forest, with a mix of hardwoods that includes Liquidambar, Acer rubrum, and Quercus nigra as principal species.

Comments

Disturbance and animal use comments: Minor amount (ca. 2% coverage) of Lonicera japonica observed in plot. Old plough furrows noticed on ground.

NPS GULF COAST PROJECT: ***Plot Sampling Form*** 240

County: _____ **Park:** NATR **Plot Code:** ~~MTSS~~ **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20m	70%	Pinu tae-40%, Quer nig-20%	.5-1m	10%
Understory T3	10-15m	70%	Ligu sty-40%, Acer rub-20%	1-2m	20%
Tall shrub S1	2-5m	70%	Ligu sty-30%, Acer rub-20%, Quer nig-20%	2-5m	30%
Short shrub S2	.5-1m	20%	Ligu sty-10%	5-10m	40%
Herbaceous	–	–	herb layer sparse, roughly 5% coverage	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana		10%	Camp rad	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
	6		6				7	Quer nig		
		7	7	5			7	Ligu sty		
		6	6				6	Acer rub		
						5	5	Camp rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** = NATR-241

County: Lee Park: NATR Plot Code: W159 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 6011 (Mid-successional loblolly pine forest)

Survey date: 9/22/05 Surveyors: AI Schatz

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 330315 N 3777999 W

GPS File Name W159 Coordinate accuracy 10 (m) ft DOP ____ # sats 5 Elevation 132 (m) ft

Directions or nearby Mile marker:
Ca. 600 ft north of mile marker 250.

Measured Slope 0 ° 0 %

Measured Aspect 0 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam X Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

__ % Bedrock	70 % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders >10cm)	30 % Wood (> 1 cm)	____ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
__ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- X Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community
Mid-successional loblolly pine forest with a hardwood understory.

Comments Plot on edge of manicured lawn.

Disturbance and animal use comments: Various exotics present, namely Ligustrum sinense and Lonicera japonica.

NPS GULF COAST PROJECT: ***Plot Sampling Form*** ~~1154~~ 241

County: Lee **Park:** NATR **Plot Code:** ~~1154~~ **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	10-15m	50%	Pinu tae - 40%, Popu del - 10%	.5-1m	10%
Understory T3	5-10m	60%	Liqu sty - 20%, Juni vir - 20%, Dios vir - 10%	1-2m	20%
Tall shrub S1	2-5m	40%	Liqu sty - 30%	2-5m	30%
Short shrub S2	.5-1m		Toxi rad - 10%, Liqu sty - 10%	5-10m	40%
Herbaceous	—	10%		10-15m	50%
Non-vascular	→	↘		15-20m	60%
Vine/liana		10%	Berc sca	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
	5						5	Popu del		
		6	7	5			8	Liqu sty		
		5					5	Dios vir		
		6					6	Juni vir		
				5			5	Toxi rad		
						5	5	Berc sca		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR-242

County: Lee Park: NATR Plot Code: ~~W160~~ State: AL (MS) TN Location org: NPS

Location name NNE of Black Belt overlook Provisional community name 7047 (Black Belt prairie cedar forest)

Survey date: 9/22/05 Surveyors: AH Schotz

Datum WGS 84 UTM ~~Lat/Long~~ (decimal degrees): 332284 N 3780507 W

GPS File Name W160 Coordinate accuracy 7 (m) / ft DOP ____ # sats 6 Elevation 117 (m) / ft

Directions or nearby Mile marker:
Ca. 0.4 miles NNE of Black Belt overlook

Measured Slope 10 ° ____ %

Measured Aspect 90 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System ✓ *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- X Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- ____ % Bedrock
- ____ % Large rocks (cobbles, boulders >10cm)
- ____ % Small rocks (gravel, 0.2-10 cm)
- ____ % Sand (0.1-2 mm)
- 80 % Litter, duff
- 20 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other ____

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- X Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Pure stand of even-aged Juniperus virginiana. Understory is sparse, with only a scattering of low-growing shrubs and herbs being present. Noteworthy is the presence of Pontheva racemosa, an orchid species likely rare in Mississippi.

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form*** 242

County: Lee **Park:** NATR **Plot Code:** WHD **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	5-10m	80%	Juni vir - 80%
Understory T3	—	—	
Tall shrub S1	—	—	
Short shrub S2	—	—	
Herbaceous		10%	
Non-vascular	—	—	
Vine/liana			

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Rhamnus caroliniana, Panthiera racemosa

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	9						9	Juni vir		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form* = NATR-243

County: Lee Park: NATR Plot Code: ~~W163A~~ State: AL (MS) TN Location org: NPS

Location name Chickasaw Village Site Provisional community name CEGL00 41044

Survey date: 9/22/05 Surveyors: AI Schotz

Datum ~~WGS 84~~ UTM Lat/Long (decimal degrees): 339629 N 3794407 W

GPS File Name W163A Coordinate accuracy 70 (m) ft DOP ____ # sats 7 Elevation 109 (m) ft

Directions or nearby Mile marker:
Chickasaw Village site.

Measured Slope 3 ° ____ %

Measured Aspect 180 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System ✓ *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam X Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- ____ % Bedrock
- ____ % Large rocks (cobbles, boulders >10cm)
- ____ % Small rocks (gravel, 0.2-10 cm)
- ____ % Sand (0.1-2 mm)
- ____ % Litter, duff
- ____ % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other ____

Completely covered by herbaceous vegetation

Leaf type:
- __ Broad-leaved
- __ Needle-leaved
- X Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- X Herb - Perennial

Physiognomic Class
- __ Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- X Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Successional field dominated by graminoids and forbs, most notably Saccharum giganteum and Solidago canadensis. Some shrubs present but sparse.

Comments Plot relocated ca. 50 meters west of predetermined W163, which was situated in a bahia grass lawn.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form*** 243

County: Lee **Park:** NATR **Plot Code:** WL63A **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous		100%	Sacc gig-30%, Soli can-30%	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
					7		7	Sacc gig		
					7		7	Soli can		
					5		5	Andr vir		
					5		5	Pani vir		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form* = NATR. 244

County: Lee Park: NATR Plot Code: ~~W168~~ State: AL (MS) TN Location org: NPS

Location name NW site of Tupelo Provisional community name 7246 (Typical ~~eastern coastal plain~~ oak-hickory forest)

Survey date: 9/22/05 Surveyors: Al Schotz

Datum WGS 84 UTM ~~Lat/Long~~ (decimal degrees): 342287 N 3799319 W

GPS File Name W168 Coordinate accuracy 11 (m)/ ft DOP ____ # sats 5 Elevation 133 (m)/ ft

Directions or nearby Mile marker:

Measured Slope 4 ° ____ %

Measured Aspect 250 ° (N=0°)

Topographic Position
- Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- Midslope (middle slope)
- Lowslope (lower slope, footslope)
- Toeslope (alluvial toeslope)
- Low level (terrace)
- Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
Palustrine *Lacustrine* *Riverine*:
Permanently flooded Semipermanently flooded Temporarily flooded
Seasonally flooded Saturated Irregularly flooded

Soil texture:
Sand Sandy loam
Sandy clay loam
Loam Silt loam
X Silt/ Silty clay loam
Silty clay Clay
Muck Peat

Drainage:
Rapidly drained
X Well drained
Moderately well drained
Somewhat poorly drained
Poorly drained
Very poorly drained

Ground cover

____% Bedrock	100% Litter, duff	____% Bryophyte/lichen
____% Large rocks (cobbles, boulders >10cm)	____% Wood (> 1 cm)	____% Other ____
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
- X Broad-leaved
- Needle-leaved
- Graminoid
- Broad-leaved herbaceous
- Pteridophyte
- Mixed

Leaf phenology (dominant stratum)
- Evergreen
- X Cold-deciduous
- Mixed evergreen-cold-deciduous
- Herb - Annual
- Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- Woodland (open tree canopy)
- Shrubland
- Dwarf Shrubland
- Herbaceous (less than 25% woody layers)
- Nonvascular
- Sparse Vegetation

Qualitative description of Community

Relatively young hardwood forest within an urban interface of Tupelo. Typical hardwood component expected for the region characterizes the site; a mix of Quercus Falcata, Quercus alba, Quercus stellata, Liquidambar, Carya alba, and others. Juniperus virginiana is widely scattered in the understory. The plot contains one individual of Quercus pagoda, which appears out of place.

Comments

Disturbance and animal use comments: Lonicera japonica is present, but sparse.

NPS GULF COAST PROJECT: ***Plot Sampling Form*** 2244

County: Lee **Park:** NATR **Plot Code:** ~~NATR~~ **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	15-20m	70%	Liqu sty-20%, Quer pag-20%, Quer ste-20%
Understory T3	5-10m	90%	Cary alb-20%, Quer nig-20%, Cary alb-20%
Tall shrub S1	2-5m	40%	Vacc arb-20%, Quer ste-10%
Short shrub S2	.5-1m	10%	
Herbaceous	—	—	herb layer very sparse - ca. 2-3% coverage
Non-vascular	—	—	
Vine/liana	—	—	

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Quercus Fakata – frequent in area, but sparse in plot.

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6						6	Liqu sty		
	6						6	Quer pag		
	6	6	5				7	Quer ste		
		6					6	Cary alb		
		6					6	Quer nig		
			6				6	Vacc arb		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* = NATR-245

County: Lee Park: NATR Plot Code: ~~W175~~ State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 7212

Survey date: 9/22/05 Surveyors: Al Schotz

Datum WGS 84 utm ~~Lat/Long~~ (decimal degrees): 345188 N 3802181 W

GPS File Name W175 Coordinate accuracy 8 (m) / ft DOP ____ # sats 7 Elevation 130 (m) / ft

Directions or nearby Mile marker:

Measured Slope 8 ° ____ %

Measured Aspect 300 ° (N = 0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System ✓ *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam X Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

___ % Bedrock	90 % Litter, duff	____ % Bryophyte/lichen
___ % Large rocks (cobbles, boulders > 10cm)	10 % Wood (> 1 cm)	____ % Other _____
___ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
___ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Early- to mid-successional oak-hickory forest. Forest is more mature between this point and the NT, consisting of the same canopy species. Sweetgum is less frequent in the more mature portions of forest, specifically adjacent to parkway.

Comments Plot assumes an edge effect due to its proximity to private land - roughly 20 meters to the south.

Disturbance and animal use comments: No exotics observed in plot.

NPS GULF COAST PROJECT: ***Plot Sampling Form*** 245

County: Lee **Park:** NATR **Plot Code:** ~~WPS~~ **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	10-15m	70%	Liqu sty - 30%, Quer ste - 30%	.5-1m	10%
Understory T3	5-10m	40%	Liqu sty - 20%, Quer nig - 10%	1-2m	20%
Tall shrub S1	2-5m	30%	Liqu sty - 10%, Vacc arb - 10%	2-5m	30%
Short shrub S2	.5-1m	10%		5-10m	40%
Herbaceous	—	10%		10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	6	5					Liqu sty		
	7							Quer ste		
		5						Quer nig		
			5					Vacc arb		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** = NATR-246

County: Lee Park: NATR Plot Code: WP76 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** 7330 (Successional sweetgum floodplain forest)

Survey date: 9/22/05 **Surveyors:** Al Schotz

Datum WGS 84 ~~Lat/Long~~ UTM (decimal degrees): 345666 N 3803160 W

GPS File Name WP76 **Coordinate accuracy** 7 (m) / ft **DOP** _____ **# sats** 6 **Elevation** 113 (m) / ft

Directions or nearby Mile marker:

Measured Slope 0 ° 0 %

Measured Aspect 0 ° (N = 0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- X Low level (terrace)
- X Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
X *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated X Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- X Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- __ Moderately well drained
- __ Somewhat poorly X drained
- X Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 100 % Litter, duff
- ____ % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Early successional forest of Liquidambar styraciflua and Acer rubrum, with closer to the NT, Betula nigra. Generally, the same suite of species inhabit the understory in addition to Ilex verticillata and Cornus amomum. Juncus effusus is the most abundant herb.

Comments

Disturbance and animal use comments: Given the current age of the forest the site was likely a field 7-10 years ago.

NPS GULF COAST PROJECT: ***Plot Sampling Form*** 246

County: Lee **Park:** NATR **Plot Code:** WP6 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2			
Understory T3			
Tall shrub S1	2-5m	90%	Liqu sty - 60%, Acer rub - 20%
Short shrub S2	1-2m	60%	Alnu ser - 20%, Acer rub - 20%, Liqu sty - 10%
Herbaceous		50%	Junc eff - 40%
Non-vascular	—	—	
Vine/liana		10%	Camp rad - 10%

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Betula nigra, Lobelia cardinalis, Heteranthera reniformis, Cirsus altissimum, Onoclea sensibilis, entourage of mosquitos

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
			8	5			9	Liqu sty		
			6	6			7	Acer rub		
				6			6	Alnu ser		
					7		7	Junc eff		
						6	6	Camp rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** = NATR.247

County: Lee Park: NATR Plot Code: WPA State: AL (MS) TN Location org: NPS CEGL006011

Location name _____ **Provisional community name** ~~[illegible]~~ successional loblolly pine - oak forest

Survey date: 9/22/05 **Surveyors:** Al Schotz

Datum WGS 84 UTM Lat/Long (decimal degrees): 349633 N 3808615 W

GPS File Name W177 **Coordinate accuracy** 8 (m) ft **DOP** _____ **# sats** 5 **Elevation** 189 (m) / ft

Directions or nearby Mile marker:

Measured Slope 5 ° ____ %

Measured Aspect 130 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam X Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Early advanced successional loblolly pine forest, with a prominence of oak (Quercus alba, Q. falcata) and hickory (mostly Carya alba) in the sub-canopy. Liriodendron and Liquidambar are also present but are generally sparse. Shrub layer is open; herb component is sparse.

Comments

Disturbance and animal use comments: Lonicera japonica present but sparse.

NPS GULF COAST PROJECT: ***Plot Sampling Form*** 247

County: Lee **Park:** NATR **Plot Code:** [illegible] **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	50%	Pinu tae - 50%	.5-1m	10%
Understory T3	10-15m	60%	Quer fal - 20%, Quer alb - 20%, Nyss syl - 10%	1-2m	20%
Tall shrub S1	2-5m	60%	Cary alb - 30%, Corn flo - 20%	2-5m	30%
Short shrub S2	.5-1m	10%		5-10m	40%
Herbaceous	—	—	herb layer very sparse, ca. 2% coverage	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	10%	Viti rot - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
		6					6	Quer fal		
		6					6	Quer alb		
		5					5	Nyss syl		
			7				7	Cary alb		
			6				6	Corn flo		
						5	5	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** = NATR-248 **Page** 1

County:_____ **Park:** NATR **Plot Code:** ~~U245~~ **State:** AL (MS) TN **Location org:** NPS

Location name Hwy 25 JCT NATR **Provisional community name** PINUS TAEDA MATURE STAND CEGL006011

Survey date: 9/22/05 **Surveyors:** E. LUNSFORD, AMINA RANGOONWALA, ELIJAH RAMSEY

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 388066 N 3829838 W

GPS File Name U245 **Coordinate accuracy** ____ m / ft **DOP** ____ **# sats** ____ **Elevation** ____ m / ft

Directions or nearby Mile marker: JUST W of JCT 125 + NATR

Measured Slope

FLAT ____ %

Measured Aspect

____ ° (N=0°)

Topographic Position

? _ Interfluve (Ridge, summit or crest)
_ High Slope (upper slope, convex slope)
_ Midslope (middle slope)
_ Lowslope (lower slope, footslope)
_ Toeslope (alluvial toeslope)
? _ Low level (terrace)
_ Channel bed

Cowardin System ✓ *Upland*: XERIC (DRY-MESIC) : MESIC
_ *Palustrine* _ *Lacustrine* _ *Riverine*:
_ Permanently flooded _ Semipermanently flooded _ Temporarily flooded
_ Seasonally flooded _ Saturated _ Irregularly flooded

Soil texture:
_ Sand _ Sandy loam
_ Sandy clay loam
_ Loam _ Silt loam
_ Silt/ Silty clay loam
_ Silty clay _ Clay
_ Muck _ Peat

Drainage:
_ Rapidly drained
_ Well drained
_ Moderately well drained
_ Somewhat poorly drained
_ Poorly drained
_ Very poorly drained

Ground cover

__% Bedrock
__% Large rocks (cobbles, boulders >10cm)
__% Small rocks (gravel, 0.2-10 cm)
__% Sand (0.1-2 mm)
95 % Litter, duff
5 % Wood (> 1 cm)
__% Water
__% Bare soil
__% Bryophyte/lichen
__% Other _____

Leaf type:
_ Broad-leaved
✓ Needle-leaved
_ Graminoid
_ Broad-leaved herbaceous
_ Pteridophyte
_ Mixed

Leaf phenology (dominant stratum)
✓ Evergreen
_ Cold-deciduous
_ Mixed evergreen-cold-deciduous
_ Herb - Annual
_ Herb - Perennial

Physiognomic Class
✓ Forest (closed tree canopy)
_ Woodland (open tree canopy)
_ Shrubland
_ Dwarf Shrubland
_ Herbaceous (less than 25% woody layers)
_ Nonvascular
_ Sparse Vegetation

Qualitative description of Community

MATURE LOBLOLLY PINE STAND, BUT NOT A PLANTATION. CHARCOAL ON BARK MAY INDICATE MANAGEMENT of STAND (OR ACCIDENTAL WILDFIRE). IN THIS 16.3M RADIUS PLOT, LOBLOLLY IS THE SOLE CANOPY SP, WITH INCIDENTAL AMOUNTS of SWEETGUM + BLACK CHERRY IN SUB-CANOPY. ON THE EDGE of Hwy 25.

Comments

Disturbance and animal use comments: FIRE EVIDENCE ON NE SIDE of TRUNKS

NPS GULF COAST PROJECT: ***Plot Sampling Form*** 248

County:_____ **Park:** NATR **Plot Code:** ~~U245~~ **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	* DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35	(75%) 80%	PINU TAE	.5-1m	10%
Understory T3	15-20	(15) 20%	LIQU STY	1-2m	20%
Tall shrub S1	2-5	10%	LIQU STY / LIRI	2-5m	30%
Short shrub S2	1-2	50%	VITIS ROT, SASS, SMIL ROT	5-10m	40%
Herbaceous		~~70~~ 70%	~~5~~. LONI JAP	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8						8	PINU TAE		
		5	4				6	LIQU STY		
		5						PRUN SER		
			4					LIRI TUL		
				7		4	7	VITI ROT		
				4				SASS ALB		
					(5)			LONI JAP)		
				4	~~5~~			SMIL ROT		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form* = NATR. 241

County:_____ Park: NATR Plot Code: 4254 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** ALNUS SER SHRUBLAND 8474

Survey date: 9/22/05 **Surveyors:** E LUNSFORD, A. RANGOONWALA, E. R[illegible]

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees) 386535 N 3822905 8 W

GPS File Name U254 **Coordinate accuracy** 4 m / ft **DOP** _____ **# sats** _____ **Elevation** 1 m / ft

Directions or nearby Mile marker:

Measured Slope
FLAT ____ %

Measured Aspect
N/A ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- ✓ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
✓*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand __Sandy loam
__Sandy clay loam
__Loam __Silt loam
__Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
__Well drained
__Moderately well drained
__Somewhat poorly drained
__Poorly drained
✓Very poorly drained

Ground cover
__ __% Bedrock
__ __% Large rocks (cobbles, boulders >10cm)
__ __% Small rocks (gravel, 0.2-10 cm)
__ __% Sand (0.1-2 mm)
____% Litter, duff
____% Wood (> 1 cm)
____% Water
____% Bare soil
____% Bryophyte/lichen
____% Other _____

Leaf type:
✓Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)
__Evergreen
✓Cold-deciduous
__Mixed evergreen-cold-deciduous
__Herb - Annual
__Herb - Perennial

Physiognomic Class
__Forest (closed tree canopy)
__Woodland (open tree canopy)
✓Shrubland
__Dwarf Shrubland
__Herbaceous (less than 25% woody layers)
__Nonvascular
__Sparse Vegetation

Qualitative description of Community
WET EDGE of WOODS ON N SIDE of PKWY

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form*** 249

County:_____ **Park: NATR** **Plot Code:** 1254 **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1		60%	ALNUS SER	2-5m	30%
Short shrub S2	1-2m			5-10m	40%
Herbaceous		100%		10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
			7					ALNUS SERRULATA		
					5			IMPAT CAP		
					4			BOEHMERIA CYLINDRICA		
					5			AMPH BRA		
			4					SAMB CAN		
					6			APIOS AME		
					6			POLYG SAG		
					7			SOLIDAGO		
			4					FRAX PEN		
			0					ACER RUB TRY NEARBY		
				0			(5)	LONI JAP		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%

COVER of 0 CAN INDICATE A SPECIES OUTSIDE THE PLOT BUT NEARBY

NPS GULF COAST PROJECT: ***Plot Sampling Form*** 4:30pm =NATR 250 **Page 1**

County:_____ **Park:** NATR **Plot Code:** 4248 **State:** AL (MS) TN **Location org:** NPS

Location name _____ **Provisional community name** UNEVEN-AGED LOBLOLLY PINE STAND W/ SHORTLEAF CEGL006011

Survey date: 9/22/05 **Surveyors:** E LUNSFORD A RANGOONWALA, E RAMSEY

Datum _WGS 84_ **Lat/Long (decimal degrees):** UTM 385422 **N** 3827403 **W**

GPS File Name 4248 **Coordinate accuracy** 4 (m) ft **DOP** ____ **# sats** 6-7 **Elevation** 188 m / ft

Directions or nearby Mile marker:

Measured Slope
GENTLE ____ %

Measured Aspect
_____ ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- ✓ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System ✓ *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 95 % Litter, duff
- 5 % Wood (> 1 cm)
- __ % Water
- __ % Bare soil
- __ % Bryophyte/lichen
- __ % Other _____

Leaf type:
- __ Broad-leaved
- ✓ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- ✓ Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- __ Forest (closed tree canopy)
- ✓ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

AN UNEVEN-AGED PINE STAND W/ MATURE LOBLOLLY (& TRACE SHORTLEAF) IN CANOPY, & OTHERS IN SUBCANOPY.

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form*** 250

County:_____ **Park:** NATR **Plot Code:** 4748 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35	60%	PINU TAE	.5-1m	10%
Understory T3	15-20	30%	LIRI TUL, ACER RUB	1-2m	20%
Tall shrub S1	2-5	20%	QUER SPP, ACER RUB	2-5m	30%
Short shrub S2	1-2	30%	VITI ROT, SMILGLA	5-10m	40%
Herbaceous			—	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	4							PINU TAE		
	3	3						PINU ECH		
		5	4					ACER RUB		
		5						LIRI TUL		
			4					VACC ARB		
			4					QUER SAL		
				5				SMILAX GLAU		
				5				VITIS ROT		
		3	4					UNI VIR		
		3						OXYDENDRUM ARB SOURWOOD		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** (NATR-025)

County:_____ **Park:** NATR **Plot Code:** ~~U249~~ **State:** AL (MS) TN **Location org:** NPS

Location name _____ **Provisional community name** 6011

Survey date: 9/22/05 **Surveyors:** E. LUNSFORD

Datum _WGS 84_ **~~Lat/Long~~ (decimal degrees):** UTM 385100 **N** 3826129 **W**

GPS File Name U249 **Coordinate accuracy** 4 (m)/ft **DOP** ____ **# sats** ____ **Elevation** 140 (m)/ft

Directions or nearby Mile marker:

Measured Slope

FLAT ____ %

Measured Aspect

_____ ° (N=0°)

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- ✓ Low level (terrace)
- __ Channel bed

Cowardin System ✓*Upland*: XERIC : DRY-MESIC : MESIC

__*Palustrine* __*Lacustrine* __*Riverine*:

__Permanently flooded __Semipermanently flooded __Temporarily flooded

__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:

__Sand __Sandy loam

__Sandy clay loam

__Loam __Silt loam

__Silt/ Silty clay loam

__Silty clay __Clay

__Muck __Peat

Drainage:

__Rapidly drained

__Well drained

__Moderately well drained

__Somewhat poorly drained

__Poorly drained

__Very poorly drained

Ground cover

___% Bedrock

___% Large rocks (cobbles, boulders >10cm)

___% Small rocks (gravel, 0.2-10 cm)

___% Sand (0.1-2 mm)

98 % Litter, duff

2 % Wood (> 1 cm)

____% Water

____% Bare soil

____% Bryophyte/lichen

____% Other _____

Leaf type:

__Broad-leaved

✓Needle-leaved

__Graminoid

__Broad-leaved herbaceous

__Pteridophyte

__Mixed

Leaf phenology (dominant stratum)

✓Evergreen

__ Cold-deciduous

__ Mixed evergreen-cold-deciduous

__ Herb - Annual

__ Herb - Perennial

Physiognomic Class

✓Forest (closed tree canopy)

__ Woodland (open tree canopy)

__ Shrubland

__ Dwarf Shrubland

__ Herbaceous (less than 25% woody layers)

__ Nonvascular

__ Sparse Vegetation

Qualitative description of Community

PATCH of WOODS BTWN ROAD + YOUNG PINE PLANTATION (5m — 3-5cm DBH)

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:** NATR-251 **State: AL (MS) TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35	60%	PINU TAE (LIRI TUL, LIQU STY)	.5-1m	10%
Understory T3	15-20	70%	ACER RUB, LIQU STY	1-2m	20%
Tall shrub S1	25	30%	LIQU SIN, ACER RUB	2-5m	30%
Short shrub S2	1-2	20%	LIQU SIN	5-10m	40%
Herbaceous		70%	TOXI RAD, CAMP RAD	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7							PINU TAE		
		7.5					8	ACER RUB		
	4	7						LIQU STY		
			4	4			5	LIQU SIN		
		3						PRUN SER		
					7.5			TOXI RAD		
					7			CAMP RAD		
					6			MICR VIM		
					6			LONI JAP		
	4							LIRI TUL		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** = NATR-252

County:_____ Park: NATR Plot Code: ~~4250~~ State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 7330 Succ. Sweetgum Floodplain Forest

Survey date: 9/22/05 Surveyors: E. LUNSFORD, A. RANGOONWALA & RAMSEY

Datum WGS 84 ~~Lat/Long~~ UTM (decimal degrees): 382882 X 3824460 Y

GPS File Name 4250 Coordinate accuracy _____ m / ft DOP _____ # sats _____ Elevation _____ m / ft

Directions or nearby Mile marker:

Measured Slope
FLAT %

Measured Aspect
_____ ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- ✓ Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
✓ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded ✓ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- ✓ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- __ Moderately well drained
- ✓ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

__ % Bedrock	95 % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders >10cm)	____ % Wood (> 1 cm)	____ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
__ % Sand (0.1-2 mm)	5 % Bare soil	

Leaf type:
- ✓ Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- ✓ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- ✓ Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

MESIC BOTTOMLAND

EVIDENCE of SEASONAL DRAINAGE @ WEST EDGE of PLOT ~~NEARBY~~ — BARE CHANNEL W/ ARUNDINARIA.

Comments

Disturbance and animal use comments: MICROSTEGIUM RAMPANT; SOME PRIVET.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park:** NATR **Plot Code:** ~~U250~~ 252 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35	80%	LIQU STY	.5-1m	10%
Understory T3	15-20	70%	ACER RUB	1-2m	20%
Tall shrub S1	2-5	5%		2-5m	30%
Short shrub S2	1-2	5%	PRIVET	5-10m	40%
Herbaceous		70%	MICR VIM, THEL NOV, BOET CYL	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): CORYLUS AM, DECUMARIA NEARBY, ONOCLEA SOSS, Q. PHELLOS SDLGS, ARUND				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8						8	LIQU STY		
	6						6	LIRI TUL		
	4						4	FRAX PEN		
	4	3					4	ULMU SCAM ?		
		8					8	ACER RUB		
			(2					CORYLUS AM)		
					8		8	MICROS VIM		
					5		5	THEL NOV		
					4		4	BOET CYL		
			4	4			4	LIQU SIN		
(	3						3	PINE TAE)		
					3			DIOSC		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* =NATR-253

County:_____ Park: NATR Plot Code: U251 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name CEGL00 6011

Survey date: 9/22/05 Surveyors: E. LUNSFORD, A. RANGOONWALA, E. RAMSEY

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 382808 (E) 3822932 (N)

GPS File Name U251 Coordinate accuracy 8 (m) ft DOP ____ # sats 5 Elevation 157 (m) ft

Directions or nearby Mile marker:

FROM PKWY TAKE EXIT TO BAY SPRINGS LAKE, BUT GO WEST 100 M. TO PARK

Measured Slope GENTLE 8%

Measured Aspect 0 ° (N=0°)

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- ✓ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System ✓ *Upland*: XERIC : (DRY-MESIC) : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:

__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand __Sandy loam
__Sandy clay loam
__Loam __Silt loam
__Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
__Well drained
✓ Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover

__ % Bedrock	90 % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
__ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
__Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
✓ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
__ Cold-deciduous
✓ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
__ Forest (closed tree canopy)
✓ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

VERY TALL (BUT SOME SKINNY) PINUS TAE SPARSE CANOPY
W/ SCATTERED TULIP POPLAR.
EXTRAORDINARILY DENSE LAYER (10-15M) of DOGWOOD
VERY SPARSE SHRUB + HERB LAYER — THICK LITTER

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form* 253

County:_____ **Park:** NATR **Plot Code:** ~~4251~~ **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	35-50	30%	PINU TAE	.5-1m	10%
Understory T3	20-35	30%	LIRI TUL, OXYD ARB	1-2m	20%
Tall shrub S1	10-15	80%	CORN FLO	2-5m	30%
Short shrub S2	2-5	5%	MIXED	5-10m	40%
Herbaceous & SDLGS		5%	(VITIS SP & OAK SDLGS)	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): (FAGU GRAN – SD) VACCINIUM				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6						6	PINU TAE		
		5					5	OXYDEND ARB		
	4	4					5	LIRI TUL		
			8				8	CORN FLO		
					4		4	VITIS		
					(			DEPARIA, POLYSTACR,)		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form* = NATR. 254 ~~254~~

County: _____ Park: NATR Plot Code: U244 State: AL (MS) TN Location org: NPS CEGL006011

Location name Hwy 25 IN NATR Provisional community name PINUS TAEDA MATURE STAND

Survey date: 9/22/05 Surveyors: E. LUNSFORD, A. RANGOONWALA, E. RAMSEY

Datum WGS 84 UTM ~~Lat/Long~~ (decimal degrees): 3829720 N 388042 W

GPS File Name U244 Coordinate accuracy _____ m / ft DOP _____ # sats _____ Elevation _____ m / ft

Directions or nearby Mile marker:

Measured Slope VERY GENTLE
_____ ° _____ %

Measured Aspect
105 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- ✓ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System ✓ *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- ✓ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- ✓ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

__ % Bedrock	95 % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders >10cm)	5 % Wood (> 1 cm)	____ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
__ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- __ Broad-leaved
- ✓ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- ✓ Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- __ Forest (closed tree canopy)
- ✓ Woodland (open tree canopy) ? OR for
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

MATURE STAND of LOBLOLLY, WITH SOME SHORTLEAF PINE SLIGHTLY MORE OPEN CANOPY THAN U245 (120M AWAY), & MUCH GREATER TALL SHRUB COVER. (LAND BETWEEN THERE IS LESS SMOOTH -- POCKETS of LOWER AREAS — ALMOST REMINESCENT of POCOSINS)

Comments

Disturbance and animal use comments: CHARCOAL EVIDENT ON NE SIDE of TRUNKS EVEN HERE

NPS GULF COAST PROJECT: ***Plot Sampling Form*** = NATR 254

County:_____ **Park:** NATR **Plot Code:** U 244 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35	70%?	PINU TAE (PINU ECH)	.5-1m	10%
Understory T3	15-20	20%	ACER RUB, LIQU STY	1-2m	20%
Tall shrub S1	2-5	40%	LIRI TUL, LIQU STY	2-5m	30%
Short shrub S2	1-2	50%	LIRI TUL, VIT ROT	5-10m	40%
Herbaceous		5%	TOXI RAD	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: *Tree Canopy* | ***T3*** *Subcanopy* | ***S1*** *Tall Shrub (> 1m to 5m)* | ***S2*** *Short Shrub (< 1m)* | ***H*** *Herbaceous* | ***V*** *Vines (lianas)*

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8						8	PINU TAE		
		7					7	ACER RUB		
		5	5				6	LIQU STY		
				7		4	7	VIT ROT		
			6	6			7	LIRI TUL		
				4			4	SMIL ROT		
				4			4	QUER ALB		
				4			4	QUER GAL		
					4		4	TOXI RAD		
	5						5	PINU ECH – ON NE edge of PLOT		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NOT IN DBASE YET (✓ADDED TO FILE 12/1/05) = NATR. 255

County:_____ **Park:** NATR **Plot Code:** ~~4270~~ **State:** AL (MS) TN **Location org:** NPS

Location name _____ **Provisional community name** MIB-SUCCESSIONAL PINE CEGL006011

Survey date: 9/23/05 **Surveyors:** E. LUNSFORD, A. RANGOONWALA, E. RAMSEY

Datum _WGS 84_ UTM ~~Lat/Long~~ (decimal degrees): 382400 X N 3821736 Y W

GPS File Name U270 **Coordinate accuracy** _____ m / ft **DOP** _____ **# sats** _____ **Elevation** _____ m / ft

Directions or nearby Mile marker:

Measured Slope
2 ° ____ %

Measured Aspect
140° ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- ✓ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System ✓ *Upland*: XERIC : (DRY-MESIC) : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- ✓ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- ✓ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 95 % Litter, duff
- 5 % Wood (> 1 cm)
- __ % Water
- __ % Bare soil
- __ % Bryophyte/lichen
- __ % Other _____

Leaf type:
- __ Broad-leaved
- ✓ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- ✓ Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- __ Forest (closed tree canopy)
- ✓ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

UNEVENLY DRAINED AREA — PATCHY TERRACES

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form*** 255

County:_____ **Park:** NATR **Plot Code:** ~~4270~~ **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35	60%	PINU TAE	.5-1m	10%
Understory T3	10-15	60%	OXYD ARB	1-2m	20%
Tall shrub S1	2-5	20%	VACC SP, ACER RUB, (ILEX DEC)	2-5m	30%
Short shrub S2	1-2	5%	(ACER RUB, etc)	5-10m	40%
Herbaceous		5%	CHAS SESS	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8							PINU TAE		
		7						OXY D ARB		
	4							PINU ECH		
			5				5	ACER RUB		
					4			CHASM SESS		
			4					VACC ____ (NOT ARB — STAM??)		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** = NATR-256 **Page** 1

County:_____ **Park:** NATR **Plot Code:** U253 **State:** AL MS TN **Location org:** NPS

Location name _____ **Provisional community name** 7312

Survey date: 9/23/05 **Surveyors:** E. LUNSFORD, A. LANGOONWALA, E. RAMSEY

Datum _WGS 84_ **Lat/Long (decimal degrees):** UTM 381515 **N** 3820445 **W**

GPS File Name U253 **Coordinate accuracy** ____ **m / ft** **DOP** ____ **# sats** ____ **Elevation** ____ **m / ft**

Directions or nearby Mile marker:
JUST N of TURNOUT FOR JOURDAN CREEK @ M 295

Measured Slope
FLAT ____ %

Measured Aspect
____ ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- ✓ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
✓*Palustrine* __*Lacustrine* __*Riverine*:
- __ Permanently flooded
- __ Semipermanently flooded
- __ Temporarily flooded
- __ Seasonally flooded
- __ Saturated
- ✓ Irregularly flooded

Soil texture:
- __ Sand
- __ Sandy loam
- __ Sandy clay loam
- __ Loam
- __ Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay
- ✓ Clay
- __ Muck
- __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- ✓ Poorly drained
- __ Very poorly drained

Ground cover
- ___% Bedrock
- ___% Large rocks (cobbles, boulders >10cm)
- ___% Small rocks (gravel, 0.2-10 cm)
- ___% Sand (0.1-2 mm)
- 90 % Litter, duff
- 5 % Wood (> 1 cm)
- ___% Water
- 5 % Bare soil
- ___% Bryophyte/lichen
- ___% Other _____

Leaf type:
- ✓ Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- ✓ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- ✓ Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

RIVER BIRCH BOTTOM
LEAF LITTER LOOKS LIKE IT IS INUNDATED FOR SOME

TOXI RAD THICK GROUND COVER NEARBY

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form* 256

County:_____ **Park:** NATR **Plot Code:** ~~NA~~53 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	35-50	80%	BETULA NIG, QUER NIG, PLAT OCC, ~~ACER RUB~~	.5-1m	10%
Understory T3	5-10	30%	FRAX PEN, NYSS SYL, LIQU STY, LIQU SIN	1-2m	20%
Tall shrub S1	2-5	20	LIQU SIN	2-5m	30%
Short shrub S2	1-2	10%	LIQU SIN, RUBUS	5-10m	40%
Herbaceous		40%	CAMP RAD, LIQU SIN	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8							BETU NIG		
	5							QUER NIG		
	5							PLAT OCC		
	7							ACER RUB		
		4						FRAX PEN		
		4						NYSS SYL		
		5						LIQU STY		
		4		5				LIQU SIN		
					7			CAMP RAD		
					4			RUBU		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** = NATR-257

County: _____ **Park:** NATR **Plot Code:** 4256 **State:** AL (MS) TN **Location org:** NPS

Location name _____ **Provisional community name** MID SUCCESSIONAL PINE 8462

Survey date: 9/23/05 **Surveyors:** E. LUNSFORD, A. RANGANWALA, E. RAMSEY

Datum _WGS 84_ **UTM Lat/Long (decimal degrees):** 374954 N 3818612 W

GPS File Name 4256 **Coordinate accuracy** _____ m / ft **DOP** _____ **# sats** _____ **Elevation** _____ m / ft

Directions or nearby Mile marker:
± 1KM S of MILE POST 291

Measured Slope 12 ° ___ %

Measured Aspect 170 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- ✓ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System ✓*Upland*: XERIC : DRY-MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- ✓ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- ✓ Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

___ % Bedrock	91 % Litter, duff	___ % Bryophyte/lichen
___ % Large rocks (cobbles, boulders >10cm)	3 % Wood (> 1 cm)	___ % Other _____
___ % Small rocks (gravel, 0.2-10 cm)	___ % Water	
___ % Sand (0.1-2 mm)	___ % Bare soil	

Leaf type:
- __ Broad-leaved
- ✓ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- ✓ Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- __ Forest (closed tree canopy)
- ✓ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

ANOTHER ~~SPARSE~~ PINE STAND W/ MATURING HARDWOOD SPECIES, ~~SPARSE~~ SHRUB LAYER & NEARLY NO HERB LAYER IN THE PINE LITTER
DEEP DRAINAGE GULLY IMMEDIATELY TO NE, W/ TALL LIRI TUL & ACER RUB GROWING OUT OF IT

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:** ~~1256~~ 2557 **State: AL (MS) TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35'	30%	PINU TAE / (PINU ECH)	.5-1m	10%
Understory T3	15-20	80%	CORN FLO, OXYD ARB, LIQU STY	1-2m	20%
Tall shrub S1	2-5	5%	OXYD ARB, LIQU STY	2-5m	30%
Short shrub S2	1-2	45%	(LIQU STY, NYSS SYL)	5-10m	40%
Herbaceous		(1%)	(SMIL GLAUC)	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6						6	PINU TAE (2/3 of CANOPY)		
		7					7	CORN FLO		
		5	3				5	OXYD ARB		
		5	4	4			6	LIQU STY		
5	✓						6	PINU ECH (1/3 of CANOPY)		
				4			4	NYSS SYL		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** = NATR 253

County:_____ **Park:** NATR **Plot Code:** U257 **State:** AL (MS) TN **Location org:** NPS

Location name _____ **Provisional community name** CEGL007142

Survey date: 9/23/05 **Surveyors:** E LUNSFORD, A. RANGOONWALA, E. RAMSEY

Datum WGS 84 ~~Lat/Long~~ UTM **(decimal degrees):** 374591 **N** 3818259 **W**

GPS File Name U257 **Coordinate accuracy** 4 (m) / ft **DOP** ____ **# sats** ____ **Elevation** ____ **m / ft**

Directions or nearby Mile marker:

Measured Slope FLAT %

Measured Aspect ____ ° (N=0°)

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- ✓ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC

✓*Palustrine* __*Lacustrine* __*Riverine*:

__Permanently flooded __Semipermanently flooded __Temporarily flooded

__Seasonally flooded __Saturated ✓Irregularly flooded

Soil texture:

__Sand __Sandy loam
__Sandy clay loam
__Loam __Silt loam
__Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:

__Rapidly drained
__Well drained
__Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover

__% Bedrock	95% Litter, duff	____% Bryophyte/lichen
__% Large rocks (cobbles, boulders >10cm)	____% Wood (> 1 cm)	____% Other _____
__% Small rocks (gravel, 0.2-10 cm)	____% Water	
__% Sand (0.1-2 mm)	5% Bare soil	

Leaf type:

- __Broad-leaved
- ✓Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)

- ✓Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class

- __Forest (closed tree canopy)
- ✓Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

WET (MESIC) BOTTOM LAND

LIZARD TAIL NEARBY

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form*** 255

County:_____ **Park: NATR** **Plot Code:** U257 **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	2035	30%	PINU TAE, LIQU STY, ACER RUB	.5-1m	10%
Understory T3		60%	ACER RUB, LIRI TUL, LIQU STY	1-2m	20%
Tall shrub S1		60%	MAGN VIR, NYSS SYL	2-5m	30%
Short shrub S2		10	ILEX VER	5-10m	40%
Herbaceous		40%	ONOC SENS	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6							PINU TAE		
	4							LIQU STY		
	3							ACER RUB		
			5					NYSS SYL		
				5				ILEX VER		
								LIRI TUL		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form* = NATR-259

County:_____ Park: NATR Plot Code: 4258 State: AL (MS) TN Location org: NPS 8474

Location name _____ **Provisional community name** TAG ~~ALDER~~ SHRUBLAND

Survey date: 9/23/05 **Surveyors:** E LUNSFORD, A. RANGOONWALA, B. RAMSEY

Datum _WGS 84_ UTM ~~Lat/Long~~ (decimal degrees): 373332 N 3817631 W

GPS File Name 4258 **Coordinate accuracy** _____ m / ft **DOP** _____ **# sats** _____ **Elevation** _____ m / ft

Directions or nearby Mile marker:
N. of SILOAM SPRING

Measured Slope
FLAT ° ____ %

Measured Aspect
_____ ° (N = 0°)

Topographic Position
__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
✓ Low level (terrace)
__ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
✓*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded ?✓Saturated __Irregularly flooded

Soil texture:
__Sand __Sandy loam
__Sandy clay loam
__Loam __Silt loam
__Silt/ Silty clay loam
__Silty clay __Clay
✓Muck __Peat
?

Drainage:
__Rapidly drained
__Well drained
__Moderately well drained
__Somewhat poorly drained
__Poorly drained
✓Very poorly drained

Ground cover
__ __% Bedrock
__ ✓% Large rocks (cobbles, boulders >10cm)
✓ __% Small rocks (gravel, 0.2-10 cm)
__ __% Sand (0.1-2 mm)
✓ ____% Litter, duff
__ ✓% Wood (> 1 cm)
✓ ✓% Water
✓ ____% Bare soil
____% Bryophyte/lichen
____% Other _____

Leaf type:
✓Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)
__Evergreen
✓Cold-deciduous
__Mixed evergreen-cold-deciduous
__Herb - Annual
__Herb - Perennial

Physiognomic Class
__ Forest (closed tree canopy)
__ Woodland (open tree canopy)
✓ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

VERY WET SHRUBLAND 2-15M HIGH
– WE OBSERVED FROM ELEVATED ROADSIDE –
STANDING WATER IN CHANNELS (THROUGHOUT?)
ALONG EDGE, HERB LAYER WAS DENSE W/ JEWEL WEED, SOLIDAGO ALT, + ~~EQUI~~ cyl.

Comments

Disturbance and animal use comments:

✓ERP 12/5/05

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR-259

County:_____ **Park:** NATR **Plot Code:** 4258 **State:** AL MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35	5%	NYSS BIF, PLAT OCC	.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1	5-10	80%	ALNUS SER	2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous		?	IMPATIENS → SOLID ALT., BOEH CYL	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): JUNCUS sp. SALIX NIG				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
			9					ALNUS SER		
	3							NYSS BIF		
	3							PLAT OCC		
					5?			IMPAT CAP		
					5?			SOLI ALT (SYN = SOLI. canadensis var. scabra)		
					5?			BOEH CYL.		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NATCHEZ TRACE PARKWAY

NATURESERVE FIELD FORMS

NATR.260 - NATR.388

SEPTEMBER & OCTOBER 2005

VEGETATION CLASSIFICATION OF

NATCHEZ TRACE PARKWAY

NATR.260

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: _____ Park: NATR Plot Code: AS78 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name ~~YAAT~~ CEGL00210Z

Survey date: 9/30/05 Surveyors: AJ Schotz

Datum _WGS 84_ UTM ~~Lat/Long~~ (decimal degrees): 264633 N 3663719 W

GPS File Name AS78 Coordinate accuracy 70 m / ft DOP _____ # sats 8 Elevation 165 (m) / ft

Directions or nearby Mile marker:
Roughly 340 meters north of Hurricane Creek, 20 meters west of the NT.

Measured Slope
0 ° 0 %

Measured Aspect
0 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- X Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded Saturated __Irregularly flooded

Soil texture:
- __Sand __Sandy loam
- __Sandy clay loam
- __Loam __Silt loam
- __Silt/ Silty clay loam
- X Silty clay __Clay
- __Muck __Peat

Drainage:
- __Rapidly drained
- __Well drained
- __Moderately well drained
- __Somewhat poorly drained
- X Poorly drained
- __Very poorly drained

Ground cover

__ __% Bedrock	90 % Litter, duff	____% Bryophyte/lichen
__ __% Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____% Other _____
__ __% Small rocks (gravel, 0.2-10 cm)	____% Water	
__ __% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mature oak (primarily Quercus phellos) bottomland forest. The scrub layer is generally quite open, with the exception of patches of giant cane (Arundinaria gigantea). Ponding is evident throughout.

Comments

Surrounding vegetation is the same as that in the plot.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: MS78 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	30-35m	70%	Quer phe - 50%
Understory T3	10-15m	40%	Ulmu ame - 10%, Frax pen - 10%
Tall shrub S1	2-5m	10%	-
Short shrub S2	1-2m	10%	-
Herbaceous	1-2m	30%	Arun gig - 30%
Non-vascular	-	-	
Vine/liana	-	-	

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Acer saccharinum, Sambucus canadensis, Quercus nigra, Quercus michauxii, Quercus lyrata

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Quer phe		
		5					5	Ulmu ame		
		5					5	Frax pen		
					7		7	Arun gig		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.261 Page 1

County:_____ Park: NATR Plot Code: AS79 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** 4745 (East Gulf Coastal Plain Beech Floodplain Forest)

Survey date: 9/30/05 **Surveyors:** Al Schotz

Datum WGS 84 UTM **Lat/Long (decimal degrees):** 264331 N 3663388 W

GPS File Name AS79 **Coordinate accuracy** 8 (m) / ft **DOP** _____ **# sats** 6 **Elevation** 167 (m) / ft

Directions or nearby Mile marker:
Route 35 miles north of Hurricane Creek, west side of NT.

Measured Slope 0.0 %

Measured Aspect 0 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System *Upland*: XERIC : DRY-MESIC : MESIC
X *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated X Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- __ Moderately well drained
- X Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 80 % Litter, duff
- 20 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Small, but very nice example of bottomland forest, perhaps offering a glimpse as to what early explorers may have encountered in the region. Tall, straight specimens of Quercus michauxii, Carya ovata, Fagus grandifolia, Ulmus alata, Liquidambar styraciflua, and others characterize the site. The shrub layer is relatively open, making way for a rich diversity of herbs.

Comments Just south of Hurricane Creek the elevation increases accounting for a change in vegetation, including a well pronounced pine component (natural trail goes through area). Beyond remaining boundaries is similar to plot.

Disturbance and animal use comments: Some Ligustrum sinense observed, but sparse.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: _____ **Park:** NATR **Plot Code:** AS79 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	Liqu sty-20%, Fagu gra-20%, Ulmu ala-20%	.5-1m	10%
Understory T3	10-Km	40%	Fagu gra-10%, Quer mic-10%	1-2m	20%
Tall shrub S1	2-5m	20%	Carp car-20%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous	—	50%	Care dig-10%, Mitc rep-10%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Asimina triloba, Carya ovata, Triphora trianthophora, Chasmanthium latifolium, Pinus taeda, Arundinaria gigantea				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6						6	Liqu sty		
	6	5					6	Fagu gra		
	6						6	Ulmu ala		
		5					5	Quer mic		
			6				6	Carp car		
					5		5	Care dig		
					5		5	Mitc rep		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.262

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS80 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 4771

Survey date: 9/30/05 Surveyors: Al Schotz

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 261740 N 3661539 W

GPS File Name AS80 Coordinate accuracy 8 (m) / ft DOP _____ # sats 5 Elevation 154 (m) / ft

Directions or nearby Mile marker:
Roughly 450 meters NE of Mile Marker 162, NW side of NT.

Measured Slope 0 ° 0 %

Measured Aspect 0 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- X Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
X *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated X Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
X Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
__ Well drained
X Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
__ % Bedrock
__ % Large rocks (cobbles, boulders >10cm)
__ % Small rocks (gravel, 0.2-10 cm)
__ % Sand (0.1-2 mm)
50 % Litter, duff
30 % Wood (> 1 cm)
__ % Water
__ % Bare soil
__ % Bryophyte/lichen
__ % Other _____

Leaf type:
X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community
Mid- to late-successional sweetgum/water oak bottomland forest.

Comments Surrounding area is same as plot vegetation.

Disturbance and animal use comments: Ligustrum sinense and Lonicera japonica observed, but generally sparse.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: ASBO State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	~~20~~ 35m	70%	Liqu sty - 40%, Quer nig - 30%	.5-1m	10%
Understory T3	10-15m	40%	Ulmu ame - 10%, Liqu sty - 10%	1-2m	20%
Tall shrub S1	2-5m	30%	Carp car - 10%	2-5m	30%
Short shrub S2	1-2m	20%		5-10m	40%
Herbaceous		20%	Toxi rad - 10% (poststate)	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana		10%	Toxi rad - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Fraxinus pennsylvanica, Quercus pagoda, Polygonum virginianum, Acer rubrum				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	5					7	Liqu sty		
	7						7	Quer nig		
		5					5	Ulmu ame		
			5				5	Carp car		
					5	5	6	Toxi rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.263

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS81 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 7330 (Successional swamp tupelo-bottomland forest)

Survey date: 9/30/05 Surveyors: Al Schotz

Datum _WGS 84_ ~~Lat/Long~~ (decimal degrees): 2580779 N 3657920 W ?

GPS File Name AS81 Coordinate accuracy 9 (m) / ft DOP _____ # sats 5 Elevation ~~149~~ 141 (m) / ft

Directions or nearby Mile marker:
Just west of exit for Rosciusko, south side of NT.

Measured Slope 0.0 %

Measured Aspect 0 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
X *Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated X Irregularly flooded

Soil texture:
__Sand __Sandy loam
__Sandy clay loam
__Loam __Silt loam
__Silt/ Silty clay loam
X Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
__Well drained
__Moderately well drained
__Somewhat poorly drained
X Poorly drained
__Very poorly drained

Ground cover

__% Bedrock	50 % Litter, duff	____% Bryophyte/lichen
__% Large rocks (cobbles, boulders >10cm)	20 % Wood (> 1 cm)	____% Other _____
__% Small rocks (gravel, 0.2-10 cm)	____% Water	
__% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
X Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

Tall, lanky, mid-successional bottomland forest primarily comprised of Liquidambar styraciflua. Other canopy components include Pinus taeda, Fraxinus pennsylvanica, and Quercus nigra, but are much more sparsely distributed. The understory and shrub layers are open; however, Ligustrum sinense is beginning to encroach upon some areas. Site was recently inundated (likely a result of Hurricanes Katrina/Rita), as suggested by the silt-laden leaf litter.

Comments

1

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:** AS81 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	Ligu sty-50%, Fraxpen-20%	.5-1m	10%
Understory T3	10-15m	50%	Ligu sty-10%, Ulmu ame-20%	1-2m	20%
Tall shrub S1	2-5m	20%	Ligu sin-20%	2-5m	30%
Short shrub S2	1-2m	10%	Ligu sin-10%	5-10m	40%
Herbaceous	–	–	parse, roughly 5% coverage	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana	–	–		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Quercus nigra, Acer rubrum				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8	5					8	Ligu sty		
	6						6	Frax pen		
		6					6	Ulmu ame		
			6	5			6	Ligu sin		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.264

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ Park: NATR Plot Code: AS82 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** 4771 (East Gulf Coastal Plain oak-sweetgum small stream floodplain forest)

Survey date: 9/30/05 **Surveyors:** AJ Schotz

Datum __WGS 84__ ~~Lat/Long~~ UTM (decimal degrees): 288603 N 3657596 W

GPS File Name AS82 **Coordinate accuracy** 6 (m) / ft **DOP** _____ **# sats** 6 **Elevation** 136 (m) / ft

Directions or nearby Mile marker:
Approximately 230 meters NNE of Mile Marker 159, east side of NT.

Measured Slope 0 ° 0 %

Measured Aspect 0 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- X Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
X *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated X Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- X Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- X Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 10 % Litter, duff
- 10 % Wood (> 1 cm)
- 80 % Water
- __ % Bare soil
- __ % Bryophyte/lichen
- __ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mature, mid-successional bottomland primarily comprised of Liquidambar styraciflua and, in slightly lesser abundance, Quercus nigra and Fraxinus pennsylvanica. Quercus phellos and Quercus lyrata are also present in the canopy, but generally sparse. The ground was inundated, likely a result of Hurricanes Katrina and Rita.

Comments A scattering of loblolly pine was observed about 50-60 meters ESE of plot, but overall surrounding vegetation is similar to that of plot.

Disturbance and animal use comments: Ligustrum sinense is becoming dense in areas.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:** ASS2 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	Liqu sty - 30%, Quer nig - 20%	.5-1m	10%
Understory T3	10-15m	40%	Frax pen - 10%, Ulmu spp. - 10%	1-2m	20%
Tall shrub S1	2-5m	30%	—	2-5m	30%
Short shrub S2	1-2m	20%	—	5-10m	40%
Herbaceous	—	40%	Saur cer - 10%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	10%	Toxi rad - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Quercus phellos, Quercus lyrata, Lobelia cardinalis				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Liqu sty		
	6						6	Quer nig		
		5					5	Frax pen		
		5					5	Ulmu ame		
					5		5	Saur cer		
						5	5	Toxi rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.265

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS83 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** 8450 (successional loblolly pine-oak forest)

Survey date: 9/30/05 **Surveyors:** Al Schotz

Datum WGS 84 Coordinates (decimal degrees): 257596 N 3656605 W

GPS File Name AS83 **Coordinate accuracy** 6 (m) ft **DOP** _____ **# sats** 7 **Elevation** 171 (m) ft

Directions or nearby Mile marker:

Measured Slope 0.0 %

Measured Aspect 0 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- X Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
__*Palustrine* __*Lacustrine* · __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
- __Sand __Sandy loam
- __Sandy clay loam
- __Loam __Silt loam
- X Silt/ Silty clay loam
- __Silty clay __Clay
- __Muck __Peat

Drainage:
- __Rapidly drained
- __Well drained
- __Moderately well drained
- X Somewhat poorly drained
- __Poorly drained
- __Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Young successional loblolly pine/water oak/sweetgum forest. While vast majority of forest is early-successional, some large (relatively so) willow oak, water oak, and loblolly are also present, but generally widely dispersed. Site is a bottomland, subjected intermittent flooding and/or ponding.

Comments Upon moving further away from plot and NT Parkway, loblolly pine disappears; pines appear to be primarily restricted near the parkway and are seemingly patchy in occurrence. Area surrounding plot, is, for the most part, similar to the plot

Disturbance and animal use comments: Ligustrum sinense and Lonicera japonica are quite severe in places.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:** AS83 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20m	80%	Pinu tae-30%, Liqu sty-30%, Quer nig-20%	5-1m	10%
Understory T3	5-10m	50%	Liqu sty-30%, Acer rub-10%	1-2m	20%
Tall shrub S1	2-5m	30%	Liqu stm-30%	2-5m	30%
Short shrub S2	1-2m	10%	Liqu stm-10%	5-10m	40%
Herbaceous		10%	Toxi rad-10% (assumes prostrate growth)	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Berc sca	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
	7	7					8	Liqu sty		
	6						6	Quer nig		
		5					5	Acer rub		
			7	5			7	Liqu stm		
					5		5	Toxi rad		
						5	5	Berc sca		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR.266 Page 1

County:_____ Park: NATR Plot Code: AS84 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** 6011 (early- to mid-successional loblolly pine forest)

Survey date: 9/30/05 **Surveyors:** AJ Schotz

Datum WGS 84 UTM ~~Lat/Long~~ (decimal degrees): 257351 N 3656090 W

GPS File Name AS84 **Coordinate accuracy** 6 (m) / ft **DOP** _____ **# sats** 6 **Elevation** 1500 (m) / ft

Directions or nearby Mile marker:
Just north of Mile Marker 158, ca. 40 meters east of WT.

Measured Slope 6 ° 0 %

Measured Aspect 6 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- X Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- ___ % Bedrock
- ___ % Large rocks (cobbles, boulders >10cm)
- ___ % Small rocks (gravel, 0.2-10 cm)
- ___ % Sand (0.1-2 mm)
- 100 % Litter, duff
- ____ % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- X Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

A dense, early-successional loblolly pine forest, with a dense understory of sweetgum and red maple.

Comments Surrounding area appears identical to plot vegetation.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code** AS84 **State: AL (MS) TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	10-15m	80%	Pinu tae - 80%
Understory T3	5-10m	60%	Ligu sty - 30%, Acer rub - 20%
Tall shrub S1	2-5m	30%	Ligu sty - 20%, Acer rub - 10%
Short shrub S2	1-2m	10%	—
Herbaceous		10%	Toxi rad - 10% (assumes prostrate growth)
Non-vascular	—	—	
Vine/liana		10%	Toxi rad - 10%

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	9						9	Pinu tae		
		7	6				8	Ligu sty		
		6	5				7	Acer rub		
					5	5	6	Toxi rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR.267 **Page** 1

County:_____ **Park:** NATR **Plot Code:** A358 **State:** AL (MS) TN **Location org:** NPS

Location name _____ **Provisional community name** ? CEGL002102

Survey date: 9/28/05 **Surveyors:** AJ Schotz

Datum _WGS 84_ **Lat/Long (decimal degrees):** 29 90 27 N 371 47 2 W (UTM)

GPS File Name A358 **Coordinate accuracy** 60 m / ft **DOP** ____ **# sats** 7 **Elevation** _____ m / ft

Directions or nearby Mile marker:

Measured Slope 0 ° 0 %

Measured Aspect ___ ° (N = 0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- X Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
- __Sand __Sandy loam
- __Sandy clay loam
- __Loam __Silt loam
- __Silt/ Silty clay loam
- X Silty clay __Clay
- __Muck __Peat

Drainage:
- __Rapidly drained
- __Well drained
- __Moderately well drained
- __Somewhat poorly drained
- X Poorly drained
- __Very poorly drained

Ground cover

__% Bedrock	90 % Litter, duff	____% Bryophyte/lichen
__% Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____% Other _____
__% Small rocks (gravel, 0.2-10 cm)	____% Water	
__% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Bottomland forest composed of mature Quercus phellos and Quercus lyrata canopy. Other than the aforementioned canopy species, Fraxinus pensylvanica and Quercus nigra also occur but are sparse. Shrub layer is sparse, with the exception of small patches of Crataegus. Rhyndosia gigantea is patchy (not in plot). Ponding is also evident.

Comments Roughly 20 meters NW is the NT; ca. 50 meters SE of plot is young pine plantation; remaining area beyond plot is same as plot.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: _____ **Park:** NATR / **Plot Code:** AS58 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	Quer phe - 50%, Quer lyr - 20%	.5-1m	10%
Understory T3	10-15m	40%	Quer lyr - 20%, Ulmu ame - 10%	1-2m	20%
Tall shrub S1	2-5m	10%		2-5m	30%
Short shrub S2	1-2m		sparse, ca. 5% coverage	5-10m	40%
Herbaceous		10%	Saur cer - 10%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Brunnichia ovata, Lobelia cardinalis, Fraxinus pennsylvanica				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Quer phe		
	6	6					7	Quer lyr		
		5					5	Ulmu ame		
					5		5	Saur cer		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.268

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: A357 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name CEGL007353

Survey date: 9/28/05 Surveyors: Al Schotz

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 299945 N 3712357 W

GPS File Name A357 Coordinate accuracy 8 (m) / ft DOP _____ # sats 6 Elevation 157 (m) / ft

Directions or nearby Mile marker:

Measured Slope 0 ° 0 %

Measured Aspect 0 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC __*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
- __Sand __Sandy loam
- __Sandy clay loam
- __Loam __Silt loam
- X Silt/ Silty clay loam
- __Silty clay __Clay
- __Muck __Peat

Drainage:
- __Rapidly drained
- __Well drained
- __Moderately well drained
- X Somewhat poorly drained
- __Poorly drained
- __Very poorly drained

Ground cover
- __ __% Bedrock
- __ __% Large rocks (cobbles, boulders >10cm)
- __ __% Small rocks (gravel, 0.2-10 cm)
- __ __% Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____% Water
- ____% Bare soil
- ____% Bryophyte/lichen
- ____% Other _____

Leaf type:
- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Bottomland forest characterized by Quercus pagoda, Liriodendron tulipifera, Quercus nigra, and some Pinus taeda in the canopy. White stone large trees exist the forest is mid-aged.

dominated by Liquidambar & Fraxinus pennsylvanica

Comments

To the northside of the plot the forest in younger, perhaps no more than 25 years of age, whereas to the south of plot the forest is much more mature with a mix of oak and other hardwoods. West side - ca. 20 meters from plot is open field and east side roughly 20 meters from plot is NT Parkway.

Disturbance and animal use comments: Lonicera japonica is present, but sparse.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park:** NATR **Plot Code:** AS57 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	60%	Quer pag - 30%, Liri tul - 20%, Pinu tae - 10%	.5-1m	10%
Understory T3	15-20m	40%	Quer pag - 10%, Liqu sty - 20%	1-2m	20%
Tall shrub S1	2-5m	20%		2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous		20%	Toxi rad - 20% (prostrate)	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Toxi rad - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	5						5	Pinu tae		
	7	5					7	Quer pag		
	6						6	Liri tul		
		6					6	Liqu sty		
					6	5	6	Toxi rad		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR.269 **Page** 1

County:_____ **Park:** NATR **Plot Code** A355 **State:** AL (MS) TN **Location org:** NPS

Location name _____ **Provisional community name** 7353 (sweetgum - cherrybark oak floodplain forest)

Survey date: 9/28/05 **Surveyors:** AJ Schotz

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 301922 N 3715631 W

GPS File Name A355 **Coordinate accuracy** 8 (m) / ft **DOP** ____ **# sats** 6 **Elevation** 165 (m) / ft

Directions or nearby Mile marker:

Measured Slope 0.0 %

Measured Aspect 0 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- X Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
- __Sand __Sandy loam
- __Sandy clay loam
- __Loam __Silt loam
- X Silt/ Silty clay loam
- __Silty clay __Clay
- __Muck __Peat

Drainage:
- __Rapidly drained
- __Well drained
- X Moderately well drained
- __Somewhat poorly drained
- __Poorly drained
- __Very poorly drained

Ground cover

___% Bedrock	60% Litter, duff	____% Bryophyte/lichen
___% Large rocks (cobbles, boulders >10cm)	40% Wood (> 1 cm)	____% Other _____
___% Small rocks (gravel, 0.2-10 cm)	____% Water	
___% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mature bottomland forest characterized by a prominence of Quercus pagoda and Quercus nigra, with Pinus taeda, Carya ovata occurring less frequently. Some ponding is apparent. and

Comments Roughly 50 meters southwest of plot mature loblolly pine becomes dominant; ca. 25 meters to the NNE is low-cut field; areas beyond remaining boundaries are same as plot.

Disturbance and animal use comments: Lonicera japonica is present, but sparse.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:** T355 **State: AL (MS) TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	30-35m	70%	Quer pag-20%, Quer nig-20%, Cary ovata-10%	.5-1m	10%
Understory T3	10-15m	40%	Cary ovata-10%, Quer pag-10%, Quer alb-20%	1-2m	20%
Tall shrub S1	2-5m	20%	Cary ovata-10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous		10%		10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	10%		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Pinus taeda, Nyssa sylvatica, Diospyros virginiana, Liquidambar styraciflua, Fraxinus americana				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6	5						Quer pag		
	6							Quer nig		
	5	5						Cary ovata		
		6						Quer alb		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.270

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ Park: NATR Plot Code: ATS53 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 4771 (East Gulf Coastal Plain oak-sweetgum small stream floodplain forest)

Survey date: 9/28/05 Surveyors: Al Schotz ext 5/8/06

Datum WGS 84 ~~NAD 27~~ (decimal degrees): 34.6014 30.6014 N 87.21843 W

GPS File Name ATS53 Coordinate accuracy 10 (m)/ ft DOP _____ # sats 6 Elevation 183 (m)/ ft

Directions or nearby Mile marker:

Measured Slope 0.0 %

Measured Aspect 0 ° (N = 0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
X *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated X Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- X Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

__ % Bedrock	70 % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders > 10cm)	30 % Wood (> 1 cm)	____ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
__ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Bottomland forest with meandering low gradient stream. Although Quercus nigra and Liquidambar styraciflua appear most abundant, Quercus pagoda, Quercus phellos, and Pinus taeda are also frequent, but didn't fall within plot. Toxicodendron radicans is common vine and ground cover.

Comments Roughly 20 meters east of plot is manicured lawn and NT Parkway; remaining boundaries are bordered by similar vegetation to that of plot.

Disturbance and animal use comments: Stream has been channelized. Microstegium vimineum is sporadic along stream.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: _____ **Park:** NATR **Plot Code:** AS53 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	60%	Quer nig -30%, Liqu sty -30%	.5-1m	10%
Understory T3	15-20m	50%	Liqu sty -30%, Acer rub -20%	1-2m	20%
Tall shrub S1	2-5m	20%	Ostr vir -10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous	—	—	sparse, ca. 5% coverage	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Toxi rad -10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Quercus pagoda, Quercus phellos, Chasmanthium latifolium, Pinus taeda				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Quer nig		
	7	7					8	Liqu sty		
		6					6	Acer rub		
			5				5	Ostr vir		
						5	5	Toxi rad		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NATR.271

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: A352 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** 7244 (southern red oak-white oak mixed forest)

Survey date: 9/28/05 **Surveyors:** Al Schotz

Datum WGS 84 ~~Lat/Long~~ (decimal degrees): 306570 N 3722416 W

GPS File Name A352 **Coordinate accuracy** 11 (m) / ft **DOP** _____ **# sats** 5 **Elevation** 182 (m) / ft

Directions or nearby Mile marker:

Measured Slope 4 ° ____ %

Measured Aspect 170 ° (N=0°)

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC

__ *Palustrine* __ *Lacustrine* __ *Riverine*:

__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded __ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:

__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:

- X Rapidly drained
- __ Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:

- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)

- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class

- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Very nice site! Mature oak forest dominated by Quercus alba and Quercus falcata, and to a lesser extent, Carya alba and Liquidambar styraciflua. Pinus echinata is also present, but very sparse. Some of the white oaks are impressive in terms of size and stature; straight boled with heights over 100 ft.

Comments

Disturbance and animal use comments: Area encompassing plot is ~~the~~ same as plot.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:** AS52 **State: AL (MS) TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	Quer alb-30%, Quer fal-38%	.5-1m	10%
Understory T3	15-20m	50%	Quer alb-20%, Liqu sty-20%	1-2m	20%
Tall shrub S1	2-5m	40%		2-5m	30%
Short shrub S2	1-2m	30%	Toxi rad-20% (assumes shrub growth form)	5-10m	40%
Herbaceous	—	—	Pasky, ca. 2% coverage	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Toxi rad-10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	6					7	Quer alb		
	7						7	Quer fal		
		6					6	Liqu sty		
				6		5	7	Toxi rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.272 Page 1

County:_____ Park: NATR Plot Code: A350 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** 7246 (dry acid eastern coastal plain oak-hickory forest

Survey date: 9/28/05 **Surveyors:** AJ Schatz

Datum WGS 84 Lat/Long (decimal degrees): 31 19 89 N 87 34 751 W

GPS File Name A350 **Coordinate accuracy** 9 (m) / ft **DOP** _____ **# sats** 6 **Elevation** 130 (m) / ft

Directions or nearby Mile marker:

Measured Slope 2 ° ____ %

Measured Aspect 80 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- X Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 100 % Litter, duff
- ____ % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mature Quercus stellata/Quercus falcata forest accented by a small amount of Pinus echinata. No pine regeneration is apparent. Sub-canopy is relatively open, w/ear the tall shrub layer is fairly dense, with a 20-30% coverage, often patchy. Toxicodendron radicans (not much in plot) and Vitis rotundifolia are common vines.

Comments Vegetation encompassing plot is similar to plot.

Disturbance and animal use comments: No exotics observed.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:** AS50 **State: AL (MS) TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20m	70%	Quer ste - 30%, Quer fal - 20%, Pinu ech - 10%	.5-1m	10%
Understory T3	5-10m	30%	Quer ste - 10%; Carya alb - 10%	1-2m	20%
Tall shrub S1	2-5m	20%	Carya alb - 10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous	—	—	very sparse, ca. 3% coverage	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Viti rot - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	5					7	Quer ste		
	6						6	Quer fal		
	5						5	Pinu ech		
		5	5				6	Cary alb		
						5	5	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.273 Page 1

County:_____ Park: NATR Plot Code: AS49 State: AL (MS) TN Location org: NPS 4052

Location name _____ Provisional community name 8450 successional hilly pine-oak forest

Survey date: 9/28/05 Surveyors: AJ Schatz CEGL006052

Datum _WGS 84_ Easting (decimal degrees): 312758 N 3736818 W

GPS File Name AS49 Coordinate accuracy 8 (m) / ft DOP ____ # sats 6 Elevation 127 (m) / ft

Directions or nearby Mile marker:

Measured Slope 4 ° ____ %

Measured Aspect 186° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- X Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

__ % Bedrock	90 % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
__ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Late-successional pine forest, with various hardwoods (Quercus falcata, Liquidambar styraciflua) reaching the canopy. The sub canopy and shrub layer are dominated by hardwoods, most commonly Liquidambar.

Comments Surrounding area is same as plot.

Disturbance and animal use comments: Evidence of logging ca. 5-7 years ago. Lonicera japonica present, but sparse.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:** A549 **State: AL (MS) TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	50%	Pinu tae-20%, Pinu ech-20%	.5-1m	10%
Understory T3	15-20m	50%	Quer vel-20%, Liqu sty-20%	1-2m	20%
Tall shrub S1	2-5m	40%	Liqu sty-20%, Ulmu ala-10%	2-5m	30%
Short shrub S2	1-2m	20%	Liqu sty-10%	5-10m	40%
Herbaceous		20%	Toxi rad-20% (plants prostrate)	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	10%	"	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: *Tree Canopy* | ***T3*** *Subcanopy* | ***S1*** *Tall Shrub (>1m to 5m)* | ***S2*** *Short Shrub (< 1m)* | ***H*** *Herbaceous* | ***V*** *Vines (lianas)*

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6						6	Pinu tae		
	6						6	Pinu ech		
		6					6	Quer vel		
		6	6	5			7	Liqu sty		
			5				5	Ulmu ala		
					5		5	Toxi rad		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR.274 Page 1

County:_____ Park: NATR Plot Code: AS48 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** 6011 (early- to mid-successional loblolly pine forest)

Survey date: 9/28/05 **Surveyors:** Al Schotz

Datum WGS 84 Lat/Long (decimal degrees): 312855 N 3737339 W

GPS File Name AS48 **Coordinate accuracy** 9 (m) / ft **DOP** _____ **# sats** 5 **Elevation** 135 (m) / ft

Directions or nearby Mile marker:

Measured Slope 0 ° 0 %

Measured Aspect 0 ° (N = 0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand __Sandy loam
__Sandy clay loam
__Loam __Silt loam
__Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
__Well drained
__Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders > 10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- __Broad-leaved
- X Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)
- X Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Even-aged, mid- to late-successional loblolly/ shortleaf pine forest with sub-canopy of Liquidambar styraciflua and Acer rubrum.

Comments Encompassing plot is pine forest similar to plot vegetation.

Disturbance and animal use comments: Some Lonicera japonica is present, but sparse.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park:** NATR **Plot Code:** AS48 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	50%	Pinu tae - 30%, Pinu ech - 20%	.5-1m	10%
Understory T3	5-12m	60%	Acer rub - 30%, Liqu sty - 30%	1-2m	20%
Tall shrub S1	2-5m	30%	Acer rub - 20%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous	–	–	herb layer very sparse - ca. 3% coverage	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana		–		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
	6						6	Pinu ech		
		7	6				7	Acer rub		
		7					7	Liqu sty		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR.275

County: _____ **Park:** NATR **Plot Code:** AS46 **State:** AL (MS) TN **Location org:** NPS

Location name _____ **Provisional community name** 7246 (dryish) eastern coastal plain oak-hickory forest

Survey date: 9/28/05 **Surveyors:** Al Schotz

Datum WGS 84 ~~Lat/Long~~ (decimal degrees): 3B493 N 3739793 W

GPS File Name AS46 **Coordinate accuracy** 11 (m) / ft **DOP** _____ **# sats** 5 **Elevation** 126 (m) / ft

Directions or nearby Mile marker:

Measured Slope 5 ° _____ %

Measured Aspect 90 ° (N = 0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- X Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

__ __ % Bedrock	90 % Litter, duff	____ % Bryophyte/lichen
__ __ % Large rocks (cobbles, boulders > 10cm)	10 % Wood (> 1 cm)	____ % Other _____
__ __ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
__ __ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mature oak-hickory forest characterized by Quercus stellata, Quercus falcata, Carya ovata, Carya glabra, and a scattering of Pinus echinata and Pinus taeda.

Comments Manicured lawn and NT about 20 meters to the west; beyond remaining boundaries are oak-hickory forest, similar to plot.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: _____ **Park:** NATR **Plot Code:** AS46 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	60%	Quer ste - 30%, Cary ovata - 20%	.5-1m	10%
Understory T3	15-20m	40%	Ulmu ala - 20%, Cary ova... - 10%	1-2m	20%
Tall shrub S1	2-5m	50%	Frax amer - 20%, Ilex lon - 20%	2-5m	30%
Short shrub S2	1-2m	10%	Toxi rad - 10% (assumes shrub form)	5-10m	40%
Herbaceous	–	–	sparse, ca. 5% coverage	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana		10%	Viti rot - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Quer ste		
	6	5					6	Cary ovata		
		6					6	UlmuAla		
			6				6	Frax ame		
			6				6	Ilex lon		
				5			5	Toxi rad		
						5	5	Viti rot		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NATR.276

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS45 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name CEGL004771

Survey date: 9/28/05 Surveyors: AJ Schotz

Datum WGS 84 Lat/Long (decimal degrees): 313943 N 3740931 W

GPS File Name AS45 Coordinate accuracy 8 (m) / ft DOP _____ # sats 5 Elevation 179 (m) / ft

Directions or nearby Mile marker:

Measured Slope 0.0 %

Measured Aspect 0 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC __*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded __Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
- __Sand __Sandy loam
- __Sandy clay loam
- __Loam __Silt loam
- __Silt/ Silty clay loam
- X Silty clay __Clay
- __Muck __Peat

Drainage:
- __Rapidly drained
- __Well drained
- X Moderately well drained
- __Somewhat poorly drained
- __Poorly drained
- __Very poorly drained

Ground cover
- __% Bedrock
- __% Large rocks (cobbles, boulders >10cm)
- __% Small rocks (gravel, 0.2-10 cm)
- __% Sand (0.1-2 mm)
- 100% Litter, duff
- ____% Wood (> 1 cm)
- ____% Water
- ____% Bare soil
- ____% Bryophyte/lichen
- ____% Other _____

Leaf type:
- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

An interesting assemblage of canopy species in a codominance of Quercus velutina and Quercus phellos, with a scattering of mature Pinus taeda. The pine appears to be native to habitat and large with broad crowns. The understory is dense with Toxicodendron radicans, Ulmus alata, Carya spp., and Smilax rotundifolia serving as principal species. Site is classified as an oak flat.

Comments Northwest side of plot is maintained lawn and NT Parkway; remaining boundaries are similar to plot veg.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: _____ **Park:** NATR **Plot Code:** 0345 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20m	70%	Quer rel-30%, Quer phe-30%	.5-1m	10%
Understory T3	10-15m	30%	Quer rel-20%	1-2m	20%
Tall shrub S1	2-5m	50%	Ulmu ala-30%, Cary alb-10%	2-5m	30%
Short shrub S2	.5-1m	60%	Toxi rad-60% (assumes shrub form)	5-10m	40%
Herbaceous	–	–	sparse - ca. 3-4% coverage	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana		10%	Toxi rad-10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Pinus taeda (native to habitat type), Quercus falcata, Quercus pagoda				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	6						Quer rel		
	7							Quer phe		
			7					Ulmu ala		
			5					Cary alb		
				8		5	8	Toxi rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR_277

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ Park: NATR Plot Code: AS44 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 6011 (early- to mid-successional loblolly pine forest)

Survey date: 9/28/05 Surveyors: Al Schotz

Datum WGS 84 Lat/long (decimal degrees): 3146 50 N 37 42 312 W

GPS File Name AS44 Coordinate accuracy 7 (m) ft DOP _____ # sats 5 Elevation 121 (m) ft

Directions or nearby Mile marker:

Measured Slope 4 ° ____ %

Measured Aspect 10 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- X Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 80 % Litter, duff
- 20 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mid- to late-successional loblolly pine forest, with an understory of sweetgum.

Comments Ca. 50 meters to the north is pasture; remaining boundaries are same as plot.

Disturbance and animal use comments: Small gullies as a result of erosion (no longer active) are apparent in plot and elsewhere.

County:_____ Park: NATR Plot Code: AS44 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	40%	Pinu tae - 40%	.5-1m	10%
Understory T3	10-15m	60%	Liqu sty - 30%, Juni vir - 20%	1-2m	20%
Tall shrub S1	2-5m	30%	Liqu sty - 20%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous		10%	Chas ses - 10%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Toxi rad - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
		7	6				7	Liqu sty		
		6					6	Juni vir		
					5		5	Chas ses		
						5	5	Toxi rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.278

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ Park: NATR Plot Code: A342 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name ? CEGL004771

Survey date: 9/28/05 Surveyors: AJ Schotz

Datum WGS 84 UTM Easting (decimal degrees): 315264 N 3742954 W

GPS File Name A342 Coordinate accuracy 9 (m) ft DOP _____ # sats 6 Elevation 134 (m) ft

Directions or nearby Mile marker:

Measured Slope 0.0 %

Measured Aspect 0 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- X Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated X Irregularly flooded

Soil texture:
- __Sand __Sandy loam
- __Sandy clay loam
- __Loam __Silt loam
- __Silt/ Silty clay loam
- X Silty clay __Clay
- __Muck __Peat

Drainage:
- __Rapidly drained
- __Well drained
- __Moderately well drained
- X Somewhat poorly drained
- __Poorly drained
- __Very poorly drained

Ground cover
- __ __% Bedrock
- __ __% Large rocks (cobbles, boulders >10cm)
- __ __% Small rocks (gravel, 0.2-10 cm)
- __ __% Sand (0.1-2 mm)
- 20 % Litter, duff
- 20 % Wood (> 1 cm)
- ____% Water
- ____% Bare soil
- ____% Bryophyte/lichen
- ____% Other _____

Leaf type:
- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Quercus phellos / Quercus laurifolia flat associated with a stream (ca. 60 meters south of stream). Other canopy species include Carya ovata, Quercus alba, Quercus michauxii, and Fraxinus pennsylvanica. The herbaceous component is fairly rich, with Aster lateriflorus appearing most numerous. Site appears to be frequently ponded as witnessed during the survey. Very nice site, but plenty of mosquitoes.

Comments Area surrounding plot is identical to plot vegetation.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park:** NATR **Plot Code:** AS42 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	60%	Quer phe-40%, Quer fal-20%	.5-1m	10%
Understory T3	10-15m	30%	Fraxpen-10%, Ulmu ame-10%	1-2m	20%
Tall shrub S1	2-5m	30%	Ulmu ame-10%, Cary ovata-10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous		20%	Aste lat-10%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Toxi rad-10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Quercus michauxii, Quercus alba, Carya ovata, Carpinus caroliniana, Lobelia cardinalis, Arundinaria gigantea				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Quer phe		
	6						6	Quer fal		
		5					5	Frax pen		
		5	5				6	Ulmu ame		
			5				5	Cary ovata		
					5		5	Aste lat		
						5	5	Toxi rad		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NATR.279

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ Park: NATR Plot Code: AS41 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** 6011 (early- to mid-successional loblolly pine forest)

Survey date: 9/28/05 **Surveyors:** AI Schatz

Datum WGS 84 ~~UTM~~ **Lat/Long (decimal degrees):** 316330 N 3744392 W

GPS File Name AS41 **Coordinate accuracy** 9 m / ft **DOP** _____ **# sats** 4 **Elevation** _____ m / ft

Directions or nearby Mile marker:
NW quadrant of NT and Hwy. 384 junction.

Measured Slope 0 ° 0 %

Measured Aspect 0 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- X Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- X Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 50 % Litter, duff
- 20 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mid- to late-successional loblolly pine forest, with sweetgum serving as a prominent subcanopy species. Sweetgum is roughly 3/4 the height of the pine.

Comments Surrounding area is similar to plot vegetation.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:** AS41 **State: AL (MS) TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	40%	Pinu tae - 40%	.5-1m	10%
Understory T3	10-15m	60%	Liqu sty - 60%	1-2m	20%
Tall shrub S1	2-5m	20%	Liqu sty - 20%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous	—	—	very sparse - roughly 2% coverage	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: *Tree Canopy* | ***T3*** *Subcanopy* | ***S1*** *Tall Shrub (> 1m to 5m)* | ***S2*** *Short Shrub (< 1m)* | ***H*** *Herbaceous* | ***V*** *Vines (lianas)*

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
		8	6				8	Liqu sty		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NATR_280

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: _____ **Park:** NATR **Plot Code:** AS40 **State:** AL (MS) TN **Location org:** NPS

Location name _____ **Provisional community name** 6011 (early- to mid-successional loblolly pine forest)

Survey date: 9/28/15 **Surveyors:** AJ Schotz

Datum WGS 84 ~~UTM~~ (decimal degrees): 31.6483 N 89.4467 W

GPS File Name AS40 **Coordinate accuracy** 10 m / ft **DOP** _____ **# sats** 5 **Elevation** 140 m / ft

Directions or nearby Mile marker:

Measured Slope 3 ° ____ %

Measured Aspect 120 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

__ % Bedrock	90 % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
__ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Late successional loblolly pine forest with a prominence of sweetgum in the understory.

Comments

Same forest type encompassing plot.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park:** NATR **Plot Code:** AS40 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	60%	Pinu tae - 60%	.5-1m	10%
Understory T3	15-20m	40%	Liqu sty - 30%	1-2m	20%
Tall shrub S1	2-5m	20%	Ulmu ala - 10%	2-5m	30%
Short shrub S2	1-2m		sparse, ca. 5% coverage	5-10m	40%
Herbaceous	–	–	very sparse, 2-3% coverage	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana	–	10%	Toxi rad - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8						8	Pinu tae		
		7					7	Liqu sty		
			5				5	Ulmu ala		
						5	5	Toxi rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.281

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS86 State: AL (MS) TN Location org: NPS 6011

Location name _____ Provisional community name ~~Jan 30~~ (successional loblolly pine-oak forest)

Survey date: 10/17/05 Surveyors: Al Schotz

Datum _WGS 84_ ~~UTM~~ g (decimal degrees): 256182 N 3652134 W

GPS File Name AS86 Coordinate accuracy 7 (m) / ft DOP ____ # sats 5 Elevation 169 (m) ft

Directions or nearby Mile marker:

Measured Slope ____° ____ %

Measured Aspect ____° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Lake-successional loblolly pine - hardwood (mainly sweetgum & water oak) forest. Sub-canopy and tall shrub layers are fairly dense, while short shrub and herb layers are sparse.

Comments Vegetation surrounding plot is same as plot.

Disturbance and animal use comments: Lonicera japonica is present, but not severe.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: A386 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m^2 area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	40%	Pinu tae - 40%	.5-1m	10%
Understory T3	15-20m	60%	Liqu sty - 20%, Quer nig - 30%	1-2m	20%
Tall shrub S1	2-5m	70%	Ulmu ala - 30%, Liqu sty - 20%	2-5m	30%
Short shrub S2	1-2m	10%	sparse, ca. 10% coverage	5-10m	40%
Herbaceous		10%		10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Loni jap - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
		6	6				7	Liqu sty		
		7					7	Quer nig		
			6				6	Ulmu ala		
					4		4	Mitr rep		
						5	5	Loni jap		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.282

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS87 State: AL (MS) TN Location org: NPS 6011

Location name _____ Provisional community name ~~Mid~~ Late successional loblolly pine-oak forest

Survey date: 10/17/05 Surveyors: Al Schotz

Datum WGS 84 UTM (decimal degrees): 255763 N 3650428 W

GPS File Name AS87 Coordinate accuracy 9 (m) / ft DOP _____ # sats 6 Elevation 174 (m) / ft

Directions or nearby Mile marker:

Ca. 0.1 road mile north of Holly Hill restaurant ca. 50 feet west of NT.

Measured Slope

6 ° ____ %

Measured Aspect

80 ° (N=0°)

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC

__ *Palustrine* __ *Lacustrine* __ *Riverine*:

__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded

__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:

- __ Sand __ Sandy loam
- __ Sandy clay loam
- X Loam __ Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:

- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

___ % Bedrock	80 % Litter, duff	____ % Bryophyte/lichen
___ % Large rocks (cobbles, boulders >10cm)	20 % Wood (> 1 cm)	____ % Other _____
___ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
___ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:

- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)

- X Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class

- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Late-successional loblolly pine-hardwood (primarily oak) forest.

Comments

Surrounding vegetation is the same as in the plot.

Disturbance and animal use comments:

County:_____ Park: NATR Plot Code: AS87 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	50%	Pinu tae - 50%	.5-1m	10%
Understory T3	15-20m	50%	Quer nig - 20%, Nyss syl - 10%, Quer fal - 10%	1-2m	20%
Tall shrub S1	2-5m	30%	Corn flo - 10%, Acer rub - 10%	2-5m	30%
Short shrub S2	1-2m	–	sparse, ca. 5% coverage	5-10m	40%
Herbaceous	–	–	very sparse, ca. 3% coverage	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana	–	–		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
		6					6	Quer nig		
		5					5	Quer fal		
		5					5	Nyss syl		
			5				5	Corn flo		
			5				5	Acer rub		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.283

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS87A State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name ? CEGL008477

Survey date: 10/17/05 Surveyors: Al Schotz

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 256012 N 3651516 W

GPS File Name AS87A Coordinate accuracy 10 (m) / ft DOP _____ # sats 7 Elevation 156 (m) ft

Directions or nearby Mile marker:
Approximately 0.1 road mile north of Mile Marker 155 ca. 40 feet east of NT.

Measured Slope
0 ° ____ %

Measured Aspect
____ ° (N = 0°)

Topographic Position
__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
__ Low level (terrace)
__ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
X *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded Saturated X Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
X Silt/ Silty clay loam
X Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
__ Well drained
__ Moderately well drained
__ Somewhat poorly drained
X Poorly drained
__ Very poorly drained

Ground cover
__ % Bedrock
__ % Large rocks (cobbles, boulders > 10cm)
__ % Small rocks (gravel, 0.2-10 cm)
__ % Sand (0.1-2 mm)
90 % Litter, duff
10 % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:
X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

Good quality Nyssa biflora swamp forest, with an interesting and diverse assemblage of vegetation in the understory. Nyssa biflora is dominant in the canopy, but a scattering of Quercus nigra, Acer rubrum, and Liquidambar styraciflua is present as well. The shrub layer is characterized by saplings of the foregoing canopy species, as well as Itea virginica, Viburnum nudum, Sambucus canadensis, and, unfortunately, Ligustrum sinense. The herbaceous component is diverse.

Comments Surrounding vegetation is the same as in the plot.

Disturbance and animal use comments: Lonicera japonica and Ligustrum sinense are becoming severe in some places.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS87A State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	Nyss bif-70%	.5-1m	10%
Understory T3	15-20m	30%	Nyss bif-30%	1-2m	20%
Tall shrub S1	2-5m	40%	Nyss bif-10%, Vib nud-10%	2-5m	30%
Short shrub S2	1-2m	20%	Itea vir-10%	5-10m	40%
Herbaceous		70%	Just ova-30%, Saur cer-20%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Juncus effusus, Carex bromoides, Toxicodendron pennsylvanica, Osmunda regalis ssp. spectabilis, Onoclea sensibilis, Lobelia cardinalis				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8	7	5				8	Nyss bif		
			5				5	Vib nud		
				5			5	Itea vir		
					7		7	Just ova		
					6		6	Saur cer		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.284

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS88 State: AL (MS) TN Location org: NPS CEGL006011

Location name _____ **Provisional community name** ~~PLOT~~ (successional loblolly pine-oak forest)

Survey date: 10/17/05 **Surveyors:** Al Schotz

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 255813 N 3648422 W

GPS File Name AS88 **Coordinate accuracy** 7 0 (m) / ft **DOP** _____ **# sats** 6 **Elevation** 153 (m) / ft

Directions or nearby Mile marker:
Roughly 0.15 road miles north of Mile Marker 153 ca. 50 feet east of NT.

Measured Slope
5 ° _____ %

Measured Aspect
10 ° (N=0°)

Topographic Position
__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
X Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
__ Low level (terrace)
__ Channel bed
Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
X Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
___ % Bedrock
___ % Large rocks (cobbles, boulders >10cm)
___ % Small rocks (gravel, 0.2-10 cm)
___ % Sand (0.1-2 mm)
50 % Litter, duff
20 % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:
__ Broad-leaved
X Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
__ Cold-deciduous
X Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community
Late-successional loblolly pine-hardwood forest. Hardwoods, most notably Quercus nigra, have nearly reached the canopy. No pine regeneration was apparent.

Comments Surrounding vegetation is same as that of plot.

Disturbance and animal use comments: Lonicera japonica is relatively common.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: _____ **Park:** NATR **Plot Code:** AS88 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	50%	Pinu tae - 50%	.5-1m	10%
Understory T3	10-15m	50%	Quer nig - 20%, Liqu sty - 10%	1-2m	20%
Tall shrub S1	2-5m	60%	Ulmu ala - 20%, Nyss syl - 10%, Acer rub - 10%	2-5m	30%
Short shrub S2	1-2m	—	sparse, roughly 5% coverage	5-10m	40%
Herbaceous	—	—	very sparse, ca. 3% coverage	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Loni jap - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
		6					6	Quer nig		
		5					5	Liqu sty		
			6				6	Ulmu ala		
			5				5	Nyss syl		
			5				5	Acer rub		
						5	5	Loni jap		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.285

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ Park: NATR Plot Code: AS89 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 6011 (Early to mid-successional loblolly pine forest)

Survey date: 10/11/05 Surveyors: AL Schotz

Datum _WGS 84_ UTM (decimal degrees): 255222 N 3645096 W

GPS File Name AS89 Coordinate accuracy 7 (m)/ ft DOP _____ # sats 7 Elevation 166 (m)/ ft

Directions or nearby Mile marker:
Roughly 300 feet north of mile marker 151 in. 40 feet east of NT.

Measured Slope
0 ° ____ %

Measured Aspect
____ ° (N=0°)

Topographic Position
__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
\ Toeslope (alluvial toeslope)
X Low level (terrace)
__ Channel bed
Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
X Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
___ % Bedrock
___ % Large rocks (cobbles, boulders >10cm)
___ % Small rocks (gravel, 0.2-10 cm)
___ % Sand (0.1-2 mm)
80 % Litter, duff
20 % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:
__ Broad-leaved
X Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
__ Cold-deciduous
X Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community
Pinus taeda forest with a dense understory of hardwoods, most notably Liquidambar styraciflua, Acer rubrum, and Quercus nigra. Quercus pagoda and Ulmus alata are also present, but are more sparsely distributed. Low shrubs and herbs are scarce, likely an artifact of the dense shade cast by the overstory.

Comments Surrounding vegetation is the same as that of plot.

Disturbance and animal use comments: Lonicera japonica and Ligustrum sinense present, but generally sparse.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:** AS89 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	40%	Pinu tae - 40%	.5-1m	10%
Understory T3	15-20m	70%	Liqu sty - 20%, Acer rub - 20%, Quer nig - 10%	1-2m	20%
Tall shrub S1	2-5m	40%	Ulmu ala - 10%, Acer rub - 10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous	–	–	very sparse, ca. 2% coverage	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana		10%	Viti rot - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
		6					6	Liqu sty		
		6	5				6	Acer rub		
		5					5	Quer nig		
			5				5	Ulmu ala		
						5	5	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.286

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS90 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 7179 (loblolly pine plantation)

Survey date: 10/17/05 Surveyors: Al Schotz

Datum _WGS 84_ UTM (decimal degrees): 254548 N 3643686 W

GPS File Name AS90 Coordinate accuracy 7 (m) / ft DOP _____ # sats 6 Elevation 131 (m) / ft

Directions or nearby Mile marker:

Measured Slope 0° ___ %

Measured Aspect ___ ° (N = 0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- X Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- ___ % Bedrock
- ___ % Large rocks (cobbles, boulders > 10cm)
- ___ % Small rocks (gravel, 0.2-10 cm)
- ___ % Sand (0.1-2 mm)
- 100 % Litter, duff
- ____ % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- X Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

A dense, early-successional loblolly pine forest, with some sweetgum attaining height of the canopy. Hardly any vegetation in understory, likely an artifact of dense shade cast by the pines.

Comments Approximately 40 meters north is a mature loblolly pine forest with an understory dominated by sweetgum; remaining boundaries (including across NT) is early-successional loblolly - same as plot.

Disturbance and animal use comments: Chinese privet and Japanese honeysuckle are frequent along margin of forest, adjacent to NT.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:** ASQD **State: AL (MS) TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1	2-5m	100%	Pinus taeda	2-5m	30%
Short shrub S2	1-2	—	very sparse	5-10m	40%
Herbaceous	—	—	very sparse	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
			10				10	Pinu tae		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.287

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ Park: NATR Plot Code: AS91 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 7330 (successional sweetgum floodplain forest)

Survey date: 10/17/05 Surveyors: Al Schotz

Datum WGS 84 UTM (decimal degrees): 253113 N 3641667 W

GPS File Name AS91 Coordinate accuracy 7 (m) / ft DOP _____ # sats 7 Elevation 113 (m) / ft

Directions or nearby Mile marker:
Ca. 0.5 mile north of mile marker 148 ca. 50 feet ESE of NT.

Measured Slope
0 ° ____ %

Measured Aspect
____ ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- X Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated X Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
__ Silt/ Silty clay loam
X Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
__ Well drained
__ Moderately well drained
X Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
__ % Bedrock
__ % Large rocks (cobbles, boulders >10cm)
__ % Small rocks (gravel, 0.2-10 cm)
__ % Sand (0.1-2 mm)
90 % Litter, duff
10 % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:
X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community
Interesting site! A mix of mature Liriodendron tulipifera, Liquidambar styraciflua, and Quercus nigra with some Taxodium distichum var. distichum occurring within the south-southwestern portion of the plot. The shrub layer is, for the most part, relatively open but patchy characterized by Ulmus alata, Carpinus caroliniana, and, unfortunately, Ligustrum sinense. Arundinaria gigantea is the most conspicuous herb, generally occurring in the southern portion of the plot.

Comments A few, large loblolly pine occur along the margin of the NT just WNW of the plot. Baldcypress becomes more prevalent just south of the plot. Remaining boundaries are similar to vegetation in plot.

Disturbance and animal use comments: Ligustrum sinense and Lonicera japonica are common.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS91 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	Quer nig - 20%, Liqu sty - 20%, Lici tul - 10%	.5-1m	10%
Understory T3	15-20m	50%	Liqu sty - 20%, Ulmu ame - 10%	1-2m	20%
Tall shrub S1	2-5m	30%	Ulmu ala - 10%, Carp car - 10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous	'	20%	Arun gig - 10%	10-15m	50%
Non-vascular	—			15-20m	60%
Vine/liana	—	20%	Toxi rad - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Taxodium distichum var. distichum				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6						6	Quer nig		
	6	6					7	Liqu sty		
	5						5	Lici tul		
		5					5	Ulmu ame		
			5				5	Ulmu ala		
			5				5	Carp car		
					6		6	Arun gig		
						5	5	Toxi rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.288

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS92 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 4771 7330

Survey date: 10/17/05 Surveyors: Al Schotz

Datum _WGS 84_ ~~Lat/long~~ UTM (decimal degrees): 250259 N 3637282 W

GPS File Name AS92 Coordinate accuracy 7 0 (m) / ft DOP _____ # sats 6 Elevation 136 (m) ft

Directions or nearby Mile marker:
Approximately 0.25 mile north of Mile Marker 145, east side of NT.

Measured Slope
0 ° ____ %

Measured Aspect
____ ° (N = 0°)

Topographic Position
__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
X Toeslope (alluvial toeslope)
X Low level (terrace)
__ Channel bed
Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand __Sandy loam
__Sandy clay loam
__Loam __Silt loam
X Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
__Well drained
X Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover
__ __% Bedrock
__ __% Large rocks (cobbles, boulders > 10cm)
__ __% Small rocks (gravel, 0.2-10 cm)
__ __% Sand (0.1-2 mm)
100 % Litter, duff
____% Wood (> 1 cm)
____% Water
____% Bare soil
____% Bryophyte/lichen
____% Other _____

Leaf type:
X Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)
__Evergreen
X Cold-deciduous
__Mixed evergreen-cold-deciduous
__Herb - Annual
__Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__Woodland (open tree canopy)
__Shrubland
__Dwarf Shrubland
__Herbaceous (less than 25% woody layers)
__Nonvascular
__Sparse Vegetation

Qualitative description of Community
Bottomland forest represented by a mature canopy of Liquidambar styraciflua, and in lesser abundance, Quercus nigra, Quercus phellos, and Quercus alba. The shrub and herb layers are generally sparse, with Asimina triloba and Polystichum acrostichoides appearing most numerous.

Comments About 30m SSW of plot mature white oak and beech (and a tobolly or two) are frequent; beyond immediate boundaries vegetation is similar to that of plot.

Disturbance and animal use comments: Lonicera japonica is frequent.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS92 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	50%	Liqu sty - 40%	.5-1m	10%
Understory T3	15-20m	40%	Quer nig - 10%, Liqu sty - 10%, Ulmu ala - 10%	1-2m	20%
Tall shrub S1	2-5m	60%	Ostr vir - 20%, Carya ovata - 10%	2-5m	30%
Short shrub S2	1-2m	—	sparse, ca. 5% coverage	5-10m	40%
Herbaceous	—	—	very sparse, ca. 2% coverage	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Loni jap - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Quercus phellos, Asimina triloba, Polystichum acrostichoides				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	5					7	Liqu sty		
		5					5	Quer nig		
		5					5	Ulmu ala		
			6				6	Ostr vir		
			5				5	Cary ovata		
						5	5	Loni jap		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.289

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS93 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 6011 (early- to mid-successional loblolly pine forest)

Survey date: 10/17/05 Surveyors: Al Schotz

Datum WGS 84 UTM (decimal degrees): 250003 N 3636414 W

GPS File Name AS93 Coordinate accuracy 7 (m) ft DOP _____ # sats 6 Elevation 163 (m) ft

Directions or nearby Mile marker:
Ca. 0.3 road miles south of Mile Marker 145 roughly 40 feet east of NT.

Measured Slope
0 ° _____ %

Measured Aspect
_____ ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- X Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
__ % Bedrock
__ % Large rocks (cobbles, boulders >10cm)
__ % Small rocks (gravel, 0.2-10 cm)
__ % Sand (0.1-2 mm)
70 % Litter, duff
30 % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:
__ Broad-leaved
X Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
X Evergreen
__ Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community
Mature Pinus taeda forest with a mid-successional mix of hardwoods, including Liquidambar styraciflua, Acer rubrum, Quercus nigra, and Ulmus alata. Saplings of the above-mentioned canopy species (excluding Pinus taeda) are abundant in the shrub layers, often patchy in distribution. Vines, most notably Vitis rotundifolia and Toxicodendron radicans, serve as a ground cover as well as climb. Herbs are sparse.

Comments Surrounding vegetation is the same as in the plot.

Disturbance and animal use comments: Lonicera japonica is frequent.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:** AS93 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	50%	Pinu tae - 50%	.5-1m	10%
Understory T3	10-15m	60%	Liqu sty - 20%, Quer nig - 20%, Quer vel - 10%	1-2m	20%
Tall shrub S1	2-5m	40%	Acer rub - 10%, Liqu sty - 10%, Ulmu ala - 10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous	–	–	mix grass, ca. 3% coverage	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana		20%	Toxi rad - 10%, Viti rot - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
		6	5				6	Liqu sty		
		6					6	Quer nig		
		5					5	Quer vel		
			5				5	Acer rub		
			5				5	Ulmu ala		
						5	5	Toxi rad		
						5	5	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.290

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS94 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 6011 (early- to mid-successional mostly pine forest)

Survey date: 10/17/05 Surveyors: Al Schotz

Datum _WGS 84_ ~~Lat/Long~~ utm (decimal degrees): 248243 N 3632109 W

GPS File Name AS94 Coordinate accuracy 9 (m) ft DOP _____ # sats 7 Elevation 130 (m) ft

Directions or nearby Mile marker:
Roughly 0.2 road miles south of mile marker 142 ca. 40 feet west of NT.

Measured Slope
0 ° _____ %

Measured Aspect
_____ ° (N=0°)

Topographic Position
- X Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
__ % Bedrock
__ % Large rocks (cobbles, boulders >10cm)
__ % Small rocks (gravel, 0.2-10 cm)
__ % Sand (0.1-2 mm)
90 % Litter, duff
10 % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:
__ Broad-leaved
X Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
X Evergreen
__ Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community
Mature Pinus taeda forest with an early- to mid-successional hardwood component. Liquidambar styraciflua and Acer rubrum appear to be the prominent hardwood species, but others exist as well, including Quercus nigra, Quercus falcata, and Quercus alba. The shrub layers are relatively open.

Comments Acer encompassing plot appears similar to vegetation in plot.

Disturbance and animal use comments: Some Lonicera japonica present, but sparse.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park:** NATR **Plot Code:** AS94 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	60%	Pinu tae - 60%	.5-1m	10%
Understory T3	5-10m	40%	Liqu sty - 20%, Acer rub - 10%	1-2m	20%
Tall shrub S1	2-5m	50%	Liqu sty - 20%, Corn flo - 10%, Vacc arb - 10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous	—	—	Veg sparse, ca. 2% coverage	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8						8	Pinu tae		
		6	6				7	Liqu sty		
		5					5	Acer rub		
			5				5	Corn flo		
			5				5	Vacc arb		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR. 291

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ Park: NATR Plot Code: AS95 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name ~~84C~~ Mid- to late-successional loblolly pine - sweetgum forest

Survey date: 10/17/05 Surveyors: AI Schotz CEGL008450

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 247962 N 3625774 W

GPS File Name AS95 Coordinate accuracy 8 (m)/ ft DOP _____ # sats 6 Elevation 129 (m) ft

Directions or nearby Mile marker:
Ca. 0.1 road mile south of mile Marker 85 on the west side of the NT.

Measured Slope
0 ° ____ %

Measured Aspect
____ ° (N=0°)

Topographic Position
__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
X Low level (terrace)
__ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
__ % Bedrock
__ % Large rocks (cobbles, boulders >10cm)
__ % Small rocks (gravel, 0.2-10 cm)
__ % Sand (0.1-2 mm)
70 % Litter, duff
30 % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:
__ Broad-leaved
X Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
__ Cold-deciduous
X Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

Mature loblolly pine forest, with a mid- to late-successional understory of hardwoods, most notably Liquidambar styraciflua and Quercus nigra. The shrub layers are generally open, but patchy in distribution. Toxicodendron radicans and, to a lesser degree, Lonicera japonica are typical vines often climbing into trees and shrubs, as well as being prostrate on the ground.

Comments Surrounding vegetation is same as that in plot.

Disturbance and animal use comments: Lonicera japonica is fairly common.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AT595 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	40%	Pinu tae - 40%	.5-1m	10%
Understory T3	15-20m	60%	Quer nig - 30%, Ligu sty - 20%	1-2m	20%
Tall shrub S1	2-5m	40%	Ulmu ala - 20%, Ligu sty - 10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous		10%	Toxi rad - 10% (prostrate)	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	20%	Toxi rad - 10%, Loni jap - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
		7					7	Quer nig		
		6	5				6	Ligu sty		
			6				6	Ulmu ala		
					5	5	6	Toxi rad		
						5	5	Loni jap		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.292

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS96 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 6011 (early- to mid-successional loblolly pine forest)

Survey date: 10/18/05 Surveyors: Al Schotz

Datum _WGS 84_ ~~Lat/long~~ utm (decimal degrees): 245807 N 3621618 W

GPS File Name AS96 Coordinate accuracy 10 (m) ft DOP _____ # sats 5 Elevation 128 (m) ft

Directions or nearby Mile marker:
Roughly 300 feet north of State Route 16 exit, east side of NT.

Measured Slope
0 ° ____ %

Measured Aspect
____ ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- ____% Bedrock
- ____% Large rocks (cobbles, boulders >10cm)
- ____% Small rocks (gravel, 0.2-10 cm)
- ____% Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____% Water
- ____% Bare soil
- ____% Bryophyte/lichen
- ____% Other _____

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mature Pinus taeda Forest, with a mid-successional understory comprised of Liquidambar, Ulmus alata, and in lesser abundance Quercus nigra, Acer rubrum, Fagus grandifolia, and Quercus alba. Shrub layers are open. The ground surface is dominated by Toxicodendron radicans (sparse in plot, however).

Comments Surrounding vegetation is similar to that in plot.

Disturbance and animal use comments: Lonicera japonica is present, but sparse.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park:** NATR **Plot Code:** AS96 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	50%	Pinu tae - 50%	.5-1m	10%
Understory T3	10-15m	60%	Liqu sty - 30%, Ulmu ala - 20%	1-2m	20%
Tall shrub S1	2-5m	40%	Fagu gra - 10%, Ilex lon - 10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous	–	–	Hly sparsely cn. 2% coverage	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		20%	Toxi rad - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
		7					7	Liqu sty		
		6					6	Ulmu ala		
			5				5	Fagu gra		
			5				5	Ilex lon		
						5	5	Toxi rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.293

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ Park: NATR Plot Code: AS97 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 4771 (East Gulf Coastal Plain Oak-Sweetgum Small Stream Floodplain Forest)

Survey date: 10/18/05 Surveyors: Al Schotz

Datum _WGS 84_ UTM (decimal degrees): 235135 N 3613564 W

GPS File Name AS97 Coordinate accuracy 9 (m) ft DOP _____ # sats 5 Elevation 83 (m) ft

Directions or nearby Mile marker:
(ca. 0.4 road miles) north of Mile Marker 126 ca. 40 feet west of NT.

Measured Slope
0 ° ____ %

Measured Aspect
_____ ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
X *Palustrine* __ *Lacustrine* · __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated X Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- __ Moderately well drained
- X Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Bottomland Forest dominated by Quercus phellos, with Liquidambar styraciflua, Fraxinus pennsylvanica, and Quercus nigra. Pinus taeda also occupies the canopy, but is very sparse (however, one occurs in plot). The shrub component is open, often in patches, with Ilex longipes and an occasional Sabal minor appearing most representative. Chasmanthium laxum appears to be the most abundant herb, generally assuming a patchy distribution. The site is replete with small depressions that pond during times of heavy rainfall.

Comments Roughly 40 meters north of plot loblolly pine become more numerous. Also some pine just to the northeast of plot (a pine also occurs within plot). West and south sides are same as vegetation in plot.

Disturbance and animal use comments: Forest relatively young (mid- to late-successional) but no apparent disturbance.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park:** NATR **Plot Code:** ASQ7 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	80%	Quer phe-40%, Liqu sty-20%	.5-1m	10%
Understory T3	15-20m	40%	Quer phe-10%, Liqu sty-10%, Ulmu ame-10%	1-2m	20%
Tall shrub S1	2-5m	30%	Ulmu ame-10%, Ilex lon-10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous		20%	Chas lax-10%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Fraxinus pennsylvanica, Quercus lyrata, Sabal minor				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	5					7	Quer phe		
	6	5					6	Liqu sty		
		5	5				6	Ulmu ame		
			5				5	Ilex lon		
					5		5	Chas lax		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.294

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS99 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name CEGL008450

Survey date: 10/18/05 Surveyors: Al Schotz

Datum _WGS 84_ UTM (decimal degrees): 234542 N 3612426 W

GPS File Name AS99 Coordinate accuracy 7 (m) ft DOP _____ # sats 6 Elevation 150 (m) ft

Directions or nearby Mile marker:
Ca. 0.5 road/trail north of Mile Marker 125, 50 feet west of NT.

Measured Slope
2 ° ____ %

Measured Aspect
180 ° (N=0°)

Topographic Position
- _ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- _ Midslope (middle slope)
- _ Lowslope (lower slope, footslope)
- _ Toeslope (alluvial toeslope)
- _ Low level (terrace)
- _ Channel bed

Cowardin System X *Upland*: XERIC : (DRY-MESIC) : MESIC
_ *Palustrine* _ *Lacustrine* : _ *Riverine*:
_ Permanently flooded _ Semipermanently flooded _ Temporarily flooded
_ Seasonally flooded _ Saturated _ Irregularly flooded

Soil texture:
- _ Sand _ Sandy loam
- _ Sandy clay loam
- _ Loam _ Silt loam
- X Silt/ Silty clay loam
- _ Silty clay _ Clay
- _ Muck _ Peat

Drainage:
- _ Rapidly drained
- X Well drained
- _ Moderately well drained
- _ Somewhat poorly drained
- _ Poorly drained
- _ Very poorly drained

Ground cover
- ___ % Bedrock
- ___ % Large rocks (cobbles, boulders >10cm)
- ___ % Small rocks (gravel, 0.2-10 cm)
- ___ % Sand (0.1-2 mm)
- 70 % Litter, duff
- 30 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- _ Needle-leaved
- _ Graminoid
- _ Broad-leaved herbaceous
- _ Pteridophyte
- _ Mixed

Leaf phenology (dominant stratum)
- _ Evergreen
- X Cold-deciduous
- _ Mixed evergreen-cold-deciduous
- _ Herb - Annual
- _ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- _ Woodland (open tree canopy)
- _ Shrubland
- _ Dwarf Shrubland
- _ Herbaceous (less than 25% woody layers)
- _ Nonvascular
- _ Sparse Vegetation

Qualitative description of Community
Mature oak forest with a scattering of Pinus echinata and Pinus taeda. Some blowdown as a result of the recent hurricanes. The shrub layers are patchy. Ground cover is dominated by Lonicera japonica.

Comments Ca. 30 meters NNE of plot forest becomes much younger (young to mid-successional) dominated by sweetgum and some large loblolly. Ca. 40-50 meters SSW of plot mature loblolly is prominent. Remaining sides are same as that in plot.

Disturbance and animal use comments: Lonicera japonica is abundant. Fair amount of blowdown from recent hurricanes.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS99 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	60%	Quer Fal - 20%, Quer nig - 20%, Pinu tae - 10%	.5-1m	10%
Understory T3	10-15m	50%	Liqu sty - 30%, Nyss syl - 10%	1-2m	20%
Tall shrub S1	2-5m	50%	Corn Flo - 20%, Ulmu a/a - 10%, Ilex lon - 10%	2-5m	30%
Short shrub S2	1-2m	-	sparse, ca. 5% coverage	5-10m	40%
Herbaceous		20%	Toni jap - 20% (good future growth)	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Toxi rad - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6						6	Quer Fal		
	6						6	Quer nig		
	5						5	Pinu tae		
		7					7	Liqu sty		
		5					5	Nyss syl		
			6				6	Corn flo		
			5				5	Ulmu a/a		
			5				5	Ilex lon		
					6		6	Toni jap		
						5	5	Toxi rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.295

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS98 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 6011 (early- to mid-successional loblolly pine forest)

Survey date: 10/18/05 Surveyors: AJ Schotz

Datum _WGS 84_ ~~coordinates~~ UTM (decimal degrees): 234817 N 3612561 W

GPS File Name AS98 Coordinate accuracy 10 (m)/ ft DOP _____ # sats 5 Elevation 125 (m)/ ft

Directions or nearby Mile marker:
Roughly 0.3 road miles south of Mile Marker 126, 90 feet east of NT.

Measured Slope 3 ° ____ %

Measured Aspect 200 ° (N=0°)

Topographic Position
- X Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- ___ % Bedrock
- ___ % Large rocks (cobbles, boulders >10cm)
- ___ % Small rocks (gravel, 0.2-10 cm)
- ___ % Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community
Mid- to late-successional Pinus taeda forest, with an early- to mid-successional hardwood understory dominated by Liquidambar styraciflua. Other hardwoods include Acer rubrum, Quercus nigra, Quercus alba, and Nyssa sylvatica, but are much more scarce. The ground cover is relatively sparse and is of low diversity, dominated by sprawling Lonicera japonica.

Comments Surrounding vegetation is the same as that in plot.

Disturbance and animal use comments: Lonicera japonica is common.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS98 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	60%	Pinu tae - 60%	.5-1m	10%
Understory T3	5-10m	50%	Liqu sty - 40%	1-2m	20%
Tall shrub S1	2-5m	40%	Liqu sty - 20%, Vacc ell - 10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous	–	10%	Loni jap - 10% (prostrate)	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana		10%	Viti rot - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8						8	Pinu tae		
		7	6				7	Liqu sty		
			5				5	Vacc ell		
					5		5	Lonj jap		
						5	5	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.296

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS100 State: AL (MS) TN Location org: NPS CEGL006011

Location name _____ Provisional community name ~~84150~~ (successional loblolly pine - oak forest)

Survey date: 10/18/05 Surveyors: Al Schotz

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 229691 N 3607866 W

GPS File Name AS100 Coordinate accuracy 10 (m) / ft DOP _____ # sats 6 Elevation 132 (m) ft

Directions or nearby Mile marker:
Ca. 0.75 road miles southwest of Cypress Swamp Interpretive trail, west side of NT.

Measured Slope 0 ° ____ %

Measured Aspect _____ ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- X Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- ___ % Bedrock
- ___ % Large rocks (cobbles, boulders >10cm)
- ___ % Small rocks (gravel, 0.2-10 cm)
- ___ % Sand (0.1-2 mm)
- 80 % Litter, duff
- 20 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mature Pinus taeda forest with some large trees present. The sub-canopy is represented by various hardwoods, with Liquidambar and Quercus nigra serving as principal species. Ulmus alata, Acer rubrum, Prunus serotina, and Quercus pagoda are also present, but are of secondary importance. The ground surface is dominated by sprawling Lonicera japonica.

Comments Surrounding vegetation is the same as that in plot.

Disturbance and animal use comments: Lonicera japonica is severe.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: _____ **Park:** NATR **Plot Code:** MS100 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	40%	Pinu tae - 40%	.5-1m	10%
Understory T3	15-20m	50%	Liqu sty - 20%, Quer nig - 10%	1-2m	20%
Tall shrub S1	2-5m	40%	Ulmu ala - 20%, Acer rub - 10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous	–	50%	Luni jap - 50% (assumes prostrate growth)	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana		20%	Viti rot - 20%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
		6					6	Liqu sty		
		5					5	Quer nig		
			6				6	Ulmu ala		
			5				5	Acer rub		
					7		7	Luni jap		
						6	6	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.297

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS101 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 6011 (early- to mid-successional loblolly pine forest)

Survey date: 10/18/05 Surveyors: AJ Schotz

Datum _WGS 84_ ~~Lat/Long~~ utm (decimal degrees): 226142 N 3606378 W

GPS File Name AS101 Coordinate accuracy 8 (m) / ft DOP _____ # sats 6 Elevation 104 (m) / ft

Directions or nearby Mile marker:
Ca. 200 feet northeast of Mile Marker 119, northwest side of NT.

Measured Slope
1 ° ____ %

Measured Aspect
180 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- X Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- ___ % Bedrock
- ___ % Large rocks (cobbles, boulders >10cm)
- ___ % Small rocks (gravel, 0.2-10 cm)
- ___ % Sand (0.1-2 mm)
- 70 % Litter, duff
- 30 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community
Mature loblolly pine forest, with a mid-successional hardwood component dominated by Ulmus alata and, to a lesser degree, Liquidambar styraciflua and Acer rubrum. Shrub layers are sparse, somewhat patchy. The ground surface is dominated by Lonicera japonica.

Comments Surrounding vegetation is same as that in plot.

Disturbance and animal use comments: Lonicera japonica is abundant.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS101 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	50%	Pinu tae - 50%	.5-1m	10%
Understory T3	10-15m	60%	Ulmu ala-30%, Acer rub-10%, Liqu sty-10%	1-2m	20%
Tall shrub S1	2-5m	10%		2-5m	30%
Short shrub S2	1-2m	–	sparse, roughly 5% coverage	5-10m	40%
Herbaceous	–	40%	Lonijap-40% (assumes prostrate growth)	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana		10%		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
		7					7	Ulmu ala		
		5					5	Acer rub		
		5					5	Liqu sty		
					7		7	Lonijap		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.298

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS102 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 6011 (early to mid-successional loblolly pine forest)

Survey date: 10/18/05 Surveyors: Al Schotz

Datum _WGS 84_ ~~Lat/long~~ UTM (decimal degrees): 221801 N 3603405 W

GPS File Name AS102 Coordinate accuracy 8 (m) / ft DOP _____ # sats 5 Elevation 117 (m) / ft

Directions or nearby Mile marker:
ca. 0.3 road miles south of Mile Marker 116, east side of NT.

Measured Slope
0 ° ___ %

Measured Aspect
___ ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* · __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
___ % Bedrock
___ % Large rocks (cobbles, boulders >10cm)
___ % Small rocks (gravel, 0.2-10 cm)
___ % Sand (0.1-2 mm)
100 % Litter, duff
____ % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:
__ Broad-leaved
X Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
X Evergreen
__ Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community
Mature loblolly pine stand with a mid-successional hardwood understory dominated by sweetgum. Shrub layers are relatively sparse. Ground cover is predominantly composed of Japanese honeysuckle.

Comments Surrounding vegetation is similar to that in plot.

Disturbance and animal use comments: Lonicera japonica is present, but not too bad.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: MS102 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	60%	Pinu tae - 60%	.5-1m	10%
Understory T3	10-15m	40%	Liqu sty - 20%, Quer pag - 10%, Ulmu alA - 10%	1-2m	20%
Tall shrub S1	2-5m	30%	Liqu sty - 20%	2-5m	30%
Short shrub S2	1-2m	–	sparse, ca. 5% coverage	5-10m	40%
Herbaceous		20%	Loni jap - 20% (assumes prostrate growth)	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana		10%	Berc sca - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8						8	Pinu tae		
		6	6				7	Liqu sty		
		5					5	Quer pag		
		5					5	Ulmu alA		
					6		6	Loni jap		
						5	5	Berc sca		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.299

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS103 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 8450 (Successional loblolly pine-oak forest)

Survey date: 10/18/05 AM Surveyors: AL Schotz

Datum WGS 84 Lat/long (decimal degrees): 219004 N 3601556 W

GPS File Name AS103 Coordinate accuracy 6 (m) / ft DOP _____ # sats 7 Elevation 115 (m) / ft

Directions or nearby Mile marker:
Ca. 0.4 road miles south of Mile Marker 11, west side of NT.

Measured Slope 3 ° ____ %

Measured Aspect 90 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam X Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 70 % Litter, duff
- 30 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

A mature, mixed loblolly pine-hardwood forest characterized by a prominence of Pinus taeda, Quercus nigra, Fraxinus americana, and Quercus pagoda in the canopy. The understory layers are dense, typically patchy in distribution. Lonicera japonica dominates the ground cover; forbs are sparse.

Comments Just to the north of plot is a small opening (ca. 175 m²) characterized by early- to mid-successional hardwoods. Otherwise, surrounding vegetation is similar to that in plot.

Disturbance and animal use comments: Lonicera japonica is quite common. Some blowdown as a result of the recent hurricanes.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS103 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	60%	Pinu tae-20%, Quer nig-10%, Quer pag-20%	.5-1m	10%
Understory T3	15-20m	40%	Frax ame-20, Quer nig-10%	1-2m	20%
Tall shrub S1	2-5m	50%	Ulmu a/a-20%, Cerc can-10%, Flex lon-10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous	—	20%	Leni jap-10% (assumes prostrate growth)	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6						6	Pinu tae		
	5	5					6	Quer nig		
	5						5	Quer pag		
		6					6	Frax ame		
			6				6	Ulmu a/a		
			5				5	Cerc can		
			5				5	Flex lon		
					5		5	Leni jap		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.300 Page 1

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: W85 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 6011 (early- to mid-successional loblolly pine forest)

Survey date: 10/18/05 Surveyors: AI Schotz

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 775721 N 3594447 W

GPS File Name W85 Coordinate accuracy 10 (m) / ft DOP _____ # sats 5 Elevation 132 (m) / ft

Directions or nearby Mile marker: Approximately 250 feet east of Boyd Site parking area.

Measured Slope 4 ° ____ %

Measured Aspect 260 ° (N = 0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

___ % Bedrock	50 % Litter, duff	____ % Bryophyte/lichen
___ % Large rocks (cobbles, boulders > 10cm)	20 % Wood (> 1 cm)	____ % Other _____
___ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
___ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mature loblolly pine forest with a mid-successional understory of hardwoods, most notably *Fraxinus americana* and *Ulmus alata*. *Ligustrum sinense* is beginning to take over the shrub layers.

Comments Surrounding vegetation appears similar to that in plot.

Disturbance and animal use comments: *Ligustrum sinense* is becoming dense.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ Park: NATR Plot Code: W85 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20m	60%	Pinu tae - 60%	.5-1m	10%
Understory T3	10-15m	40%	Frax ame - 20%, Ulmu a/a - 20%	1-2m	20%
Tall shrub S1	2-5m	30%	Ligu sin - 30%	2-5m	30%
Short shrub S2	1-2m	10%	Ligu sin - 10%	5-10m	40%
Herbaceous	–	–	very sparse, ca. 2% coverage	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana	–	–		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8						8	Pinu tae		
		6					6	Frax ame		
		6					6	Ulmu a/a		
			1 5				7	Ligu sin		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.301

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: W78 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 6011 (early- to mid-successional loblolly pine forest)

Survey date: 10/18/05 Surveyors: AJ Schatz

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 774861 N 3592613 W

GPS File Name W78 Coordinate accuracy 10 (m) / ft DOP _____ # sats 5 Elevation 151 (m) ft

Directions or nearby Mile marker: Access entrance to Ross Barnett Reservoir Overlook

Measured Slope
0 ° ____ %

Measured Aspect
____ ° (N=0°)

Topographic Position
- X Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC / DRY-MESIC / MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- ___ % Bedrock
- ___ % Large rocks (cobbles, boulders >10cm)
- ___ % Small rocks (gravel, 0.2-10 cm)
- ___ % Sand (0.1-2 mm)
- 100 % Litter, duff
- ____ % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- X Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Young- to mid-successional loblolly pine forest. Understory is relatively open, with patches of saplings and shrubs. The ground cover is sparse, often bare patches of poison ivy.

Comments Surrounding area is same as plot.

Disturbance and animal use comments: Lonicera japonica and Ligustrum sinense are beginning to invade; not bad now but will likely get worse.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	10-15m	70%	Pinu tae-70%
Understory T3	5-10m	40%	Quer nig-20%
Tall shrub S1	2-5m	30%	Ulmu ala-10%, Quer nig-10%
Short shrub S2	1-2m	—	sparse, roughly 5% coverage
Herbaceous	—	—	very sparse, ca. 2% coverage
Non-vascular	→	—	
Vine/liana	—	→	

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8						8	Pinu tae		
		6	5				6	Quer nig		
			5				5	Ulmu ala		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.302

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: W73 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 7216 (Successional sweetgum forest)

Survey date: 10/18/05 Surveyors: Al Schotz

Datum _WGS 84_ UTM Lat/Long (decimal degrees): 766061 N 3591683 W

GPS File Name W73 Coordinate accuracy 7 (m) / ft DOP _____ # sats 7 Elevation 126 (m) ft

Directions or nearby Mile marker:
Ca. 0.3 road mile west of Mile Marker 100 ca. 60 feet south of NT.

Measured Slope
0 ° ____ %

Measured Aspect
____ ° (N=0°)

Topographic Position
__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
X Low level (terrace)
__ Channel bed
Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
X Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
__ Well drained
X Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
___% Bedrock
___% Large rocks (cobbles, boulders >10cm)
___% Small rocks (gravel, 0.2-10 cm)
___% Sand (0.1-2 mm)
100 % Litter, duff
____% Wood (> 1 cm)
____% Water
____% Bare soil
____% Bryophyte/lichen
____% Other _____

Leaf type:
X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

Early-successional hardwood forest dominated by Liquidambar. Other hardwoods include Quercus nigra, Quercus pagoda, Acer rubrum, Prunus serotina, and Fraxinus pennsylvanica. Chasmanthium sessiliflorum is dominant in the herb layer.

Comments A relatively large (ca. 12" dbh) loblolly pine is situated roughly 40 meters to the southeast of plot. Otherwise, surrounding vegetation is similar to that in plot.

Disturbance and animal use comments: Lonicera japonica is common.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: WM3 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	10+5m	30%	Liqu sty-20%, Prun ser-10%	.5-1m	10%
Understory T3	5-10m	70%	Liqu sty-30%, Acer rub-20%	1-2m	20%
Tall shrub S1	2-5m	40%	Ulmu ala-20%, Acer rub-10%, Liqu sty-10%	2-5m	30%
Short shrub S2	1-2m	20%	Ulmu ala-10%	5-10m	40%
Herbaceous	—	70%	Chas scs-20%, Dich dic-20%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		30%	Lonj jap-10%, Viti rot-10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6	7	5				8	Liqu sty		
	5						5	Prun ser		
		6	5				6	Acer rub		
			6	5			6	Ulmu ala		
					6		6	Chas scs		
					6		6	Dich dic		
						5	5	Lonj jap		
						5	5	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.303

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ Park: NATR Plot Code: WT3A State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name Shrublands NLCD #51

Survey date: 10/18/05 Surveyors: Al Schotz

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 765177 N 3591404 W

GPS File Name WT3A Coordinate accuracy 5 (m) ft DOP _____ # sats 8 Elevation 125 (m) ft

Directions or nearby Mile marker:
Roughly 0.1 road mile east of mile Parkway just south of NT.

Measured Slope
0 ° ____ %

Measured Aspect
____ ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
- __Sand __Sandy loam
- __Sandy clay loam
- __Loam __Silt loam
- X Silt/ Silty clay loam
- __Silty clay __Clay
- __Muck __Peat

Drainage:
- __Rapidly drained
- __Well drained
- X Moderately well drained
- __Somewhat poorly drained
- __Poorly drained
- __Very poorly drained

Ground cover

___% Bedrock	____% Litter, duff	____% Bryophyte/lichen
___% Large rocks (cobbles, boulders >10cm)	____% Wood (> 1 cm)	____% Other _____
___% Small rocks (gravel, 0.2-10 cm)	____% Water	* completely vegetated
___% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)
- __Evergreen
- X Cold-deciduous
- __Mixed evergreen-cold-deciduous
- __Herb - Annual
- __Herb - Perennial

Physiognomic Class
- __Forest (closed tree canopy)
- __Woodland (open tree canopy)
- X Shrubland
- __Dwarf Shrubland
- __Herbaceous (less than 25% woody layers)
- __Nonvascular
- __Sparse Vegetation

Qualitative description of Community
Baccharis halimifolia - dominated shrubland, interspersed with Schizachyrium scoparium

Comments Ca. 30 meters to the west is mature oak forest; to the south is residential area; to the east ca. 30 meters is a line of young black willow and sycamore; NT is also about 30 meters north, and beyond successional loblolly-hardwood forest.

Disturbance and animal use comments: Rosa bracteata and Lonicera japonica are present; Rosa is relatively common.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park:** NATR **Plot Code:** WM3A **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1	2-5m	70%	Bacc hal - 70%	2-5m	30%
Short shrub S2	1-2	20%	Bacc hal - 20%	5-10m	40%
Herbaceous		60%	Schi sco - 50%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	→		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Panicum virgatum, Helenium autumnale				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
			8	6			8	Bacc hal		
					7		7	Schi sco		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.304

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: W71 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name: 4638 Quercus nigra Forest

Survey date: 10/18/05 Surveyors: AJ Schatz

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 755136 N 3584468 W

GPS File Name W71 Coordinate accuracy 7 (m)/ ft DOP _____ # sats 6 Elevation 105 (m) ft

Directions or nearby Mile marker:
Ca. 0.15 road miles NE of Mile Marker 91, northwest side of NT.

Measured Slope 11 ° ____ %

Measured Aspect 50 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- X Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- ___ % Bedrock
- ___ % Large rocks (cobbles, boulders >10cm)
- ___ % Small rocks (gravel, 0.2-10 cm)
- ___ % Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community
Early to mid-successional hardwood forest dominated by Quercus nigra. Liquidumbar and Prunus sections are also present, but scarce.

Comments All sides, except the north, are bounded fields.

Disturbance and animal use comments: Ligustrum sinense has severely encroached upon site.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ Park: NATR Plot Code: W11 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	10-15m	30%	Quer nig - 30%	.5-1m	10%
Understory T3	5-10m	50%	Quer nig - 40%	1-2m	20%
Tall shrub S1	2-5m	40%	Ligu sin 30%	2-5m	30%
Short shrub S2	1-2m	20%	Ligu sin - 20%	5-10m	40%
Herbaceous	–	–	very sparse - ca. 2% coverage	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana		20%	Bere sca - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	7					8	Quer nig		
			7	6			7	Ligu sin		
						5	5	Bere sca		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.305

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: W75A State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name Shrublands NLCD #51

Survey date: 10/19/05 Surveyors: AJ Schatz

Datum _WGS 84_ ~~Lat/Long~~ utm (decimal degrees): 758818 N 3587613 W

GPS File Name W75A Coordinate accuracy 10 m / ft DOP _____ # sats 6 Elevation 119 (m) / ft

Directions or nearby Mile marker:
Northwest side of NT at a point ca. 0.4 road miles northeast of Mile Marker 94.

Measured Slope
0 ° ____ %

Measured Aspect
____ ° (N=0°)

Topographic Position
- X Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- ___% Bedrock
- ___% Large rocks (cobbles, boulders >10cm)
- ___% Small rocks (gravel, 0.2-10 cm)
- ___% Sand (0.1-2 mm)
- ____% Litter, duff
- ____% Wood (> 1 cm)
- ____% Water
- ____% Bare soil
- ____% Bryophyte/lichen
- ____% Other _____

* completely vegetated

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- __ Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- X Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Shrubland dominated by Baccharis halimifolia. Community covers about 5 acres.

Comments Community type also occurs on opposite side of NT and elsewhere along Parkway in vicinity of Jackson. (also covers about 5 acres)

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park:** NATR **Plot Code:** WSA **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1	2-5m	70%	Bacc hal - 70%	2-5m	30%
Short shrub S2	1-2m	20%	Bacc hal - 20%	5-10m	40%
Herbaceous		70%	Soli can - 30%, Eupa cap - 20%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
			8	6			9	Bacc hal		
					7		7	Soli can		
					6		6	Eupa cap		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.306

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: W69 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name CEGL004020 CNVN 4/2007

Survey date: 10/19/05 Surveyors: Al Schotz

Datum WGS 84 ~~Lat/Long~~ UTM (decimal degrees): 753922 N 3583802 W

GPS File Name W69 Coordinate accuracy 6 (m) / ft DOP _____ # sats 7 Elevation 106 (m) / ft

Directions or nearby Mile marker:

Predetermined plot falls on park boundary; sample taken ca. 20m to the SSW. NW side of NT@ mp. 025 mile NE of mm 10

Measured Slope

3 ° ____ %

Measured Aspect

340 ° (N=0°)

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- X Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC

__ *Palustrine* __ *Lacustrine* __ *Riverine*:

__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded

__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:

- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:

- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

- ___ % Bedrock
- ___ % Large rocks (cobbles, boulders >10cm)
- ___ % Small rocks (gravel, 0.2-10 cm)
- ___ % Sand (0.1-2 mm)
- ____ % Litter, duff
- ____ % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

* completely vegetated.

Leaf type:

- __ Broad-leaved
- __ Needle-leaved
- X Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)

- __ Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- X Herb - Perennial

Physiognomic Class

- __ Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- X Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Graminoid vegetation dominated by Schizachyrium scoparium

Comments Large Field of 10+ acres bounded by hedgerows and successional hardwood forest.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park:** NATR **Plot Code:** W69 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous		90%	Schizachyrium scoparium - 90%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Iva annua, Setaria parviflora, Solidago canadensis, Andropogon virginicus, Conyza canadensis				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
					9		9	Schi sco		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.307

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: W68 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 8450 (Successional loblolly pine-oak forest)

Survey date: 10/19/05 Surveyors: AI Schatz

Datum _WGS 84_ UTM (decimal degrees): 749495 N 3582153 W

GPS File Name W68 Coordinate accuracy 5 (m) ft DOP _____ # sats 6 Elevation 113 (m) ft

Directions or nearby Mile marker:
Ca. 0.4 miles northeast of the I-30 overpass ca. 80 feet northwest of NT.

Measured Slope
0 ° ____ %

Measured Aspect
____ ° (N=0°)

Topographic Position
- X Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : (DRY-MESIC) : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- X Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- ____% Bedrock
- ____% Large rocks (cobbles, boulders >10cm)
- ____% Small rocks (gravel, 0.2-10 cm)
- ____% Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____% Water
- ____% Bare soil
- ____% Bryophyte/lichen
- ____% Other _____

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mid-successional pine-hardwood forest characterized by a prominence of Pinus taeda, Quercus nigra, and Quercus falcata in the canopy. The understory is represented by smaller examples of the foregoing canopy layer, as well as Prunus serotina, Quercus velutina, Diospyros virginiana, and Juniperus virginiana. Herb layer is generally sparse, with the exception of patches of Lonicera japonica.

Comments Surrounding vegetation appears similar to that in plot.

Disturbance and animal use comments: Lonicera japonica and Ligustrum sinense are present, but not severe.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: W68 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20m	70%	Pinu tae-20%, Quer fal-20%, Quer nig-30%	.5-1m	10%
Understory T3	5-10m	40%	Prun ser-20%, Quer vel-10%, Juni vir-10%	1-2m	20%
Tall shrub S1	2-5m	10%		2-5m	30%
Short shrub S2	1-2m	–	sparse, ca. 5% coverage	5-10m	40%
Herbaceous	–	–	sparse, ca. 5% coverage	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana		10%	Viti rot-10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6						6	Pinu tae		
	6						6	Quer fal		
	7						9	Quer nig		
		6					6	Prun ser		
		5					5	Quer vel		
		5					5	Juni vir		
						5	5	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR. 308

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: W65 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name: CEGL00 7246

Survey date: 10/19/05 Surveyors: Al Schotz

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 748336 N 3579938 W

GPS File Name W65 Coordinate accuracy 7 (m) ft DOP _____ # sats 6 Elevation 165 (m) / ft

Directions or nearby Mile marker:
West side of NT at a point ca. 0.15 road miles south of Mile Marker 86.

Measured Slope 8 ° _____ %

Measured Aspect 350 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : (DRY-MESIC) MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam X Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 80 % Litter, duff
- 20 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mature oak forest characterized by a prominence of Quercus nigra and Quercus falcata in the canopy. Pinus echinata and Liquidambar are also present but sparse. The understory contains the above-mentioned species, in addition to Acer barbatum, Cornus florida, Ulmus alata, and a scattering of Juniperus virginiana. Herb layer is very sparse containing only a scattering of tree seedlings and Toxicodendron radicans.

Comments Ca. 40 meters north of plot loblolly pine becomes conspicuous - area is lower. Surrounding area is similar to that of plot; some widely-spaced loblolly observed off in distance, however.

Disturbance and animal use comments: Ligustrum sinense apparent north of plot.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park:** NATR **Plot Code:** W65 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	80%	Quer nig-30%, Quer fal-30%, Liqu sty-10%	.5-1m	10%
Understory T3	15-20m	50%	Acer bar-20%, Liqu sty-10%, Quer nig-20%	1-2m	20%
Tall shrub S1	2-5m	20%	Corn flo-10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous	—	-	very sparse, ca. 1% coverage	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	-	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Pinus echinata				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	5					7	Quer nig		
	7						7	Quer fal		
	5	5					6	Liqu sty		
		6					6	Acer bar		
			5				5	Corn flo		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.309

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: W67 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 4108 (Johnson grass vegetation)

Survey date: 10/19/05 Surveyors: Al Schotz

Datum WGS 84 ~~Lat/Long~~ UTM (decimal degrees): 747798 N 3579236 W

GPS File Name W67 Coordinate accuracy 8 (m) ft DOP _____ # sats 9 Elevation 107 (m) ft

Directions or nearby Mile marker:

Ca. 0.4 road miles SW of Mile Marker 86, SE corner of NT.

Measured Slope 4 ° ___ %

Measured Aspect 180 ° (N=0°)

Topographic Position

__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
X Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
__ Low level (terrace)
__ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:

__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:

__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
X Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:

__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover

__ __ % Bedrock
__ __ % Large rocks (cobbles, boulders >10cm)
__ __ % Small rocks (gravel, 0.2-10 cm)
__ __ % Sand (0.1-2 mm)
____ % Litter, duff
____ % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

X (completely vegetated)

Leaf type:

__ Broad-leaved
__ Needle-leaved
X Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
__ Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
X Herb - Perennial

Physiognomic Class

__ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
X Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

(Graminoid) vegetation dominated by Sorghum halepense. Community is about two acres in size.

Comments S – mature loblolly pine; to the east hedgerow; to the north mature oak-dominated hardwood forest; and the west is the NT.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ Park: NATR Plot Code: W67 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous	1	100%	Sorg hal - 80%	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Solidago canadensis, Paspalum urvillei, Paspalum notatum				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
					9		9	Sorg hal		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.310

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: W61A State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 846 (Mid- to late successional loblolly pine - sweetgum Forest)

Survey date: 10/19/05 Surveyors: AI Schotz

Datum _WGS 84_ UTM (decimal degrees): 744365 N 3576050 W

GPS File Name W61A Coordinate accuracy 7 (m) ft DOP _____ # sats 6 Elevation 110 (m)/ ft

Directions or nearby Mile marker:
Ca. 300 NE of exit for Airport Road roughly 120 feet NW of NT.

Measured Slope 4 ° ___ %

Measured Aspect 230 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- ___ % Bedrock
- ___ % Large rocks (cobbles, boulders >10cm)
- ___ % Small rocks (gravel, 0.2-10 cm)
- ___ % Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- X Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mature loblolly pine forest with a mid- to late-successional hardwood component dominated by sweetgum. Other hardwoods observed just beyond plot boundary include Quercus nigra, Quercus falcata, and Quercus alba. Ligustrum sinense is the principal shrub species. Herb component is very sparse, with Toxicodendron radicans appearing most common.

Comments Surrounding vegetation is similar to that in plot, but loblolly appears smaller and less pronounced.

Disturbance and animal use comments: Ligustrum sinense and Lonicera japonica is becoming severe.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: WblA State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m^2 area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	20-35m	60%	Pinu tae-50%, Liqu sty-10%
Understory T3	10-15m	40%	Liqu sty-30%
Tall shrub S1	2-5m	30%	Liqu sim-20%
Short shrub S2	1-2m	10%	
Herbaceous	-	-	very sparse, ca. 2% coverage
Non-vascular	—	—	
Vine/liana		10%	Toxi rad-10%

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8						8	Pinutae		
	5	7					7	Liqu sty		
			6				6	Liqu sim		
						5	5	Toxi rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.311

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ Park: NATR Plot Code: W54 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name CEGL004629

Survey date: 10/19/05 Surveyors: AJ Schotz

Datum _WGS 84_ UTM Lat/Long (decimal degrees): 742514 N 3575516 W

GPS File Name W54 Coordinate accuracy 7 (m)/ ft DOP _____ # sats 6 Elevation 91 (m)/ft

Directions or nearby Mile marker:
(ca. 0.4 and miles northeast of Mile Marker 81, southeast side of NT.

Measured Slope
0 ° ____ %

Measured Aspect
____ ° (N=0°)

Topographic Position
__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
X Low level (terrace)
__ Channel bed
Cowardin System *Upland*: XERIC : DRY-MESIC : MESIC
X *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated X Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
__ Silt/ Silty clay loam
X Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
__ Well drained
__ Moderately well drained
X Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
___% Bedrock
___% Large rocks (cobbles, boulders >10cm)
___% Small rocks (gravel, 0.2-10 cm)
___% Sand (0.1-2 mm)
____% Litter, duff
____% Wood (> 1 cm)
____% Water
____% Bare soil
____% Bryophyte/lichen
____% Other _____
* Completely vegetated

Leaf type:
__ Broad-leaved
__ Needle-leaved
__ Graminoid
X Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
__ Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
X Herb - Perennial

Physiognomic Class
__ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
X Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

Unforested bottomland (cleared long ago) now dominated by a mix of forbs and sprawling vines. As one walks throughout the site (ca. 5+ acres in size) no particular species appears dominant. Species enumerated on other side of form are those observed in plot and do not represent coverage beyond plot.

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: _____ **Park:** NATR **Plot Code:** W54 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2	1-2	10%	Ceph occ - 10%	5-10m	40%
Herbaceous		100%	Comm vir - 20%, Verm gig - 10%, Trac dif - 10%	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Apios americana, Rhexia virginica, Boltonia asteroides, Ampelopsis arborea, Salix nigra, Dichanthelium scoparium, Helenium autumnale				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
				5			5	Ceph occ		
					6		6	Comm vir		
					5		5	Verm gig		
					5		5	Trac dif		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.312

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: W59 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name CEGL004620

Survey date: 10/19/05 Surveyors: Al Schotz

Datum _WGS 84_ ~~UTM~~ (decimal degrees): 741725 N 3575188 W

GPS File Name W59 Coordinate accuracy 7 (m) ft DOP _____ # sats 7 Elevation 163 (m) ft

Directions or nearby Mile marker:
Few hundred feet SW of mile marker & ca. 110 feet SE of NT.

Measured Slope
3 ° ____ %

Measured Aspect
150 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

___ % Bedrock	____ % Litter, duff	____ % Bryophyte/lichen
___ % Large rocks (cobbles, boulders >10cm)	____ % Wood (> 1 cm)	____ % Other _____
___ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
___ % Sand (0.1-2 mm)	____ % Bare soil	* completely vegetated

Leaf type:
- __ Broad-leaved
- __ Needle-leaved
- X Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- X Herb - Perennial

Physiognomic Class
- __ Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- X Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Field dominated by Schizachyrium scoparium. Liquidumbar seedlings are widely scattered. Field is roughly 7 acres in size.

Comments Agricultural land on southeast side; mid- to late-successional oak forest bound field on remaining sides.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ Park: NATR Plot Code: W59 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous		10	Schi sco-7%, Soli can-1%	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Venonia gigantea, Sorghum halapense, Andropogon glomeratus, Helianthus angustifolius, Rudbeckia hirta				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
					8		8	Schi sco		
					5		5	Soli can		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR-313

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: W56 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 4638 Quercus nigra Forest

Survey date: 10/19/05 Surveyors: Al Schotz

Datum WGS 84 UTM (decimal degrees): 739344 N 3574457 W

GPS File Name W56 Coordinate accuracy 60 m / ft DOP _____ # sats 7 Elevation 111 (m) ft

Directions or nearby Mile marker:
Ca. 0.5 road miles east of exit for State Route 467, south side of NT.

Measured Slope
0 ° _____ %

Measured Aspect
_____ ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- X Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- __ Moderately well drained
- X Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 70 % Litter, duff
- 30 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mature but fairly young hardwood forest accented with a scattering of Pinus taeda. Quercus nigra appears dominant but Populus deltoides (seemingly localized), Liquidambar styraciflua, and Quercus pagoda are also present in the canopy. Ligustrum sinense dominates the shrub layers, nearly to the exclusion of other species.

Comments Surrounding vegetation is similar to that in plot.

Disturbance and animal use comments: Ligustrum sinense is bad; Lonicera japonica is also present.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: WS6 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	Quer nig-30%, Popu del-30%	.5-1m	10%
Understory T3	10-15m	40%	Quer nig-20%, Acer neg-10%	1-2m	20%
Tall shrub S1	2-5m	60%	Ligu sin-60%	2-5m	30%
Short shrub S2	1-2m	20%	Ligu sin-20%	5-10m	40%
Herbaceous	—	—	sparse, ca. 5% coverage	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		30%	Berc sca-10%, Viti rot-10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Pinus taeda				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	6					7	Quer nig		
	7						7	Popu del		
		5					5	Acer neg		
			8	6			8	Ligu sin		
						5	5	Berc sca		
						5	5	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR-314

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: W6DA State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name CEGL006122

Survey date: 10/19/05 Surveyors: Al Schotz

Datum _WGS 84_ ~~Lat/Long~~ utm (decimal degrees): 737748 N 3573955 W

GPS File Name W6DA Coordinate accuracy 60 (m) / ft DOP _____ # sats 7 Elevation 99 (m) ft

Directions or nearby Mile marker: Approximately 100 feet southeast of Battle of Raymond parking lot.

Measured Slope 3 ° ___ %

Measured Aspect 310 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- ___ % Bedrock
- ___ % Large rocks (cobbles, boulders >10cm)
- ___ % Small rocks (gravel, 0.2-10 cm)
- ___ % Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Early- to mid-successional mixed forest dominated by Quercus nigra. Other species present include Juniperus virginiana, Pinus taeda, Liquidambar, Ulmus alata, Prunus serotina, and Fraxinus americana. Shrub layer is open. Herbaceous component is sparse, characterized by a scattering of graminoids.

Comments Surrounding area appears similar.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:** WB0A **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	15-20m	40%	Quer nig - 40%
Understory T3	10-15m	40%	Quer nig - 20%, Ligu sty - 20%
Tall shrub S1	2-5m	60%	Ulmu ala - 20%, Juni vir - 20%
Short shrub S2	1-2m	10%	
Herbaceous	—	—	sparse, ca. 5% coverage
Non-vascular	—	—	
Vine/liana	—	—	
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):			

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	6					7	Quer nig		
		6					6	Ligu sty		
			6				6	Ulmu ala		
			6				6	Juni vir		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.315

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: W58 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 7246 (Dry acid eastern Coastal Plain oak-hickory forest)

Survey date: 10/19/05 Surveyors: AL Schotz

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 733414 N 3571015 W

GPS File Name W58 Coordinate accuracy 7 (m)/ ft DOP _____ # sats 7 Elevation 101 (m)/ft

Directions or nearby Mile marker:
Near mile Marker 75, NW side of NT.

Measured Slope
8 ° ____ %

Measured Aspect
260° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : (DRY-MESIC) : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam X Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- ___ % Bedrock
- ___ % Large rocks (cobbles, boulders >10cm)
- ___ % Small rocks (gravel, 0.2-10 cm)
- ___ % Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mature Quercus stellata - Q. alba - dominated slope forest. Also present in the canopy are Quercus falcata and Carya alba, but much less frequently. The shrub layers are relatively open, with Ulmus alata, Vaccinium elliottii, and Carya alba appearing most numerous. Chasmanthium sessiliflorum and sprawling Toxicodendron radicans serve as principal ground cover species.

Comments Roughly 50 meters east loblolly pine becomes apparent. Otherwise, surrounding vegetation is similar to that in plot.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: W58 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	Quer ste-40%, Quer alb-20%, Quer fal-10%	.5-1m	10%
Understory T3	10-15m	30%	Carya alb-10%, Quer nig-10%	1-2m	20%
Tall shrub S1	2-5m	40%	Ulmu ala-30%	2-5m	30%
Short shrub S2	1-2m	—	Sparse, roughly 5% coverage	5-10m	40%
Herbaceous		30%	Chas ses-10%, Toxi rad-10% (prostrate growth)	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Viti rot-10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Quer ste		
	6						6	Quer alb		
	5						5	Quer fal		
		5					5	Cary alb		
		5					5	Quer nig		
			7				7	Ulmu ala		
					5		5	Chas ses		
					5		5	Toxi rad		
						5	5	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.316

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: W53 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name? CEGL007354

Survey date: 10/19/05 Surveyors: AH Schotz

Datum __WGS 84__ ~~Lat/Long~~ UTM (decimal degrees): _____ N _____ W

GPS File Name W53 Coordinate accuracy 60 (m) / ft DOP _____ # sats 6 Elevation 69 (m) / ft

Directions or nearby Mile marker:
NW side of NT ca. 0.5 road miles NE of Mile Marker 72.

Measured Slope
0° ___ %

Measured Aspect
~ ° (N=0°)

Topographic Position
__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
X Low level (terrace)
__ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
X *Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated X Irregularly flooded

Soil texture:
__Sand __Sandy loam
__Sandy clay loam
__Loam X Silt loam
__Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
__Well drained
X Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover
__ % Bedrock
__ % Large rocks (cobbles, boulders >10cm)
__ % Small rocks (gravel, 0.2-10 cm)
__ % Sand (0.1-2 mm)
30 % Litter, duff
20 % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:
X Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community
Mature bottomland forest dominated by Quercus nigra and beyond plot boundary, Liquidambar styraciflua. Itatesia dipteria and Celtis laevigata, along with smaller amounts of Acer negundo, Morus rubra, and Ulmus americana characterize the understory. Arundinaria gigantea is the most conspicuous herb.

Comments Ca. 40 meters west of plot loblolly pine becomes common. Creek serves as eastern boundary. Remaining sides similar to vegetation in plot.

Disturbance and animal use comments: Lonicera japonica and Ligustrum sinense are frequent in vicinity.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: WS3 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	50%	Quer nig - 40%, Plat occ - 10%	.5-1m	10%
Understory T3	10-15m	40%	Quer nig - 30%, Ulmu ame - 10%	1-2m	20%
Tall shrub S1	2-5m	40%	Hale dip 20%, Celt lae - 10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous		10%	Arun gig - 10%	10-15m	50%
Non-vascular	~	—		15-20m	60%
Vine/liana		20%	Viti rot - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	6					7	Quer nig		
	5						5	Plat occ		
		5					5	Ulmu ame		
			6				6	Hale dip		
			5				5	Celt lae		
					5		5	Arun gig		
						5	5	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.317

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ Park: NATR Plot Code: W52 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 7244 (Southern red oak - white oak mixed forest)

Survey date: 10/19/05 Surveyors: AJ Schotz

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 722488 N 3563041 W

GPS File Name W52 Coordinate accuracy 7 (m) ft DOP _____ # sats 6 Elevation 100 (m)/ ft

Directions or nearby Mile marker:
South quadrant of NT and State Rte 27 junction.

Measured Slope 2 ° ____ %

Measured Aspect 160 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC (DRY-MESIC) MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover

__ % Bedrock	80 % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders >10cm)	20 % Wood (> 1 cm)	____ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
__ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mature Quercus falcata/Quercus alba forest with a scattering of Pinus taeda in the canopy; sub-canopy contains smaller specimens of the foregoing canopy species, in addition to Carya pallida, Pinus Sectina, Liquidamber styraciflua, and Carya alba. The shrub layers are generally open containing various species, with Ulmus alata and Cornus florida appearing most representative. Herb layer is relatively sparse, other than for patches of Toxicodendron.

Comments Roughly 30 meters to the WSW is lawn (driveway margin); to NNW is NT; remaining surroundings are similar to vegetation in plot.

Disturbance and animal use comments: Lonicera japonica and Ligustrum sinense are present, but sparse.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:** W52 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	60%	Quer fal - 30%, Quer alb - 20%	.5-1m	10%
Understory T3	10-15m	40%	Quer fal - 20%, Carya pal - 10%	1-2m	20%
Tall shrub S1	2-5m	40%	Ulmu ala - 20%, Corn flo - 10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous		10%	Toxi rad - 10% (assume = poison ivy growth)	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Viti rot - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	6					7	Quer fal		
	6						6	Quer alb		
		5					5	Cary pal		
			6				6	UlmAla		
			5				5	Corn flo		
					5		5	Toxi rad		
						5	5	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.318

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS124 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name? (East Gulf Coastal Plain oak-sweetgum small stream floodplain forest)

Survey date: 10/20/05 Surveyors: Al Schotz

Datum WGS 84 ~~Lat/Long~~ UTM (decimal degrees): 746349 N 3578050 W

GPS File Name AS124 Coordinate accuracy 9 (m) ft DOP _____ # sats 5 Elevation 81 (m) ft

Directions or nearby Mile marker:
Plot fell within powerline corridor; offset ca. 20 meters to the north in bottomland forest. West side of NT @ ca. 0.4 miles south of NT 84.

Measured Slope 0 ° ____ %

Measured Aspect ____ ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
X *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated X Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam X Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- X Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Terraced, mature bottomland forest primarily comprised of Quercus nigra, with Liquidambar styraciflua, Quercus pagoda, and (Gleditsia triacanthos (not in plot) serving as minor canopy components. The shrub layers are dense with Ligustrum sinense being abundant throughout. Halesia diptera and Carpinus caroliniana are also frequent but typically more localized in distribution. Herbs are generally sparse, with the exception of Dioscorea villosa and sprawling Toxicodendron radicans. A small stream is just to the northwest of the plot.

Comments Surrounding vegetation is the same as in the plot.

Disturbance and animal use comments: Ligustrum sinense is severe; Lonicera japonica not too bad.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: A3124 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	20-35m	70%	Quer nig-40%, Quer pag-20%, Ligu sty-10%
Understory T3	10-15m	30%	Ulmu ame-20%, Quer nig-10%
Tall shrub S1	2-5m	70%	Ligu sin-40%
Short shrub S2	1-2m	20%	Ligu sin-10%
Herbaceous		30%	Toxi rad-20% (assumes pustule growth), Asungi-10%
Non-vascular	—	—	
Vine/liana		10%	Viti rot-10%

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Carpinus caroliniana, Italesia diptera, Arundinaria gigantea, Sabal minor

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	5					7	Quer nig		
	6						6	Quer pag		
	5						5	Ligu sty		
		6					6	Ulmu ame		
			7	5			7	Ligu sin		
					6		6	Toxi rad		
						5	5	Viti rot		
					5		5	Asungig		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.319

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: _____ **Park:** NATR **Plot Code:** AS123 **State:** AL (MS) TN **Location org:** NPS

Location name _____ **Provisional community name** ? ~~4290~~

Survey date: 10/20/05 **Surveyors:** Al Schotz

Datum WGS 84 **Lat/long (decimal degrees):** 748494 (UTM) N 3580199 W

GPS File Name AS123 **Coordinate accuracy** 8 (m)/ ft **DOP** _____ **# sats** 6 **Elevation** 93 (m)/ ft

Directions or nearby Mile marker:
hot side of NT at a point ca. 0.8 road miles south of I-20 overpass

Measured Slope 0 ° _____ %

Measured Aspect _____ ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- X Channel bed

Cowardin System *Upland*: XERIC : DRY-MESIC : MESIC
X *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded X Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- X Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- X Very poorly drained

Ground cover

__ % Bedrock	____ % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders >10cm)	70 % Wood (> 1 cm)	____ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	30 % Water	
__ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- __ Broad-leaved
- __ Needle-leaved
- __ Graminoid
- X Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- X Herb - Perennial

Physiognomic Class
- __ Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- X Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Impounded (by beaver?) bottomland forest composed of numerous hardwood snags such as Quercus michauxii, Liquidambar styraciflua, Quercus nigra, and Carya (ellerowata or laciniosa). Based on degree of decomposition (of snags) flooding appears to have taken place in the mid 1990's.

Comments Surrounding area is also bottomland forest — west side early successional; remaining sides are mature.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: _____ **Park:** NATR **Plot Code:** MS123 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous		100%	Mika sca-20%, Poly hyd-10%, Lmn min-60%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: *Tree Canopy* | ***T3*** *Subcanopy* | ***S1*** *Tall Shrub (>1m to 5m)* | ***S2*** *Short Shrub (< 1m)* | ***H*** *Herbaceous* | ***V*** *Vines (lianas)*

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
					6		6	Mika sca		
					5		5	Poly hyd		
					8		8	Lmn min		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.320 Page 1

County:_____ Park: NATR Plot Code: ASD22 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name* 4109 (Cherrybark Oak - Water Oak Forest)

Survey date: 10/20/05 Surveyors: Al Schotz

* Site doesn't appear to be on loess soils.

Datum _WGS 84_ UTM Easting (decimal degrees): 748671 N 3580920 W

GPS File Name ASD22 Coordinate accuracy 7 (m) ft DOP _____ # sats 6 Elevation 163 (m) ft

Directions or nearby Mile marker:

Ca. 200 feet west of NT at a point roughly 0.5 road miles south of I-20 overpass.

Measured Slope 7 ° ____ %

Measured Aspect 300 ° (N=0°)

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : (DRY-MESIC) : MESIC

__ *Palustrine* __ *Lacustrine* __ *Riverine*:

__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded

__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:

- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:

- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

- ___ % Bedrock
- ___ % Large rocks (cobbles, boulders >10cm)
- ___ % Small rocks (gravel, 0.2-10 cm)
- ___ % Sand (0.1-2 mm)
- 80 % Litter, duff
- 20 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:

- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)

- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class

- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mature hardwood slope forest characterized by Quercus pagoda, Quercus nigra, and Liquidambar styraciflua in the canopy. Although Liquidambar is the principal canopy species in the plot, it is not as well represented elsewhere in the immediate area — Quercus pagoda and Quercus nigra appear to be the principal species. Shrub layers are sparse, as well as herbs.

Comments Surrounding vegetation is similar to that in plot, other than for a greater amount of cherrybark and water oak in the canopy.

Disturbance and animal use comments: Lonicera japonica is present but sparse.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:** AS122 **State: AL (MS) TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	50%	Liqu sty - 40%, Quer nig - 10%	.5-1m	10%
Understory T3	10-15m	50%	Liqu sty - 20%, Quer nig - 20%	1-2m	20%
Tall shrub S1	2-5m	50%	Carp car - 20%, Ulmu a/a - 10%	2-5m	30%
Short shrub S2	1-2m	–	sparse, ca. 5% coverage	5-10m	40%
Herbaceous		10%	–	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana	–	–		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Quercus pagoda, Quercus michauxii, Carya glabra, Acer barbatum				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	6					7	Liqu sty		
	5	6					6	Quer nig		
			6				6	Carp car		
			5				5	Ulmu a/a		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.321

County:_____ Park: NATR Plot Code: AS120 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** 7330 (Successional sweetgum Floodplain Forest)

Survey date: 10/20/05 **Surveyors:** AL Schotz

Datum WGS 84 ~~Lat/Long~~ (decimal degrees): 752550 N 3583191 W (UTM)

GPS File Name AS120 **Coordinate accuracy** 9 (m) / ft **DOP** _____ **# sats** 6 **Elevation** 117 (m) ft

Directions or nearby Mile marker:
(ca. 80 feet south of NT at a point ca. 0.4 road miles east of Mile Marker 89.

Measured Slope 0 ° _____ %

Measured Aspect _____ ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
X *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated X Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
__ Silt/ Silty clay loam
X Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
__ Well drained
__ Moderately well drained
X Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover

___ % Bedrock	90 % Litter, duff	____ % Bryophyte/lichen
___ % Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____ % Other _____
___ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
___ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community
Early- to mid-successional sweetgum forest accented with a scattering of loblolly pine.

Comments Surrounding vegetation (including across NT) is the same as that in plot.

Disturbance and animal use comments: Several exotics present.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: _____ **Park:** NATR **Plot Code:** AS120 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	10-15m	60%	Liqu sty - 50%, Pinu tae - 10%	.5-1m	10%
Understory T3	5-10m	30%	Liqu sty - 30%	1-2m	20%
Tall shrub S1	2-5m	20%	Liqu sty - 20%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous		60%	Leer vir - 10%, Aste lat - 30%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		20%	Bacc sca - 10%, Toni jap - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8	7	6				9	Liqu sty		
					5		5	Leer vir		
					7		7	Aste lat		
						5	5	Bacc sca		
						5	5	Toni jap		
	5						5	Pinu tae		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR-322 Page 1

County:_____ Park: NATR Plot Code: AS119 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** 601 8462

Survey date: 10/20/05 **Surveyors:** Al Schotz

Datum WGS 84 UTM ~~Lat/Long~~ (decimal degrees): 757796 N 3586131 W

GPS File Name AS119 **Coordinate accuracy** 4 (m) / ft **DOP** _____ **# sats** 8 **Elevation** 1010 (m) / ft

Directions or nearby Mile marker:
North quadrant of the junction of the NT and State Route 249.

Measured Slope
0 ° ____ %

Measured Aspect
____ ° (N=0°)

Topographic Position
__ Interfluve (Ridge, summit or crest) __ Toeslope (alluvial toeslope)
__ High Slope (upper slope, convex slope) X Low level (terrace)
__ Midslope (middle slope) __ Channel bed
__ Lowslope (lower slope, footslope)
Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
__ Silt/ Silty clay loam
X Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
__ Well drained
X Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
__ % Bedrock
__ % Large rocks (cobbles, boulders >10cm)
__ % Small rocks (gravel, 0.2-10 cm)
__ % Sand (0.1-2 mm)
50 % Litter, duff
30 % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:
__ Broad-leaved
X Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
__ Cold-deciduous
X Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community
Mosaic of early- to mid-successional sweetgum-dominated hardwoods - loblolly pine. Water oak is also present but not as common. The shrub layer is relatively dense, with Ligustrum sinense serving as the principal species.

Comments Surrounding area is similar - a mosaic of early- to mid-successional loblolly pine/sweetgum. However, roughly 600 feet to the NNW (along NT) is a young-successional loblolly pine forest.

Disturbance and animal use comments: Exotics common.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:** AS119 **State: AL (MS) TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	10-15m	70%	Pinu tae-30%, Liqu sty-30%	.5-1m	10%
Understory T3	5-10m	40%	Liqu sty-30%, Quer nig-10%	1-2m	20%
Tall shrub S1	2-5m	40%	Liqu sty-30%	2-5m	30%
Short shrub S2	1-2m	10%	Liqu sty	5-10m	40%
Herbaceous		10%		10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana		10%	Viti rot - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
	7	7					8	Liqu sty		
		5					5	Quer nig		
			7	5			7	Liqu sty		
						5	5	Viti rot		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NATR.323

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: _____ **Park:** NATR **Plot Code:** AS118 **State:** AL (MS) TN **Location org:** NPS

Location name _____ **Provisional community name** 6011 (early- to mid-successional loblolly pine forest)

Survey date: 10/20/05 **Surveyors:** AI Schotz

Datum __WGS 84__ ~~Lat/Long~~ (decimal degrees): 757878 N 3586304 W

GPS File Name AS118 **Coordinate accuracy** 5 (m) / ft **DOP** _____ **# sats** 7 **Elevation** 102 (m) / ft

Directions or nearby Mile marker:
Junction of NT and exit for State Route 49 north.

Measured Slope
(0) ° ____ %

Measured Aspect
____ ° (N=0°)

Topographic Position
__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
X Low level (terrace)
__ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC (:) MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
__ Silt/ Silty clay loam
X Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
__ Well drained
X Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
__ % Bedrock
__ % Large rocks (cobbles, boulders >10cm)
__ % Small rocks (gravel, 0.2-10 cm)
__ % Sand (0.1-2 mm)
90 % Litter, duff
10 % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:
__ Broad-leaved
X Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
X Evergreen
__ Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community
Early- to mid-successional loblolly pine forest.

Comments
Young loblolly occurs roughly 30 meters to the south, and ca. 20 meters to the west; remaining (including across the NT and Hwy. 49 exit) are quite similar but contain a greater prominence of sweetgum and water oak.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:** ATS118 **State: AL (MS) TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	10-15m	70%	Pinu tae - 70%	.5-1m	10%
Understory T3	5-10m	10%	Liqu sty - 10%	1-2m	20%
Tall shrub S1	2-5m	20%	Liqu sty - 20%	2-5m	30%
Short shrub S2	1-2m	—	sparse, ca. 5% coverage	5-10m	40%
Herbaceous	—	—	very sparse, ca. 3% coverage	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana		10%	Toxi rad - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

***T2:** Tree Canopy | **T3** Subcanopy | **S1** Tall Shrub (>1m to 5m) | **S2** Short Shrub (< 1m) | **H** Herbaceous | **V** Vines (lianas)*

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8						8	Pinu tae		
		5	6				6	Liqu sty		
						5	5	Toxi rad		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.324 Page 1

County:_____ Park: NATR Plot Code: AS117 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** 7179 (young loblolly pine plantation)

Survey date: 10/20/05 **Surveyors:** Al Schotz

Datum _WGS 84_ ~~Lat/Long~~ (decimal degrees): 761258 N 3589462 W

GPS File Name AS117 **Coordinate accuracy** 6 (m) ft **DOP** _____ **# sats** 6 **Elevation** 140 (m) ft

Directions or nearby Mile marker:
SE side of NT at a point ca. 0.4 road miles NNE of mile marker 96.

Measured Slope 4 ° ____ %

Measured Aspect 50 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
X Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
__ __% Bedrock
__ __% Large rocks (cobbles, boulders >10cm)
__ __% Small rocks (gravel, 0.2-10 cm)
__ __% Sand (0.1-2 mm)
100% Litter, duff
____% Wood (> 1 cm)
____% Water
____% Bare soil
____% Bryophyte/lichen
____% Other _____

Leaf type:
__ Broad-leaved
X Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
X Evergreen
__ Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community
Young (ca. 10 years old) loblolly pine plantation. Plot access is extremely difficult: a blockade of Chinese privet and blackberry.

Comments Ca. 30 meters N - mid-successional swamp forest; remaining sides young successional loblolly pine/hardwood mix.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park:** NATR **Plot Code:** AS117 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1	2-5m	90%	Pinu tae - 90%	2-5m	30%
Short shrub S2	1-2m	10%	Ligu sin - 10%	5-10m	40%
Herbaceous	—	—	sparse, ca. 5% coverage	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
			9				9	Pinu tae		
				5			5	Ligu sin		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.325

County:_____ Park: NATR Plot Code: AS116 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** 7330 (successional sweetgum flatwoods in Pinus)

Survey date: 10/20/05 **Surveyors:** AI Schotz

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 761315 N 3589536 W

GPS File Name AS116 **Coordinate accuracy** 10 (m) / ft **DOP** _____ **# sats** 6 **Elevation** 131 (m) / ft

Directions or nearby Mile marker:
SE side of NT at a point ca. 0.4 road miles NNE of mile marker 96.

Measured Slope
0 ° _____ %

Measured Aspect
_____ ° (N=0°)

Topographic Position
__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
__ Low level (terrace)
__ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
✓*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand __Sandy loam
__Sandy clay loam
__Loam __Silt loam
__Silt/ Silty clay loam
X Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
__Well drained
__Moderately well drained
X Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover
__ __% Bedrock
__ __% Large rocks (cobbles, boulders >10cm)
__ __% Small rocks (gravel, 0.2-10 cm)
__ __% Sand (0.1-2 mm)
80 % Litter, duff
20 % Wood (> 1 cm)
____% Water
____% Bare soil
____% Bryophyte/lichen
____% Other _____

Leaf type:
X Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)
__Evergreen
X Cold-deciduous
__Mixed evergreen-cold-deciduous
__Herb - Annual
__Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__Woodland (open tree canopy)
__Shrubland
__Dwarf Shrubland
__Herbaceous (less than 25% woody layers)
__Nonvascular
__Sparse Vegetation

Qualitative description of Community
Mid-successional sweetgum forest with a small (ca. 20%) amount of water oak mixed in.

Comments To the NE and SE (same side of NT as plot) - young- to mid-successional loblolly pine/hardwood mix. Opposite side of NT is also a mix of young- to mid-successional loblolly/hardwoods.

Disturbance and animal use comments: Ligustrum sinense and Lonicera japonica are prolific.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: _____ **Park:** NATR **Plot Code:** AS116 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	10-15m	70%	Ligu sty - 50%, Quer nig - 20%	.5-1m	10%
Understory T3	5-10m	40%	Ulmu alat - 20%, Ligu sty 10%, Quer nig - 10%	1-2m	20%
Tall shrub S1	2-5m	50%	Ligu sin - 40%	2-5m	30%
Short shrub S2	1-2m	20%	Ligu sin - 10%	5-10m	40%
Herbaceous	–	–	very sparse, roughly 2% coverage	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana		20%	Toxi rad - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Fraxinus pennsylvanica, Carya cordiformis				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	5					8	Ligu sty		
	6	5					6	Quer nig		
		6					6	Ulmu alat		
			7	5			7	Ligu sin		
						5	5	Toxi rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.326 Page 1

County:_____ Park: NATR Plot Code: AS115 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** 7246 (Dry acid eastern coastal plain oak-hickory forest)

Survey date: 10/26/05 **Surveyors:** Al Schotz

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 763068 N 3590587 W

GPS File Name AS115 **Coordinate accuracy** 8 (m) / ft **DOP** _____ **# sats** 6 **Elevation** 1500 (m) / ft

Directions or nearby Mile marker:
South side of NT of a point ca. 0.2 road miles west of mile Marker 98.

Measured Slope 3 ° ____ %

Measured Aspect 240 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC __*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded __Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand __Sandy loam __Sandy clay loam __Loam __Silt loam X Silt/ Silty clay loam __Silty clay __Clay __Muck __Peat

Drainage:
__Rapidly drained X Well drained __Moderately well drained __Somewhat poorly drained __Poorly drained __Very poorly drained

Ground cover
__% Bedrock
__% Large rocks (cobbles, boulders >10cm)
__% Small rocks (gravel, 0.2-10 cm)
__% Sand (0.1-2 mm)
80 % Litter, duff
20 % Wood (> 1 cm)
____% Water
____% Bare soil
____% Bryophyte/lichen
____% Other _____

Leaf type:
X Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)
__Evergreen
X Cold-deciduous
__Mixed evergreen-cold-deciduous
__Herb - Annual
__Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__Woodland (open tree canopy)
__Shrubland
__Dwarf Shrubland
__Herbaceous (less than 25% woody layers)
__Nonvascular
__Sparse Vegetation

Qualitative description of Community

Mature, gently sloping oak forest characterized by Quercus falcata and, to a lesser extent, Quercus nigra. Carya alba is also present in the canopy but generally sparse. Shrub layers are open, with patches of Vaccinium arboreum apparent throughout. Herb layer is poorly represented.

Comments To the east ca. 30 meters loblolly becomes apparent in canopy; to the north across NT is loblolly-dominated mid-successional forest; to west and south vegetation appears similar to that in plot.

Disturbance and animal use comments: Lonicera japonica is present but sparse.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park:** NATR **Plot Code:** AS115 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20m	80%	Quer fal-40%, Quer nig-30%	.5-1m	10%
Understory T3	5-10m	40%	Cary alb-20%, Ulmu ala-40%	1-2m	20%
Tall shrub S1	2-5m	40%	Vacc arb-20%, Ulmu ala-10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous	—	—	very sparse ca. 3% coverage	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Quer fal		
	7						7	Quer nig		
		6					6	Cary alb		
		5	5				6	Ulmu ala		
			6				6	Vacc arb		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.327 Page 1

County:_____ Park: NATR Plot Code: AS1B State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 4??1 (East Gulf Coastal Plain oak-sweetgum small stream floodplain forest)

Survey date: 10/20/05 Surveyors: AJ Schotz

Datum WGS 84 ~~Lat/long~~ (decimal degrees): 765086 N 3591350 W (UTM)

GPS File Name AS1B Coordinate accuracy 6 (m)/ ft DOP _____ # sats 6 Elevation 140 (m)/ ft

Directions or nearby Mile marker:
Ca. 60 feet south of NT, just east of Mile Marker 99.

Measured Slope 2 ° ____ %

Measured Aspect 260 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
X Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 80 % Litter, duff
- 20 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community
Mid- to late-successional oak forest along an eroded (still active) stream channel. Quercus nigra appears to be the principal canopy species but Quercus pagoda, Quercus alba, and Carya cordiformis are also present, although widely distributed. Perhaps classified as a bottomland forest, the site likely rarely floods, only during heavy rainfall (such as those associated with hurricanes). The stream channel is deep and steep-incised, likely a result of rapid runoff from beyond park boundaries.

Comments Ca. 50 meters east is an open, shrub-dominated field; remaining boundaries (including across NT appear similar to that in plot.

Disturbance and animal use comments: Ligustrum sinense and Lonicera japonica are present but not too severe.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: _____ **Park:** NATR **Plot Code:** AS113 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	20-35m	70%	Quer nig - 50%, Quer pag - 10%, Carya cor - 10%
Understory T3	15-20m	30%	Liqu sty 20%, Quer nig - 10%
Tall shrub S1	2-5m	30%	Carp car - 20%
Short shrub S2	1-2m	10%	—
Herbaceous		10%	—
Non-vascular	—	—	
Vine/liana		20%	Viti rot - 10%, Toxi rad - 10%

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Acer barbatum, Aesculus glabra

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	5					7	Quer nig		
	5						5	Quer pag		
	5						5	Cary cor		
		6					6	Liqu sty		
			6				6	Carp car		
						5	5	Viti rot		
						5	5	Toxi rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR.328 **Page** 1

County:_____ **Park:** NATR **Plot Code:** AS114 **State:** AL MS TN **Location org:** NPS

Location name _____ **Provisional community name** 7216 (Dry acid eastern coastal plain oak-hickory forest)

Survey date: 10/20/05 **Surveyors:** AJ Schatz

Datum _WGS 84_ ~~Lat/Long~~ (decimal degrees): 764560 N 3591052 W (UTM)

GPS File Name AS114 **Coordinate accuracy** 8 (m) / ft **DOP** ____ **# sats** 6 **Elevation** 138 (m) ft

Directions or nearby Mile marker:

Redetermined plot fell just beyond park boundary, sample was offset ca. 20 meters NW to within park, SE side of NT trail ca. 0.6 miles NE of mm 98.

Measured Slope 4 ° ____ %

Measured Aspect 30 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : (DRY-MESIC) : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam X Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

___% Bedrock	80% Litter, duff	____% Bryophyte/lichen
___% Large rocks (cobbles, boulders >10cm)	20% Wood (> 1 cm)	____% Other _____
___% Small rocks (gravel, 0.2-10 cm)	____% Water	
___% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Gently sloping oak forest represented by a mature canopy primarily composed of Quercus falcata and Quercus nigra. The understory consists of the same species, in addition to Carya alba, Ulmus alata, Cornus florida, and Quercus stellata, among other. Vines, most notably Vitis rotundifolia, are plentiful.

Comments Immediate vicinity is similar to vegetation in plot. On opposite side of NT roughly 350 feet from plot young loblolly are intermingled with hardwoods.

Disturbance and animal use comments: Some Lonicera japonica present but not severe.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: _____ **Park:** NATR **Plot Code:** MS114 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	Quer fal -30%, Quer nig - 30%	.5-1m	10%
Understory T3	10-15m	40%	Carp alb - 30%	1-2m	20%
Tall shrub S1	2-5m	40%	Ulmus a/a - 20%, Corn flo - 10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous	—	—	sparse, ca. 5% coverage	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		20%	Viti rot - 20%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Quer fal		
	7						7	Quer nig		
		7					7	Carp alb		
			6				6	Ulmus a/a		
			5				5	Corn flo		
						6	6	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.329 Page 1

County:_____ Park: NATR Plot Code: ASP6 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 6011 (early- to mid- successional loblolly pine forest)

Survey date: 10/20/05 Surveyors: Al Schotz

Datum _WGS 84_ ~~Lat/long~~ UTM (decimal degrees): 731506 N 3569172 W

GPS File Name ASP6 Coordinate accuracy 7 (m)/ ft DOP ____ # sats 6 Elevation 80 (m)/ ft

Directions or nearby Mile marker:
SE side of NT at a point (ca. 150 feet SW of entrance to Dean's Stand).

Measured Slope 2 ° ____ %

Measured Aspect 200 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

__ % Bedrock	90 % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
__ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- X Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Pi) - successional loblolly pine forest, with a scattering of Quercus nigra in the canopy. The understory is primarily comprised of Juniperus virginiana some of which nearly reaches the canopy. Liquidambar, a typical understory component of loblolly stands in the region, is sparse.

Comments Juniperus is a common understory associate at roughly 60 meters SW of entrance to Dean's Stand, but sparse beyond.

Disturbance and animal use comments: Some Lonicera japonica is present.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: _____ **Park:** NATR **Plot Code:** ASD6 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	10-15m	80%	Pinu tae - 60% Quer nig - 20%	.5-1m	10%
Understory T3	5-10m	50%	Juni vir - 30%, Liqu sty - 20%	1-2m	20%
Tall shrub S1	2-5m	30%	Liqu sty - 20%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous	–	–	sparsely, roughly 5% coverage	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana	–	–		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8						8	Pinu tae		
	6						6	Quer nig		
		7					7	Juni vir		
		6					6	Liqu sty		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.330 Page 1

County:_____ Park: NATR Plot Code: ASP1 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** CEGL004122

Survey date: 10/20/05 **Surveyors:** Al Schotz

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 373589 N 3569232 W

GPS File Name ASP1 **Coordinate accuracy** 6 (m)/ ft **DOP** _____ **# sats** 7 **Elevation** 77 (m)/ ft

Directions or nearby Mile marker:
East quadrant of the junction of NT and Interval to Dean's Stand.

Measured Slope
0 ° _____ %

Measured Aspect
_____ ° (N=0°)

Topographic Position
- X Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : (DRY-MESIC) : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mid-successional Quercus nigra forest with a scattering of sweetgum in the canopy. Shrub layers are sparse comprising no more than 10% spatial area. Toxicodendron radicans and Lonicera japonica abundantly sprawl over the ground.

Comments Surrounding area contains a mixture of pine, some red cedar and various hardwoods.

Disturbance and animal use comments: Lonicera japonica is abundant.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park:** NATR **Plot Code:** ASD2 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20m	70%	Quer nig - 50%, Liqu sty - 20%	.5-1m	10%
Understory T3	5-10m	40%	Quer nig - 20%, Liqu sty - 10%, Celt lae - 10%	1-2m	20%
Tall shrub S1	2-5m	–	sparse, ca. 5% coverage	2-5m	30%
Short shrub S2	1-2m	–	sparse, ca. 5% coverage	5-10m	40%
Herbaceous		60%	Loni jap - 30%, Toxi rad - 30% (both species prostrate)	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Toxi rad - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	6					7	Quer nig		
	6	5					6	Liqu sty		
		5					5	Celt lae		
					7		7	Loni jap		
					7	S	7	Toxi rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.331 Page 1

County:_____ Park: NATR Plot Code: AS129 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** 4109 (Cherrybark oak - water oak forest)

Survey date: 10/20/05 **Surveyors:** AI Schnitz

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 706247 N 3550185 W

GPS File Name AS129 **Coordinate accuracy** 9 (m)/ ft **DOP** _____ **# sats** 7 **Elevation** 100 (m)/ ft

Directions or nearby Mile marker:
Ca. 0.2 road miles NNE of Milemarker 53 ca. 60 feet ESE of NT.

Measured Slope
0 ° _____ %

Measured Aspect
_____ ° (N=0°)

Topographic Position
X Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
__ Low level (terrace)
__ Channel bed
Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
___% Bedrock
___% Large rocks (cobbles, boulders >10cm)
___% Small rocks (gravel, 0.2-10 cm)
___% Sand (0.1-2 mm)
80 % Litter, duff
20 % Wood (> 1 cm)
____% Water
____% Bare soil
____% Bryophyte/lichen
____% Other _____

Leaf type:
X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community
Upland hardwood forest primarily characterized by Quercus pagoda in the canopy. Quercus nigra and Liquidambar styraciflua are also present but slightly lesser abundance. Polystichum acrostichoides is common in the herb layer. A deep, steeply-incized stream channel transverses the southwestern portion of the plot.

Comments Surrounding vegetation is similar to that in plot. Quercus nigra is present but not in plot.

Disturbance and animal use comments: Lonicera japonica is present but not severe.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: _____ **Park:** NATR **Plot Code:** AS29 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	35-50m	50%	Quer pag - 30%, Cary cor - 20%	.5-1m	10%
Understory T3	15-20m	50%	Liqu sty - 30%, Cary cor - 20%, Ulmu rub - 10%	1-2m	20%
Tall shrub S1	2-5m	50%	Cary cor - 20%, Acer bar - 10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous	–	30%	Poly acr - 10%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Viti rot - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Quer pag		
	6	6					7	Cary cor		
		6					6	Liqu sty		
		5					5	Ulmu rub		
					5		5	Poly acr		
						5	5	Viti rot		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.332 Page 1

County:_____ Park: NATR Plot Code: AS135 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 4771 (East Gulf Coastal Plain oak–sweetgum small stream floodplain forest)

Survey date: 10/21/05 Surveyors: Al Schotz

Datum _WGS 84_ ~~Lat/long~~ UTM (decimal degrees): 702606 N 3543751 W

GPS File Name AS135 Coordinate accuracy 6 (m) ft DOP _____ # sats 6 Elevation 48 (m) ft

Directions or nearby Mile marker:
NW side of NT at point ca. 0.5 road miles SSW of mile marker 49.

Measured Slope
0 ° ____ %

Measured Aspect
____ ° (N=0°)

Topographic Position
__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
X Low level (terrace)
__ Channel bed
Cowardin System __ *Upland*: XERIC : DRY-MESIC : (MESIC)
✓ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
__ Well drained
X Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
__ % Bedrock
__ % Large rocks (cobbles, boulders >10cm)
__ % Small rocks (gravel, 0.2-10 cm)
__ % Sand (0.1-2 mm)
60 % Litter, duff
10 % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:
X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community
Mature bottomland forest characterized by Fraxinus pennsylvanica, Quercus nigra, Celtis laevigata, Quercus pagoda, and Liquidambar styraciflua in the canopy. Overall, Quercus nigra and Liquidambar appear to be the prominent species (looking beyond plot). The shrub layers are fairly dense, with Hatesia diptica serving as the major species. The herbaceous component is rich and varied.

Comments Roughly 50 meters to the NE forest is early- to mid-successional hardwoods (mostly sweetgum and green ash); ca. 40 meters SSW forest is also relatively young hardwoods, appearing sides appear similar to that in plot.

Disturbance and animal use comments: Ligustrum sinense and Lonicera japonica present but not bad.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS135 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	35-50m	40%	Frax pen - 20%, Quer nig - 20%	.5-1m	10%
Understory T3	15-20m	60%	Ligu sty - 30%, Frax pen - 20%	1-2m	20%
Tall shrub S1	2-5m	70%	Hale dip - 40%,	2-5m	30%
Short shrub S2	1-2m	30%	Hale dip - 10%, Frax pen - 10%	5-10m	40%
Herbaceous		30%	Carex sp. (no fruit present - Ovales subgroup) - 10%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		30%	Smil rot - 10%, Viti rot - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Polygonum virginianum, Carya cordiformis, Quercus pagoda Acer negundo				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6	6		5			6	Frax pen		
	6						6	Quer nig		
		7					7	Ligu sty		
			7	5			7	Hale dip		
					5		5	Carex sp.		
						5	5	Smil rot		
						5	5	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.333 Page 1

County:_____ Park: NATR Plot Code: AS134 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 2427 (green ash-elm-sugarberry forest)

Survey date: 10/21/05 Surveyors: AJSchatz

Datum __WGS 84__ ~~Lat/Long~~ UTM (decimal degrees): 702671 N 3543798 W

GPS File Name AS134 Coordinate accuracy 5 (m)/ ft DOP _____ # sats 7 Elevation 47 (m)/ ft

Directions or nearby Mile marker:
NW side of NT at a point ca. 0.5 road miles SSW of Mile Marker 49.

Measured Slope
0 ° ____ %

Measured Aspect
____ ° (N=0°)

Topographic Position
__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
X Low level (terrace)
__ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
X *Palustrine* __*Lacustrine* · __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated X Irregularly flooded

Soil texture:
__Sand __Sandy loam
__Sandy clay loam
__Loam __Silt loam
__Silt/ Silty clay loam
X Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
__Well drained
__Moderately well drained
X Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover
__ __% Bedrock
__ __% Large rocks (cobbles, boulders >10cm)
__ __% Small rocks (gravel, 0.2-10 cm)
__ __% Sand (0.1-2 mm)
80 % Litter, duff
20 % Wood (> 1 cm)
____% Water
____% Bare soil
____% Bryophyte/lichen
____% Other _____

Leaf type:
X Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community
Mid-successional Fraxinus pennsylvanica forest accented with a lesser amount of Quercus nigra and Liquidambar styraciflua in the canopy. The shrub layers are fairly open primarily comprised of Ulmus americana and in slightly lesser abundance, Quercus nigra. Herbs are relatively diverse. Site becomes flooded during times of heavy rainfall, as suggested by silt covered leaves.

Comments Just beyond NNE side of plot mature willow oak-dominated is apparent (willow oaks are larger than trees in plot); ca. 40 - 50 meters SSW is Plot# AS135 where trees are also larger; remaining sides are similar to vegetation in plot.

Disturbance and animal use comments: Lonicera japonica and Ligustrum sinense are present but not bad.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS134 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20m	60%	Frax pen - 40%, Ligu sty - 20%	.5-1m	10%
Understory T3	10-15m	30%	Ulmu ame - 20%, Ligu sty - 10%	1-2m	20%
Tall shrub S1	2-5m	30%	Ulmu ame - 20%	2-5m	30%
Short shrub S2	1-2m	30%	Quer nig - 20%	5-10m	40%
Herbaceous	—	50%	Carex sp. (No fruit present - Ovales subgroup) - 20%	10-15m	50%
Non-vascular	—	→		15-20m	60%
Vine/liana		10%	Toxi rad - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Polygonum Virginianum				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Frax pen		
	6	5					6	Ligu sty		
		6	6				7	Ulmu ame		
				6			6	Quer nig		
					6		6	Carex sp		
						5	5	Toxi rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.334

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ Park: NATR Plot Code: AS132 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 7353 (Sweetgum - Cherrybark Oak Floodplain Forest)

Survey date: 10/21/05 Surveyors: Al Schotz

Datum _WGS 84_ ~~Lat/long~~ UTM (decimal degrees): 702623 N 3543575 W

GPS File Name AS132 Coordinate accuracy 60 (m) / ft DOP _____ # sats 7 Elevation 48 (m) / ft

Directions or nearby Mile marker:
SE side of NT at a point ca. 0.5 road miles SSW of Mile Marker 49.

Measured Slope
0 ° ____ %

Measured Aspect
____ ° (N = 0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- / Silt/ Silty clay loam
- X Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- X Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- ___ % Bedrock
- ___ % Large rocks (cobbles, boulders > 10cm)
- ___ % Small rocks (gravel, 0.2-10 cm)
- ___ % Sand (0.1-2 mm)
- 70 % Litter, duff
- 30 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

High quality bottomland forest with a prominence of Quercus pagoda in the canopy. Other canopy species include, off and in plot, Quercus nigra, Quercus phellos, Fraxinus pennsylvanica, Liquidambar styraciflua, and Platanus occidentalis. The ground cover is diverse, but primarily comprised of sprawling Toxicodendron and Carex sp.

Comments Surrounding vegetation appears similar to that in plot.

Disturbance and animal use comments: Ligustrum sinense is becoming locally abundant, assuming a patchy distribution.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: MS132 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	35-50m	70%	Quer pag - 50%, Quer nig - 20%	.5-1m	10%
Understory T3	15-20m	40%	Ligu sty - 20%, Quer phe - 10%	1-2m	20%
Tall shrub S1	2-5m	50%	Ilex lon - 20%, Itea dip - 10%	2-5m	30%
Short shrub S2	1-2m	20%		5-10m	40%
Herbaceous		70%	Toxi rad - 30% (prostrate growth), Carex sp - 20%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		30%	Toxi rad - 30%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Ulmus americana, Carpinus caroliniana, Platanus occidentalis, Boehmeria cylindrica, Leersia virginica, Fraxinus pennsylvanica				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Quer pag		
	6						6	Quer nig		
		6					6	Ligu sty		
		5					5	Quer phe		
			6				6	Ilex lon		
			5				5	Itea dip		
					7	7	8	Toxi rad		
					6		6	Carex sp.		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.335 Page 1

County:_____ Park: NATR Plot Code: AS131 State: AL (MS) TN Location org: NPS

Location name Owens Creek Waterfall Provisional community name 7244 (Southern red oak-white oak mixed oak forest)

Survey date: 10/21/05 Surveyors: Al Schotz

Datum _WGS 84_ ~~Lat/long~~ UTM (decimal degrees): 705175 N 3549248 W

GPS File Name AS131 Coordinate accuracy 9 (m) / ft DOP _____ # sats 6 Elevation 121 (m)/ ft

Directions or nearby Milemarker:
Ca. 100 feet west of Owens Creek parking area.

Measured Slope
0 ° ____ %

Measured Aspect
_____ ° (N=0°)

Topographic Position
X Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
__ Low level (terrace)
__ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand __Sandy loam
__Sandy clay loam
__Loam __Silt loam
X Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
X Well drained
__Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover
___% Bedrock
___% Large rocks (cobbles, boulders >10cm)
___% Small rocks (gravel, 0.2-10 cm)
___% Sand (0.1-2 mm)
30 % Litter, duff
20 % Wood (> 1 cm)
____% Water
____% Bare soil
____% Bryophyte/lichen
____% Other _____

Leaf type:
X Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)
__Evergreen
X Cold-deciduous
__Mixed evergreen-cold-deciduous
__Herb - Annual
__Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__Woodland (open tree canopy)
__Shrubland
__Dwarf Shrubland
__Herbaceous (less than 25% woody layers)
__Nonvascular
__Sparse Vegetation

Qualitative description of Community

Nice site! Good quality hardwood forest dominated by mature Quercus alba. Other canopy species, though of sparser distribution, include Quercus falcata, Fagus grandifolia, and Nyssa sylvatica. Fagus is abundant in the understory, especially the shrub layers. Herbs are generally sparse, with the exception of Arundinaria gigantea, which is patchy. Owens Creek occurs just to the southeast of plot; Fagus is dominant here.

Comments Beech appears to be dominant along Owens Creek, which partially meanders around plot. Otherwise, surrounding vegetation appears to be that in plot.

Disturbance and animal use comments: Nice site – no exotics observed.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS131 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	60%	Quer alb - 40%, Quer fal - 20%	.5-1m	10%
Understory T3	15-20m	50%	Fagu gra - 20%, Acer rub - 10%, Oxyd arb - 10%	1-2m	20%
Tall shrub S1	2-5m	70%	Fagu gra - 50%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous		10%	Arun gig	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Hexastylis arifolia, Mondtropa uniflora, Smilax pumila, Symplocos tinctoria				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Quer alb		
	6						6	Quer fal		
		6	7				7	Fagu gra		
		5					5	Acer rub		
		5					5	Oxyd arb		
					5		5	Arun gig		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.336 Page 1

County:_____ Park: NATR Plot Code: AS130 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name? CEGL00072?1

Survey date: 10/21/05 Surveyors: Al Schotz

Datum _WGS 84_ ~~Lat/Long~~ utm (decimal degrees): 705775 N 3549622 W

GPS File Name AS130 Coordinate accuracy 8 (m)/ ft DOP _____ # sats 6 Elevation 127 (m)/ ft

Directions or nearby Mile marker:
SE side of NT at a point ca. 0.15 road miles SW of Mile Marker 53.

Measured Slope 21 ° ___ %

Measured Aspect 140 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- X Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam X Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- X Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- ___ % Bedrock
- ___ % Large rocks (cobbles, boulders >10cm)
- ___ % Small rocks (gravel, 0.2-10 cm)
- ___ % Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Steep forested slope just above intermittent streambed. Although Liriodendron tulipifera is prominent in plot, as one looks across stream Quercus alba appear dominant. Quercus alba and Fagus grandifolia appear to be prominent understory species. Herb diversity is low, with Arundinaria gigantea and Polystichum acrostichoides are most abundant.

Comments Near top of hill ca. 50 meters SE of plot some Ilex opaca pine attains canopy height; remaining sides appear similar to plot.

Disturbance and animal use comments: Good site - very little exotics - some honeysuckle present.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: MS130 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	50%	Liri tul - 40%, Quer pag - 10%	.5-1m	10%
Understory T3	10-15m	60%	Fagu gra - 30%, Quer alb - 10%	1-2m	20%
Tall shrub S1	2-5m	30%	Fagu gra - 20%	2-5m	30%
Short shrub S2	1-2m	—	sparse, ca. 5% coverage	5-10m	40%
Herbaceous		10%		10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Aralia spinosa, Arundinaria gigantea, Polystichum acrostichoides, Ilex opaca, Ilex vomitoria, Oxydendrum arboreum				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Liri tul		
	5						5	Quer pag		
		7	6				7	Fagu gra		
		5					5	Quer alb		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.337 Page 1

County:_____ Park: NATR Plot Code: W44 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 7353 (Sweetgum - cherrybark oak floodplain forest)

Survey date: 10/21/05 Surveyors: AJ Schatz

Datum WGS 84 UTM (decimal degrees): 706975 N 3550908 W

GPS File Name W44 Coordinate accuracy 8 (m) / ft DOP _____ # sats 5 Elevation 81 (m) / ft

Directions or nearby Mile marker: Ca. 150 feet SE of NT at point ca. 0.9 road miles SW of entrance to Rocky Springs.

Measured Slope 2 ° ____ %

Measured Aspect 110 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- X Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
__ Well drained
X Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
- ___ % Bedrock
- ___ % Large rocks (cobbles, boulders >10cm)
- ___ % Small rocks (gravel, 0.2-10 cm)
- ___ % Sand (0.1-2 mm)
- 70 % Litter, duff
- 30 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

Bottomland forest characterized by a canopy comprised of large Pinus taeda and Quercus pagoda. Other trees in the canopy, though not as large, are Liquidambar styraciflua, Quercus nigra, and Platanus occidentalis. Ulmus alata, Cornus florida, and Carpinus caroliniana appear to be prominent throughout. Principal herbs include Chasmanthium sessiliflorum and Polystichum acrostichoides, with Amphicarpaea bracteata occurring in slightly lesser abundance.

Comments Surrounding vegetation is similar to plot.

Disturbance and animal use comments: Lonicera japonica is present but not bad.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: W44 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	35-50m	60%	Quer pag-30%, Pinu tae-20%, Liqu sty-10%	.5-1m	10%
Understory T3	15-20m	30%	Liqu sty-20%	1-2m	20%
Tall shrub S1	2-5m	30%	Corn flo-20%, Ulmu ala-10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous		30%	Poly acu-10%, Chas ses-10%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Viti rot-10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Lindera benzoin, Carpinus caroliniana, Magnolia grandiflora				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Quer pag		
	6						6	Pinu tae		
	56						6	Liqu sty		
			6				6	Corn flo		
			5				5	Ulmu ala		
					5		5	Poly acr		
					5		5	Chas ses		
						5	5	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.338 Page 1

County:_____ Park: NATR Plot Code: W4D State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 8450 (successional loblolly pine-oak forest)

Survey date: 10/21/05 Surveyors: Al Schotz

Datum WGS 84 UTM (decimal degrees): 707456 N 3551511 W

GPS File Name W4D Coordinate accuracy 9 (m) / ft DOP _____ # sats 6 Elevation 109 (m) / ft

Directions or nearby Mile marker:
Ca. 120 SE of NT at a point ca. 0.4 road miles SW of entrance to Rocky Springs.

Measured Slope 3 ° ___ %

Measured Aspect 90 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ Toeslope (alluvial toeslope)
- X High Slope (upper slope, convex slope)
- __ Low level (terrace)
- X Midslope (middle slope)
- __ Channel bed
- __ Lowslope (lower slope, footslope)

Cowardin System (Upland): XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine:*
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 70 % Litter, duff
- 30 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Late-successional loblolly pine forest with hardwoods (namely cherrybark oak) attaining canopy height. Water oak and sweetgum also occur but not common. Shrub layers are primarily composed of Cornus florida, Ulmus alata, and Ostrya virginiana. Herb layer is very sparse with an occasional clump of Polystichum acrostichoides and Chasmanthium sessiliflorum.

Comments Just to the NE pine is absent; remaining sides appear similar to plot.

Disturbance and animal use comments: Lonicera japonica present but scarce.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: WHD State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	20-35m	60%	Pinu tae - 40%, Quer pag - 20%
Understory T3	10-15m	50%	Corn flo - 30%, Liqu sty - 20%
Tall shrub S1	2-5m	30%	Ulmu ala - 10%, Ostr vir - 10%
Short shrub S2	1-2m	10%	
Herbaceous	–	–	very sparse, ca. 2% coverage
Non-vascular	–	–	
Vine/liana		10%	Viti rot - 10%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):			

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
	6						6	Quer pag		
		7					7	Corn flo		
		6					6	Liqu sty		
			5				5	Ulmu ala		
			5				5	Ostr vir		
						5	5	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.339 Page 1

County:_____ Park: NATR Plot Code: W39 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 7335

Survey date: 10/21/05 Surveyors: AJ Schotz

Datum WGS 84 UTM (decimal degrees): 707606 N 3552622 W

GPS File Name W39 Coordinate accuracy 10 (m) ft DOP _____ # sats 5 Elevation 60 (m) ft

Directions or nearby Mile marker:
Rocky Springs Campground

Measured Slope
0 ° ____ %

Measured Aspect
_____ ° (N = 0°)

Topographic position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- X Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
X *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated X Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
__ Well drained
X Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
__ % Bedrock
__ % Large rocks (cobbles, boulders >10cm)
__ % Small rocks (gravel, 0.2-10 cm)
__ % Sand (0.1-2 mm)
90 % Litter, duff
10 % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:
X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

Open canopied, small stream bottomland forest with a dense understory of Ostrya Virginiana and Carpinus caroliniana. Bounding the north to the southeastern portion of the plot is a series of steep slopes forested with Quercus spp., Fagus grandifolia, and Acer barbatum. A stream bisects the western of the plot, which, on the opposite side is the same type of bottomland situation.

Comments See above description.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ Park: NATR Plot Code: W39 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	30%	Liqu sty - 10%, Plat occ - 10%, Quer nig - 10%	.5-1m	10%
Understory T3	5-10m	20%	Ost vir - 20%	1-2m	20%
Tall shrub S1	2-5m	70%	Carp car - 30%, Ost vir - 30%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous		20%	Chas ses - 10%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		20%	Viti rot - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Carex digitalis, Chasmanthium latifolium, Polystichum acrostichoides				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	5						5	Liqu sty		
	5						5	Plat occ		
	5						5	Quer nig		
		6	7				7	Ost vir		
			7				7	Carp car		
					5		5	Chas ses		
						5	5	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR. 340 Page 1

County:_____ Park: NATR Plot Code: W46 State: AL MS TN Location org: NPS

Location name _____ Provisional community name 6011 (early- to mid-successional loblolly pine forest)

Survey date: 10/21/05 Surveyors: Al Schotz

Datum _WGS 84_ ~~Lat/long~~ UTM (decimal degrees): 711051 N 3556066 W

GPS File Name W46 Coordinate accuracy 7 (m) / ft DOP _____ # sats 6 Elevation 57 (m) / ft

Directions or nearby Mile marker:
Nearly 0.1 road mile NE of Mile Marker 58, NW side of NT.

Measured Slope
2 ° ____ %

Measured Aspect
270 ° (N = 0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
__ % Bedrock
__ % Large rocks (cobbles, boulders > 10cm)
__ % Small rocks (gravel, 0.2-10 cm)
__ % Sand (0.1-2 mm)
90 % Litter, duff
10 % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:
__ Broad-leaved
X Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
X Evergreen
__ Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community
Young - successional loblolly pine forest.

Comments Surroundings are identical to plot.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: _____ **Park:** NATR **Plot Code:** W46 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20m	80%	Pinu tae - 80%	.5-1m	10%
Understory T3	5-10m	20%	Liqu sty - 20%	1-2m	20%
Tall shrub S1	2-5m	40%	Liqu sty - 20%, Ulmu a/a - 20%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous	—	—	very sparse - ca. 2% coverage	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	9						9	Pinu tae		
		6	6				7	Liqu sty		
			6				6	Ulmu a/a		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR. 341 Page 1

County:_____ Park: NATR Plot Code: W34 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 8450 (successional loblolly pine-oak forest)

Survey date: 10/21/05 Surveyors: Al Schotz

Datum WGS 84 UTM (decimal degrees): 694270 N 3541045.6 W

GPS File Name W34 Coordinate accuracy 7 (m) / ft DOP _____ # sats 6 Elevation 72 (m) / ft

Directions or nearby Mile marker:
Ca. 0.4 road miles SSW of Mile Marker 43, west side of NT.

Measured Slope 9 ° ___ %

Measured Aspect 130 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
__ % Bedrock
__ % Large rocks (cobbles, boulders >10cm)
__ % Small rocks (gravel, 0.2-10 cm)
__ % Sand (0.1-2 mm)
90 % Litter, duff
10 % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:
X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
__ Cold-deciduous
X Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community
Late-successional loblolly pine forest, with a relict chestnut oak ca. 2.0 cm dbh.

Comments Ca. 30-40 meters south of plot pines become absent; NT is just to the east; remaining sides appear similar to plot.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: W34 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1	20-35m	20%	Quer pag - 20%	< .5m	5%
Tree Canopy T2	15-20m	40%	Pinu Tae - 40%	.5-1m	10%
Understory T3	5-10m	30%	Quer pag-20%, Quer nig - 10%	1-2m	20%
Tall shrub S1	2-5m	50%	Ulmu alA-20%, Quer pag-20%	2-5m	30%
Short shrub S2	1-2m	–	sparse, ca. 5% coverage	5-10m	40%
Herbaceous	–	–	very sparse, ca. 2% coverage	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Bacc sca - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom Emrg	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
6		6	6				7	Quer pag - 20%		
	7						7	Pinu Tae		
		5					5	Quer nig		
			6				6	Ulmu alA		
						5	5	Bacc sca		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.342

County:_____ Park: NATR Plot Code: W31 State: AL (MS) TN Location org: NPS 6011

Location name _____ Provisional community name ~~8462~~ (Mid- to late-successional loblolly pine-sweetgum forest)

Survey date: 10/21/05 Surveyors: Al Schotz

Datum WGS 84 Lat/Long (decimal degrees): 693059 N 3538416 W

GPS File Name W31 Coordinate accuracy 8 (m) ft DOP ____ # sats 6 Elevation 60 (m) ft

Directions or nearby Mile marker:
ca. 150 ft east of NT at a point ca. 100 ft south of State Route 18.

Measured Slope 4 ° ____ %

Measured Aspect 130 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- X Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- ____% Bedrock
- ____% Large rocks (cobbles, boulders >10cm)
- ____% Small rocks (gravel, 0.2-10 cm)
- ____% Sand (0.1-2 mm)
- 70 % Litter, duff
- 30 % Wood (> 1 cm)
- ____% Water
- ____% Bare soil
- ____% Bryophyte/lichen
- ____% Other _____

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- X Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mid- to late-successional loblolly pine forest with a dense understory comprised of various hardwoods, most notably sweetgum, winged elm, and flowering dogwood. Herb layer is very sparse with an occasional patch of *Chasmanthium sessiliflorum*.

Comments Surrounding area looks similar to plot.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ Park: NATR Plot Code: W31 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	50%	Pinu tae - 50%	.5-1m	10%
Understory T3	10-15m	30%	Liqu sty - 30%	1-2m	20%
Tall shrub S1	2-5m	60%	Ulmu a/a - 30%, Corn flo - 20%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous	—	—	very sparse, ca. 3% coverage	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		20%	Toxi rad - 20%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
		7					7	Liqu sty		
			7				7	Ulmu a/a		
			6				6	Corn flo		
						6	6	Toxi rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.343 Page 1

County:_____ Park: NATR Plot Code: W3D State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 5033 (box-elder floodplain forest)

Survey date: 10/21/05 Surveyors: Al Schotz

Datum WGS 84 ~~UTM~~ Easting (decimal degrees): 692597 N 3537338 W

GPS File Name W3D Coordinate accuracy 7 (m)/ ft DOP _____ # sats 7 Elevation 35 (m)/ ft

Directions or nearby Mile marker:
Roughly 60 feet west of NT about 400 feet north of Little Bayou Pierre.

Measured Slope
0 ° _____ %

Measured Aspect
_____ ° (N=0°)

Topographic Position
__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
X Low level (terrace)
__ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
X *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated X Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
__ Silt/ Silty clay loam
X Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
__ Well drained
__ Moderately well drained
X Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
___ % Bedrock
___ % Large rocks (cobbles, boulders >10cm)
___ % Small rocks (gravel, 0.2-10 cm)
___ % Sand (0.1-2 mm)
100 % Litter, duff
____ % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:
X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community
Young Acer negundo forest with a very dense understory of Arundinaria gigantea. Other trees such as Ulmus americana and Celtis laevigata are present but sparse.

Comments Roughly 30 meters north are larger trees (edge of manicured lawn) composed of water oak and honey locust; otherwise, remaining surroundings appear similar to plot.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: W3D State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	5-10m	70%	Acer neg - 60%, Ulmu ame - 10%	.5-1m	10%
Understory T3	~	~		1-2m	20%
Tall shrub S1		10%		2-5m	30%
Short shrub S2	~	—	sparse, ca. 5% coverage	5-10m	40%
Herbaceous		90%	Parthenocissus quinquefolia - 90%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Camp rad - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8						8	Acer neg		
	5						5	Ulmu ame		
					9		9	Arun gig		
						5	5	Camp rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR. 344 Page 1

County:_____ Park: NATR Plot Code: W27 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 4169 (Quercus alba - water oak forest)

Survey date: 10/21/05 Surveyors: AJ Schotz

Datum WGS 84 Lat/Long (decimal degrees): 688854 N 3533643 W (UTM)

GPS File Name W27 Coordinate accuracy 6 (m) ft DOP _____ # sats 6 Elevation 91 (m) ft

Directions or nearby Mile marker: Ca. 120 feet west of NT just south of Mile Marker 37.

Measured Slope 5 ° ___ %

Measured Aspect 110 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Quercus nigra - dominated slope forest with a scattering of Quercus pagoda and Liquidambar in the canopy. Liquidambar appears to be more common in the subcanopy. Arundinaria gigantea is abundant but patchy. Plot is just west of an intermittent stream. Soils appear to loess.

Comments For the most surrounding vegetation is similar to plot, with the exception along stream where sweetgum appears most common.

Disturbance and animal use comments: Lonicera japonica is common; Ligustrum sinense sparse.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: W27 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	40%	Quer nig - 30%, Quer pag - 10%	.5-1m	10%
Understory T3	10-15m	50%	Liqu sty - 30%, Quer nig 20%	1-2m	20%
Tall shrub S1	2-5m	50%	Frax ame - 20%, Carp car - 10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous		80%	Asun gig - 50%, Toni jap - 20% (prostrate)	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		30%	Viti rot - 20%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Polystichum acrostichoides, Chasmanthium sessiliflorum				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	6					7	Quer nig		
	5						5	Quer pag		
		7					7	Liqu sty		
			6				6	Frax ame		
			5				5	Carp car		
					7		7	Asun gig		
					6		6	Toni jap		
						6	6	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.345 Page 1

County:_____ Park: NATR Plot Code: W28 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name? 4122

Survey date: 10/21/05 Surveyors: Al Schotz

Datum _WGS 84_ ~~Lat/long~~ UTM (decimal degrees): 686755 N 3529556 W

GPS File Name W28 Coordinate accuracy 8 (m) / ft DOP _____ # sats 7 Elevation 134 (m) ft

Directions or nearby Mile marker: Ca. 150 feet west of MT at a point ca. 0.2 road miles south of Mile Marker 34.

Measured Slope 10 ° ___ %

Measured Aspect 270 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* · __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
X Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 50 % Litter, duff
- 20 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mesic slope forest containing a mature canopy Carya cordiformis, Liquidambar styraciflua, and some Quercus nigra. The understory is similar but also contains Magnolia macrophylla. The shrub layers are relatively dense being primarily represented by Ostrya Virginiana, as well as smaller examples of the above-mentioned species. Rhus aromatica gigantea predominates the herb layer.

Comments Surrounding vegetation appears similar to that in plot.

Disturbance and animal use comments: Lonicera japonica is present but relatively sparse.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: _____ **Park:** NATR **Plot Code:** W28 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	60%	Liqu sty - 30%, Cary cor - 20%, Quer nig - 10%	.5-1m	10%
Understory T3	10-15m	50%	Magn mac - 20%, Liqu sty - 20%	1-2m	20%
Tall shrub S1	2-5m	30%	Ostr vir - 20%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous		60%	Arun gig - 50%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Viti rot - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Asimina triloba, Fagus grandifolia, Magnolia grandiflora, Morus rubra, Acer barbatum, Polystichum acrostichoides)				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	6					7	Liqu sty		
	6						6	Cary cor		
	5						5	Quer nig		
		6					6	Magn mac		
			6				6	Ostr vir		
					7		7	Arun gig		
						5	5	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.346 Page 1

County:_____ Park: NATR Plot Code: W3 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 4109 (Cherrybark oak - water oak Forest)

Survey date: 10/22/05 Surveyors: Al Schotz

Datum WGS 84 UTM (decimal degrees): 661737 N 3494234 W

GPS File Name W3 Coordinate accuracy 8 (m) / ft DOP _____ # sats 6 Elevation 102 (m) ft

Directions or nearby Mile marker:
NW side of NT at a point roughly 0.2 road mile SW of Mile Marker 5.

Measured Slope 16 ° ____ %

Measured Aspect 50 ° (N=0°)

Topographic Position
- Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- Midslope (middle slope)
- Lowslope (lower slope, footslope)
- Toeslope (alluvial toeslope)
- Low level (terrace)
- Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
Palustrine *Lacustrine* *Riverine*:
Permanently flooded Semipermanently flooded Temporarily flooded
Seasonally flooded Saturated Irregularly flooded

Soil texture:
Sand Sandy loam
Sandy clay loam
Loam X Silt loam
Silt/ Silty clay loam
Silty clay Clay
Muck Peat

Drainage:
Rapidly drained
X Well drained
Moderately well drained
Somewhat poorly drained
Poorly drained
Very poorly drained

Ground cover
__% Bedrock
__% Large rocks (cobbles, boulders >10cm)
__% Small rocks (gravel, 0.2-10 cm)
__% Sand (0.1-2 mm)
90 % Litter, duff
10 % Wood (> 1 cm)
____% Water
____% Bare soil
____% Bryophyte/lichen
____% Other _____

Leaf type:
X Broad-leaved
Needle-leaved
Graminoid
Broad-leaved herbaceous
Pteridophyte
Mixed

Leaf phenology (dominant stratum)
Evergreen
X Cold-deciduous
Mixed evergreen-cold-deciduous
Herb - Annual
Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
Woodland (open tree canopy)
Shrubland
Dwarf Shrubland
Herbaceous (less than 25% woody layers)
Nonvascular
Sparse Vegetation

Qualitative description of Community

Open canopied cherrybark oak - water oak forest with a dense shrub layer. As one moves away from the plot (e.g., downslope) the sub-canopy reappears and the shrub layer becomes less pronounced. The plot is situated at the ENE edge of a bahia grass field that contains a scattering of large trees including Quercus pagoda, Quercus virginiana, and Juniperus virginiana.

Comments South and SW sides is a bahia grass field with scattering of large trees; remaining sides are similar but contain a sub-canopy component. A 20-meter tall loblolly also occurs near plot (in bahia grass field adjacent to NT).

Disturbance and animal use comments: Lonicera japonica and Ligustrum sinense are present but not severe.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ Park: NATR Plot Code: MS3 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	50%	Quer nig-20, Quer pag-20%, Cary gla-10%	.5-1m	10%
Understory T3	—	—		1-2m	20%
Tall shrub S1	2-5m	80%	Frax ame-20%, Ulmu ala-20%, Juni vir-10%	2-5m	30%
Short shrub S2	1-2m	30%	Ulmu ala-10%	5-10m	40%
Herbaceous		30%	Chas ses-20%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Toxi rad-10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Polystichum acrostichoides				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6						6	Quer nig		
	6						6	Quer pag		
	5						5	Cary gla		
			6				6	Frax ame		
			6	5			6	Ulmu ala		
			5				5	Juni vir		
					6		6	Chas ses		
						5	5	Toxi rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR. 347

County:_____ Park: NATR Plot Code: W1 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 4109 (Quercus pagoda - Quercus nigra forest)

Survey date: 10/22/05 Surveyors: Al Schotz

Datum WGS 84 ~~Lat/Long~~ UTM (decimal degrees): 658429 N 3492857 W

GPS File Name W1 Coordinate accuracy 7 (m) ft DOP _____ # sats 6 Elevation 88 (m) ft

Directions or nearby Mile marker:
Predetermined plot fell within maintained highway - vegetation sample offset 50 feet south to encompass forest. Cu2

Measured Slope 2 ° ___ %

Measured Aspect 6 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Miles north of Natchez, MS turn left

Ground cover
- ___ % Bedrock
- ___ % Large rocks (cobbles, boulders >10cm)
- ___ % Small rocks (gravel, 0.2-10 cm)
- ___ % Sand (0.1-2 mm)
- 80 % Litter, duff
- 20 % Wood (> 1 cm)
- ___ % Water
- ___ % Bare soil
- ___ % Bryophyte/lichen
- ___ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mature Quercus nigra-dominated forest, with a lesser amount of Quercus pagoda and Liquidambar styraciflua in the canopy. Tall shrub layer is relatively dense, whereas short shrubs are sparse. The herbaceous component is patchy, with Polystichum acrostichoides and Chasmanthium sessiliflorum serving as principal species and Desmodium perplexum, Botrychium dissectum, and sprawling Lonicera japonica as minor components.

Comments To the west ca. 200 feet loblolly pine is scattered in canopy; remaining surroundings appear similar to that in plot.

Disturbance and animal use comments: Some Lonicera present but not prod.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ Park: NATR Plot Code: W1 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	Quer nig - 40%, Quer pag - 20%, Liqu sty - 10%	.5-1m	10%
Understory T3	10-15m	40%	Quer nig - 20%, Quer pag - 10%, Liqu sty - 10%	1-2m	20%
Tall shrub S1	2-5m	50%	Ostr vir - 30%, Corn flo - 10%	2-5m	30%
Short shrub S2	1-2m	—	Rare, ca. 5% coverage	5-10m	40%
Herbaceous		30%	Poly acr - 10%, Chas ses - 10%	10-15m	50%
Non-vascular	>	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	6					8	Quer nig		
	6	5					6	Quer pag		
	5	5					5	Liqu sty		
			7				7	Ostr vir		
			5				5	Corn flo		
					5		5	Poly acr		
					5		5	Chas ses		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.348 Page 1

County:_____ Park: NATR Plot Code: W2 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name Grassland/Herbaceous NLCD #71

Survey date: 10/22/05 Surveyors: Al Schotz

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 656731 N 3491966 W

GPS File Name W2 Coordinate accuracy 6 (m) / ft DOP _____ # sats 6 Elevation 61 (m) / ft

Directions or nearby Mile marker:
East side of NT ca. 1.5 road miks north of parkway terminus in Natchez.

Measured Slope
0 ° ____ %

Measured Aspect
____ ° (N=0°)

Topographic Position
__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
X Low level (terrace)
__ Channel bed
Cowardin System X *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
X Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
__ % Bedrock
__ % Large rocks (cobbles, boulders >10cm)
__ % Small rocks (gravel, 0.2-10 cm)
__ % Sand (0.1-2 mm)
____ % Litter, duff
____ % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____
* Completely vegetated

Leaf type:
__ Broad-leaved
__ Needle-leaved
__ Graminoid
X Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
__ Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
X Herb - Perennial

Physiognomic Class
__ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
X Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

Solidago canadensis - dominated field; no woody vegetation present. Association encompasses 10-15 acres.

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ Park: NATR Plot Code: W2 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2			
Understory T3			
Tall shrub S1			
Short shrub S2			
Herbaceous		100%	Soli can - 80%
Non-vascular			
Vine/liana			

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Andropogon glomeratus, Conyza canadensis, Rubus trivialis, Verbena brasilensis

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

*T2: Tree Canopy | **T3** Subcanopy | **S1** Tall Shrub (>1m to 5m) | **S2** Short Shrub (< 1m) | **H** Herbaceous | **V** Vines (lianas)*

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
					8		8	Soli can		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.349

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: W49 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 7244 (southern red oak - white oak mixed oak forest) 8450

Survey date: 10/19/05 Surveyors: Al Schotz

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 716714 N 3559979 W

GPS File Name W49 Coordinate accuracy 9 (m)/ ft DOP _____ # sats 6 Elevation 89 (m)/ ft

Directions or nearby Mile marker:
Roughly 200 feet NW of NT at a point ca. 0.4 road miles NE of mile marker 62.

Measured Slope
8 ° ____ %

Measured Aspect
120 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : (DRY-MESIC) : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- ___ % Bedrock
- ___ % Large rocks (cobbles, boulders >10cm)
- ___ % Small rocks (gravel, 0.2-10 cm)
- ___ % Sand (0.1-2 mm)
- 80 % Litter, duff
- 20 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community
Mature loblolly pine-hardwood forest characterized by a prominence of Pinus taeda, Quercus falcata, Quercus alba, and Quercus spp. Although a large Liriodendron occurs within the plot, the species is sparse. Quercus falcata is quite common throughout but sparse in plot, the shrub layers are various, but is for the most part represented by Ostrya virginiana. Frasinaria gigantea is the most abundant herb.

Comments Surrounding vegetation appears similar to that in plot.

Disturbance and animal use comments: Lonicera japonica is present but sparse.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: W49 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	20-35m	60%	Pinu tae-30%, Liri tul-20%, Quer fal-10%
Understory T3	10-15m	40%	Carya gla-20%, Quer alb-10%
Tall shrub S1	2-5m	50%	Ostr vir-30%,
Short shrub S2	1-2m	10%	
Herbaceous		20%	Arun gig-20%
Non-vascular	—	—	
Vine/liana		20%	Viti aot-10%, Bere sca-10%

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
	6						6	Liri tul		
	5						5	Quer fal		
		6					6	Carya gla		
		5					5	Quer alb		
			7				7	Ostr vir		
					6		6	Arun gig		
						5	5	Viti aot		
						5	5	Bere sca		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.350

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS76 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** 7244 (Southern red oak-white oak mixed oak forest)

Survey date: 9/29/05 **Surveyors:** AJ Schotz

Datum _WGS 84_ UTM Easting (decimal degrees): 268797 N 3670678 W

GPS File Name AS76 **Coordinate accuracy** 8 (m) ft **DOP** _____ **# sats** 6 **Elevation** 193 (m) ft

Directions or nearby Mile marker:
NW quadrant of the junction of the NT and Cmty Road 2247

Measured Slope 5 ° ____ %

Measured Aspect 180 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
- ___ % Bedrock
- ___ % Large rocks (cobbles, boulders >10cm)
- ___ % Small rocks (gravel, 0.2-10 cm)
- ___ % Sand (0.1-2 mm)
- 50 % Litter, duff
- 20 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mature, Quercus alba-dominated forest, with a lesser abundance of Quercus falcata, Quercus stellata, and Carya alba. Pinus echinata is also present, but widely scattered. The shrub layer is relatively open, often covered with vines where the canopy is most open.

Comments Surrounding vegetation is similar to that of plot.

Disturbance and animal use comments: No exotics observed.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: _____ **Park:** NATR **Plot Code:** NATR **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	20-35m	70%	Quer alb - 60%
Understory T3	15-20m	40%	Quer fal - 20%, Fagu gra - 10%
Tall shrub S1	2-5m	20%	Nyss syl - 10%
Short shrub S2	1-2m	10%	
Herbaceous	—	—	very sparse, ca. 3% coverage
Non-vascular	—	—	
Vine/liana		20%	Viti rot - 10%, Smil rot - 10%

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Pinus echinata - widely scattered

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8						8	Quer alb		
		6					6	Quer fal		
		5					5	Fagu gra		
			5				5	Nyss syl		
						5	5	Viti rot		
						5	5	Smil rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.351

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: NS77 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 7246

Survey date: 9/30/05 Surveyors: Al Schotz

Datum WGS 84 utm (decimal degrees): 265716 N 3665616 W

GPS File Name NS77 Coordinate accuracy 8 (m) ft DOP ____ # sats 5 Elevation 196 (m) ft

Directions or nearby Mile marker:

Measured Slope 4 ° ____ %

Measured Aspect 150 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- ____ % Bedrock
- ____ % Large rocks (cobbles, boulders >10cm)
- ____ % Small rocks (gravel, 0.2-10 cm)
- ____ % Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mature oak forest dominated by Quercus stellata and Quercus falcata. Pinus taeda is also present in the canopy, but widely spaced. The shrub layer is open, with patches of Vaccinium arboreum, Callicarpa americana, and saplings of the above-mentioned canopy species.

Comments Pinus taeda becomes prominent ca. 60-70 meters to the north; otherwise surrounding vegetation is similar to that of plot.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: _____ **Park:** NATR **Plot Code:** ASM **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	>20m	70%	Quer ste - 50%, Quer fal - 20%
Understory T3	10-15m	50%	Liqu sty - 20%, Cary alb - 10%
Tall shrub S1	2-5m	30%	Vacc arb - 10%, Cary alb - 10%
Short shrub S2	1-2m	—	sparse, ca. 5% coverage
Herbaceous	—	—	sparse, ca. 5% coverage
Non-vascular	—	—	
Vine/liana	—	—	
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):			

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Quer ste		
		6					6	Liqu sty		
		5	5				6	Cary alb		
			5				5	Vacc arb		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.352 Page 1

County:_____ Park: NATR Plot Code: A575 State: AL (MS) TN Location org: NPS 6011

Location name _____ Provisional community name ~~8450~~ (Successional loblolly pine-oak forest)

Survey date: 9/29/05 Surveyors: Al Schotz

Datum _WGS 84_ ~~Easting~~ (decimal degrees): 270884 N 3673684 W

GPS File Name A575 Coordinate accuracy 8 (m) ft DOP _____ # sats 5 Elevation 177 (m) ft

Directions or nearby Mile marker:

Measured Slope 3 ° ___ %

Measured Aspect 210 ° (N=0°)

Topographic Position
- Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- Midslope (middle slope)
- Lowslope (lower slope, footslope)
- Toeslope (alluvial toeslope)
- Low level (terrace)
- Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
Palustrine *Lacustrine* *Riverine*:
Permanently flooded Semipermanently flooded Temporarily flooded
Seasonally flooded Saturated Irregularly flooded

Soil texture:
Sand Sandy loam
Sandy clay loam
Loam X Silt loam
Silt/ Silty clay loam
Silty clay Clay
Muck Peat

Drainage:
Rapidly drained
X Well drained
Moderately well drained
Somewhat poorly drained
Poorly drained
Very poorly drained

Ground cover
__% Bedrock
__% Large rocks (cobbles, boulders >10cm)
__% Small rocks (gravel, 0.2-10 cm)
__% Sand (0.1-2 mm)
70 % Litter, duff
30 % Wood (> 1 cm)
____% Water
____% Bare soil
____% Bryophyte/lichen
____% Other _____

Leaf type:
Broad-leaved
X Needle-leaved
Graminoid
Broad-leaved herbaceous
Pteridophyte
Mixed

Leaf phenology (dominant stratum)
X Evergreen
Cold-deciduous
Mixed evergreen-cold-deciduous
Herb - Annual
Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
Woodland (open tree canopy)
Shrubland
Dwarf Shrubland
Herbaceous (less than 25% woody layers)
Nonvascular
Sparse Vegetation

Qualitative description of Community

Late-successional stage of loblolly pine forest, with a hardwood understory primarily comprised of Quercus alba, Quercus falcata, Acer rubrum, Fraxinus americana, and Oxydendrum arboreum, among others. Blow down is quite extensive in vicinity as a result Hurricanes Katrina/Rita.

Comments Vegetation encompassing plot is similar to plot.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: NS15 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	60%	Pinu tae-60%	.5-1m	10%
Understory T3	10-15m	60%	Quer alb-20%, Acer rub-20%	1-2m	20%
Tall shrub S1	2-5m	30%	Ulmu ala-10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous	–	–	very sparse, ca. 5% coverage	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana		20%	Viti rot-10%, Smil rot-10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Pinus echinata-widely scattered				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8						8	Pinu tae		
		6					6	Quer alb		
		6					6	Acer rub		
			5				5	Ulmu ala		
						5	5	Viti rot		
						5	5	Smil rot		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.353 Page 1

County:_____ Park: NATR Plot Code: AS73 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 6011

Survey date: 9/29/05 Surveyors: Al Schotz

Datum __WGS 84__ ~~Datum~~ (decimal degrees): 27 13 02 N 367272 W

GPS File Name AS73 Coordinate accuracy 8 m / ft DOP _____ # sats 6 Elevation 178 (m) ft

Directions or nearby Mile marker:

Measured Slope 3 ° ___ %

Measured Aspect 160 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 80 % Litter, duff
- 20 % Wood (> 1 cm)
- ___ % Water
- ___ % Bare soil
- ___ % Bryophyte/lichen
- ___ % Other _____

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Advanced successional stage of loblolly pine forest, with an understory of hardwoods, primarily Liquidambar, Acer rubrum, Nyssa sylvatica, and Cornus florida, among others.

Comments Area encompassing plot is same as plot.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park:** NATR **Plot Code:** AS13 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	20-35m	50%	Pinu tae - 50%
Understory T3	10-15m	50%	Liqu sty - 20%, Prun ser - 10%
Tall shrub S1	2-5m	10%	
Short shrub S2	1-2m	10%	
Herbaceous	—	~	very sparse, ca. 2% coverage
Non-vascular	—	—	
Vine/liana	—	—	
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):			

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
		6					6	Liqu sty		
		5					5	Prun ser		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form*

NATR.354 Page 1

County:_____ Park: NATR Plot Code: A57D State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 8462 6011

Survey date: 9/29/05 Surveyors: AJ Schotz

Datum _WGS 84_ UTM Lat/Long (decimal degrees): 272804 N 3680351 W

GPS File Name A57D Coordinate accuracy 8 (m) ft DOP _____ # sats 6 Elevation 154 (m) ft

Directions or nearby Mile marker:

Measured Slope 2 ° ___ %

Measured Aspect 80 ° (N=0°)

Topographic Position
__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
X Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
__ Low level (terrace)
__ Channel bed
Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand __Sandy loam
__Sandy clay loam
__Loam X Silt loam
__Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
X Well drained
__Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover
__ % Bedrock
__ % Large rocks (cobbles, boulders >10cm)
__ % Small rocks (gravel, 0.2-10 cm)
__ % Sand (0.1-2 mm)
90 % Litter, duff
10 % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:
__Broad-leaved
X Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)
__ Evergreen
__ Cold-deciduous
X Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

late - successional stage of a loblolly pine forest, with various hardwoods, namely Liriodendron and Liquidambar, nearly reaching the canopy. Shrub layer is relatively open with ca. 30% coverage.

Comments Surrounding area is same as plot.

Disturbance and animal use comments: Lonicera japonica is present, but sparse.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park:** NATR **Plot Code:** ASTO **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	20-35m	50%	Pinu tae - 50%
Understory T3	10-15m	60%	Acer rub-30%, Liqu sty-20%
Tall shrub S1	2-5m	30%	Ulmu ala-10%
Short shrub S2	1-2m	10%	—
Herbaceous	—	—	sparse, ca. 2% coverage
Non-vascular	—	—	
Vine/liana	—	—	

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
		7					7	Acer rub		
		6					6	Liqu sty		
			5				5	Ulmu ala		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NATR.355

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ Park: NATR Plot Code: A569 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** 8450 (successional loblolly pine-oak forest)

Survey date: 9/24/05 **Surveyors:** Al Schotz

Datum _WGS 84_ UTM (decimal degrees): 273850 N 3681729 W

GPS File Name A569 **Coordinate accuracy** 10 (m) ft **DOP** _____ **# sats** 6 **Elevation** 168 (m) / ft

Directions or nearby Mile marker:

Measured Slope 0 ° 0 %

Measured Aspect _____ ° (N=0°)

Topographic Position
- X Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 80 % Litter, duff
- 20 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- X Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Late-successional loblolly pine forest with hardwoods, mainly Quercus Falcata and Liriodendron tulipifera reaching the canopy. The shrub layer is fairly dense, typically patchy, with an average cover of 50%. Quercus coccinea,

Comments Surrounding area is same as plot.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: _____ **Park:** NATR **Plot Code:** AS64 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	Pinu tae-50%, Quer lae-20%	.5-1m	10%
Understory T3	10-15m	50%	Acer rub-20%, Liqu sty-20%	1-2m	20%
Tall shrub S1	2-5m	30%	Cary alb-10%, Ulmu ala-10%	2-5m	30%
Short shrub S2	1-2m	20%		5-10m	40%
Herbaceous	—		sparse, ca. 5% coverage	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Viti rot-10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8						8	Pinu tae		
	6						6	Quer Fal		
		6					6	Acer rub		
		6					6	Liqu sty		
			5				5	Cary alb		
			5				5	Ulmu ala		
						5	5	Viti rot		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NATR.356 Page 1

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: A568 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** 8462 (mid- to late-successional loblolly pine-sweetgum forest)

Survey date: 9/29/05 **Surveyors:** Al Schatz

Datum _WGS 84_ ~~Lat/long~~ UTM (decimal degrees): 276261 N 3681727 W

GPS File Name A568 **Coordinate accuracy** 8 (m) / ft **DOP** _____ **# sats** 7 **Elevation** 167 (m) / ft

Directions or nearby Mile marker:

Measured Slope 2 ° _____ %

Measured Aspect 120 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* · __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 60 % Litter, duff
- 40 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- __ Forest (closed tree canopy)
- X Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Advanced successional phase of loblolly pine forest, with Liquidambar and Liriodendron now reaching the canopy. The understory and shrub layers are dense and weedy. Recent Hurricane Katrina toppled many trees in vicinity of plot.

Comments To east of plot roughly 40 meters canopy changes into a white oak-dominated site, with some water and southern red oaks. Tuliptree, sweetgum and loblolly pine appear absent from the canopy. Remaining area surrounding plot is identical to plot vegetation.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:** A368 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	Pinu tae-30%, Liri tul-30%, Quer nig-10%	.5-1m	10%
Understory T3	15-20m	50%	Liri tul-20%, Liqu sty-20%	1-2m	20%
Tall shrub S1	2-5m	60%	Liqu sty-20%	2-5m	30%
Short shrub S2	1-2m	30%		5-10m	40%
Herbaceous		10%		10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		20%	Viti rot-20%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
	5						5	Quer nig		
	7	6					7	Liri tul		
		6	6				7	Liqu sty		
						6	6	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form*

NATR.357 Page 1

County:_____ Park: NATR Plot Code: A366 State: AL MS TN Location org: NPS

Location name _____ Provisional community name? CEGL006244

Survey date: 9/24/05 Surveyors: Al Schotz

Datum WGS 84 UTM (decimal degrees): 375261 N 3684100 W

GPS File Name A366 Coordinate accuracy 7 (m) / ft DOP _____ # sats 6 Elevation 165 (m) / ft

Directions or nearby Mile marker:

Measured Slope 0.0 %

Measured Aspect 0 ° (N=0°)

Topographic Position
- X Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mature oak/hickory/pine on a broad ridge top. Trees are relatively large. Oak regeneration is good, but pine regeneration is sparse.

Comments Surrounding area is same as plot.

Disturbance and animal use comments: No exotics observed.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: _____ **Park:** NATR **Plot Code:** AS66 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	60%	Quer alb-30%, Quer ste-20%, Pinu ech-10%	.5-1m	10%
Understory T3	10-15m	30%	Pinu tae-10%, Quer fal-10%	1-2m	20%
Tall shrub S1	2-5m	30%	Vacc arb-10%, Nyss syl-10%	2-5m	30%
Short shrub S2	1-2m	40%	Quer alb-20%, Corn Flo-10%	5-10m	40%
Herbaceous	>	—	sparse, ca. 5% coverage	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7			6			7	Quer alb		
	6						6	Quer ste		
	5						5	Pinu ech		
		5					5	Pinu tae		
		5					5	Quer fal		
			5				5	Vacc arb		
			5				5	Nyss syl		
				5			5	Corn Flo		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.358 Page 1

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS65 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 7353 (Sweetgum - chestnut oak Floodplain Forest)

Survey date: 9/29/05 Surveyors: Al Schotz

Datum WGS 84 UTM (decimal degrees): 276474 N 3686858 W

GPS File Name AS65 Coordinate accuracy 70 (m) / ft DOP _____ # sats 6 Elevation 153 (m) / ft

Directions or nearby Mile marker:

Measured Slope 0 . 0 %

Measured Aspect _____ ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
X *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated X Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- X Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 50 % Litter, duff
- 20 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mature bottomland Forest composed of Quercus pagoda, Liquidambar styraciflua, Quercus nigra, and a small amount of Quercus phellos and Fraxinus pennsylvanica in the canopy. The understory is patchy, but generally quite open. Herb layer sparse. Noteworthy is the presence of Triphora trianthophora, an orchid species perhaps rare in Mississippi - plants common here.

Comments Roughly 30 meters NE of plot is a hayfield; remaining surroundings are similar to plot although ca. 30 meters north of plot appears younger and is dominated by sweetgum.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:** MS65 **State: AL (MS) TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	80%	Quer nig-30%, Liqu sty-30%, Quer pag-20%	.5-1m	10%
Understory T3	15-20m	40%	Liqu sty-30%, Quer nig-10%, Liri tul-10%	1-2m	20%
Tall shrub S1	2-5m	20%	Ulmu ame-10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous		10%		10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Part qui-10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	5					7	Quer nig		
	7	6					7	Liqu sty		
	6						6	Quer pag		
		5					5	Liri tul		
			5				5	Ulmu ame		
						5	5	Part qui		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.359 Page 1

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ Park: NATR Plot Code: A564 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** 7795

Survey date: 9/29/05 **Surveyors:** Al Schotz

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 280597 N 3691134 W

GPS File Name A564 **Coordinate accuracy** 9 0 (m) / ft **DOP** _____ **# sats** 5 **Elevation** 184 (m) / ft

Directions or nearby Mile marker:

Measured Slope 8 ° _____ %

Measured Aspect 00 ° (N=0°)

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC

__ *Palustrine* __ *Lacustrine* __ *Riverine*:

__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded

__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:

- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam X Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:

- X Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

__ % Bedrock	90 % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders > 10cm)	10 % Wood (> 1 cm)	____ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
__ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:

- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)

- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class

- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Very nice site! Mature canopy of straight trunked Quercus alba, Quercus velutina, Quercus falcata, and Carya alba, with Quercus alba appearing most numerous. The understory is comprised of smaller specimens of the foregoing canopy species, in addition to Fraxinus americana, Quercus stellata, and Nyssa sylvatica. The ground surface is characterized by various oak/hickory seedlings, as well as sprawling Vitis rotundifolia.

Comments Area encompassing plot is same as plot.

Disturbance and animal use comments: No exotics observed.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: _____ **Park:** NATR **Plot Code:** AS64 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	60%	Quer alb-30%, Quer vel-20%, Cary alb-10%	.5-1m	10%
Understory T3	10-15m	40%	Quer alb-20%, Fax ame-10%	1-2m	20%
Tall shrub S1	2-5m	30%	Nyss syl-20%	2-5m	30%
Short shrub S2	1-2m	20%	Cary alb-10%	5-10m	40%
Herbaceous		—	mixg forbs	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Viti rot-10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	6					7	Quer alb		
	6						6	Quer vel		
	3			5			6	Cary alb		
		5					5	Fax ame		
			6				6	Nyss syl		
						5	5	Viti rot		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NATR.360 Page 1

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: _____ **Park:** NATR **Plot Code:** AS63 **State:** AL (MS) TN **Location org:** NPS

Location name _____ **Provisional community name** 7330 (successional sweetgum floodplain forest)

Survey date: 9/24/15 **Surveyors:** Al Schotz

Datum WGS 84 **Locating (decimal degrees):** 282154 N 3692925 W

GPS File Name AS63 **Coordinate accuracy** 9 (m) / ft **DOP** _____ **# sats** 5 **Elevation** 162 (m) / ft

Directions or nearby Mile marker:

Measured Slope 0 ° 0 %

Measured Aspect _____ ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
X *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- X Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- __ Moderately well drained
- X Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 80 % Litter, duff
- 20 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Liquidambar-dominated bottomland forest. Although mature, the age is likely no more than 50 years of age. Other canopy species include Acer rubrum, Quercus nigra, and Fraxinus pennsylvanica, but are less frequent and therefore are of secondary importance. Shrub component is sparse and open.

Comments Vegetation surrounding plot boundaries is the same as the plot.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park:** NATR **Plot Code:** NS63 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	Liqu sty-40%, Acer rub-20%, Foax pen-10%	.5-1m	10%
Understory T3	10-15m	40%	Ulmu ame-20%, Acer rub-10%	1-2m	20%
Tall shrub S1	2-5m	10%	→	2-5m	30%
Short shrub S2	1-2m		sparse, roughly 5% coverage	5-10m	40%
Herbaceous		80%	Toxi rad-30% (prostrate form)	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Aster lateriflorus, Polygonum virginianum, Chrysanthemum latifolium				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Liqu sty		
	6	5					6	Acer rub		
	5						5	Foax pen		
		6					6	Ulmu ame		
					7		7	Toxi rad		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NATR.361 Page 1

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: Choctaw Park: NATR Plot Code: AS61 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name ? 7354

Survey date: 9/29/05 Surveyors: Al Schotz

Datum WGS 84 Lat/Long (decimal degrees): 289094 N 3700146 W

GPS File Name AS61 Coordinate accuracy 7 (m) / ft DOP _____ # sats 4 Elevation 162 (m) / ft

Directions or nearby Mile marker:

Measured Slope 0 ° 0 %

Measured Aspect ___ ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- \ Toeslope (alluvial toeslope)
- \ Low level (terrace)
- __ Channel bed

Cowardin System: __ *Upland*: XERIC : DRY-MESIC : MESIC
√ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
__ Silt/ Silty clay loam
X Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
\ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
- ___ % Bedrock
- ___ % Large rocks (cobbles, boulders >10cm)
- ___ % Small rocks (gravel, 0.2-10 cm)
- ___ % Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

Oak-dominated flatwoods characterized by a prominence of Quercus nigra and, in slightly lesser abundance, Quercus pagoda in the canopy. Other canopy species include Quercus michauxii, Quercus phellos, and Quercus alba, but are sparsely distributed. The shrub layer is open.

Comments Roughly 60 meters to the north loblolly pine becomes prominent; to the south loblolly is also conspicuous, but scattered; remaining boundaries are bordered by similar vegetation as plot.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: _____ **Park:** NATR **Plot Code:** ASb1 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1	20-35m	70%	Quer nig - 40%, Quer pag - 20%	< .5m	5%
Tree Canopy T2	15-20m	40%	Quer nig 20%, Quer alb - 10%	.5-1m	10%
Understory T3	2-5m	20%	—	1-2m	20%
Tall shrub S1	1-2m	↓	sparse, ca. 5% coverage ↓	2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous	—	—	very sparse - ca. 2% coverage	10-15m	50%
Non-vascular	→	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Quercus phellos, Quercus michauxii				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Quer nig		
	6						6	Quer pag		
		5					5	Quer alb		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.362 Page 1

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: Choctaw **Park:** NATR **Plot Code:** A360 **State:** AL (MS) TN **Location org:** NPS

Location name _____ **Provisional community name** 6011

Survey date: 9/22/05 **Surveyors:** Al Schotz

Datum __WGS 84__ ~~Lat/Long~~ (decimal degrees): 389831 N 3700817 W

GPS File Name A360 **Coordinate accuracy** 7 (m) / ft **DOP** _____ **# sats** 5 **Elevation** 1670 (m) / ft

Directions or nearby Mile marker:

Measured Slope 0.0 %

Measured Aspect 0 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- X Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam X Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- X Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

__ % Bedrock	30 % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders >10cm)	20 % Wood (> 1 cm)	____ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
__ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Late-successional loblolly pine forest with a sub-canopy of red maple and sweetgum. Shrub layer is patchy, but typically sparse.

Comments Area encompassing plot is similar to plot vegetation.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:** ASGO **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	20-35m	40%	Pinu tae - 40%
Understory T3	10-15m	70%	Liqu sty - 30%, Acer rub - 20%
Tall shrub S1	2-5m	30%	Ulmu ala - 10%, Liqu sty - 10%
Short shrub S2	1-2m	—	sparse, ca. 5% coverage
Herbaceous			very sparse, roughly 2% coverage
Non-vascular	—	—	
Vine/liana		10%	Smil rot - 10%

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
		7	5				7	Liqu sty		
		7					7	Acer rub		
			5				5	Ulmu ala		
						5	5	Smil rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.363

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: Lee Park: NATR Plot Code: A506 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 7330? CEGL007330

Survey date: 9/26/05 Surveyors: Al Schotz

Datum WGS 84 UTM (decimal degrees): 345730 N 3803453 W

GPS File Name A306 Coordinate accuracy 11 (m) / ft DOP _____ # sats 5 Elevation 122 (m) / ft

Directions or nearby Mile marker:

Measured Slope 0.0 %

Measured Aspect ____ ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- X Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
X *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
X Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
__ Well drained
X Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover

__ % Bedrock	90 % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
__ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mid-successional bottomland forest primarily composed of Betula nigra, Liquidambar styraciflua, and Quercus nigra. Betula is relatively rare in sub-canopy strata.

Comments

Disturbance and animal use comments: Lonicera japonica is widely scattered in plot.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: Lee Park: NATR Plot Code: A306 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	10-15m	80%	Betu nig - 40%, Quer nig - 30%
Understory T3	5-10m	40%	Ligu sty - 30%
Tall shrub S1	2-5m	60%	Ligu sty - 40%, Quer nig - 20%
Short shrub S2	.5-1m	10%	
Herbaceous	—	—	Herb layer very sparse, roughly 5% coverage
Non-vascular	—	—	
Vine/liana		10%	Lonicera jap
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):			

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Betu nig		
	7		6				7	Quer nig		
		7	7				8	Ligu sty		
						5	5	Loni jap		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.365

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: Lee Park: NATR Plot Code: A30 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** 733D (successional swamp tupelo/sweetgum)

Survey date: 9/26/05 **Surveyors:** AJ Schatz

Datum WGS 84 Lat/Long (decimal degrees): 345697 N 3803274 W (utm)

GPS File Name A30 **Coordinate accuracy** 8 (m) / ft **DOP** _____ **# sats** 6 **Elevation** _____ m / ft

Directions or nearby Mile marker:

Measured Slope 0 ° 0 %

Measured Aspect _____ ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- X Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
X *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- X Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- X Poorly drained
- __ Very poorly drained

Ground cover

__ % Bedrock	90 % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
__ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Early successional bottomland forest dominated by Betula nigra, Liquidambar styraciflua, and to a lesser degree, Acer rubrum. Some areas are ponded as a result of recent rainfall (Hurricane Rita).

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: Lee Park: NATR Plot Code: A307 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2			
Understory T3			
Tall shrub S1	5-10m	90%	Betu nig - 40%, Ligu sty - 50%
Short shrub S2	2-5m	50%	Ligu sty - 30%, Acer rub - 20%
Herbaceous	—	—	no herb layer present
Non-vascular	—	—	
Vine/liana		10%	Camp rad - 10%

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
			7				7	Betu nig		
			7	7			8	Ligu sty		
				6			6	Acer rub		
						5	5	Camp rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR-366

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: Lee Park: NATR Plot Code: ASO8 State: AL MS TN Location org: NPS

Location name _____ Provisional community name 7179 (loblolly pine plantation)

Survey date: 9/26/05 Surveyors: Al Schotz

Datum WGS 84 UTM Lat/Long (decimal degrees): 3455522 N 3803085 W

GPS File Name ASO8 Coordinate accuracy 7 (m) / ft DOP _____ # sats 6 Elevation 126 (m) / ft

Directions or nearby Mile marker:

Measured Slope 15 ° ____ %

Measured Aspect 120 ° (N=0°)

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC

__ *Palustrine* __ *Lacustrine* __ *Riverine*:

__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded

__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:

- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam X Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:

- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 100 % Litter, duff
- ____ % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:

- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)

- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class

- __ Forest (closed tree canopy)
- X Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Sapling stage loblolly pine, with an understory of Liquidambar styraciflua and, to lesser extent, Quercus nigra and Acer rubrum. Plots is on edge of more mature pine-hardwood forest.

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: Lee Park: NATR Plot Code: AS08 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2			
Understory T3			
Tall shrub S1	5-10m	30%	Pinu tae-30%
Short shrub S2	2-5m	50%	Liqu sty-30%, Acer rub-10%
Herbaceous	–	30%	Andr ten-10%
Non-vascular		10%	Polytrichum sp.-10%
Vine/liana	—	—	

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
			7				7	Pinu tae		
				7			7	Liqui sty		
				5			5	Acer rub		
					5		5	Andr ten		
					5		5	Polytrichum sp.		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.367

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: Lee Park: NATR Plot Code: AS04 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name? CEGL007246

Survey date: 4/26/05 Surveyors: AH Schotz

Datum WGS 84 UTM (decimal degrees): 345376 N 3802413 W

GPS File Name AS04 Coordinate accuracy 7 (m) ft DOP _____ # sats 6 Elevation 129 (m) ft

Directions or nearby Mile marker:

Measured Slope 14 ° ___ %

Measured Aspect 320 (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ Toeslope (alluvial toeslope)
- __ High Slope (upper slope, convex slope)
- __ Low level (terrace)
- X Midslope (middle slope)
- __ Channel bed
- __ Lowslope (lower slope, footslope)

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:

__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover

__ % Bedrock	50 % Litter, duff	___ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders >10cm)	20 % Wood (> 1 cm)	___ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	___ % Water	
__ % Sand (0.1-2 mm)	___ % Bare soil	

Leaf type:
X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

Mature oak Forest on gentle slope. Characteristic species include Quercus falcata, and to a lesser extent, Quercus alba, Quercus rubra, and Carya alba.

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: Lee Park: NATR Plot Code: A309 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	20-35m	70%	Quer fal-30%, Quer rub-20%, Quer ste-10%
Understory T3	15-20m	40%	Cary alb-20%, Quer alb-10%
Tall shrub S1	2-5m	30%	Corn flo-10%, Vacc myr-10%
Short shrub S2	.5-1m	10%	
Herbaceous	–	–	herb layer very sparse
Non-vascular	–	–	
Vine/liana	–	10%	Viti rot-10%

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Quer fal		
	6						6	Quer rub		
	5						5	Quer ste		
		6					6	Cary alb		
		5					5	Quer alb		
			5				5	Corn flo		
			5				5	Vacc myr		
						5	5	Viti rot		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NATR.368

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: Lee Park: NATR Plot Code: AS12 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 7246

Survey date: 9/26/05 Surveyors: AJ Schotz

Datum WGS 84 ~~Lat/Long~~ UTM (decimal degrees): 342768 N 3800306 W

GPS File Name AS12 Coordinate accuracy 8 (m) ft DOP _____ # sats 6 Elevation 122 (m) ft

Directions or nearby Mile marker:

Measured Slope 1 ° ____ %

Measured Aspect 145 ° (N=0°)

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC

__ *Palustrine* __ *Lacustrine* __ *Riverine*:

__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded

__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:

- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:

- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

__ % Bedrock	80 % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders >10cm)	20 % Wood (> 1 cm)	____ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
__ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:

- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)

- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class

- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mature oak (namely Quercus stellata and Q. falcata), with a minimal hickory component in the understory. Shrub layer relatively open, but patchy.

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: Lee **Park:** NATR **Plot Code:** ASD **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	25-30m	80%	Quer ste-40%, Quer Fal-40%
Understory T3	10-15m	40%	Cary alb-20%, Nyss syl-20%
Tall shrub S1	2-5m	20%	Nyss syl-10%
Short shrub S2	.5-1m	10%	
Herbaceous	—	—	herb layer very sparse, ca. 3% coverage
Non-vascular	—	—	
Vine/liana		10%	Viti rot-10%

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Quer ste		
	7						7	Quer Fal		
		6					6	Cary alb		
		6	5				6	Nyss syl		
						5	5	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.369

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: Lee Park: NATR Plot Code: AS15 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 7124(ne)-cedar successional forest

Survey date: 9/26/05 Surveyors: Al Schotz

Datum WGS 84 UTM Easting (decimal degrees): 341148 N 3796616 W

GPS File Name AS15 Coordinate accuracy 8 (m) / ft DOP _____ # sats 5 Elevation 133 (m) / ft

Directions or nearby Mile marker:

Measured Slope 4 ° _____ %

Measured Aspect 90 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- X Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- X Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

__ % Bedrock	50 % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders >10cm)	20 % Wood (> 1 cm)	____ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
__ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

MTD-successional red cedar - sugarberry forest with a luxuriant growth of Chinese privet in the understory. Overall, the site is very weedy.

Comments

Disturbance and animal use comments: Ligustrum sinense is abundant.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: Lee Park: NATR Plot Code: AS15 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	10-15m	80%	Juni vir - 30%, Celt lae - 40%	.5-1m	10%
Understory T3	5-10m	20%	Celt lae - 10%	1-2m	20%
Tall shrub S1	2-5m	50%	Ligu sin - 40%	2-5m	30%
Short shrub S2	.5-1m	50%	Ligu sin - 40%	5-10m	40%
Herbaceous	—	—	Herb larger sparse	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	1	30% Bere sem - 30%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Quercus muehlenbergii, Cercis canadensis				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Juni vir		
	7	5					7	Celt lae		
			7	7			8	Ligu sin		
						7	7	Bere sem		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.370 Page 1

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: Lee Park: NATR Plot Code: AS17 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name G011

Survey date: 9/26/05 Surveyors: AI Schotz

Datum WGS 84 UTM (decimal degrees): 340435 N 3794513 W

GPS File Name AS17 Coordinate accuracy 6 (m) ft DOP _____ # sats 6 Elevation 115 (m) ft

Directions or nearby Mile marker:

Measured Slope 0.0 %

Measured Aspect _____ ° (N=0°)

Topographic Position
- X Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam X Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

___ % Bedrock	20 % Litter, duff	____ % Bryophyte/lichen
___ % Large rocks (cobbles, boulders >10cm)	30 % Wood (> 1 cm)	____ % Other _____
___ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
___ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- X Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- __ Forest (closed tree canopy)
- X Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mix - successional loblolly pine forest with a dense understory of Liquidambar styraciflua, Quercus nigra, and Ligustrum sinense, among others...

Comments

Disturbance and animal use comments: Ligustrum sinense is abundant.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: Lee **Park:** NATR **Plot Code:** ASM **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	20-25m	50%	Pinu tae - 50%
Understory T3	10-15m	80%	Liqu sty - 60%
Tall shrub S1	2-5m	70%	Liqu sty - 20%, Liqu sin - 40%
Short shrub S2	.5-1m	30%	Liqu sin - 20%
Herbaceous	—	—	Herb layer very sparse, ca. 3% coverage
Non-vascular	—	—	
Vine/liana	—	—	

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
		8	6				8	Liqu sty		
			7				7	Liqu sin		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.371 Page 1

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: Lee Park: NATR Plot Code: AS18 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 7124 (red cedar successional forest)

Survey date: 9/26/05 Surveyors: Al Schotz

Datum WGS 84 ~~Lat/Long~~ UTM (decimal degrees): 339804 N 3794142 W

GPS File Name AS18 Coordinate accuracy 7 (m)/ ft DOP _____ # sats 6 Elevation 125 (m)/ ft

Directions or nearby Mile marker:

Measured Slope 2 ° ____ %

Measured Aspect 360 ° (N=0°)

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC

__ *Palustrine* __ *Lacustrine* __ *Riverine*:

__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded

__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:

- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- X Silty clay __ Clay
- __ Muck __ Peat

Drainage:

- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 80 % Litter, duff
- 20 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:

- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)

- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class

- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mid-successional forest dominated by Celtis laevigata and Juniperus virginiana, with a prominence of Ligustrum sinense in the shrub layer.

Comments

Disturbance and animal use comments: Exotics abundant, most notably Ligustrum sinense.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: Lee Park: NATR Plot Code: AS18 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	15-20m	80%	Celt lae - 50%, Juni vir - 30%
Understory T3	5-10m	30%	Celt lae - 20%
Tall shrub S1	2-5m	50%	Ligu sin - 40%
Short shrub S2	.5-1m	30%	Ligu sin - 30%
Herbaceous	—	20%	Sani mar
Non-vascular	—	—	
Vine/liana		20%	Berc scu - 20%

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	6						Celt lae		
	7							Juni vir		
			7	7				Ligu sin		
					6			Sani mar		
						6		Berc scu		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.372 Page 1

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: Lee Park: NATR Plot Code: A321 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name CEGL003807 Ligustrum sinense Upland Shrubland

Survey date: 9/26/05 Surveyors: Al Schotz

Datum WGS 84 UTM Lat/long (decimal degrees): 3388038 N 3791044 W

GPS File Name A321 Coordinate accuracy 6 (m)/ ft DOP ____ # sats 6 Elevation 117 (m)/ ft

Directions or nearby Mile marker:

Measured Slope 0.0 %

Measured Aspect ____ ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System ✓ *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- X Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- X Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

___ % Bedrock	100 % Litter, duff	____ % Bryophyte/lichen
___ % Large rocks (cobbles, boulders >10cm)	____ % Wood (> 1 cm)	____ % Other _____
___ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
___ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- X Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- __ Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- X Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Privet-dominated shrubland accented with Juniperus virginiana, Prunus serotina, and Berchemia scandens. Very dense!

Comments

Disturbance and animal use comments: Site dominated by Chinese privet.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: Lee **Park:** NATR **Plot Code:** AS21 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2			
Understory T3			
Tall shrub S1	2-5m	80%	Lig sm - 80%
Short shrub S2	1-2m	20%	Lig sm - 20%
Herbaceous			
Non-vascular			
Vine/liana			
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):			

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
			9	6				Lig sm		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.373

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: Lee Park: NATR Plot Code: AS22 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 4412 (southern red oak flatwoods)

Survey date: 9/26/05 Surveyors: Al Schotz

Datum WGS 84 UTM ~~Lat/Long~~ (decimal degrees): 334055 N 3783574 W

GPS File Name AS22 Coordinate accuracy 7 (m) ft DOP ____ # sats 6 Elevation 111 (m) ft

Directions or nearby Mile marker:

Measured Slope 0.0 %

Measured Aspect ____ ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- X Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System ✓*Upland*: XERIC : DRY-MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
- __Sand __Sandy loam
- __Sandy clay loam
- __Loam __Silt loam
- __Silt/ Silty clay loam
- X Silty clay __Clay
- __Muck __Peat

Drainage:
- __Rapidly drained
- __Well drained
- X Moderately well drained
- __Somewhat poorly drained
- __Poorly drained
- __Very poorly drained

Ground cover

____% Bedrock	90 % Litter, duff	____% Bryophyte/lichen
____% Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____% Other _____
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Level area containing a prominence of Quercus falcata and Quercus phellos, Quercus stellata occurring in slightly lesser abundance.

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: Lee **Park:** NATR **Plot Code:** [illegible] **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	90%	Quer fal -40%, Quer phe-30%, Quer ste-20%	.5-1m	10%
Understory T3	10-15m	40%	Nyss syl-20%, Cary alb-10%	1-2m	20%
Tall shrub S1	2-5m	30%		2-5m	30%
Short shrub S2	.5-1m	10%		5-10m	40%
Herbaceous	—	—		10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	10%	Viti sat-10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7							Quer fal		
	9							Quer phe		
	6							Quer ste		
		6						Nyss syl		
		5						Cary alb		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.374

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: Lee Park: NATR Plot Code: A323 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 7246

Survey date: 9/26/05 Surveyors: AJ Schatz

Datum WGS 84 UTM (decimal degrees): 331195 N 3778665 W

GPS File Name A323 Coordinate accuracy 60 (m) / ft DOP _____ # sats 7 Elevation 1360 (m) / ft

Directions or nearby Mile marker:

Measured Slope 3 ° ____ %

Measured Aspect 100° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover

__ % Bedrock	70 % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders > 10cm)	30 % Wood (> 1 cm)	____ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
__ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Gently sloping ridge top dominated by Quercus falcata, Quercus stellata, and in lesser abundance, Quercus marilandica.

Comments

Disturbance and animal use comments: No exotics observed.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: Lee **Park:** NATR **Plot Code:** MS23 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20m	70%	Quer ste - 30%, Quer Fal - 20%, Quer mar - 20%	.5-1m	10%
Understory T3	5-10m	40%	Quer ste - 20%, Quer mar - 10%	1-2m	20%
Tall shrub S1	2-5m	40%	Cary alb - 20%, Vacc arb - 10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous	–	–	herb layer very sparse, ca. 2% coverage	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana	–	10%	Viti rot	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	6					7	Quer ste		
	6						6	Quer Fal		
	6	5					6	Quer mar		
			6				6	Cary alb		
			5				5	Vacc arb		
						5	5	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.375 Page 1

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: Lee Park: NATR Plot Code: AS25 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 7246

Survey date: 9/26/05 Surveyors: Al Schotz

Datum WGS 84 UTM ~~Lat/Long~~ (decimal degrees): 328282 N 3774168 W

GPS File Name AS25 Coordinate accuracy 6 (m) / ft DOP _____ # sats 7 Elevation 159 (m) ft

Directions or nearby Mile marker:

Measured Slope 5 ° ____ %

Measured Aspect 150 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover

__ % Bedrock	80 % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders >10cm)	20 % Wood (> 1 cm)	____ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
__ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

Mature oak-hickory forest with a scattering of Pinus echinata. Fraxinus americana is also present in the canopy but tends to be localized.

Comments

Disturbance and animal use comments: No exotics observed.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: Lee **Park:** NATR **Plot Code:** MS325 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	60%	Quer fal - 30%, Frax ame - 20%, Pinu ech - 10%	.5-1m	10%
Understory T3	10-15m	40%	Quer ste - 20%, Cary alb - 10%	1-2m	20%
Tall shrub S1	2-5m	40%	Cary alb - 20%, Ulmu ala - 10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous	–	–	herb layer very sparse, ca. 2% coverage	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana		10%	Viti rot - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Quer fal		
	6						6	Frax ame		
		6					6	Quer ste		
	5						5	Pinu ech		
		5	6				6	Cary alb		
			5				5	Ulmu ala		
						5	5	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.376

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: Chickasaw Park: NATR Plot Code: A334 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 7244 (southern red oak-white oak mixed Forest)

Survey date: 9/22/05 Surveyors: AJ Schatz

Datum WGS 84 ~~Lat/Long~~ UTM (decimal degrees): 319066 N 3748080 W

GPS File Name A334 Coordinate accuracy 8 (m)/ ft DOP _____ # sats 5 Elevation 118 (m)/ ft

Directions or nearby Mile marker:

Measured Slope 0.0 %

Measured Aspect _____ ° (N=0°)

Topographic Position
- X Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Oak flat dominated by Quercus falcata, Quercus alba, and Quercus stellata. Pinus taeda is also present in the canopy, but widely dispersed. Very little oak regeneration observed.

Comments

Area surrounding plot is similar plot. Across NT (ca. 50 meters west) canopy is dominated by Pinus taeda.

Disturbance and animal use comments: Ligustrum sinense and Lonicera japonica present, but low density.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:** MS34 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	Quer alb - 30%, Quer fal - 20%, Quer ste - 20%	10%	
Understory T3	10-15m	30%	Nyss syl - 10%, Liqu sty - 10%	1-2m	20%
Tall shrub S1	2-5m	30%	Liqu sty - 10%, Nyss syl - 10%	2-5m	30%
Short shrub S2	1-2m	20%		5-10m	40%
Herbaceous	–	~	herb layer very sparse, ca. 3% coverage	10-15m	50%
Non-vascular	–	—		15-20m	60%
Vine/liana	–	10%	Viti rot - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Quer alb		
	6						6	Quer fal		
	6						6	Quer ste		
		5	5				6	Nyss syl		
		5	5				6	Liqu sty		
						5	5	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.377 Page 1

County: Chickasaw Park: NATR Plot Code: AS33 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name ? 4671

Survey date: 9/27/05 Surveyors: Al Schotz

Datum WGS 84 Lat/Long (decimal degrees): 319379 N 3749423 W

GPS File Name AS33 Coordinate accuracy 9 0 m / ft DOP _____ # sats 5 Elevation _____ m / ft

Directions or nearby Mile marker:

Measured Slope 10 ° ____ %

Measured Aspect 20 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mature calcareous slope forest characterized by a prominence of Quercus shumardii, and to a lesser extent, Quercus muehlenbergii and Fraxinus americana. Ground layer is dominated by Toxicodendron radicans.

Comments Surrounding area is similar to plot vegetation.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ Park: NATR Plot Code: NS33 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	Quer shu-30%, Frax ame-20%	.5-1m	10%
Understory T3	10-15m	50%	Quer mue-20%, Acer bar-20%	1-2m	20%
Tall shrub S1	2-5m	20%	Carp car-10%	2-5m	30%
Short shrub S2	–	10%		5-10m	40%
Herbaceous		30%	Toxi rad-30%	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana		20%	Loni jap-10%, Smil rot-10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Cercis canadensis				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Quer shu		
	6						6	Frax amer		
	6						6	Carp car/b		
		6					6	Quer mue		
		6					6	Acer bar		
					7		7	Toxi rad		
						5	5	Loni jap		
						5	5	Smil rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.378 Page 1

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: Chickasaw Park: NATR Plot Code: A532 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name ~~60H~~ 8450

Survey date: 9/27/05 Surveyors: AJ Schotz

Datum WGS 84 UTM (decimal degrees): 319322 N 3749479 W

GPS File Name A532 Coordinate accuracy 11 (m) ft DOP _____ # sats 5 Elevation 137 (m) ft

Directions or nearby Mile marker:

Measured Slope 1 ° ____ %

Measured Aspect 70 ° (N=0°)

Topographic Position
- X Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- X Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Late-successional loblolly stand codominated by Quercus nigra. Liquidambar styraciflua is dominant in understory. Shrub layer is open with a scattering of the aforementioned hardwood species, as well as Quercus alba, Callicarpa americana, and Fraxinus americana, among others.

Comments Area encompassing plot is similar to plot vegetation.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:** A332 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	70%	Plou fae - 40%, Quer nig - 30%	.5-1m	10%
Understory T3	10-15m	50%	Ligu sty - 40%	1-2m	20%
Tall shrub S1	2-5m	10%	Ligu sty - 10%	2-5m	30%
Short shrub S2	1-2m	—	sparse, ca. 5% coverage	5-10m	40%
Herbaceous	—	—	very sparse, roughly 2% coverage	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	10%	Viti rot - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Plou fae		
	7						7	Quer nig		
		7	5				7	Ligu sty		
						5	5	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.379 Page 1

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: Chickasaw Park: NATR Plot Code: AS30 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 8450 (successional loblolly pine-oak forest)

Survey date: 9/27/05 Surveyors: AJ Schotz

Datum WGS 84 UTM (decimal degrees): 319623 N 3752025 W

GPS File Name AS30 Coordinate accuracy 8 (m) ft DOP _____ # sats 7 Elevation 114 (m) ft

Directions or nearby Mile marker:

Measured Slope 0° 0%

Measured Aspect _____ ° (N=0°)

Topographic Position
- X Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand X Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
__ % Bedrock
__ % Large rocks (cobbles, boulders >10cm)
__ % Small rocks (gravel, 0.2-10 cm)
__ % Sand (0.1-2 mm)
90 % Litter, duff
10 % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:
X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
__ Cold-deciduous
X Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

Late-successional loblolly pine forest, with Quercus nigra also occupying the canopy. Understory is dominated by Liquidambar styraciflua. Ground cover is very sparse.

Comments Area encompassing plot is similar to plot. Roughly 30 meters to the west is manicured lawn - adjacent to parkway. Roughly 40 meters to the east canopy changes into a sweetgum/water oak forest.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park:** NATR **Plot Code:** MS3D **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	20-35m	70%	Pinu tae-40%, Quer nig-30%
Understory T3	10-15m	80%	Liqu sty-60%, Quer nig-20%
Tall shrub S1	2-5m	40%	Liqu sty-20%, Ulmu ala-20%
Short shrub S2	1-2m	—	stratum is very sparse
Herbaceous	—	—	herb layer is very sparse, ca. 1% coverage
Non-vascular	—	—	
Vine/liana	—	—	

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
	7	6					7	Quer nig		
		8	6				8	Liqu sty		
			5				5	Ulmu ala		
			5							

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NATR.380

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: Chickasaw Park: NATR Plot Code: AS28 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** 8450 (successional loblolly pine-oak forest)

Survey date: 9/27/05 **Surveyors:** AL Schulte

Datum _WGS 84_ ~~Lat/Long~~ UTM (decimal degrees): 322093 N 3757191 W

GPS File Name AS28 **Coordinate accuracy** 7 (m) ft **DOP** _____ **# sats** 5 **Elevation** 174 (m) ft

Directions or nearby Mile marker:

Measured Slope 7 ° ____ %

Measured Aspect 180 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
- ___ % Bedrock
- ___ % Large rocks (cobbles, boulders >10cm)
- ___ % Small rocks (gravel, 0.2-10 cm)
- ___ % Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mixed loblolly/shortleaf pine stand (mostly loblolly), with a scattering of hardwoods, primarily Quercus falcata and some Liquidambar. The sub-canopy is relatively sparse whereas the shrub layers are patchy. Vitis rotundifolia is a frequent ground cover, and is beginning to ascend into the trees. Site has been burned, but quite some time ago (perhaps 5-7 years ago).

Comments South of plot contains a greater commence of hardwoods, namely oaks; east side also contains a greater abundance of hardwoods, but some pine; north + west sides similar to plot.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park:** NATR **Plot Code:** A38 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	60%	Pinu tae -40%, Pinu ech -10%, Quer fal -10%	.5-1m	10%
Understory T3	15-20m	30%	Quer fal -20%, Liqu sty -10%	1-2m	20%
Tall shrub S1	2-5m	30%	Liqu sty -20%, Acer rub -10%	2-5m	30%
Short shrub S2	1-2m	10%	herb layer sparse, ca. 2% coverage	5-10m	40%
Herbaceous	—	—		10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Viti rot -10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: *Tree Canopy* | ***T3*** *Subcanopy* | ***S1*** *Tall Shrub (>1m to 5m)* | ***S2*** *Short Shrub (< 1m)* | ***H*** *Herbaceous* | ***V*** *Vines (lianas)*

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
	5						5	Pinu ech		
	5	6					6	Quer fal		
		5	6				6	Liqu sty		
			5				5	Acer rub		
						5	5	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.381 Page 1

County: Chickasaw Park: NATR Plot Code: AS37 State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** 7124 (re)-cedar successional forest

Survey date: 9/27/05 **Surveyors:** AT Schotz

Datum WGS 84 UTM **Coordinates (decimal degrees):** 3175511 N 374578 W

GPS File Name AS37 **Coordinate accuracy** 11 (m) / ft **DOP** _____ **# sats** 6 **Elevation** _____ m / ft

Directions or nearby Mile marker:

Measured Slope 5 ° ____ %

Measured Aspect 310 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam X Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

__ % Bedrock	100 % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders >10cm)	____ % Wood (> 1 cm)	____ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
__ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Early successional red cedar – white ash forest. Other woody species include Celtis laevigata, Rhamnus caroliniana, winged elm, sweetgum, and deciduous holly. Lespedeza cuneata is prevalent in the herb layer.

Comments NE of plot is characterized by mid-successional loblolly pine forest; SE + south is similar to plot, west is manicured lawn and NT Pkwy.

Disturbance and animal use comments: Lespedeza cuneata is abundant.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: AS37 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	10-15m	70%	Juni vir -30%, Frax ame-30%	.5-1m	10%
Understory T3	5-10m	10%	Frax ame -10%	1-2m	20%
Tall shrub S1	2-5	20%	—	2-5m	30%
Short shrub S2		10%	Rham car-10%	5-10m	40%
Herbaceous	–	20%	Lesp cun -10%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		10%	Berc sca	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Cornus drummondii, Celtis laevigata, Carex cherokeensis, Cercis canadensis – indicators of calcareous soils.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Juni vir		
	7	5					7	Frax ame		
				5			5	Rham car		
					5		5	Lesp cun		
						5	5	Berc sca		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.382 Page 1

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: Chickasaw Park: NATR Plot Code: AS36 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name? 7353

Survey date: 9/27/05 Surveyors: Al Schotz

Datum WGS 84 UTM (decimal degrees): 318996 N 3747014 W

GPS File Name AS36 Coordinate accuracy 6 (m) ft DOP _____ # sats 6 Elevation _____ m / ft

Directions or nearby Mile marker:

Measured Slope 0.0 %

Measured Aspect 0 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- X Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
X *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated X Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- X Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

__ % Bedrock	90 % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
__ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Forested stream corridor dominated by Quercus pagoda and, in slightly lesser abundance, Quercus texana, Quercus phellos, Quercus michauxii, and Fraxinus pennsylvanica. Nice site! Arundinaria gigantea is abundant in the understory.

Comments West side of plot is open field; roughly 40 meters east is beaver impounded area (see Plot AS36); remaining boundaries are stream corridor identical to plot vegetation.

Disturbance and animal use comments: Stream has been dredged with spoil placed along banks.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: _____ **Park:** NATR **Plot Code:** AB36 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES
Emergent – T1			
Tree Canopy T2	20-35m	70%	Quer pag 30%, Quer tex-20%, Fraxpen-20%
Understory T3	10-15m	40%	Cary ova-20%, Quer phe-20%
Tall shrub S1	2-5m	10%	Fraxpen-10%
Short shrub S2	1-2m	10%	
Herbaceous	—	30%	Arun gig-30%
Non-vascular	—	—	
Vine/liana		10%	Toxi rad-10%

Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Quercus michauxii, Asimina triloba

Height scale (use tallest one for strata)	% cover for strata = top of cover class
< .5m	5%
.5-1m	10%
1-2m	20%
2-5m	30%
5-10m	40%
10-15m	50%
15-20m	60%
20-35m	70%
35-50m	80%
>50m	90%
	100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Quer pag		
	6	5					6	Quer tex		
	6		5				6	Frax pen		
		6					6	Cary ova		
		6					6	Quer phe		
					6		6	Arun gig		
						5	5	Toxi rad		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.383 Page 1

County: Chickasaw Park: NATR Plot Code: A335 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 4694? CEGL004699

Survey date: 9/27/05 Surveyors: AJ Schatz

Datum WGS 84 UTM (decimal degrees): 318060 N 3747135 W

GPS File Name A335 Coordinate accuracy 6 (m) / ft DOP _____ # sats 7 Elevation 101 (m) / ft

Directions or nearby Mile marker:

Measured Slope 0.0 %

Measured Aspect ____ ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- ☑ Channel bed Basin Floor

Cowardin System *Upland*: XERIC : DRY-MESIC : MESIC *Palustrine* *Lacustrine* *Riverine*:
- X Permanently flooded
- __ Semipermanently flooded
- __ Temporarily flooded
- __ Seasonally flooded
- __ Saturated
- __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- X Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- ☑ Very poorly drained

Ground cover

__ % Bedrock	____ % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders >10cm)	____ % Wood (> 1 cm)	____ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	✓ % Water	
__ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- __ Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- X Herb - Perennial

Physiognomic Class
- __ Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- X Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Beaver impounded wetland with numerous snags comprised of Liquidambar styraciflua, Acer rubrum, Quercus lyrata, and some Fraxinus pennsylvanica. Shrub layer is sparse, whereas the herb layer is well represented.

Comments Plot taken from swamp margin roughly 25 meters from NT.

Disturbance and animal use comments: Beaver induced wetland.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County: _____ **Park:** NATR **Plot Code:** AS35 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1	2-5m	20%	Ceph occ - 10%	2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous		50%	Poly hyd - 20%, Leer ory - 10%, Junc eff - 10%	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
					6		6	Poly hyd		
					6		6	Leer ory		
					5		5	Junc eff		
			5				5	Ceph occ		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.384 Page 1

County: Attala Park: NATR Plot Code: A572 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 7330 (successional sweetgum floodplain forest)

Survey date: 9/29/05 Surveyors: Al Schotz

Datum WGS 84 Recording (decimal degrees): 2713799 N 3677515 W

GPS File Name A572 Coordinate accuracy 80 (m) / ft DOP _____ # sats 7 Elevation 182 (m) / ft

Directions or nearby Mile marker:

Measured Slope 0.0 %

Measured Aspect 0 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
✓ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- X Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- __ Moderately well drained
- X Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 30 % Litter, duff
- 30 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Site composed of tall, kinky Liquidambar in a bottomland situation. Shrub layer is relatively thick enshrouded in a tangle of vines.

Comments Roughly 20 meters to the west the elevation increases, supporting a different suite of canopy species, including Pinus taeda, Quercus nigra, and Liriodendron. Area beyond resembling boundaries ~~are~~ similar to plot.

Disturbance and animal use comments: is

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ Park: NATR Plot Code: 7572 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1	20-35m	60%	Liquidambar styraciflua - 60%	< .5m	5%
Tree Canopy T2	10-15m	30%	Liriodendron tulipifera - 20%, Acer rubrum - 20%	.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1	2-5m	20%	Ulmus americana - 10%	2-5m	30%
Short shrub S2	1-2m	20%		5-10m	40%
Herbaceous		—	Sparsely ca. 5% coverage	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		30%	Smilax bona-nox - 10%, Lonicera japonica - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Magnolia virginiana, Taxodium distichum, Sambucus canadensis, Lobelia cardinalis				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8						8	Liquidy		
		6					6	Liri tul		
		6					6	Acer rub		
			5				5	Ulmus ame		
						5	5	Smilbon		
						5	5	Lonijap		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.385 Page 1

County: Chickasaw Park: NATR Plot Code: NS26 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 6011 (early- to ~~mid-successional~~ loblolly pine forest)

Survey date: 9/27/05 Surveyors: Al Schotz

Datum WGS 84 ~~UTM~~ (decimal degrees): 326817 N 3769333 W

GPS File Name NS26 Coordinate accuracy 8 (m) ft DOP _____ # sats 6 Elevation 134 (m) ft

Directions or nearby Mile marker:

Measured Slope 0.0 %

Measured Aspect _____ ° (N=0°)

Topographic Position
- X Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand X Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

__ % Bedrock	90 % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
__ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- X Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Loblolly pine stand with a sapling (1-2m high) understory dominated by *Liquidambar styraciflua*. Site was recently burned (ca. 3 yrs ago). Some mature sweetgum are widely scattered, but not in plot.

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park:** NATR **Plot Code:** AS26 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	15-20m	60%	Pinu tae - 60%	.5-1m	10%
Understory T3	—	—	None	1-2m	20%
Tall shrub S1	—	—		2-5m	30%
Short shrub S2	1-2m	50%	Liqu sty - 50%	5-10m	40%
Herbaceous	—	10%	3acc alo - 10%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8						8	Pinu tae		
				7			7	Liqu sty		
					5		5	3acc alo		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.386 Page 1

County: Chickasaw Park: NATR Plot Code: A327 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 4412 (southern red) oak flatwoods forest

Survey date: 9/27/05 Surveyors: A1 Schotz

Datum WGS 84 ~~Lat/Long~~ UTM (decimal degrees): 325728 N 3767283 W

GPS File Name A327 Coordinate accuracy 7 (m) ft DOP _____ # sats 5 Elevation 109 (m) ft

Directions or nearby Mile marker:
Ca. 0.4 road mile south of mile marked 243, west side of road.

Measured Slope 0.0 %

Measured Aspect ____ ° (N=0°)

Topographic Position
- X Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam X Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Interesting mix of canopy species; although site appears to be dominated by Quercus falcata, Quercus nigra, Carya spp., species generally favoring more hydric conditions also exist, most notably Quercus phellos. Since the site is flat perhaps sufficient ponding occurs seasonally to sustain willow oak, while on the sand taken it's not prolonged enough to preclude typical upland hardwoods for this regim.

Comments

Disturbance and animal use comments: No exotics observed.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:** ASSI **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	80%	Quer vel - 30%, Quer Fal - 20%, Cary gla - 20%	.5-1m	10%
Understory T3	10-15m	30%	Cary alb - 20%, Liqu sty - 10%	1-2m	20%
Tall shrub S1	2-5m	40%	Flex dec - 20%, Nyss syl - 10%, Cary alb - 10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous	—	—	herb layer very sparse, ca. 2% coverage	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	10%	Smil rot - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Quer vel		
	6						6	Quer Fal		
	6						6	Carya gla		
		6	5				6	Cary alb		
		5					5	Liqu sty		
			6				6	Flex dec		
			5				5	Nyss syl		
						5	5	Smil rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.387 Page 1

County: Chilcoar Park: NATR Plot Code: A529 State: AL (MS) TN Location org: NPS

Location name _____ Provisional community name 8462 (mid- to late successional hardwood pine - sweetgum forest)

Survey date: 9/26/05 Surveyors: Al Schotz

Datum WGS 84 Lat/Long (decimal degrees): 3201770 N 3754002 W (UTM)

GPS File Name A529 Coordinate accuracy 10 (m)/ ft DOP _____ # sats 6 Elevation 109 (m)/ ft

Directions or nearby Mile marker:

Measured Slope 6 ° ____ %

Measured Aspect 80 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam X Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

__ % Bedrock	90 % Litter, duff	____ % Bryophyte/lichen
__ % Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____ % Other _____
__ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
__ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- __ Forest (closed tree canopy)
- X Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mature loblolly stand with various hardwoods, most notably sweetgum, in the sub-canopy layers. Site appears to have been recently thinned, perhaps of hardwoods. As a result the shrub layers are weedy.

Comments Roughly 10-15 meters to the is maintained lawn, while remaining surroundings are similar to plot.

Disturbance and animal use comments: Lonicera japonica is common.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:** A309 **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	20-35m	50%	Pinu tae-30%, Liqu sty-20%	.5-1m	10%
Understory T3	10-15m	10%	Liqu sty-10%	1-2m	20%
Tall shrub S1	2-5m	20%	Corn flo-10%	2-5m	30%
Short shrub S2	1-2m	40%	Liri tul-20%, Liqu sty-10%	5-10m	40%
Herbaceous	–	50%	Toxi rad-50%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	–	30%	Loni jap-30%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Pinu tae		
	6	5		5			6	Liqu sty		
			5				5	Corn flo		
				6			6	Liri tul		
					7		7	Toxi rad		
						7	7	Loni jap		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.388 Page 1

County: Chickasaw Park: NATR Plot Code: A328A State: AL (MS) TN Location org: NPS

Location name _____ **Provisional community name** 7330 (successional sweetgum floodplain forest)

Survey date: 9/29/05 **Surveyors:** Al Schotz

Datum WGS 84 UTM (decimal degrees): 321656 N 3760036 W

GPS File Name A328A Coordinate accuracy 8 (m) ft DOP ____ # sats 6 Elevation 175 (m) / ft

Directions or nearby Mile marker:

Measured Slope 0 ° ____ %

Measured Aspect ____ ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- X Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
X *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated X Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam X Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
__ Well drained
X Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
- __ % Bedrock
- __ % Large rocks (cobbles, boulders >10cm)
- __ % Small rocks (gravel, 0.2-10 cm)
- __ % Sand (0.1-2 mm)
- 90 % Litter, duff
- 10 % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

Small stream bottomland forest dominated by large Liquidambar and Liriodendron in the canopy. Understory layers are relatively open. Ground cover generally thick.

Comments Drainage is bounded on either side by mature oak-hickory forests (mostly Quercus falcata + Quercus velutina) with some (perhaps no more than 5%) Pinus echinata.

Disturbance and animal use comments: Microstegium vimineum is abundant along stream. Lonicera japonica also occur at site.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:** MS28A **State:** AL (MS) TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2	35-50m	60%	Liqu sty - 30%, Liri tul - 30%	.5-1m	10%
Understory T3	15-20m	40%	Ulmu ame - 20%, Ulmu ala - 10%	1-2m	20%
Tall shrub S1	2-5m	10%	Ulmu ame - 10%	2-5m	30%
Short shrub S2	1-2m	10%		5-10m	40%
Herbaceous		20%	Desm pan - 10%	10-15m	50%
Non-vascular	–	–		15-20m	60%
Vine/liana	–	10%	Viti rot - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Liqu sty		
	7						7	Liri tul		
		6	6				6	Ulmu ame		
		5					5	Ulmu ala		
					5		5	Desm pan		
						5	5	Viti rot		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATCHEZ TRACE PARKWAY

VEGETATION CLASSIFICATION
NATURESERVE
FIELD FORMS NATR. 389 – NATR. 460

SEPTEMBER 2005

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR_389 **Page** 1

County: Lewis **Park:** NATR **Plot Code:** T07 **State:** AL MS TN **Location org:** NPS

Location name _____ **Provisional community name** See below CEGL004412

Survey date: 2005-09-30 **Surveyors:** Roger McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** 458138 E / 3929365 N

GPS File Name T07 **Coordinate accuracy** 6 m / ft **DOP** _____ **# sats** 5 **Elevation** 287 m / ft

Directions or nearby Mile marker:

Lewis monument area

Measured Slope

✓ ° ✓ %

Measured Aspect

✓ ° (N=0°)

FLAT.

Topographic Position

__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
__ Low level (terrace)
__ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
✓ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
X Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:

__ Sand __ Sandy loam
X Sandy clay loam
__ Loam __ Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:

__ Rapidly drained
__ Well drained
X Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover

____ % Bedrock
____ % Large rocks (cobbles, boulders >10cm)
____ % Small rocks (gravel, 0.2-10 cm)
____ % Sand (0.1-2 mm)
30 % Litter, duff
10 % Wood (> 1 cm)
____ % Water
15 % Bare soil
10 % Bryophyte/lichen
____ % Other _____

Leaf type:

X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community Flat, depressional woods. Overstory of Quercus phellos, bd Q. shellata also present. Sphagnum moss present too. Surrounding oak trees mature, somewhat open grown. At plot center, obvious understory of Acer r. rubrum. Area looks more typical of sites on the eastern highland rim of Tenn.

Undulation of .5m allows for the more wet species, surrounding woods which are higher are dry w/ more Fagacea. Plot center seems to be a wet opening within a dry flat woods possibly = CEGL004412 - Southern red oak Flat woods forest, but this spot with more Q. phellos & black oak.

Comments Plot added for I was searching for a historic record of Drosera brevifolia. Area looked interesting and unlike other plots, so I thought I would add one here.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	40	Quercus Phellos	.5-1m	10%
Understory T3	15-20	40	Acer Rubrum	1-2m	20%
Tall shrub S1	2-5	20	Vaccinium sp- collected	2-5m	30%
Short shrub S2	.5-1	10	Quercus phellos - NOT - dominant however	5-10m	40%
Herbaceous	.5-1	40	Chasmanthium laxum	10-15m	50%
Non-vascular		10	Sphagnum	15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Note on the Q. velutina almost appears as hybrid w/ Q. marilandica? One of the two trees				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6	4		4			7	Quercus phellos		
	5			3			5	Quercus falcata		
	6						6	Quercus velutina*		
			3	·			3	Jun. virg		
	5						5	Quercus stellata ARBOREUM		
			6				6	Vaccinium sp - Rounded leaf apex, young stems hairy leaves shiny	✓	✓
	4	4		4			5	Lig. styrac.		
		7					7	Acer rubrum → dull green leaves	-	
				4			4	Vacc. corymbosum → underside of leaves hairy - leaves pointed	✓	✓
				·	3		3	Microstegium		
					6		6	Chasm. laxum		
			3				3	Nyssa sylvat.		
								Rush collected *	✓	

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

* VERY Low Cover (1), but Curious

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.390

County: Lewis Park: NATR Plot Code: U35 State: AL MS TN Location org: NPS

Check close to Lawrence Line

Location name _____ **Provisional community name** CEGL007261*

Survey date: 9-30-05 **Surveyors:** Roger McCoy

Datum WGS 84 Lat/Long (decimal degrees): 452008 N 3917199 W UTM 2 16

GPS File Name U35A Coordinate accuracy 4.9 m / ft DOP _____ # sats 4 Elevation 285 m / ft

Directions or nearby Mile marker:

N. of Mi. Mm. 376

Measured Slope _____ ° 28 %

Measured Aspect 265 ° (N=0°)

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: ~~XERIC~~ : DRY-MESIC : MESIC __*Palustrine* __*Lacustrine* __*Riverine*:

__Permanently flooded __Semipermanently flooded __Temporarily flooded __Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand X Sandy loam
__Sandy clay loam
__Loam __Silt loam
__Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
X Well drained
__Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover

____% Bedrock	50 % Litter, duff	____% Bryophyte/lichen
5 % Large rocks (cobbles, boulders >10cm)	30 % Wood (> 1 cm)	____% Other _____
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	5 % Bare soil	

Leaf type:
X Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy) } close CALL
__ Woodland (open tree canopy) }
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community XERIC Q. prinus Forest. Some wind damage has created some gaps & opened the Forest a bit.

* Keys to Lower piedmont Chestnut oak forest, not sure what is meant by "Lower piedmont"

Comments Surrounding forest similar, except to S south/down slope more Q. alba.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	40	QUERCUS PRINOS	.5-1m	10%
Understory T3	10-15	10	OXYDENDRUM arbor	1-2m	20%
Tall shrub S1	2-5	20	Vacc. sp (slightly hairy) - collected earlier	2-5m	30%
Short shrub S2	.5-1	30	Vacc sp - no hairs - green stem -	5-10m	40%
Herbaceous	< .5	10	Sch. stoparium	10-15m	50%
Non-vascular			TRACE lichen/moss on Rocks	15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	QUERCUS prinus		
	5						5	Q. alba		
			5				5	VACC. - (bush - slightly hairy) ARBOREUM	✓	✓
				6			6	VACC. - PALLIDUM green stem - Low growing - collected earlier	✓	–
	4						4	Quercus coccinea		
		4					4	Oxy arbor.		
					3		3	Sch. STOPARIUM		
					3		3	Pteridium sp (collected C barnes on Mar 3?5) Aquilinum	✓	–
					2		2	Tephrosia virgin.		
			4				4	CARYA ALBA		
				4			5	Sass albidu-		
			3				3	CARYA GLABRA		
				4			4	SMILAX ROTUND		
					2		2	dic. dic dic		
					4		4	CAREX sp - NO Reprod. structures		
	5						5	Quercus stellata		
			3				3	NYSSA SYLV		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR.391 **Page** 1

County: Lewis - check, Close to Lawrence Line **Park:** NATR **Plot Code:** U34 **State:** AL MS TN **Location org:** NPS

Location name _____ **Provisional community name** CEGL007795** *

Survey date: 9-30-05 **Surveyors:** Roger McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** 451908 E W 3917213 N W UTM 2 16

GPS File Name U34A **Coordinate accuracy** 9.6 @ / ft **DOP** _____ **# sats** 4 **Elevation** 289 @ / ft

Directions or nearby Mile marker:
North of MM 376

Measured Slope
_____ ° 25 %

Measured Aspect
300 ° (N=0°)

Topographic Position
__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
X Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
__ Low level (terrace)
__ Channel bed
Cowardin System __ *Upland*: XERIC : (DRY-MESIC) : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand X Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
____ % Bedrock
5 % Large rocks (cobbles, boulders >10cm)
____ % Small rocks (gravel, 0.2-10 cm)
____ % Sand (0.1-2 mm)
70 % Litter, duff
10 % Wood (> 1 cm)
____ % Water
____ % Bare soil
5 % Bryophyte/lichen
____ % Other _____

Leaf type:
X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community mixed oak forest, but mainly with white oak. There is a presence of Quercus Falcata & Q. primus. Shrub layer & similar to other dry oak forests with Vaccinium sp & Smilax, but this site lacks the Vacc. arboreum & has a bit more mesic feel. On edge of plot (~300°) there is a large Q. primus at 74.5 cm dbh. The Q. Falcata is 54.3 cm. These are the largest trees in the plot

** - NOTE: If saying "No" to either Q. falcata or primus being dominant or co-dom., then it keys to Interior, dry-mesic white oak forest. Both falcata & primus are present in canopy but each w/ only one tree. - not enough (it seems) to classify as falcata or primus community. But, no white oak as big as the falcata & primus. Largest white oak 41.5 cm

Comments Surrounding forest seems similar to this

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	70	Quercus alba	.5-1m	10%
Understory T3	20-35	40	" "	1-2m	20%
Tall shrub S1	2m-5m	20	~~Oxydendron~~ Nyssa sylv.	2-5m	30%
Short shrub S2	.5-1	20	Sassafras alb.	5-10m	40%
Herbaceous	<.5	5%	mix of graminoids, none @ high value.	10-15m	50%
Non-vascular		5%	Scant moss on ground & trees	15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): All ~~other~~ canopy tree species - except for Q. alba - represented by one individual.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Quercus alba		
	5						5	Q. Falcata } one tree each		
	5			3			5	Q. primus }		
		5	4				6	Oxydendron arbor		
	4						4	Carya alba		
			4				4	Cornus Flo. Ja		
				4			4	Sm. LAU rotund		
				5			5	Sass. albidum → PALLIDUM		
				4			4	Vaccinium sp (~~stem stem~~ no berries) collected earlier	✓	
			4				4	STRAY grand.		
				1			1	Fagus grand		
					2		2	Dichan dich var dich		
					2		2	Dich. americana		
					2		2	Panicum boscii		
					2		2	Carex sp.		
				1			1	Acer rubr.		
				1			1	Liri. Tulip		
				1			1	Amel. arborea		
	4						4	Quercus coc.		
			4				4	NYSSA SYLV		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR.392 **Page** 1

County: Lawrence **Park:** NATR **Plot Code:** U33 **State:** AL MS (TN) **Location org:** NPS

Location name _____ **Provisional community name** See below* 7700

Survey date: 9-30-2005 **Surveyors:** Rosa McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** 451184 E 3915217 N W View 216

GPS File Name U33A **Coordinate accuracy** 10.3 m / ft **DOP** _____ **# sats** 3 **Elevation** 329 m / ft

Directions or nearby Mile marker: M.M. 375

Measured Slope _____ ° 9 %

Measured Aspect 230 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand X Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

____ % Bedrock	70 % Litter, duff	____ % Bryophyte/lichen
____ % Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____ % Other _____
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community DRY oak forest. moderately dense growth of vaccinium spp. Similar to other dry oak plots w/ a mix of Quercus prinus, stellata, alba, coccinea. Herb layer very sparse. These communities are really quite pleasant & provide a nice opportunity for one to see the various dry oaks. As w/ others this is a textbook example of the xeric oak forest which can be dominated by Q. prinus or Q. stellata.

* Community is likely one of the chestnut oak forests. Although Styrax grandifolius is present, it is not abundant as I have seen it in more mesic plots. As w/ other plots along parkway, I do not see a community for a Post oak/chestnut oak mix, but this seems to occur here. However, I admit I am using the Key in the Field, but do not have Ill Community descriptions.

Comments 9:55 AM- photos taken.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	20-35	50	Quercus shellata (Q. prinus close 2nd)	.5-1m	10%
Understory T3	15-20	20	Nyssa sylvat.	1-2m	20%
Tall shrub S1	2-5	20	Vaccinium arboreum	2-5m	30%
Short shrub S2	.5-1	30	Vaccinium sp (green stem, not hairy)	5-10m	40%
Herbaceous	<.5	<5%	DICA. dic dic.	10-15m	50%
Non-vascular			SCANT moss on tree trunks	15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): only three other spp. of herbs seen, but all scant (cover class #1) desmodium sp. Androp. virg., Teparosia virgin.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6						6	Quercus prinus		
	6						6	Q. stellata		
	5						5	Q. alba		
	4						4	Q. collinea		
		5					5	Nyssa sylvat		
			6				6	Vaccinium arboreum		
				5			5	V. sp (Pallidum no hairy green stem - collected earlier)	✓	✓
				3			3	V. sp hairy stem (VACCINIUM CORYMBOSUM)	✓	
				3			3	Styrax grandifol		
	4	4					5	Carya glabra		
				4			4	Smilax Rotund.		
					3		3	Dic. dic. dic.		
				2			2	Amelanchier arborea		
				3			3	Quercus sp (Red oak subgenus)		
			4				4	Oxydendron arbor		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR.393 **Page 1**

County: Lewis **Park:** NATR **Plot Code:** 173 **State:** AL MS TN **Location org:** NPS

Location name _____ **Provisional community name** CEGL007709 white oak / tulip tree mesic lower slope forest

Survey date: 7-30-2005 **Surveyors:** Roger McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** 458729 E 3931703 N UTM Z 16

GPS File Name 173A **Coordinate accuracy** 4.0 m / ft **DOP** _____ **# sats** 6 **Elevation** 225 @ / ft 230

Directions or nearby Mile marker: Lewis monument, north end of property upslope from trail

Measured Slope — ° 29 %

Measured Aspect 346 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
__ Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover

____ % Bedrock	10 % Litter, duff	____ % Bryophyte/lichen
5 % Large rocks (cobbles, boulders >10cm)	15 % Wood (> 1 cm)	50 % Other LONICERA JAPONICA
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community Mesic, scattered white oak jacked. Fairly mature & differing size classes. Forest appears to be decent quality, but there is an infestation of Lonicera japonica in the herb. layer. Forest was fairly easy to classify. If Lon. Jap was out, then would likely be a much greater herb diversity. As of now, no ACER SACH in overstory.

Comments upslope (SE) flat ridge-like area of cedar. LAST plot of project!

Disturbance and animal use comments: Exotic plant - Lon. Japonica.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	70	Q. alba	.5-1m	10%
Understory T3	5-10	30	OSTRYA virginia	1-2m	20%
Tall shrub S1	1-2	40	ACER SACH.	2-5m	30%
Short shrub S2	.5-1	40	ACER SACH	5-10m	40%
Herbaceous	<.5	70	Lon. JAPON.	10-15m	50%
Non-vascular			SCANT MOSS ON ROCKS	15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): LONICERA NOT AS A VINE, but ON GROUND				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	QUERCUS alba		
	6						6	LIRIO TULIP		
	4						4	PRUN SERO		
		6					6	OSTRY VIRG.		
				3			3	CORNUS FLORIDA		
				4			4	STYRAX GRAND		
					4		4	Dianthus amer.		
					5		5	Chas. Lev.		
					8		8	Lon. jap		
		4		3			5	CARYA GLABRA		
			5	6			7	ACER SACH.		
				3			3	Ilex ~~sp (collected earlier)~~ DECIDUA	✓	
					4		4	Polystichum achrost.		
				3			3	OXYDENDRON ARBOR.		
				3			3	FRAX AMER.		
				1			1	EUON AMERIC		
				1			1	VITIS ROTUND.		
		4					4	ACER RUBRUM		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.393 Page 3

County:______________ Park: NATR Plot Code: 173 State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

List ONLY dominant or diagnostic species, and mark ONLY those strata at which they are dominant, but consider all strata when giving total cover.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					1		1	Desmod. nudiflor		
	4						4	ULMUS AMER		
		3		3			4	Sass. albi		
	4						4	Plata. occident LONE TREE		
					3		3	Dioscorea quat.		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T2: Tree Can

T3 Subcanopy

S1 Tall Shrub (>1m; to 5m)

S2 Short Shrub (< 1m)

H Herbaceous

V Vines (lianas)

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.394 **Page** 1

County: Lewis **Park:** NATR **Plot Code:** U36 **State:** AL MS TN **Location org:** NPS

but very close to Lawrence

Location name _____ **Provisional community name** unknown- see below ** 2067

Survey date: ~~9-27-05~~ 9-30-05 **Surveyors:** Roger McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** 452645 E 3917969 N

GPS File Name U36A **Coordinate accuracy** 5.4 m / ft **DOP** _____ **# sats** 4 **Elevation** 259 m m / ft

Directions or nearby Mile marker: M.M 377

Measured Slope _____ ° 3 %

Measured Aspect 300 ° (N=0°)

Aspect not issue Slope so low

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- X Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC __*Palustrine* __*Lacustrine* __*Riverine*:
- __ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
- __ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- X Loam __ Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

____ % Bedrock	40 % Litter, duff	____ % Bryophyte/lichen
____ % Large rocks (cobbles, boulders >10cm)	15 % Wood (> 1 cm)	____ % Other _____
10 % Small rocks (gravel, 0.2-10 cm) - stream	____ % Water	
____ % Sand (0.1-2 mm) bed	____ % Bare soil	

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community Mesic white oak forest. Overstory trees mature. Plot near confluence of two small tribs. Plot ~~first~~ somewhat dense of saplings. RJ

? ** At initial glance, I was surprised to see Q. falcata & Q. coccinea in plot. Area definately has a mesic feel. White oak is the dominant, but other trees are present, however the following have only one individual present: Q rubra, Q. falcata, Q. stellata, Liriodendron tulipifera.

Comments PRIOR to averaging points, GPS unit indicated I was at the site, but then jumped 77m & then indicated at site again.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:**_____ **State:** AL MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m^2 area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	50+	60	QUERCUS ALBA	.5-1m	10%
Understory T3	20-35	46	" "	1-2m	20%
Tall shrub S1	2-5	30	ACER RUB	2-5m	30%
Short shrub S2	1-2	30	** RHODODENDRON SP. like- collected. hairy leaves & marginal hairs	5-10m	40%
Herbaceous	.5	30	Chasmanthium latum	10-15m	50%
Non-vascular			TRACE MOSS	15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): NOTE: Q. Rubra & Q. coccl. appear in this plot As does C. falcata				35-50m	80%
* RHODODENDRON → Likely Rhodo. canescens. No fruit, flowers, so cannot determine exactly. Could also be R. alabamense or R. periclymoides.				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7			5			7	Quercus alba		
	5						5	Carya alba		
		5					5	Prunus serot.		
			4				4	Ostrya virg.		
		3		3			4	Lig. styra.		
			5				5	RHODODENDRON SP.	✓	
					4		4	HYMENOCALLIS CAROLINIANA **	✓	✗
			4				4	ACER RUBRUM		
			3				3	STYRAX GRAND.		
					3		3	PANICUM BOSCII.		
				3			3	LIND. BENZO		
				3			3	SMILAX ROTUND		
				3			3	VITIS ROTUND		
					4		4	Chasmanthium latum (collected) each (A)	✓	✓
		4					4	byrd. cyber.		
	5						5	Quercus coll.		
					4		4	Thelip. novebor		
				4			4	Fagus grand.		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

** - Only Basal Leaves present. This is likely what the species is, but cannot say for 100%.

12:00 noon - photos taken of unknown plants

County:_____ **Park: NATR** **Plot Code:** U36 **State: AL MS TN** **Location org: NPS**

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

List ONLY dominant or diagnostic species, and mark ONLY those strata at which they are dominant, but consider all strata when giving total cover.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					4		4	MICROSTEGIUM - DRY CREEK bed		
			4				4	CORNUS FLORIDA.		
					2		2	DESMOD. ROTUND		
	4						4	LIRIO TULIP		
					4		4	Osmunda Regalis		
	5						5	Quercus rubra		
				3			3	CARYA glabra		
				5			5	Sass-Fras alb.		
	4						4	Q. Falcata		
			3				3	Vaccinium sp - slightly hairy Leaves & stem	✓	
								CORYMBOSUM		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T2: Tree Can

T3 Subcanopy

S1 Tall Shrub (>1m; to 5m)

S2 Short Shrub (< 1m)

H Herbaceous

V Vines (lianas)

NATR. 395

Page 1

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: WAYNE Park: NATR Plot Code: U12 State: AL MS TN Location org: NPS 7261 !

FORGOT THIS. SO THESE #'S are estimates.

Location name _____ **Provisional community name** POSSIBLY CEGL7261 , Lower pied-chestnut oak - See below

Survey date: 9-21-05 **Surveyors:** Roger McCoy

Datum _WGS 84_ ~~Lat/Long (decimal degrees)~~ UTM 1986 2-16: 434604 E 3896570 N

GPS File Name V12A Coordinate accuracy 4.9 (m) / ft DOP _____ # sats _____ Elevation 336 (m) / ft

Directions or nearby Mile marker:

Measured Slope _____ ° 10 %

Measured Aspect 140 ° (N = 0°)

Topographic Position

- Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- Midslope (middle slope)
- Lowslope (lower slope, footslope)
- Toeslope (alluvial toeslope)
- Low level (terrace)
- Channel bed

Cowardin System *Upland*: XERIC : (DRY-MESIC) : MESIC

Palustrine *Lacustrine* *Riverine*:

Permanently flooded Semipermanently flooded Temporarily flooded

Seasonally flooded Saturated Irregularly flooded

Soil texture:

Sand Sandy loam

X Sandy clay loam

Loam Silt loam

Silt/ Silty clay loam

Silty clay Clay

Muck Peat

Drainage:

Rapidly drained

X Well drained

Moderately well drained

Somewhat poorly drained

Poorly drained

Very poorly drained

Ground cover

____% Bedrock	50 % Litter, duff	____% Bryophyte/lichen
____% Large rocks (cobbles, boulders > 10cm)	15 % Wood (> 1 cm)	____% Other _____
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:

X Broad-leaved

Needle-leaved

Graminoid

Broad-leaved herbaceous

Pteridophyte

Mixed

Leaf phenology (dominant stratum)

~~X~~ Evergreen

X Cold-deciduous

Mixed evergreen-cold-deciduous

Herb - Annual

Herb - Perennial

Physiognomic Class

X Forest (closed tree canopy)

Woodland (open tree canopy)

Shrubland

Dwarf Shrubland

Herbaceous (less than 25% woody layers)

Nonvascular

Sparse Vegetation

Qualitative description of Community Lots of edge effect because it is between NRP & Highway 13. ~~White oak & Chestnut oak almost even~~. Although no exotics, Lots of TOX RAD & SMILAX Behaving aggressively. Ground Layer all woody plants.

Depending on exact location of this plot it could be dominated by either Q. prinus OR Q alba, or mixed.

Comments ? Forest does have Quercus prinus, but it is ALMOST ✓ even w/ Quercus alba - especially just outside understory disturbed & similar to the other dry oak forests of PLOT.

Disturbance and animal use comments: Some wind damage, Edge effect

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.395 Page 2

County: WAYNE **Park:** NATR **Plot Code:** V12 **State:** AL MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	30	QUERCUS PRINUS	.5-1m	10%
Understory T3	20-35	30	CARYA GLABRA	1-2m	20%
Tall shrub S1	2-5	10	NYSSA SYLVAT.	2-5m	30%
Short shrub S2	1-2	80	TOX. RAD.	5-10m	40%
Herbaceous	<.5	30	TOX RAD	10-15m	50%
Non-vascular		TRACE	Some Lichens on Trees	15-20m	60%
Vine/liana	1-2	20	SMILAX ROTUND	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): LOTS OF WOODY VINES				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6			3	3		7	QUERCUS PRINUS		
	5			3			6	Quercus alba		
	4						4	Carya glabra		
			5				5	Rhamnus Caroliniana → decidua		
			4				4	ILEX spp (Collected @ other plot)	✓	—
				4			4	Vitis Rotund.		
						6	6	SMILAX ROTUND		
				5	4		6	TOX RAD		
					3		3	FRAX AMER.		
					3		3	SASS ALB.		
			5				5	NYSSA SYLVAT		
				1			1	PRUNUS SEROT.		
						2	2	DIOSCOREA QUATER		
					2		2	QUERCUS VELUTINA		
					3		3	PARTH QUINQU		
					2		2	LIRIO TULIP.		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

Location name _____ **Provisional community name**_____

Survey date:_____ **Surveyors:**_____

Datum __WGS 84__ **Lat/Long (decimal degrees):** _____ **N** _____ **W**

GPS File Name _____ **Coordinate accuracy** _____ **m / ft** **DOP** _____ **# sats** _____ **Elevation** _____ **m / ft**
Directions or nearby Mile marker:

Measured Slope

_____ ° _____ %

Measured Aspect

_____ ° (N = 0°)

Topographic Position
__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
__ Low level (terrace)
__ Channel bed
Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand __Sandy loam
__Sandy clay loam
__Loam __Silt loam
__Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
__Well drained
__Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover
____% Bedrock
____% Large rocks (cobbles, boulders > 10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
____% Litter, duff
____% Wood (> 1 cm)
____% Water
____% Bare soil
____% Bryophyte/lichen
____% Other _____

Leaf type:
__Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)
__ Evergreen
__ Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
__ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR.396

County: WAYNE **Park:** NATR **Plot Code:** U11 **State:** AL MS TN **Location org:** NPS

Location name _____ **Provisional community name** CEGL007709 – White oak/Tulip Tree

Survey date: 9-21-05 **Surveyors:** McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** 434639 **N** 3896858 **W**

GPS File Name WAYN U11A **Coordinate accuracy** 11.6 (m) / ft **DOP** _____ **# sats** 5 **Elevation** 321 (m) ft

Directions or nearby Mile marker:

Measured Slope

— ° 15 %

Measured Aspect

127 ° (N=0°)

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC

__*Palustrine* __*Lacustrine* __*Riverine*:

__Permanently flooded __Semipermanently flooded __Temporarily flooded

__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:

- __Sand X Sandy loam
- __Sandy clay loam
- __Loam __Silt loam
- __Silt/ Silty clay loam
- __Silty clay __Clay
- __Muck __Peat

Drainage:

- __Rapidly drained
- X Well drained
- __Moderately well drained
- __Somewhat poorly drained
- __Poorly drained
- __Very poorly drained

Ground cover

____% Bedrock	40 % Litter, duff	____% Bryophyte/lichen
____% Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____% Other _____
5 % Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:

- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)

- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class

- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community O RAVINE on high to midslope. Due to construction of two Roads, area is depression. WATER is slowed draining thru CULVERT.

Comments

Disturbance and animal use comments: Road construct. & Plot is only 50m from County Road

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	40	LIRIODENDRON TULIP	.5-1m	10%
Understory T3	15-20	30	~~ACER~~ QUV AL	1-2m	20%
Tall shrub S1	2-5	20	NYSA SYL.	2-5m	30%
Short shrub S2	.5-1	20	TOX RAD	5-10m	40%
Herbaceous	<.5	60	TOX RAD	10-15m	50%
Non-vascular			-	15-20m	60%
Vine/liana	15-20	10	TOX RAD	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): MICROSTEGIUM present				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6						6	LIRIO TUL		
	5	4					5	Quer alb		
			4				4	Acer Rub.		
	4						4	CARYA ALBA		
				3			3	PRUNUS SP		
						3	3	SMILAX ROTUND.		
				4	7		8	TOX RAD		
				1			1	ERA AN		
		3					3	CARYA OVATA VAR AUST.		
	4						4	PLAT occident		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.397 **Page** 1

County:_____ **Park:** NATR **Plot Code:** U17 **State:** AL MS TN **Location org:** NPS

Location name _____ **Provisional community name** CEGL007261 - ? 7261!

Survey date: 9-21-05 **Surveyors:** Roger McCoy

Datum _WGS 84_ **Lat/Long (decimal degrees):** UTM 16 1983 434562 E 3876850 N

GPS File Name U17a **Coordinate accuracy** 4,6 (m) / ft **DOP** ____ **# sats** ____ **Elevation** 331 (m) ft

Directions or nearby Mile marker:

Measured Slope 15 %

Measured Aspect 100 ° (N=0°)

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC

__*Palustrine* __*Lacustrine* __*Riverine*:

__Permanently flooded __Semipermanently flooded __Temporarily flooded

__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:

- __Sand X Sandy loam
- __Sandy clay loam
- __Loam __Silt loam
- __Silt/ Silty clay loam
- __Silty clay __Clay
- __Muck __Peat

Drainage:

- __Rapidly drained
- X Well drained
- __Moderately well drained
- __Somewhat poorly drained
- __Poorly drained
- __Very poorly drained

Ground cover

____% Bedrock	80 % Litter, duff	____% Bryophyte/lichen
____% Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____% Other _____
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:

- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)

- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class

- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community DRY, OPEN QUERCUS PINUS FOREST W/ LITTLE HERB LAYER

Comments PLOT U17 PROVIDED BY USGS WOULD HAVE TAKEN ME TO S.R. 13 RIGHT OF WAY. PLOT MOVED INTO WOODS A BIT.

Disturbance and animal use comments: CASE (FELL & SOME WIND)

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	40	QUERCUS PRINUS	.5-1m	10%
Understory T3	15-20	20	CARYA GLABRA	1-2m	20%
Tall shrub S1	2-5	10	NYSSA SYLVAT	2-5m	30%
Short shrub S2	.5-1	10	Quercus prinus	5-10m	40%
Herbaceous	.5-1		TOX RAD	10-15m	50%
Non-vascular			—	15-20m	60%
Vine/liana			—	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): LOW DIVERSITY. ⊕ Even if all plants was Listed WOULDNT BE MANY. Scenic & open however				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	4			5			8	QUERCUS Prinus		
	5	4		3			6	CARYA GLABRA		
	4	3	2				5	NYSSA SYLVATICA		
				5	3		5	TOX RAD.		
	4							QUERCUS ALBA		
				1			1	VACCINIUM ~~Collected earlier~~ TRACE pallidum	✓	✓

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR. 398 **Page** 1

County: ~~WAYNE~~ **Park:** NATR **Plot Code:** U15 **State:** AL MS (TN) **Location org:** NPS

Location name _____ **Provisional community name** Ceg L 007261, 6.+w/ Q. AL.

Survey date: 921 **Surveyors:** Roger mcCoy

Datum WGS 84 **Lat/Long (decimal degrees):** UTM 16 83 434557 **N** 3896904 **W**

GPS File Name U15A **Coordinate accuracy** 8.1 (m) / ft **DOP** _____ **# sats** 4 **Elevation** 334 (m) / ft

Directions or nearby Mile marker:

Measured Slope — ° 9 %

Measured Aspect 84 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: ~~XERIC~~ : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand X Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

____ % Bedrock	60 % Litter, duff	____ % Bryophyte/lichen
____ % Large rocks (cobbles, boulders >10cm)	20 % Wood (> 1 cm)	____ % Other _____
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Chestnut oak, white oak, hickory forest. Low herb diversity

Edge effect from parking & highway 13.

Comments

Disturbance and animal use comments: Some wind

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	30	Quercus prinus	.5-1m	10%
Understory T3	15-20	20	CARYA GLABRA	1-2m	20%
Tall shrub S1	2-5	10	NYSSA SYL.	2-5m	30%
Short shrub S2	1-2	20	MIX of everything Listed below, No dominant	5-10m	40%
Herbaceous	0.5	20	VITIS ROTUND.	10-15m	50%
Non-vascular			—	15-20m	60%
Vine/liana	10-5	5	TOX RAD	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Interestingly one plant of Smilax recimosa in this dry plot.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6						6	Quercus prinus		
	5						5	Quercus alba		
		3	4				5	NYSSA SYL.		
	4			2			5	CARYA GLABRA		
				2	3	2	5	VITIS ROTUND.		
			2	2			3	PRUNUS SERO		
						2	2	TOX RAD		
						2	2	DIO. QUAT		
				2		2	3	SMILAX ROTUND		
			3	2			4	CARYA ALBA		
	4						4	Quercus velutina		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form*

NATR.399 Page 1

7700

County:_____ Park: NATR Plot Code: U14* State: AL MS TN Location org: NPS

Location name _____ **Provisional community name** Did not see fit in book*

Survey date: 9-21-2005 **Surveyors:** Roger McCoy

Datum WGS 84 UTM **Lat/Long (decimal degrees):** E 434618 N 3897060 W

GPS File Name U14A **Coordinate accuracy** 9 m / ft **DOP** _____ **# sats** 8 **Elevation** 340 m / ft

Directions or nearby Mile marker:

Measured Slope

_____ ° 14 %

Measured Aspect

140 ° (N=0°)

Topographic Position

__ Interfluve (Ridge, summit or crest)
X High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
__ Low level (terrace)
__ Channel bed

Cowardin System __*Upland*: XERIC (DRY) MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand X Sandy loam
__Sandy clay loam
__Loam __Silt loam
__Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
X Well drained
__Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
60 % Litter, duff
20 % Wood (> 1 cm)
____% Water
____% Bare soil
____% Bryophyte/lichen
____% Other _____

Leaf type:

X Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)

__Evergreen
X Cold-deciduous
__Mixed evergreen-cold-deciduous
__Herb - Annual
__Herb - Perennial

Physiognomic Class

X Forest (closed tree canopy)
__Woodland (open tree canopy)
__Shrubland
__Dwarf Shrubland
__Herbaceous (less than 25% woody layers)
__Nonvascular
__Sparse Vegetation

Qualitative description of Community DRY FOREST, LOW HERB DIVERSITY, NEAR EDGE SO SOME EFFECTS OF SMILAX ROTUND

*

COMMUNITY OF QUSTCI, QUVE! & VARIOUS HICKORIES

Comments * U14 (Provided by USGS LCS on edge of woods/mowed area) Plot moved into woods to be more homogeneous.

Disturbance and animal use comments: SOME WIND

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:**_____ **State:** AL MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m^2 area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	40	20-35	MIXED OAKS	.5-1m	10%
Understory T3	12 0	10-65	NYSSA SYL.	1-2m	20%
Tall shrub S1	30	2-5	ACER RUB	2-5m	30%
Short shrub S2	20	1-2	STYRAX	5-10m	40%
Herbaceous	20	< .5	VITIS ROTUND	10-15m	50%
Non-vascular	—			15-20m	60%
Vine/liana		—		20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): IF PLOT WERE IN SLIGHTLY DIFFERENT AREA, IT WOULD HAVE CAPTURED A POST OAK MORE				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	5						5	Quercus alba stellata		
	6						6	Quercus coccl.		
	5						5	Quercus velu.		
	4						4	Carya glabra		
		3					3	Lid Styra		
	4						4	CARYA OVALIS		
		5					5	NYSSA SYL		
				4			4	STYRAX GRAND		
		4	4				5	ACER RUB		
			2				2	CORN FLORIDA		
				4			4	QUERCUS PRINUS		
				3			3	SAS ALB		
				2			2	SMIL GLAUCA		
				3			3	SMILAX ROTUND		
				4			4	VITIS ROTUND.		
								[illegible] outside		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.400 **Page** 1

County:_____ **Park:** NATR **Plot Code:** U18 **State:** AL MS TN **Location org:** NPS

Location name _____ **Provisional community name** CEGL007795

Survey date: 9-21-05 **Surveyors:** Roger McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** UTM Zone 16 NAD 83 434619 E 3897004 N

GPS File Name U18A **Coordinate accuracy** 7 m / ft **DOP** ____ **# sats** 4 **Elevation** 331 m / ft

Directions or nearby Mile marker:

Measured Slope — ° 14 %

Measured Aspect 155 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : (DRY)-MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
- __Sand X Sandy loam
- __Sandy clay loam
- __Loam __Silt loam
- __Silt/ Silty clay loam
- __Silty clay __Clay
- __Muck __Peat

Drainage:
- __Rapidly drained
- X Well drained
- __Moderately well drained
- __Somewhat poorly drained
- __Poorly drained
- __Very poorly drained

Ground cover

____% Bedrock	40% Litter, duff	____% Bryophyte/lichen
____% Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____% Other _____
5 % Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	5 % Bare soil	

Leaf type:
- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community Plot is a dry upland but in a moderate ravine, wet-weather conveyance.

? The communities provided rely mainly on the oak. This plot has one oak tree. However additional oaks surround plot (Q. velutina, Q. coccinea, Q. alba) As does tulip tree, just not in this plot

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	40	CARYA GLABRA	.5-1m	10%
Understory T3	15-20	20	NYSSA SYL.	1-2m	20%
Tall shrub S1	2-5	10	" "	2-5m	30%
Short shrub S2	.5-1	10	~~Hamm virginiana~~. STYRAX GRAND	5-10m	40%
Herbaceous	1.5	20	VITUS ROTUND.	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana		70	TOX RAD	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	4						4	CARYA OVATA		
	4						4	QUERCUS VELU		
	4						4	ACER RUB		
			4	4			5	~~HAM VIR~~ STYRAX GRAND		
	4						4	CARYA GLABRA		
				4	4		5	VITIS ROTUND		
				4	4	3	5	TOX RAD		
					3		3	ILEX (collected earlier)		
	4						4	CARYA ALBA		
						3	3	SMILAX ROTUND		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.401 Page 1

County: WAYNE Park: NATR Plot Code: 107 State: AL MS (TN) Location org: NPS

Location name _____ **Provisional community name** Beech-maple unglaciated Forest CEGL002411

Survey date: _____ **Surveyors:** _____

Datum _WGS 84_ Lat/Long (~~decimal degrees~~): UTM Zone 16 E 42735 N 3881021

GPS File Name 107A Coordinate accuracy 13 (m) / ft DOP _____ # sats 3 Elevation 252 (m) / ft

Directions or nearby Mile marker:

Measured Slope 35° / X %

Measured Aspect 308 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- X Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : (MESIC)
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand __Sandy loam
__Sandy clay loam
__Loam __Silt loam
__Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
__Well drained
__Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover

____% Bedrock	30 % Litter, duff	____% Bryophyte/lichen
5 % Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____% Other _____
10 % Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	5 % Bare soil	

Leaf type:
- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community Area is cherty slope upslope from Lowland. Plot moved slightly to capture slope. Edge of plot is NPS boundary w/ wire fence. The adjacent lowland plot had Qu alba, but they were dominant in ground layer w/ much cinnamon fern. Lowland next to this plot also had a good community Microstegium. Other than 2 species of unidentifiable germinant (Carex sp) (No fruit) plot sparsely covered in herb layer.

Although a beech forest appears a bit young. Some lowland species @ base of slope

Comments

Disturbance and animal use comments: Tree Tip-up

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:** 07 **State:** AL MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1			~~FAG~~ GRAN.	< .5m	5%
Tree Canopy T2	20-35	50%	FAG GRAN.	.5-1m	10%
Understory T3	2-5	10%	FAG GRAN	1-2m	20%
Tall shrub S1		~~5%~~		2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous	<5.	10%	UNKNOW CAREX (NO FRUIT/FLOWERS)	10-15m	50%
Non-vascular		5%	MOSS	15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	3						3	LIQ. STY. - (ONE LARGE TREE)		
	5	4					6	FAG. GRAN		
		2						SAS ALB. - ONE TREE		
		4						ULM AMER		
					3			POLY ACRODSTICOIDES		
					4			UNKNOW CAREX (NO FRUIT/FLOWERS)		
					3			VITIS ROTUNDI !	✓	-
					2			TOX RAD		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.402 **Page** 1

County: WAYNE **Park:** NATR **Plot Code:** 111 **State:** AL MS (TN) **Location org:** NPS

Location name _____ **Provisional community name** Successional sweetgum floodplain forest CEGL007332

Survey date: 9-21-05 **Surveyors:** Roger McCoy

Datum _WGS 84_ **Lat/Long (decimal degrees):** VTM 427396 E 3881176 N

GPS File Name 111A **Coordinate accuracy** 6.5 (m) / ft **DOP** _____ **# sats** 4 **Elevation** _____ m / ft

Directions or nearby Mile marker:

Measured Slope

_____ ° _____ %

Measured Aspect

_____ ° (N = 0°)

FLAT

Topographic Position

__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
X Low level (terrace)
__ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
√*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated X Irregularly flooded

Soil texture:
__Sand __Sandy loam
__Sandy clay loam
__Loam __Silt loam
X Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
__Well drained
__Moderately well drained
X Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
____% Litter, duff
10 % Wood (> 1 cm)
____% Water
10 % Bare soil
____% Bryophyte/lichen
____% Other _____

Leaf type:

X Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)

__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

Judging from the amount of Tox rad, area appears disturbed. Area is flat, good sized trees but rather vine w/ Tox rad, Smilax rotund. Small ditches ~~appear~~ are present, likely from standing H_2O during wet season.

Comments

Plot moved slightly (new point taken) due to proximity to road.

Disturbance and animal use comments: Author does not know birds well, but could hear a good many @ 8:30A.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:**_____ **State:** AL MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m^2 area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	40 %	LIQ. STY	.5-1m	10%
Understory T3	~~2-5~~	~~10 %~~	~~CARP. CARO~~	1-2m	20%
Tall shrub S1	2-5	10	CARP. CARO	2-5m	30%
Short shrub S2	1-2	20	SMILAX ROTUND.	5-10m	40%
Herbaceous	.5-1	20	TOX RAD	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana	20-35	5 %	TOX RAD	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): SOME CHASMANTHIUM LAXUM? If present IN ONE clump OTHER Jeans present in small numbers (Canebrake season)				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7							LIQ. STYR.		
			5					CARP CAROL		
					3			THEL NOVABOR.		
					5	3	6	TOX RAD		
				5				~~SMIL~~ SMIL ROTUND		
					4			POLYS ACROIST.		
				4				LIN. BENZ		
						2		DIOSMARIA BARBORI		
			3					NYSSA SYL. VAR BIFLORA.		
				2				FAG GRAN		
					2			PART QUIN		
					1			UNOLICK Sen.		
					1			BOTR. ~~Dissec~~		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.403 — Page 1

County: WAYNE Park: NATR Plot Code: U7 State: AL MS (TN) Location outside NPS

Location name _____ Provisional community name EITHER: CEGL002070 OR 2067*

Survey date: 9-21-05 Surveyors: ROGER McCOY

Datum WGS 84 Lat/Long (decimal degrees): 428595 E 3883976 W N

GPS File Name U7A Coordinate accuracy 6.5 m / ft DOP _____ # sats _____ Elevation 314 m / ft

Directions or nearby Mile marker:

Measured Slope 07 ° 15 %

Measured Aspect 150 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : (DRY-MESIC) : MESIC __*Palustrine* __*Lacustrine* __*Riverine*:

__Permanently flooded __Semipermanently flooded __Temporarily flooded __Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand X Sandy loam __Sandy clay loam __Loam __Silt loam __Silt/ Silty clay loam __Silty clay __Clay __Muck __Peat

Drainage:
__Rapidly drained X Well drained __Moderately well drained __Somewhat poorly drained __Poorly drained __Very poorly drained

Ground cover

____% Bedrock	15 % Litter, duff	____% Bryophyte/lichen
____% Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____% Other _____
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
__Broad-leaved __Needle-leaved __Graminoid __Broad-leaved herbaceous __Pteridophyte __Mixed

Leaf phenology (dominant stratum)
__ Evergreen __ Cold-deciduous __ Mixed evergreen-cold-deciduous __ Herb - Annual __ Herb - Perennial

Physiognomic Class
__ Forest (closed tree canopy) __ Woodland (open tree canopy) __ Shrubland __ Dwarf Shrubland __ Herbaceous (less than 25% woody layers) __ Nonvascular __ Sparse Vegetation

Qualitative description of Community

Dry-mesic to dry oak forest w/ Quer. r-bra/alba. A good amount of standing dead Qu. r-bra 25-35 cm dBH. The woody debris on ground is Q. rubra. If entire area was considered (SAF / FIA) Then forest contain more Q. alba & some Q coccinea. Q. r-bra & cocc. mixed in spots, but Coccinea not found in 11.3m radius plot

FEW Herbs on date of visit

* Forest is white oak/Red oak forest. Has characteristics of basic (Sugar maple, dogwood) & Acidic (Carya alba, & some vaccinium outside of plot)

Comments

According to my GPS unit, this plot is on edge or just outside of NPS boundary. However, no signs of markers, fence, etc.

NOTE: Have Clinometer @ this plot slope measurement is 0/1.

Disturbance and animal use comments: Some downed trees, dead.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1			~~Quercus alba / Rub~~	< .5m	5%
Tree Canopy T2	20-35	30	Quercus alba / Rubra	.5-1m	10%
Understorey T3	10-15	20	Acer Saccharum	1-2m	20%
Tall shrub S1	2-5	10	(mix of hickories, carpinus, Almus alata)	2-5m	30%
Short shrub S2	.5-1	10	" "	5-10m	40%
Herbaceous	.5-1	20	Vitus Rotund. (behaving as herb)	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): of interest is the dead Q. rubra trees! mix of hickories, Q coccinea outside of plot				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	5			2			5	QUERCUS rubra*		
		3	3				4	Acer Saccharum		
	35	3					5	Quercus alba		
					5		5	VITIS Rotund		
				3			3	CARYA GLABRA		
				2			2	FRAX AMER		
				3			3	CARYA TOMEN. (CARA ALBA)		
				2			2	CARY CORDIFORMIS		
	3						3	PRUNUS SEROTINA		
			2				2	Amelanchier arborea		
			2				2	Cornus florida		
			2				2	Sassafras ALBI.		
						2	2	Smilax glauca		
		2	2				3	Carya ovata		
					3		3	TOX RAD		
			2				2	NYSA SYLVAT.		
			2				2	CARP. CAROLIN		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

* habitat seems more suitable for Q. coccinea but ~~acorn~~ acorn & leaves indicates Q. rubra. However, some Q. coccinea outside of plot

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.404 **Page** 1

County: WAYNE **Park:** NATR **Plot Code:** U10 **State:** AL MS (TN) **Location org:** NPS

Location name _____ **Provisional community name** CEGL007709 Highland Rim QUAL/LITU mesic Lower slope *

Survey date: 9-21-05 **Surveyors:** Roger McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** 428502 E / 3884095 W — N — Check the E?N - not sure which is which!

GPS File Name U10A **Coordinate accuracy** 7.3 (m) / ft **DOP** _____ **# sats** 4-5 **Elevation** 322 (m) / ft

Directions or nearby Mile marker:

Measured Slope — ° 6 %

Measured Aspect 323 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand X Sandy loam
__Sandy clay loam
__Loam __Silt loam
__Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
X Well drained
__Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover

____% Bedrock	40 % Litter, duff	____% Bryophyte/lichen
____% Large rocks (cobbles, boulders >10cm)	15 % Wood (> 1 cm)	____% Other _____
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
X Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)
__Evergreen
X Cold-deciduous
__Mixed evergreen-cold-deciduous
__Herb - Annual
__Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__Woodland (open tree canopy)
__Shrubland
__Dwarf Shrubland
__Herbaceous (less than 25% woody layers)
__Nonvascular
__Sparse Vegetation

Qualitative description of Community

Similar to U7, but a bit more mesic. Mixed forest of Q. alba, Lirio Tul., Acer rubrum. Lots of Tox Rad. Shallow ravine NE of center. Sparse herb Layer, one dead, open grown cedar would indicate this area may have been cleared in past.

Comments * Although the forest has Soh LITU, & LIO STYR., There is enough oaks & hickories to place it in the community above. However w/ the Sass. alb. it does appear somewhat successional

Disturbance and animal use comments: Some moderate wind throw. Much Tox Rad, Few herbs.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	40	Q. alba / LIRO TULIP.	.5-1m	10%
Understory T3	10-15	20	ACER R-BR.	1-2m	20%
Tall shrub S1	2-5	20	Fagus grandifolia	2-5m	30%
Short shrub S2	1-2	10	NONE Dominant- See List below	5-10m	40%
Herbaceous	.5-1	40	TOX RAD	10-15m	50%
Non-vascular	—			15-20m	60%
Vine/liana	10	15-20	TOX RAD	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Outside of plot: Pinus ech.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	4						4	LIRIO TULIP (ONE large Tree)		
	4		2	2			5	Quercus alba		
	3							Carya glabra		
	3							Carya OVALIS (sometimes Lumped w/ glabra)		
				2				VLMUS R-BRA		
				3				Corylus americana 3 1	✓	✓
				2				Vitis rotund:		
				4				FAG. Grandi		
				3			3	CARYA PALIDA		
			3				3	NYSSA SYLV.		
				2	2		3	FRAX AMERICAN.		
		2		2			3	SAS. ALBIDI.		
					1		1	OSMUND AMERI		
		4	4				5	ACER Rubrum		
	2						2	LIQ. STYR		
					7			TOX RAD		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.405 **Page** 1

County: WAYNE **Park:** NATR **Plot Code:** U6 **State:** AL MS (TN) **Location org:** NPS

Location name _____ **Provisional community name** CRGL007216 – Succ. Sweetgum

Survey date: 9-21-05 **Surveyors:** Roger McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** _____ N _____ W

GPS File Name U6A **Coordinate accuracy** 20 (m) / ft **DOP** _____ **# sats** 4-5 **Elevation** 308 (m) / ft

Directions or nearby Mile marker: very close to road / mowed area

Measured Slope

_____ ° _____ %

Measured Aspect

240 ° (N=0°)

FLAT

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- X Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : (MESIC)

__*Palustrine* __*Lacustrine* __*Riverine*:

__Permanently flooded __Semipermanently flooded __Temporarily flooded

__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:

- __Sand X Sandy loam
- __Sandy clay loam
- __Loam __Silt loam
- __Silt/ Silty clay loam
- __Silty clay __Clay
- __Muck __Peat

Drainage:

- __Rapidly drained
- X Well drained
- __Moderately well drained
- __Somewhat poorly drained
- __Poorly drained
- __Very poorly drained

Ground cover

- ____% Bedrock
- ____% Large rocks (cobbles, boulders >10cm)
- ____% Small rocks (gravel, 0.2-10 cm)
- ____% Sand (0.1-2 mm)
- 5 % Litter, duff
- ____% Wood (> 1 cm)
- ____% Water
- ____% Bare soil
- ____% Bryophyte/lichen
- ____% Other _____

Leaf type:

- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)

- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class

- __ Forest (closed tree canopy)
- X Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community PLOT is near mowed roadside, but has interesting native herb layer. my estimation is this area was mowed in past for there is no understory SHRUB OR SAPLING LAYER. 1/2 of PLOT w/ NY FERN. OTHER with To be determined solidago. Small drainage ditch between slope & this plot. PLOT likely receives water run-off from roadside.

Comments GPS Behaving POORLY. PLOT IS NEAR ROAD ~ 40m from a Crossroads sign on east side of Road.

¥ NOTE LIRIO TULIP almost equal Dom. w/ Sweetgum. No overstory oaks however

Disturbance and animal use comments: PASS mowing?

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1			~~LIQ STYRAC, LITU, ACRU~~	< .5m	5%
Tree Canopy T2	35-50	40%	LIQ STR., Lirio tul acer R.-brum	.5-1m	10%
Understory T3			—	1-2m	20%
Tall shrub S1			—	2-5m	30%
Short shrub S2	5%	.5-1m	Quercus alba	5-10m	40%
Herbaceous	.5-1	70%	Thelip. NOVA BOR / SOLIDAGO SP.	10-15m	50%
Non-vascular	—	—	—	15-20m	60%
Vine/liana	—	—	—	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): other than the 2 dominant herbs there is decent herb diversity, but @ lower cover classes				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	LIQ. STYR.		
	6						6	ACER R-BRUM		
	6						6	LIRIO TULIP		
				3			3	QUER alb		
				2			2	CARYA OVALIS		
					7		7	Thelip NOVA BOR		
					7		7	SOLIDAGO6 rugosa ssp aspera	✓	✓
					3		3	CHAS LATIFOLIUM		
					2		2	Eupatorium fistulosum		
				2				Quercus rubra		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form*

NATR.406 **Page** 1

County: WAYNE **Park:** NATR **Plot Code:** 01 **State:** AL MS (TN) **Location org:** NPS

Location name _____ **Provisional community name** DOES NOT FIT * 4050

Survey date: 9-21-05 **Surveyors:** ROGER MCCOY

Datum WGS 84 1983 (UTM) Zone 16 **Lat/Long (decimal degrees):** 428496 E 3884236 N

GPS File Name 01A **Coordinate accuracy** 5.9 (m) / ft **DOP** _____ **# sats** _____ **Elevation** 298 m / ft

Directions or nearby Mile marker:

Measured Slope + ° 15 %

Measured Aspect 312 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- X Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : (DRY-MESIC) : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand X Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

____ % Bedrock	50 % Litter, duff	____ % Bryophyte/lichen
____ % Large rocks (cobbles, boulders >10cm)	5 % Wood (> 1 cm)	____ % Other _____
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- X Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

MIXED FOREST of PINUS ech. / hickories w/ some mesic species Like Fag. Gran. Pine litter dominates ground even though not many pines present.

Comments

* The Key provided has Shortleaf pine w/ post OR Southern red. This is short leaf w/ white oak. Habitat not too dry, but Keys checked for pines & this is short leaf.

Disturbance and animal use comments: Moderate OR MINOR wind damage

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	40	PINUS ECH / Quer. alba	.5-1m	10%
Understory T3	10-15	20%	FAGUS GRAND / Acer sacch.	1-2m	20%
Tall shrub S1	1-2	10	ILEX Deciduas? (see below)	2-5m	30%
Short shrub S2	.5-1	10	Acer R-brum	5-10m	40%
Herbaceous	<.5	10	VACCINIUM Sp (collected)	10-15m	50%
Non-vascular	—			15-20m	60%
Vine/liana	2-5	5	SMILAX rotundifolia	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Appears acidic w/ Vaccinium. Outside this plot more Quer. alba				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	5						5	Pinus ech.		
	5						5	Quercus alba		
		5	4	3			6	Acer rubrum		
				4			4	Vaccinium ~~sp~~ pallidum	✓	✓
			4				4	Ilex ~~sp~~ deciduas	✓	✓
				4			4	Vitus Rotund.		
				3			3	ULMUS RUBRA		
				3	-	2	3	SMILAX ROTUND.		
					2		2	CARYA PALLIDA		
	4							CARYA GLABRA		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.407 **Page** 1

County: WAYNE **Park:** NATR **Plot Code:** U2 **State:** AL MS (TN) **Location org:** NPS

Location name _____ **Provisional community name** CEGL007330

Survey date: 9-21-05 **Surveyors:** Roger McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** UTM 16 1983 428409 E 3884285 N

GPS File Name U2A **Coordinate accuracy** 10.2 (m) / ft **DOP** _____ **# sats** 4 **Elevation** 217 (m) / ft

Directions or nearby Mile marker:

Measured Slope

_____ ° _____ %

Measured Aspect

_____ ° (N = 0°)

FLAT

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- X Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC

__ *Palustrine* __ *Lacustrine* __ *Riverine*:

__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded

__ Seasonally flooded __ Saturated X Irregularly flooded

Soil texture:

- __ Sand __ Sandy loam
- X Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:

- __ Rapidly drained
- __ Well drained
- X Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

- ____ % Bedrock
- ____ % Large rocks (cobbles, boulders > 10cm)
- ____ % Small rocks (gravel, 0.2-10 cm)
- ____ % Sand (0.1-2 mm)
- ____ % Litter, duff
- 5 % Wood (> 1 cm)
- ____ % Water
- 1 % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:

- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)

- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class

- X Forest (closed tree canopy) - ALMOST OPEN.
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community STREAMSIDE, FLAT FOREST. VERY OPEN W/ NO SHRUBS OR UNDER story. Ground layer of tall, herbaceous Solidago & Helianthus. Area may flood to keep out certain woody plants, but not too often. A rather scenic, open woodland.

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	50%	LIQ STYRAC.	.5-1m	10%
Understorey T3	15-20	5%	Acer R-b	1-2m	20%
Tall shrub S1			—	2-5m	30%
Short shrub S2	.5-1m	5	Symphocarpus orbic	5-10m	40%
Herbaceous	.5-1	70%	Helianthus sp. / Solidago sp.	10-15m	50%
Non-vascular			—	15-20m	60%
Vine/liana			—	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): NO MICROSTEGIUM OR other exotics.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7							LIQ. STYRA.		
	5	5						ACER RUBRUM		
	3							PRUNUS SERO		
	3							QUERCUS MARILADICA (Strange, but true)		
			3					CORNUS FLORIDA		
						2		TOX RAD		
					3			POTEN. SIMPLEX		
					7			Helianthus sp decapetalus	✓	✓
					7			Solidago sp (COLLECTED earlier)	✓	✓
					9			SYMPHORICARPUS ORBIC		
			1					CRATAEGUS sp		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

Solidago rugosa var. ssp. aspera

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.408

County: WAYNE Park: NATR Plot Code: 126 State: AL MS (TN) Location org: NPS

Location name _____ Provisional community name CEGL007795- altitude little Licking (DRY-mesic white oak/hickory forest)

Survey date: 9-21-05 Surveyors: Roger McCoy

Datum WGS 84 UTM (NAD), 16 E 430148 N 3886554 N

GPS File Name 126A Coordinate accuracy 8.6 (m) / ft DOP _____ # sats _____ Elevation 341 m m / ft

Directions or nearby Mile marker:

Measured Slope — ° 4 %

Measured Aspect 220 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : (DRY)-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand X Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover

____ % Bedrock	60 % Litter, duff	____ % Bryophyte/lichen
____ % Large rocks (cobbles, boulders >10cm)	20 % Wood (> 1 cm)	____ % Other _____
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community FLAT, Dry oak forest w/ virtually no herbaceous plants. Lots of limbs down and nearby a large oak went down within a month (possibly a week) Area is shrubby yet still somewhat open. Looks similar to dry forests of the CUMBERLAND PLATEAU.

Comments

Disturbance and animal use comments: WIND DAMAGE

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1			~~Quercus alba / Q. velutina~~	< .5m	5%
Tree Canopy T2	35-50	30	Quercus alba / Q. velutina	.5-1m	10%
Understory T3	15-20	20	~~Diospyros virginiana~~ Oxydendron arboreum	1-2m	20%
Tall shrub S1	2-5	20	Diospyros virg.	2-5m	30%
Short shrub S2	.5-1	10	Quercus alba	5-10m	40%
Herbaceous			—	10-15m	50%
Non-vascular			—	15-20m	60%
Vine/liana			—	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Somewhat open, widely scattered mature trees ~~variety of different~~ rock outcrops surround the plot, (Q. coccinea)				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	5			3			6	Quercus alba		
	5						5	Quercus velut.		
			4				4	Diospyros virgin.		
			2				2	Carya glabra		
					4		4	Smilax rotund.		
				3			3	Acer rubrum		
			2				2	Fagus grand.		
			3				3	STYRAX GRANDIFOLIUS (Bigleaf) STYRAX?	✓	✓
				3			3	VACCINIUM sp (Collected earlier) ↳ pallidum	✓	✓

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form*

NATR.409 **Page** 1

County: WAYNE **Park:** NATR **Plot Code:** 128 **State:** AL MS (TN) **Location org:** NPS

Location name _____ **Provisional community name** * SEE BELOW CEGL007795

Survey date: 9-21-05 **Surveyors:** Roger McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** UTM 16 1983 433343 E N 3893079 N W

GPS File Name 128 A **Coordinate accuracy** 5 (m) / ft **DOP** ____ **# sats** 5 **Elevation** 324 m / ft

Directions or nearby Mile marker:

PLOT CLOSER TO Highway 13 than NTP.

Measured Slope

____ ° 9 %

Measured Aspect

200 ° (N=0°)

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC

__ *Palustrine* __ *Lacustrine* __ *Riverine*:

__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded

__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:

- __ Sand __ Sandy loam
- X Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:

- __ Rapidly drained
- __ Well drained
- X Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

____ % Bedrock	30 % Litter, duff	____ % Bryophyte/lichen
____ % Large rocks (cobbles, boulders >10cm)	5 % Wood (> 1 cm)	____ % Other _____
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:

- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)

- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class

- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Judging from the very large, open grown Quercus alba trees, it seems like this area was clear in the past. Although not necessarily in this plot, this area has large, open grown oak trees scattered throughout the slope. An old dump nearby (in forest) also indicates past clearing

Comments

It just rained. 2:00 P.M., * closest in key provided is CEGL007795. However, this forest had no other oaks & no dominance of hickories at all. It is a Quer. alba forest w/ Acer Rub in understory.

Disturbance and animal use comments: Past clearing

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	60	Quercus alba	.5-1m	10%
Understory T3	15-20	30	Acer rubrum	1-2m	20%
Tall shrub S1	5-6	20	Acer rubrum	2-5m	30%
Short shrub S2	.5-1	30	TOX RAD	5-10m	40%
Herbaceous	<.5	30	VITIS ROTUND.	10-15m	50%
Non-vascular			—	15-20m	60%
Vine/liana	20-35	10	TOX RAD	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Carya glabra, but outside of plot. Low diversity. Exceptionally species. Plot is dominated by the few species listed below.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8							QUERCUS ALBA		
		7						ACER RUBRUM		
				7				TOX RAD		
				6				VITIS ROTUND		
				4				SMILAX ROTUND		
				3				RHAM. CAROLINIANUS		
				3				NYSSA SYLVAT.		
				2				ACER SACH.		
			1					SYMPLO. ORBICULATUS (Coral berry)		
					2			LON. JAP.		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.410 Page 1

County: Wayne Park: NATR Plot Code: V25 State: AL MS TN Location org: NPS 4756

Location name _____ Provisional community name See description below.

Survey date: ~~9-23-05~~ 9-22-05 Surveyors: Roger McCoy

Datum WGS 84 Lat/Long (decimal degrees): UTM-2 16 447208 E 3908087 N W

GPS File Name V25A Coordinate accuracy 3.3 (m)/ ft DOP _____ # sats _____ Elevation 325 (ft)/ ft

Directions or nearby Mile marker: NEAR (South of Highway 69)

Measured Slope

_____ ° _____ %

Measured Aspect

320 ° (N=0°)

FLAT (Not sure about Aspect)

Topographic Position

X Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
__ Low level (terrace)
__ Channel bed

Cowardin System X *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:

__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:

__ Sand X Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:

__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
____% Litter, duff
5 % Wood (> 1 cm)
____% Water
5 % Bare soil
____% Bryophyte/lichen
____% Other _____

Leaf type:

X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

__ Forest (closed tree canopy)
X Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community Strickly based on species, it would be a red maple barrens. Area likely was barrens/ hill prairie, but Red maple is now here. Currently enough Sunlight reaches floor for grasses. IF NO Red maple, this would LIKELY BE a BLACKJACK OAK BARRENS/WOODLAND.

Appears similar to CEGL004686-(Western Rim Post oak Barrens). But this has blackjacks instead.

ALSO. Quercus falcata outside of Plot

Comments Note on GPS - Lost SAT Reception w/ 14 points collected.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:**_____ **State:** AL MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m^2 area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	10-15	40	ACRU (w/ one Jun. vir.)	.5-1m	10%
Understory T3	1-2	20	Vaccinium sp (Collected @ Last plot)	1-2m	20%
Tall shrub S1	—	NONE	Vaccinium sp (diff from above - Collected on 7/31)	2-5m	30%
Short shrub S2	.5-1	30	↳ ↙	5-10m	40%
Herbaceous	.5-1	30	Schizac. scoparium	10-15m	50%
Non-vascular	<.5	10	moss & Lichen	15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): VERY OPEN IN CENTER. EDGE DOMINATED BY Quercus MARILANDICA.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name) ↑CENTER of PLOT	Collected ?	Discard ?
	6		4					ACER RUB (CANOPY BUT RATHER SHORT)		
	5							JUNIPER VIR. (ONE TREE)		
		5						QUER MAR. Edge of Plot		
			5					VACCINIUM BUSH ~~(collected @ 024)~~ ARBOREUM ✓		✓
				6				Vaccinium ~~(too - collected @ 7-31)~~ pallidum ✓		✓
		4						CORNUS FLORIDA - edge		
					6			SCH. SCOPAR.		
					3			DESMODIUM SP	✓	
		4						OXY ARBOR - edge		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR-411 Page 1

County: WAYNE Park: NATR Plot Code: V2P State: AL MS TN Location org: NPS 7244 & 7330

Location name _____ **Provisional community name** ? - See Comments

Survey date: 9-22 **Surveyors:** Roger McCoy

Datum WGS 84 Lat/Long (decimal degrees): UTM 16S 447195 E 3908987 N

GPS File Name V2PA **Coordinate accuracy** 5.5 m / ft **DOP** _____ **# sats** _____ **Elevation** 328 m / ft

Directions or nearby Mile marker:
Just N. of US 64 Bridge

Measured Slope _____ ° 10 %

Measured Aspect 32 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- X Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed – IN PART

Cowardin System __ *Upland*: XERIC : DRY-MESIC : (MESIC)
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded X Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded – IN PART

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
__ Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
- ____ % Bedrock
- ____ % Large rocks (cobbles, boulders >10cm)
- ____ % Small rocks (gravel, 0.2-10 cm)
- ____ % Sand (0.1-2 mm)
- 50 % Litter, duff
- 15 % Wood (> 1 cm)
- 10 % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community N edge of plot is a slow moving, wide, wet-weather convergence. The more bottom land-type species on back occur here. South ½ of plot is more of a dry-mesic oak forest. USGS provided point & author attempted to locate (& did) however plot is not homogeneous. The Microstegium infestation occurs in ~~Lowland~~ Lower part, when author ~~knowledge~~ writes "Lower" the elevation change is only 1-2M,

Comments Area 4 is near ramp from N.T. Parkway to U.S. 64. Author suspects that this has influences the hydrology of site.
? Just considering upland portion; Mixed oak forest. 7244
Lowland- wetland sweetgum FOREST 7330

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:**_____ **State:** AL MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	20-35	80	Q. alba	.5-1m	10%
Understory T3	5-10	40	NYSSA SYL.	1-2m	20%
Tall shrub S1	2-5	20	NYSSA SYL.	2-5m	30%
Short shrub S2	1-2	20	" "	5-10m	40%
Herbaceous	0.5	40	MICROSTEGIUM OR VITIS ROTUND	10-15m	50%
Non-vascular	<[illegible]	5	Sphagnum in wet area	15-20m	60%
Vine/liana	.5-1		SMILAX ROTUND.	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6			3			7	QUERCUS ALBA		
		4	4	4			6	NYSSA SYLVAT.		
				4		4	5	SMILAX ~~ROT~~ ROTUND		
				4			4	VITIS ROTUND		
					4		4	Chasmanthium Laxum? (Forgot to collect - will get ~~C~~ another site		
				4			4	TOX RAD - MORE IN WET AREA		
					4		4	Microstegium " "		
				3			3	Prunus sp ~~(collected earlier today)~~ SEROTINA	✓	✓
	6		4	4			7	LIQ. STYRAC.		
	5	5					6	ACER RUB. -		
	5						5	QUERCUS SHUMARD.		
	5						5	CARYA ALBA		
	5						5	QUERCUS FALCATA		
								Each has one tree in canopy.		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.412 Page 1

County: WAYNE Park: NATR Plot Code: V19 State: AL MS TN Location org: NPS

Location name / Provisional community name CEGL007244 * - See comm.

Survey date: 9-22-05 Surveyors: Roger McCoy

Datum WGS 84 Lat/Long (decimal degrees): VIM Zone 16 447267 N 3908430 W

GPS File Name V19A Coordinate accuracy 4.4 m / ft DOP ____ # sats 4 Elevation 294 m / ft

Directions or nearby Mile marker:
Just South of picnic area @ Highway 64

Measured Slope — ° 10 %

Measured Aspect 190 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand X Sandy loam
__Sandy clay loam
__Loam __Silt loam
__Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
X Well drained
__Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover
____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
60% Litter, duff
40% Wood (> 1 cm)
____% Water
____% Bare soil
____% Bryophyte/lichen
____% Other ____

Leaf type:
X Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community A nice mix of Quercus alba, coccinea, & falcata. DRY uplands. Rather bushy of Smilax, Oxyd. arb. & sassafras. A goodly amount of downed Trees from 3+ years ago.

Comments It is Autumn but very hot today.

Fits community pretty well but instead of post oak, this has some Scarlett oak.

Disturbance and animal use comments: Wind in past

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:**_____ **State:** AL MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m^2 area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	60	QUERCUS ALBA	.5-1m	10%
Understory T3	10-15	50	OXYDendron arbor.	1-2m	20%
Tall shrub S1	2-5	10	" "	2-5m	30%
Short shrub S2	1-2	30	SASSAFRAS ALB.	5-10m	40%
Herbaceous	0.5	10%	~~No Herbs~~ of amount- various Tree seedlings & TOX RAD	10-15m	50%
Non-vascular		5%	Lichen on dead wood	15-20m	60%
Vine/liana			SMILAX- But Behaving more as SHRUB.	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): FEW TO NO HERBS. LIRIO IN short understory, but not that important. There could be seedlings & small saps which may die.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	Quercus alba		
	5						5	Quercus coccl.		
	6						6	Quercus falcata		
			4	5			5	Lirio TULIP		
			5				5	SAS. ALB.		
			4	6			6	SMILAX ROTUND		
		4					4	NYSSA SYLV.		
			5				5	OXYDendron ARBOR		
			4				4	ACER RUB		
					3		3	TOX RAD		
				2			2	FAGUS GRAND		
				4			4	Quercus spp (Red oak group) (seedlings)		
				4			4	VITIS ROTUND		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.413

County: WAYNE Park: NATR Plot Code: U24 State: AL MS TN Location org: NPS

Location name _____ Provisional community name CEGL007244 * See comments

Survey date: 9-22-05 Surveyors: R. McCoy

Datum WGS 84 Lat/~~Long (decimal degrees)~~: UTM Zone 16 447109 E 3908223 N

GPS File Name U24A Coordinate accuracy 4.3 (m) / ft DOP _____ # sats 6 Elevation 312 (m) / ft

Directions or nearby Mile marker:
NEAR MJ64

Measured Slope
_____ ° _____ %

Measured Aspect
_____ ° (N=0°)

FLAM

Topographic Position
- X Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __Upland: (XERIC) : DRY-MESIC : MESIC
__Palustrine __Lacustrine __Riverine:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand __Sandy loam
X Sandy clay loam
__Loam __Silt loam
__Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
__Well drained
X Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover
____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
40 % Litter, duff
40 % Wood (> 1 cm)
____% Water
____% Bare soil
____% Bryophyte/lichen
____% Other _____

Leaf type:
X Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)
__Evergreen
X Cold-deciduous
__Mixed evergreen-cold-deciduous
__Herb - Annual
__Herb - Perennial

Physiognomic Class
__Forest (closed tree canopy)
X Woodland (open tree canopy)
__Shrubland
__Dwarf Shrubland
__Herbaceous (less than 25% woody layers)
__Nonvascular
__Sparse Vegetation

Qualitative description of Community Quercus alba open woodland. Trace of Andropogon or Schizachyrium which is dominant on roadside NOT near forming a dirt berm.

Comments – U24 could not be relocated due to massive similar understory. Relative Original plot appears to be opened canopied white oak the understory is virtually impenetrable.

* White oak of greater importance ~~here~~ here

ALSO- Pines invading roadside Barrens.

Disturbance and animal use comments: Windthrow As of U24A this plot has some downed trees, but this does not appear successional.

SKINK

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	20-35'	20	Quercus alba	.5-1m	10%
Understory T3	5-10	20	Oxydendron arb.	1-2m	20%
Tall shrub S1	2-5	5	Q alba	2-5m	30%
Short shrub S2	1-2	20	~~[illegible]~~ Smilax rotund.	5-10m	40%
Herbaceous	<1%			10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Portion of plot very brushy w/ smilax. A few barren-like herbs (Andropogon sp) present, but only 1 clump seen.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6						6	Quercus alba		
	5						5	Quercus falcata		
			4				4	Rhus copsLINA		
				6			6	Smilax Rotund		
				4			4	Carya ALBA		
				2			2	Vitis Rotund		
				3			3	Amelan. arborea		
			3				3	Acer Rubrum → ARBORUM		
			4				4	Vaccinium sp (0.1-2m tall) - bark slightly scaly	✓	✓
			4				4	" sp (collected yesterday)	✓	
		6					6	Oxy arboreum		
	5						5	Quercus stellata		
			3				3	Carya glabra		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

→ Vaccinium pallidum

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.414 **Page** 1

County: WAYNE **Park:** NATR **Plot Code:** U26 **State:** AL MS TN **Location org:** NPS

Location name _____ **Provisional community name** ?? - See below

Survey date: 9-22-05 **Surveyors:** CEGLP04686

Datum WGS 84 **Lat/Long (decimal degrees):** 447151 E / 3908641 N / W **UTM** 2 16

GPS File Name U26A **Coordinate accuracy** 5.7 m / ft **DOP** _____ **# sats** 4 **Elevation** 322 m / ft

Directions or nearby Mile marker:
NEAR US. 64

Measured Slope
_____ ° _____ %

Measured Aspect
_____ ° (N=0°)
FLAT

Topographic Position
__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
__ Low level (terrace)
__ Channel bed
Cowardin System ✓ *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
__ Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
____ % Bedrock
____ % Large rocks (cobbles, boulders >10cm)
____ % Small rocks (gravel, 0.2-10 cm)
____ % Sand (0.1-2 mm)
20 % Litter, duff
5 % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:
✓ Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
✓ Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
__ Forest (closed tree canopy)
✓ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

CENTER of plot IS Little Bluestem barren. When entire 11.3m Radius considered plot shows more tree cover (but stunted) Center is open except for a few Trees of ACRU. EDGE of plot closer to Road is even more open w/ virtually no trees.

?? (FROM ABOVE) Clearly some sort of BARRENS, but this is mixed. There are species SEE such as Q phellos in plot & just outside is Q. nigra. However. This does not appear to be the "FLAT WOODS" of the Eastern Highland Rim.

Comments ALMOST IDENTICAL TO PLOT U25.

Please notify Roger McCoy as to Class of this community.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	5-10	40	MORE open in center. ~~ACER~~ Acer r.b-	.5-1m	10%
Understory T3	~~2-5~~	20	ACER R-brum	1-2m	20%
Tall shrub S1	1-2		VACC. - collected @ earlier TODAY.	2-5m	30%
Short shrub S2	.5-1		Rhus copp.	5-10m	40%
Herbaceous	.5-1		Schiz. scop.	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Dom. tree species depends on exact location in plot.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6						6	ACER RUBRUM		
		5					5	CORNUS FLORIDA		
				4			4	RHUS COP.		
				3			3	JUN. VIRG.		
				3			3	Quercus vel.		
			5				4 5	QUERCUS PHELLOS - Collected just to be sure for WIERD MAG.	✓	✓
	4		4				5	OXY. ARBOR ! STRANG BARK Collected to conf.	✓	
				2			2	CRATAEGUS SP.		
	4						4	LIQ STYR.		
			4				~~4~~	~~OXYDENDRUM ARBOREUM~~ !		
	4						4	QUERCUS FALCATA		
			4				4	VACC. (BUSH) ~~Collected earlier TODAY~~ ARBOR.	✓	✓
				4			4	Vacc. Sp (Low) ~~collected YESTERDAY~~ pallidum	✓	✓
					7		7	Sch. Scoparium		
					2		2	SMILAX GLAUCA		
								Quercus stell.		
					1		1	Lobelia Sp (gattingeri) puberula	✓	

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NATR.415

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: WAYNE Park: NATR Plot Code: UZ1 State: AL MS (TN) Location org: NPS

Location name _____ Provisional community name CEGL007244- South red/white oak - see comm below

Survey date: 9-22-05 Surveyors: Roger McCoy

Datum WGS 84 Lat/Long (decimal degrees): 447006 W 3907395 N UTM ZONE 16 1983

GPS File Name UZ1A Coordinate accuracy 8.2 (m) / ft DOP _____ # sats 5 Elevation 321 (m) / ft

Directions or nearby Mile marker:

HARD TO SAY, IT'S ALL FLAT UPLANDS.

Measured Slope

_____ ° _____ %

Measured Aspect

_____ ° (N=0°)

FLAT

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC (DRY-MESIC) : MESIC __ *Palustrine* __ *Lacustrine* __ *Riverine*:

__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded __ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:

__ Sand X Sandy loam __ Sandy clay loam __ Loam __ Silt loam __ Silt/ Silty clay loam __ Silty clay __ Clay __ Muck __ Peat

Drainage:

__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover

____% Bedrock	60% Litter, duff	____% Bryophyte/lichen
____% Large rocks (cobbles, boulders >10cm)	20% Wood (> 1 cm)	____% Other _____
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:

X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

FLAT DRY woods- As w/ many of the plots from WGS this plot has a low diversity. Plot ~ 60m from Ag field. Moderately shrubby, but FLAT. Area has Qu. ALBA, but the few Q. stellata are large 35-50cm DBH.

Comments

* Community doesn't fit too well. At least in this plot, Q. stellata more important than Q. falcata, in surrounding woods, Q. falcata & Q. alba have an almost equal Importance Mix. Only multiple plots @ this site could one then determine overall community.

Disturbance and animal use comments: Can hear many birds- Author does not know bird calls however - woodpeckers

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:**_____ **State:** AL MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	60	QUERCUS ALBA (w/ mix of Q. stellata)	.5-1m	10%
Understory T3	10-15	20	OXYDEN. ARBOR	1-2m	20%
Tall shrub S1	2-5	30	NYSSA SYL.	2-5m	30%
Short shrub S2	1-2	5%	PRUNUS SP (collected)	5-10m	40%
Herbaceous	<.5	30%	VITIS ROTUND	10-15m	50%
Non-vascular	<.5	5%	MOSS	15-20m	60%
Vine/liana	2-5	10%	VITIS ROTUND	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Hardly a single herbaceous plant, After plot sampling, Not a single herbaceous plant observed, List below is virtually entire list for Plot → Correct. 1 Asteraceae.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7							Quercus alba		
	6							Quercus stellata		
	5							Quer. falcata		
		6						Oxy arbor		
			6					NYSSA SYLVA		
				4				CARYA GLABRA		
				2				VACC. SP - ~~Collected on site~~ pallidum	✓	
			3	4			4	SASS ALBID.		
				4			4	LIRIO TUL.		
						3		SMILAX ROTUND		
					3			ACER RUBR.		
					4	6		VITIS ROTUND		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form*

NATR.416 **Page** 1

County: WAYNE **Park:** NATR **Plot Code:** V22 **State:** AL MS TN **Location org:** NPS

Location name _____ **Provisional community name** ? - see comments 7221

Survey date: 9-22-05 **Surveyors:** Roger McCoy

Datum WGS 84 Lat/Long (decimal degrees): * UTM (IS WGS 84 Same as NAD 83) - unit is WGS 84 447047 N 3908009 W

GPS File Name V22A **Coordinate accuracy** 6 m / ft **DOP** _____ **# sats** 5 **Elevation** 298 m / ft

Directions or nearby Mile marker:

Measured Slope _____ ° 6 %

Measured Aspect 88 ° (N=0°)

Topographic Position

- X Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: (XERIC) : DRY-MESIC : MESIC PERHAPS because now opened.
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand X Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
X Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover

____ % Bedrock	20 % Litter, duff	____ % Bryophyte/lichen
____ % Large rocks (cobbles, boulders >10cm)	60 % Wood (> 1 cm)	____ % Other _____
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
X Evergreen
__ Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
__ Forest (closed tree canopy)
X Woodland (open tree canopy) - NOW
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community Unsightly yet interesting plot, xeric/dry oak forest w/ massive wind damage. One cannot walk around plot due to woody debris & impenetrable thicket of Lirio tucif. & ACRU. Plot is not mesic, but LITU seems to have blown into area. Although no woody hex, walking to plot from road (NTP) was similar, but more open. This allowed for more herbaceous species (eg. Andropogon sp) This wind-blown plants may have prevented sat too Judging from amount of woody Debris & tall straight nature of oaks, this area near this point was much more closed. Area has appearance of timber harvest, but due to wind. Correction: some Andropogon in this plot too.

Comments Plot provided by USGS, but had to be moved for their location was off NPS LAND
? - Depending on stage of succession: My opinion - This was a white oak forest. Now a successional O forest w/ tulip tree, with management OR more disturbance - open woodLAND - it just depends - 2 years ago - open woodland - 5 Y.O. - white oak forest NOW - successional white oak forest.

Disturbance and animal use comments: MASSIVE WIND DAMAGE

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:**_____ **State:** AL MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	<20	Quercus alba	.5-1m	10%
Understorey T3		~~20~~	— NONE	1-2m	20%
Tall shrub S1	2-5	70	LIRIO TULIP	2-5m	30%
Short shrub S2		50	MIX - See BELOW	5-10m	40%
Herbaceous	.5-1	20	ANDROPOGON SP - (on edge of NPS LAND) virginicus	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	1-2	30	SMILAX ROTUND	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	5						5	QUER ALBA		
	3						3	Quer velutina		
			3				3	CORNUS FLOR		
			4				4	OXY ARBOR		
				2			2	Rhus [illegible]		
			8	7			9	LIRIO TULIP		
	3						3	Quer. stellata		
					2		2	Eupatorium ~~sp~~ rotundifolium ssp rotund.	✓	✓
					3		3	"ANDROPOGON ~~spec~~. virginicus!	✓	✓
					2		2	C-patronia pergoliation!	✓	✓
			3	3			4	Prunus sp (collected conical buds) SEROTINA	✓	✓
				3			3	Vaccinium Sp (collected Yaupon) pallidum	✓	✓
				2			2	Rubus sp		
				·				Vitis ROUND		
				6			6	SMILAX R.TUND		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form*

NATR.417 **Page** 1

County: Wayne **Park:** NATR **Plot Code:** TØ1 **State:** AL MS TN **Location org:** NPS

Location name _____ **Provisional community name** CEGL007881 Central Interior - beech white oak forest *

Survey date: 9-22-05 **Surveyors:** Roger McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** UTM 16 (NAD83) 440551 E 3901115 N

GPS File Name T01 **Coordinate accuracy** 7.7 m / ft **DOP** _____ **# sats** 4 **Elevation** 240 m / ft

Directions or nearby Mile marker:
Sweetwater Branch

Measured Slope
_____ ° _____ %

Measured Aspect
_____ ° (N = 0°)
Flat w/ steep bank on edge

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated X Irregularly flooded

Soil texture:
- __ Sand X Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover
- ____ % Bedrock
- 5 % Large rocks (cobbles, boulders > 10cm)
- 10 % Small rocks (gravel, 0.2-10 cm)
- ____ % Sand (0.1-2 mm)
- 30 % Litter, duff
- 10 % Wood (> 1 cm)
- 10 % Water - on edge
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- __ Forest (closed tree canopy)
- X Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community Streamside terrace, w/ white oak & beech. Fairly mature area, light gets shaded on occasion, but plot is 11 m above stream. Soil is rocky & almost stranded, but not a muddy streamside.

* Almost seems transition between this & Beech/maple forest, but Maple not in canopy

Comments Plot was added by TN DNH because this site is also a registered State Natural Area.

Disturbance and animal use comments: WIND. occassional scour

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	60	FAGUS GRAND	.5-1m	10%
Understory T3	10-15	10	Acer Sacch.	1-2m	20%
Tall shrub S1	2-5	5	Acer Sach.	2-5m	30%
Short shrub S2	.5?1	10	FRAX AMER.	5-10m	40%
Herbaceous	K.5	20	MICROSTEGIUM	10-15m	50%
Non-vascular		<5%	SPARSE MOSS	15-20m	60%
Vine/liana			—	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	FAGUS grand		
	6						6	Quer. alba		
		4	4				5	Acer Sach.		
				5			5	FRAX Am.		
					6		6	Microstegium		
			3	4			4	ULMUS RUBRA		
			3				3	LIAM virg.		
			2	2			2	ILEX Sp deciduous (collected earlier as 1)	✓	✓
			3				3	~~Amelanchier~~ Lobel Osm. virgin.		
				3			3	LIRIO TULIP		
				2				PRUNS SP SEROTINA	✓	✓

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form*

NATR.418 **Page** 1

County: WAYNE **Park:** NATR **Plot Code:** T02 **State:** AL MS (TN) **Location org:** NPS

7795

Location name _____ **Provisional community name** ? See Below

Survey date: 9-22-05 **Surveyors:** Roger McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** UTM Zone 16 E 440622 N 3901115 N

GPS File Name T02 **Coordinate accuracy** 6 (m)/ ft **DOP** _____ **# sats** 4 **Elevation** 252 (m)/ ft

Directions or nearby Mile marker: Sweetwater branch, just South of Cemetery

Measured Slope

_____° 2 %

Measured Aspect

_____° (N=0°)

FLAT

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC __*Palustrine* __*Lacustrine* __*Riverine*:

__Permanently flooded __Semipermanently flooded __Temporarily flooded __Seasonally flooded __Saturated __Irregularly flooded

Soil texture:

__Sand __Sandy loam __Sandy clay loam X Loam __Silt loam __Silt/ Silty clay loam __Silty clay __Clay __Muck __Peat

Drainage:

__Rapidly drained X Well drained __Moderately well drained __Somewhat poorly drained __Poorly drained __Very poorly drained

Ground cover

____% Bedrock	70% Litter, duff	____% Bryophyte/lichen
____% Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____% Other _____
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	5 % Bare soil	

Leaf type:

X Broad-leaved __Needle-leaved __Graminoid __Broad-leaved herbaceous __Pteridophyte __Mixed

Leaf phenology (dominant stratum)

__ Evergreen X Cold-deciduous __ Mixed evergreen-cold-deciduous __ Herb - Annual __ Herb - Perennial

Physiognomic Class

X Forest (closed tree canopy) __ Woodland (open tree canopy) __ Shrubland __ Dwarf Shrubland __ Herbaceous (less than 25% woody layers) __ Nonvascular __ Sparse Vegetation

Qualitative description of Community

Flat area. Close enough to county & all trees moderate size, indicates past clearing. However forest does not appear successional Sapling & Shrub Layer rather thick w/ Black oaks, but still somewhat open. Outside of plot, one large dead Juniper tree.

Comments Key backs down w/ Vk of oaks & dominant. Perhaps Q. vel. & Q rubra will be in future, but at this point this is a Carya alba/ C. ovalis forest w/ Dog wood.

PLOT ADDED- This is a TENN. Regs State Natural Area

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	60	CARYA ALBA	.5-1m	10%
Understory T3	15-20	30	CARYA OVALIS	1-2m	20%
Tall shrub S1	2-5m	20	ALMOST EVEN MIX of SHRUBS LISTED BELOW	2-5m	30%
Short shrub S2	1-2	30	" "	5-10m	40%
Herbaceous	C.5	20	FEW to NONE - mainly tree seedlings	10-15m	50%
Non-vascular	.	10	moss on tree limbs	15-20m	60%
Vine/liana	15-20	5	TOX RAD	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Absence of MVER TOX rad & Vitis spp compared w/ other sites on NATR				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	CARYA ALBA		
	4	5		3			7	Carya ovalis		
				4			4	NYSSA SYL.		
			5	5			6	Quer velutina		
			4				4	Ostry virgin.		
			5				5	Acer scch.		
			4				4	Acer Rub		
					3		3	Desmodium sp		
					3		3	PARTH. QUIN.		
				3			3	ULMUS RUBRA		
						3	3	TOX R AD		
			2				2	Quercus rubra		
			3				3	Q. alba		
			6				6	CORN FLOR		
		3					3	LIQ. STYRA		
			3				3	CERCIS CAN		
			2	2			3	SAS ALB		
				2				ILex Sp - Collected earlier	✓	

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form*

NATR.419 **Page** 1

County: WAYNE **Park:** NATR **Plot Code:** TØ3 **State:** AL MS (TN) **Location org:** NPS

Location name _____ **Provisional community name** ? - see below 2411 (poor example)

Survey date: 9-22 **Surveyors:** Roger McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** 440775 E 3901089 N **UTM** Zone 16 1983

GPS File Name TØ3 **Coordinate accuracy** 15 (m)/ ft **DOP** _____ **# sats** 5 **Elevation** 243 (m)/ ft

Directions or nearby Mile marker: Sweetwater Branch / North of stream & upstream of Parking Lot.

Measured Slope

_____ ° _____ %

Measured Aspect

_____ ° (N=0°)

FLAT

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : (MESIC) OR __ *Palustrine* __ *Lacustrine* __ *Riverine*:

- __ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
- __ Seasonally flooded __ Saturated X Irregularly flooded

Soil texture:

- X Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:

- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

- ____ % Bedrock
- ____ % Large rocks (cobbles, boulders >10cm)
- ____ % Small rocks (gravel, 0.2-10 cm)
- ____ % Sand (0.1-2 mm)
- 10 % Litter, duff
- 20 % Wood (> 1 cm)
- 5 % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- ____ % Other _____

Leaf type:

- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)

- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class

- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

MESIC - WET MESIC TERRACE FOREST SUGAR MAPLE FOREST, BUT ON THE WETTER SIDE OF THINGS. CHARACTERICS of THIS PLOT IS HIGH AMOUNT OF LIND BENZ & UNFORTUNATELY MICROSTEGIUM.

? - Doesn't seem to fit when using key for LOWLAND OR UPLAND FORESTS.

Comments

Plot added by TN DNH because this site is a TENN. Registered State Natural Area. My initial thought is this is a wet-mesic to wet Sugar maple/sweetgum forest w/ Spicebush

Disturbance and animal use comments: SCOURING FROM Stream

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:**_____ **State:** AL MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m^2 area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	70	SHARED- LIQ. STYR / ACER SACH.	.5-1m	10%
Understory T3	15-20	20	Acer sach.	1-2m	20%
Tall shrub S1			Absent - Depending on height- much LIND Benz. from 1-3m	2-5m	30%
Short shrub S2	2-5	60	LIND BENZ	5-10m	40%
Herbaceous		60	MICROSTEGium	10-15m	50%
Non-vascular			—	15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Absence of MICROstg. - it appears this would be a Rich woods. - TIME NOT AVAILABLE, but a more complete herb survey would be good.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6	4	3				7	ACER SACH.		
	5						5	LIQ STYR.		
	3						3	CELTIS ~~LAEV~~ LAEV?		
					5		5	POLYGONUM ~~SP~~ virginianum	✓	
			7	6			7	LIN. BEN.		
							6	MICRO ~~STEG.~~ REGIUM		
							4	IMPAT CAPENSIS		
				3			3	ACER NEGUND		
	4						4	PLAT occident		
	4						4	MORUS RUBRA		
								JACOB'S LADDER		
								SOLIDAGO SP.		
								SYMPL. OBRIC		
								AMPH. BRAC	OTHER TRACE HERB	
								SANICULA SP.		
								SAN. CAN		
								OSMORH. SP.		
								Alder polypoda		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

JUGLANS nigra - outside Plot

NPS GULF COAST PROJECT: *Plot Sampling Form*

NATR.420 **Page** 1

County: WAYNE **Park:** NATR **Plot Code:** 130 **State:** AL MS TN **Location org:** NPS

Location name W **Provisional community name** CEGL CEGL007244 ? - See Community Description

Survey date: 9-22-05 **Surveyors:** R. McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** UTM 2 16 447344 E 3909184 N

GPS File Name 130A **Coordinate accuracy** 6 m / ft **DOP** _____ **# sats** 6 **Elevation** 325 m / ft

Directions or nearby Mile marker: A Bit N of US 64

Measured Slope — . 4 %

Measured Aspect 10 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : (DRY-MESIC) : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- X Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

____% Bedrock	60% Litter, duff	____% Bryophyte/lichen
____% Large rocks (cobbles, boulders >10cm)	30% Wood (> 1 cm)	____% Other _____
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community A flat, Dry oak woods. Spartan herb diversity. However a nice mix of oaks: Q alba, falcata, coccinea, stellata. As usual plot shrubby w/ Vitis. Coarse woody debris on forest floor. ? To CEGL007244 somewhat fits, but at this plot Q. coccinea is more important than Q. falcata. Q stellata & alba are almost equal.

Comments Difficult to discern community when taken as a larger whole, this seems evenly mixed w/ Q alba, stellata, coll., & falcata.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:**_____ **State:** AL MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m^2 area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	60	QUERCUS COCC.	.5-1m	10%
Understory T3	5-10	20	NYSS SYLVAT.	1-2m	20%
Tall shrub S1	2-5	5	OXY ARBOR	2-5m	30%
Short shrub S2	1-2	5	NYSSA	5-10m	40%
Herbaceous	<.5	10	MAINLY WOODY VINES & TREE SPP.	10-15m	50%
Non-vascular		<5%	Lichen on trees	15-20m	60%
Vine/liana	5%	1-2	SMILAX ROTUND	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Although dry, some Polygonatum biflorum on plot edge. A good number of standing dead oaks.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6						6	Q. COLLINEA		
	5			3			6	Q. alba		
	5	4					6	Q. stellata		
		4					4	CARYA GLABRA		
				5	4		6	VITIS ROTUND.		
			4	3			5	ACER RUBRUM		
		5	4				6	NYSSA SYLV.		
				5			5	Vaccinium sp (collected on 7/21) pallidum	✓	✓
			4				4	PRUNUS sp (COLLECTED TODAY) SEROTINA	✓	
					2		2	SMILAX GLVALA		
	5						5	Q. falcata		
								~~Just outside plot Q falcata~~		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.421 Page 1

County: WAYNE* Park: NATR Plot Code: V29 State: AL MS (TN) Location org: NPS

*VERY CLOSE TO LAWRENCE CO LINE!

Location name _____ **Provisional community name** SOUTH RED OAK/white oak mixed* CEGL007244

Survey date: 9-23-05 **Surveyors:** Roger McCoy

Datum _WGS 84_ **Lat/Long (decimal degrees):** 447869 E/W 3909432 N/S UTM 2 16

GPS File Name V29A **Coordinate accuracy** 6 (m) / ft **DOP** _____ **# sats** 4 **Elevation** 330 (m) / ft

Directions or nearby Mile marker:

NY highway 64

Measured Slope

— ° 4 %

Measured Aspect

150 ° (N=0°)

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : (DRY-MESIC) : MESIC __*Palustrine* __*Lacustrine* __*Riverine*:

__Permanently flooded __Semipermanently flooded __Temporarily flooded __Seasonally flooded __Saturated __Irregularly flooded

Soil texture:

- __Sand __Sandy loam
- X Sandy clay loam
- __Loam __Silt loam
- __Silt/ Silty clay loam
- __Silty clay __Clay
- __Muck __Peat

Drainage:

- __Rapidly drained
- __Well drained
- X Moderately well drained
- __Somewhat poorly drained
- __Poorly drained
- __Very poorly drained

Ground cover

- ____% Bedrock
- ____% Large rocks (cobbles, boulders >10cm)
- ____% Small rocks (gravel, 0.2-10 cm)
- ____% Sand (0.1-2 mm)
- 40% Litter, duff
- 20% Wood (> 1 cm)
- ____% Water
- ____% Bare soil
- ____% Bryophyte/lichen
- ____% Other _____

Leaf type:

- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)

- __Evergreen
- X Cold-deciduous
- __Mixed evergreen-cold-deciduous
- __Herb - Annual
- __Herb - Perennial

Physiognomic Class

- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community CENTER of PLOT is old ROADWAY which has a bit more moisture & a dominance of GRASS (To be determined but Characteristic Species?) Forest of moderate sized white oak. Outside of the grass in the road-bed, there is little herb layer. Good to see that microstegium is absent from old roadbed. Old Road runs N/S So this may be the old Natchez Trace.

UPON SECOND LOOK, POST OAK may be more abundant than white oak.

Comments NOT ON COMMUNITY KEY! SECTION C- ~~complet~~ Couplet 14- mentions Qu Fal as dominant OR co. This then takes you to communities where Qu Fal is listed as most important. Here there is just a large tree. Community is more: POST OAK/WHITE OAK w/ Qu. Fal.

IN COUPLET 14- if you say "NO" to Qu FAL being codominant, then the rest of the communities DO NOT mention Qu stellata

Disturbance and animal use comments: OLD ROAD

Seeing repeated comm. of Qu AL/Qu St w/ Some (sometimes minor) Qu. Fal

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:**_____ **State:** AL MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m^2 area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	20-35	50	Quercus - 1sp	.5-1m	10%
Understory T3	10-15	30	NYSSA SYL.	1-2m	20%
Tall shrub S1	2-5	20	ACER RUBRUM	2-5m	30%
Short shrub S2	1-2	10	" "	5-10m	40%
Herbaceous	<.5	40	Chasmanthium? - To Be determined.	10-15m	50%
Non-vascular		<5%	slight moss on tree	15-20m	60%
Vine/liana			NONE on trees - but vine spp Listed Below	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): If not for old roadway There would be little to no herbs. Compared w/ other plots, this is emerging that is w/ this old TOK RAD.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
			4				4	CARYA GLABRA		
	6			3			6	Quercus alba		
	5						5	Quercus falcata		
	6						6	Quercus stellata		
			4				4	Ilex spp decidua Collected yesterday (9-21)	✓	✓
				3			3	SMILAX ROTUNDA		
			4				4	ACER RUB		
			2				2	Amel. arborea		
		5					5	NYSSA SYLVAT		
					6		6	Chasmanthium? Ilexum!	✓	
			2				2	LIA STYR		
				2			2	VACC. (TBD - stenianum)		
			4				4	PRUNUS - Collected 9/21 SEROTINA	✓	✓
				2				STYRAX GRAND		
					3			Panicum polyanthes AKA	✓	
								Dic. SPHAEROCARPON VAR ISOPHYLLUM		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR.422 **Page** 1

County: Lawrence **Park:** NATR **Plot Code:** 131 **State:** AL MS TN **Location org:** NPS

Location name _____ **Provisional community name** See Below - CEGL007760

Survey date: 9-23-05 **Surveyors:** Roger McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** 451316 E 3916738 N W

GPS File Name 131A **Coordinate accuracy** 13 m / ft **DOP** _____ **# sats** 6 **Elevation** 314 m / ft

Directions or nearby Mile marker: Just S. of Jacks Branch pull off

Measured Slope _____° 9 %

Measured Aspect 120 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC __*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded __Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand X Sandy loam
__Sandy clay loam
__Loam __Silt loam
__Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
__Well drained
__Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover

____% Bedrock	70 % Litter, duff	____% Bryophyte/lichen
____% Large rocks (cobbles, boulders >10cm)	16 % Wood (> 1 cm)	____% Other _____
5 % Small rocks (gravel, 0.2-10 cm)	____% Water	
5 % Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
X Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
__ Forest (closed tree canopy)
X Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

Post oak closed woodland, but more open than a forest. Chestnut oak an important species too. Understory almost even between. Black oak saplings & Vacc. a. borum. Trees are smaller, but not stunted. Lower size with conditions they may be rather old.

Community CLASS:- Almost a Post oak Barrens, but no grassy understory
IN. community lists provided (short version not Full description)
The post oak Barrens is only a comm. w/ Post oak as dominant, however this is a post oak FOREST/WOODLAND.

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	20-35	40% or less	Q. stellata	.5-1m	10%
Understory T3	5-10	5%	CARYA glabra	1-2m	20%
Tall shrub S1	2-5	20%	Vacc. arboreum	2-5m	30%
Short shrub S2	.5-1	10%	SMILAX ROTUND	5-10m	40%
Herbaceous	<.5	<5%	Scat graminoids (No fruit/flower)	10-15m	50%
Non-vascular	<.5	<5%	Some Lichen	15-20m	60%
Vine/liana			—	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Low diversity in this harsh condition. The Q. prinus mentioned below comes from 1 tree w/ 3 trunks. otherwise almost pure Q. stellata.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6						6	Q. stellata		
	5						5	Q. prinus		
			4				4	Q. velutina		
				3			3	SMILAX ROTUNDA		
			5				5	Vacc. arbor.		
		4	2	2			5	CARYA glabra		
				2			2	Q. alba		
			3				3	Vacc. - Larger ~~bush-like, but NOT ARB.~~ → CORYMBOSUM	✓	✓

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.423 **Page** 1

County: Lawrence **Park:** NATR **Plot Code:** 142 **State:** AL MS (TN) **Location org:** NPS

Location name _____ **Provisional community name** CEGL007261 (see below)

Survey date: 9-23-05 **Surveyors:** Roger McCoy CEGL007000

Datum WGS 84 **Lat/Long (decimal degrees):** 451222 N 3915056 W

GPS File Name 142 A **Coordinate accuracy** 5 (m) / ft **DOP** _____ **# sats** 6 **Elevation** 314 (m) / ft

Directions or nearby Mile marker:
Near Mile marker 375

Measured Slope
— ° 13 %

Measured Aspect
240 ° (N=0°)

Topographic Position
__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
__ Low level (terrace)
__ Channel bed
Cowardin System √ *Upland*: XERIC : (DRY)-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
__ Sand __ Sandy loam
__ Sandy clay loam
__ Loam __ Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:
__ Rapidly drained
__ Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover
____ % Bedrock
____ % Large rocks (cobbles, boulders >10cm)
____ % Small rocks (gravel, 0.2-10 cm)
____ % Sand (0.1-2 mm)
70 % Litter, duff
15 % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:
X Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

Quercus prinus dominated forest. very open understory

The above CEGL007261 says "Lower piedmont chestnut oak forest"
This doesn't fit too well. The two big things are Qu. Prin & Vacc arboreum.
Author has seen very similar forests in Ozark hills of S. Central IL
Contact McCoy for more info.

Comments just east of this plot is a barrens-like opening. Considered sampling, but was appeared unnaturally disturbed & eroded.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	60	Quercus prinus	.5-1m	10%
Understory T3	2-5	30	Vaccinium arboreum	1-2m	20%
Tall shrub S1			—	2-5m	30%
Short shrub S2	<.5	10	vacc. stam.	5-10m	40%
Herbaceous			—	10-15m	50%
Non-vascular		<5%	Lichen on Tree	15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): - No very large trees, but all mature on edge of plot, barren-like species including Little Ivy & Toxicodendron virg. NOTE how few species below. Plot is overly dominated by Q. prinus				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8						8	Quercus prinus		
	4						4	Quercus stellata		
			6				6	Vac. arbor		
				3			3	Vacc. stam		
				4			4	Smilax Rotund		
				3			3	Cary alba		
	4						4	Q. coccinea		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.424 Page 1

County: LAWRENCE Park: NATR Plot Code: U31 State: AL MS (TN) Location org: NPS

Location name _____ **Provisional community name** CeSL 007244 S. Red oak/white oak mix.

Survey date: 9-23-05 **Surveyors:** Roger McCoy

Datum WGS 84 Lat/Long (decimal degrees): 447986 E 3911529 N UTM 16

GPS File Name U31 A Coordinate accuracy 5.4 (m) / ft DOP _____ # sats 3 Elevation 718 m / ft

Directions or nearby Mile marker:

NOTE: ONLY ABLE to Collect 50 points.

Measured Slope —° 6 %

Measured Aspect 200 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : (DRY) MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
- __Sand X Sandy loam
- __Sandy clay loam
- __Loam __Silt loam
- __Silt/ Silty clay loam
- __Silty clay __Clay
- __Muck __Peat

Drainage:
- __Rapidly drained
- __Well drained
- __Moderately well drained
- __Somewhat poorly drained
- __Poorly drained
- __Very poorly drained

Ground cover
- ____% Bedrock
- ____% Large rocks (cobbles, boulders >10cm)
- ____% Small rocks (gravel, 0.2-10 cm)
- ____% Sand (0.1-2 mm)
- 50 % Litter, duff
- 25 % Wood (> 1 cm)
- ____% Water
- ____% Bare soil
- ____% Bryophyte/lichen
- ____% Other _____

Leaf type:
- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

FAIRLY OPEN DRY OAK FOREST w/ Low herb diversity

A FAIRLY EVEN mix of the various oak spp listed on back. A few large trees, but most in understory CLASS. PLOT does contain one large, split trunk LIRIO TUL. However, this likely shouldn't be used to classify for There are no other LIRIO TUL. Trees in the surrounding FOREST.

White oak is important here, but none are in canopy.

Canopy pretty easily split by Q. falcata + Q. coccinea

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	40	Quercus cocc.	.5-1m	10%
Understory T3	10-15	50	Quercus alba	1-2m	20%
Tall shrub S1	7-8	5	Diosp. virg	2-5m	30%
Short shrub S2	1-2	10	Lirio tulip	5-10m	40%
Herbaceous	0.5	30	Vitis rotund	10-15m	50%
Non-vascular	0.5	05	Lichens on Tree	15-20m	60%
Vine/liana	1-2	5	vitis Rotund	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): A good # of small Quer Trees. Understory Rather open. Other than on edge Lirio & some Lirio seedlings this species not important				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6						6	Quercus Cocc.		
		7					7	Quercus alba		
	6						6	Q. Falcata		
	4			4			4	Lirio tulip - edge of Plot		
		3					3	NYSSA SYL.		
		4					4	CORNUS FLOR		
		4					4	DIOS. VIRG.		
				3		3	4	SMILAX ROTUND		
		4					4	Quercus velut		
				3	6	3	7	VITIS ROTUND		
			3	3			4	OXY ARBOR.		
			2				2	Fag grand		
			3				3	CARYA GLAB.		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.426 Page 1

County: Lawrence Park: NATR Plot Code: U32[illegible] State: AL MS (TN) Location org: NPS

Location name _____ Provisional community name CEGL007244

Survey date: 9-23-05 Surveyors: Roger McCoy

Datum WGS 84 Lat/Long (decimal degrees): 447875 E 3911187 W N UTM

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.425 Page 1

County: Lawrence Park: NATR Plot Code: U3[illegible] State: AL MS (TN) Location org: NPS

Location name _____ Provisional community name See Below 7246

Survey date: 9-23-05 Surveyors: Roger McCoy

Datum WGS 84 Lat/Long (decimal degrees): 447842 E 3911491 W N

GPS File Name U30A Coordinate accuracy 6.1 (m) / ft DOP _____ # sats 4 Elevation 326 (m) / ft

Directions or nearby Mile marker:
Traveling N just E - near Lawrence/WAYNE co line

Measured Slope
– ° 3 %

Measured Aspect
145 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : (DRY) MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
- __Sand X Sandy loam
- __Sandy clay loam
- __Loam __Silt loam
- __Silt/ Silty clay loam
- __Silty clay __Clay
- __Muck __Peat

Drainage:
- __Rapidly drained
- X Well drained
- __Moderately well drained
- __Somewhat poorly drained
- __Poorly drained
- __Very poorly drained

Ground cover

____% Bedrock	40% Litter, duff	____% Bryophyte/lichen
____% Large rocks (cobbles, boulders >10cm)	30% Wood (> 1 cm)	____% Other _____
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)
- __Evergreen
- X Cold-deciduous
- __Mixed evergreen-cold-deciduous
- __Herb - Annual
- __Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __Woodland (open tree canopy)
- __Shrubland
- __Dwarf Shrubland
- __Herbaceous (less than 25% woody layers)
- __Nonvascular
- __Sparse Vegetation

Qualitative description of Community

Rather shrubby, disturbed Dry-mesic oak/hickory forest
Very close to Ag field. Undulating ditch/ depression on edge of plot. Contains muck
Microstegium. Plot has some dead standing Red oak spp. (Coccinea?)
Ground Layer mainly TB x Rad Vines

Close to CEGL007246, but (Eastern coastal plain oak/hickory forest)
But plot not in coastal plain. More of a highland Piedmont, Maryland
Stellata, Coccinea mix
w/ a good amount of Carya glabra.

Comments

Disturbance and animal use comments: Some past wind damage

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	~~35~~ 50	~~70~~ 80	Quercus falcata	.5-1m	10%
Understory T3	20+35	30	Quercus alba	1-2m	20%
Tall shrub S1	5-10	10	Sassafras ALB	2-5m	30%
Short shrub S2	.5-1	10	Sassafras ALB	5-10m	40%
Herbaceous	1.5	20	(NO HERBS, but VITIS ROTUN	10-15m	50%
Non-vascular		<5%	Lichens on trees	15-20m	60%
Vine/liana	.5-1	5%	VITIS ROTUND	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): MOST of overstory trees 40-60cm DBH NO EXOTICS!				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	5					8	QUERCUS FALCATA		
	6						6	Quercus velutina		
		6					6	Quercus alba		
	4			3			5	Carya alba		
		6					6	Oxydendron arborea		
					6	4	7	VITIS ROTUND		
			4	4			5	Sass. albidum		
			4				4	NYSSA SYLVAT		
				3			3	PRUNUS ~~sp collected earlier~~ SEROTINA	✓	
				2			2	Vacci. stam		
			4				4	Acer Rub		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

					3		3	~~Kalmia~~ Microlepia (edge of plot)		
					2		2	Phytolac. Amer. (new not ever)		
			4				4	NYSSA SYLVAT		
								~~Quercus alba~~		
			3	3			4	PRUNUS ~~sp (collected earlier~~	✓	-
								SEROTINA		

NOTE ON PRUNUS SHRUB: Vaddy sized stem, Bark a bit reddish below ↑ - photo taken. Somewhat papery Younger bark w/ Little dot-like lines

NPS GULF COAST PROJECT: *Plot Sampling Form*

NATR.427 Page 1

County: WAYNE* Park: NATR Plot Code: U2B State: AL MS (TN) Location org: NPS CEGL007244

*VERY CLOSE TO LAWRENCE CO LINE

Location name _____ **Provisional community name** Dorsal Fit (see below)

Survey date: 9-23-05 **Surveyors:** Roger McCoy (closest is CEGL007795

Datum WGS 84 Lat/Long (decimal degrees): 447389 E 3909488 N (W) UTM 2 16

GPS File Name U2BA Coordinate accuracy 9.3 @ / ft DOP _____ # sats 5 Elevation 318 m / ft

Directions or nearby Mile marker:

Just NORTH of US 64

Measured Slope

_____ ° 3 °%

Measured Aspect

20 ° (N=0°)

Topographic Position

__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
X Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
__ Low level (terrace)
__ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand __Sandy loam
__Sandy clay loam
__Loam __Silt loam
__Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
__Well drained
__Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
30 % Litter, duff
30 % Wood (> 1 cm)
____% Water
____% Bare soil
____% Bryophyte/lichen
____% Other _____

Leaf type:
X Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)
__Evergreen
X Cold-deciduous
__Mixed evergreen-cold-deciduous
__Herb - Annual
__Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community Primarily white oak. Plot is very BRUSHY of vitis (various small shrubs. Poison ivy ABUNDANT in spots. one large tree down in plot.

* Closest comm is CEGL007795 - Interior dry-mesic white oak/hickory forest.

B.1 There is a good amount of Quercus stellata (Perhaps full description includes this

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	20-35	50	QUERCUS ALBA	.5-1m	10%
Understory T3	5-10	30	NYSSA SYL.	1-2m	20%
Tall shrub S1	2-5	20	" "	2-5m	30%
Short shrub S2	1-2	40	CARYA GLABRA	5-10m	40%
Herbaceous	.5-1	30	TOX RAD	10-15m	50%
Non-vascular		5%	Lichen on trees	15-20m	60%
Vine/liana	2-5	20	VITIS ROTUND.	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): A good deal of LON. JAP. in herb layer. Also notable is the amount of large glabra shrubs. Edge of plot a drainage ground row of MICROSTEGIUM.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6						6	Quercus stellata		
	7		4	3			8	Quercus alba		
			3				3	STYRAX GRAND		
			4	4			5	CARYA glabra		
			3				3	CARYA OVALIS } Some text this as one		
				6	4		7	VITIS ROTUND.		
			2				2	CARYA OVATA		
			2				2	Amel. arborea		
			3				3	Ilex sp ~~(collected as vira)~~ decidua	–	✓
		5	3				6	NYSSA SYLVA		
			2				2	JUNI. VIR. (ONE shrub)		
	4						4	CARIA PALLIDA.		
				2			2	Quercus velutina		
					4		4	LON JAP.		
				2			2	PRUN SP (~~collected as CAROLINIANA~~ SEROTINA	✓	✓
			4	4			5	ACER RUB		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.428 **Page** 1

County: Williamson **Park:** NATR **Plot Code:** 134 **State:** AL MS (TN) **Location org:** NPS

Location name _____ **Provisional community name** CEGL 002411 - Beech mesic -

Survey date: 9-27-2005 **Surveyors:** R, McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** 502058 E 3986713 N

GPS File Name 134A **Coordinate accuracy** 7.9 (m) / ft **DOP** _____ **# sats** 4 **Elevation** 261 (m) / ft

Directions or nearby Mile marker: Near N most northern parking area,

Measured Slope _____ ° 43 %

Measured Aspect 63 ° (N = 0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : (MESIC)
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand __Sandy loam
__Sandy clay loam
__Loam __Silt loam
__Silt/ Silty clay loam
__Silty clay X Clay
__Muck __Peat

Drainage:
__Rapidly drained
__Well drained
__Moderately well drained
X Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover

____% Bedrock	30 % Litter, duff	____% Bryophyte/lichen
____% Large rocks (cobbles, boulders >10cm)	40 % Wood (> 1 cm)	____% Other _____
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	20 % Bare soil	

Leaf type:
X Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community Mesic Ravine w/ a successional component. portion of plot Extremely thick w/ Acer sach. saplings. It looks as though just upslope (2-5m) from plot center was the former forest edge. Downslope more mature mesophytic forest (Lirio. tul.) Panel shot, Acer sach, Fagus grand. Also near center & upslope is substantial microstegium, but this drastically decreases down slope.

FOREST is Beech mph, but w/ NO mph in overstory. Likely has been cut until gap formed. upslope of plot center succession like mid forest w/ much microstegium

Comments White in past Large tree fell North of plot down in ravine. Loud noise

Disturbance and animal use comments: wind damage

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	30%	PRUNUS SEROT. - GAP @ CENTER	.5-1m	10%
Understory T3	5-10	20%	ACER SACH	1-2m	20%
Tall shrub S1	2-5	80%	ACER SACH	2-5m	30%
Short shrub S2	1-2	60%	" "	5-10m	40%
Herbaceous	<.5	40%	MICROSTEGIUM	10-15m	50%
Non-vascular			minimal MOSS	15-20m	60%
Vine/liana	2-5	10%	TOX RAD	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): GAP created by 7100 cm dBH QUERCUS (either mult. or alba) Thus massive ACER SACH Rec in shrub & understory Q. alba seedlings are common in PLOT.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
				6				Quercus alba		
		5	6	6			8	Acer sach.		
	6						6	Fagus grand.		
			4				4	Cornus florida		
					3		3	Poly. achrost.		
				2			2	Z-on. americanus		
					7		7	microstegium		
			6				6	Asim. triloba		
				2			2	Frax. amer.		
	6						6	PRUNUS SEROTINA		
				2		2	3	SMILAX ROTUND.		
				2			2	ULMUS RUB.		
						3	3	VITIS SP (AESTIVALIS)?		
					3	2	3	TOX RAD		
								OUT OF PLOT ↓		
				1				Pycnanth. (71 cm tall) loomisii?	✓	

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.429 **Page** 1

County: Marion **Park:** NATR **Plot Code:** V57 **State:** AL MS TN **Location org:** NPS

Location name _____ **Provisional community name** Successional Tulip tree forest 7220

Survey date: 9-27-2005 **Surveyors:** Roger McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** 481491 E 3956252 W N

GPS File Name V57A **Coordinate accuracy** 7/6 m / ft **DOP** _____ **# sats** 5 **Elevation** 248 m / ft

Directions or nearby Mile marker: M.M. 412

Measured Slope _____ ° 14 %

Measured Aspect 110 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC __*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded __Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand __Sandy loam
X Sandy clay loam
__Loam __Silt loam
__Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
__Well drained
X Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover
____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
30 % Litter, duff
40 % Wood (> 1 cm)
____% Water
____% Bare soil
____% Bryophyte/lichen
____% Other _____

Leaf type:
X Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community Successional elm forest. Lots of microstegium

Recently a ~25-35 cm Juglans nigra fell in plot. Tree still has foliage present, so this was rather recent.

Comments Plot is rather un-sightly.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	60	LIRIO TULIP	.5-1m	10%
Understory T3	15-20	40	JUGLANS NIGRA	1-2m	20%
Tall shrub S1	5-10	50	ACER SACH	2-5m	30%
Short shrub S2	.5-1	30	SYMPHORI ORBICU.	5-10m	40%
Herbaceous	1.5	60	MICROSTEGIUM	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana	6 | 0	2-5	LONICERA JAPONICA.	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8	5					6	LIRIO TULIP		
		6					6	JUGLANS NIGRA		
		4	5	4			6	ACER SACH.		
					7		7	MICROSTEGIUM		
					5	3	5	LON. JAPONICA		
			5	4			5	FRAX. AMERI.		
				5			5	ACER NEGUNDO		
	5	4	4				6	PLATI OCCIdentil.		
					5		5	TOX. RADI.		
					4		4	ASPL. PLATYNEURON		
				5			5	SMILAX BONA-NOX		
			5				5	CORNUS FLOR		
		4					4	Quercus muhlenberg		
			4				4	ULMUS AMERI		
			4	4			5	SYMPHORI ORBIC.		
			4	3			4	Celtis occident		
				3			3	ULMUS RUB		
			3				3	MORUS RUBRA		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.430 **Page** 1

County:_____ **Park:** NATR **Plot Code:** VS8 **State:** AL MS TN **Location org:** NPS

Location name _____ **Provisional community name** CEGL002411 - Beech/maple forest

Survey date: 9-27-05 **Surveyors:** Roger McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** 481432 E 3956378 N

GPS File Name VS8 A **Coordinate accuracy** 6.0 m / ft **DOP** ____ **# sats** 4 **Elevation** 254 m / ft

Directions or nearby Mile marker:

NEAR M.M 412

Measured Slope

— ° 16 %

Measured Aspect

280 ° (N=0°)

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : (MESIC)

__*Palustrine* __*Lacustrine* __*Riverine*:

__Permanently flooded __Semipermanently flooded __Temporarily flooded

__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:

- __Sand __Sandy loam
- X Sandy clay loam
- __Loam __Silt loam
- __Silt/ Silty clay loam
- __Silty clay __Clay
- __Muck __Peat

Drainage:

- __Rapidly drained
- __Well drained
- X Moderately well drained
- __Somewhat poorly drained
- __Poorly drained
- __Very poorly drained

Ground cover

____% Bedrock	30 % Litter, duff	____% Bryophyte/lichen
____% Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____% Other _____
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:

- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)

- __ Evergreen
- Y Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class

- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community Beech/maple forest. PLOT AT mid-upper slope, heading ravine (draw). Ravine area highly eroded w/ Elevational drop of 73m (but not factored into slope %) Herb layer in plot center primarily woody species, but eroded gullys LOADED w/ Microstegium. Area is beech/maple, but low quality due to erosion & exotic plants. ALSO some Ailanthus alt present. Beech tree @ plot edge 81 cm D.B.H.

Comments Picnic table just outside of plot, but no trail or parking area right here.

Disturbance and animal use comments: EROSION

County:_____ Park: NATR Plot Code:_____ State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	50+	80	ACER SACH.	.5-1m	10%
Understory T3	10-15	20	FAGUS GRAND.	1-2m	20%
Tall shrub S1	2-5	5	LIRIO	2-5m	30%
Short shrub S2	.5-1	5	SYMPHORO CARPUS	5-10m	40%
Herbaceous	<.5	60	Microstegium	10-15m	50%
Non-vascular			SCANT MOSS ON TREE	15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Plot rather open + easy to maneuver except for sollics.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8						8	ACER SALN		
	6						6	LIRIO TULIP		
	6						6	FAG GRAN		
					8		8	Microstegium		
					6		6	FRAX AM. (THIS YEAR'S SEEDLINGS)		
				3			3	LIND. BENZ		
				4			4	SYMPHOROCARPUS ORBI.		
		4					4	Ailanthus ext. edge. Trees damaged.		
				3	3	3	5	LON. JAP		
					5		5	Polystich. acrost.		
		4		2			4	ULMUS RUB.		
					3		3	E. pal. ruj.		
				2			2	Quercus muhlenberg.		
				2			2	Celtis occ.		
								~~ULM. AMER~~		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.431

County: MARY Park: NATR Plot Code: U56 State: AL MS TN Location org: NPS

Location name _____ **Provisional community name** CEGL007191 - Ailanthus alt.

Survey date: 9-27-05 **Surveyors:** Roger McCoy

Datum WGS 84 Lat/Long (decimal degrees): 481514 E 3951380 N UTM 2 16

GPS File Name U56A Coordinate accuracy 5.2 m / ft DOP _____ # sats 5 Elevation 253 m / ft

Directions or nearby Mile marker: M.M. 412 - NEAR Road.

Measured Slope
— ° 22 %

Measured Aspect
95 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
- __Sand __Sandy loam
- X Sandy clay loam
- __Loam __Silt loam
- __Silt/ Silty clay loam
- __Silty clay __Clay
- __Muck __Peat

Drainage:
- __Rapidly drained
- X Well drained
- __Moderately well drained
- __Somewhat poorly drained
- __Poorly drained
- __Very poorly drained

Ground cover
- ____% Bedrock
- 2 % Large rocks (cobbles, boulders >10cm)
- 2 % Small rocks (gravel, 0.2-10 cm)
- ____% Sand (0.1-2 mm)
- 30 % Litter, duff
- 30 % Wood (> 1 cm)
- ____% Water
- 5 % Bare soil
- ____% Bryophyte/lichen
- ____% Other _____

Leaf type:
- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)
- __Evergreen
- X Cold-deciduous
- __Mixed evergreen-cold-deciduous
- __Herb - Annual
- __Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community Area rather trashy as far as plant community

A mix of some natives, but forest has large amount of Ailanthus alt.

No Trees very Large Sapling Layer Thick. Hard to determine what this site was or will be but for now it is quite disturbed.

ACER Negundo on plot edge near road, but this is an upland plot.

Comments - This is a USGS pre-determined plot. Author would not have chosen. OLD Roadway/Trail/ eroded area in plot.

Disturbance and animal use comments: Near Road, Edge effect OLD Side Jeep from Road Const. Still present in Plot.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	30	Celtis occidentalis	.5-1m	10%
Understory T3	15-20	30	Juglans nigra/ A. altissima	1-2m	20%
Tall shrub S1	2-5'	60	ACER SACH.	2-5m	30%
Short shrub S2	1-2	40	Ailanthus alt	5-10m	40%
Herbaceous	.5-1	60	* Eupatorium rugos. (dom. in PART of PLOT)	10-15m	50%
Non-vascular			-	15-20m	60%
Vine/liana	5-10	20	TOX RAD	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): 3 herbs dominating Elymus sp, Eupatorium rugo, * Microstegium Plot is a mess				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6						6	Celtis occ.		
	5	4	6	4			8	~~Acer sach~~ Ailanthus alt.		
		6					6	MACLURA pomifera		
		5					5	Juglans Nigra		
		5	6				7	~~Ailanthus altis.~~ Acer sach.		
					3	5	6	Lon. JAP		
					4	5	6	Tox rad.		
				6			6	Symphocarp. Orbicu.		
		4					4	CARY ALBA		
					7		7	microstegium		
					6		6	Eupator. rugosa		
					5		5	Elymus ~~sp~~ virginicus	✓	✓
				3			3	Campsis rad		
				3			3	FRAX. amer.		
		·	3				3	CORNUS FLOR.		
					4		4	ASPI. PLATYNEURON		
	2	2					4	ULMUS RUBRA		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR. 432 **Page** 1

County: Davidson **Park:** NATR **Plot Code:** 202 **State:** AL MS (TN) **Location org:** NPS

Location name _____ **Provisional community name** ?? See comments 2411

Survey date: 9-27-2005 **Surveyors:** Roger mulvey (poor crample)

Datum _WGS 84_ **Lat/Long (decimal degrees):** 0502211 E 3987061 N W UTM 2 16

GPS File Name 202A **Coordinate accuracy** 5.4 (m) / ft **DOP** _____ **# sats** _____ **Elevation** 243 (m) / ft

Directions or nearby Mile marker: Near northern terminus of parkway

Measured Slope

_____ ° 27 %

Measured Aspect

57 ° (N=0°)

Topographic Position

__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
X Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
__ Low level (terrace)
__ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : (MESIC)
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:

__Sand __Sandy loam
__Sandy clay loam
__Loam __Silt loam
__Silt/ Silty clay loam
__Silty clay X Clay/Loam
__Muck __Peat

Drainage:

__Rapidly drained
__Well drained
X Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
20 % Litter, duff
30 % Wood (> 1 cm)
____% Water
20 % Bare soil
10 % Bryophyte/lichen
____% Other _____

Leaf type:

X Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)

__Evergreen
X Cold-deciduous
__Mixed evergreen-cold-deciduous
__Herb - Annual
__Herb - Perennial

Physiognomic Class

X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community

* within more recent aquisition of Parkway. Area has good of forest recovering from timbering/clearing. NOT early succession but still fairly easy to navigate. However hills eroded, thick w/ saplings & signs of exotic plants portion of forest with many Ailanthus saplings. Large Acer sacch trees present & they are thick in understory. Forest understory dom w/ Vine Bengs, Acer sacch, & Ailanthus in part.

Comments Keys to Beech-maple (Cag102411) but no beech. Tree-of-heaven present & @ high numbers, but I did not "dominated." Trees close to Tree of heaven forest, my thoughts- Sacch. Sugar maple forest which includes the exotic tree-of-heaven.

Disturbance and animal use comments: Exotics / Erosion.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	60	Acer sacch	.5-1m	10%
Understory T3	10-15	60	ACER SACH	1-2m	20%
Tall shrub S1	2-5	40	ACER SACH	2-5m	30%
Short shrub S2	1-2	40	Lind. Benzoin	5-10m	40%
Herbaceous	<.5	30	LON. JAP - (behaving as herb)	10-15m	50%
Non-vascular	<.5	70	moss on ground	15-20m	60%
Vine/liana	1b	20-35	PARTH QUINQ	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Just downslope some Large Acer sach. Upslope some Large trees of Qu. mich & Ailanthus. 57.0 cm DBH - Acer. Outside of plot - LON. MAC. @ edge of short shrub level. Just on edge of plot				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	5	7	6				9	ACER SACH		
	4		6				7	A. l. altis. - (MORE OUT of PLOT)		
			6	4			7	Lindera benzoin		
	4		3				5	ULM AMER.		
	4						4	Celt. occ.		
	3						3	Rob. pseudo.		
				4	4		4	CAMPS. RAD.		
				2			2	CARYA CORD		
					4		4	POLY. ACROST.		
					6		6	LON. JAP.		
					3		3	Aspl. platy		
			4				4	Asim. triLoba		
		4					4	Sas. albidum		
			3	2			3	Quercus mich		
					3	3	4	TOX RAD		
			3				3	ULM R.B		
					2	2	3	Bigno. capr.		
					3	3	4	PARTHEN QUIN.		
							4	VITIS SP		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.433 Page 1

County: WILLIAMSON Park: NATR Plot Code: 139 State: AL MS (TN) Location org: NPS

Location name _____ **Provisional community name** CEGL 007220 - Soc. Liriodendron Forest

Survey date: 9-27-2005 **Surveyors:** Roger McCord

Datum WGS 84 Lat/Long (decimal degrees): 496378 E 3968963 N UTM 16 N

GPS File Name 139A Coordinate accuracy 4.1 (m) / ft DOP _____ # sats 3 Elevation 276 (m) / ft

Directions or nearby Mile marker: A bit South of Garrison Creek parking area

Measured Slope _____ ° 14 %

Measured Aspect 340 ° (N=0°)

Topographic Position
- Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- Midslope (middle slope)
- Lowslope (lower slope, footslope)
- Toeslope (alluvial toeslope)
- Low level (terrace)
- Channel bed

Cowardin System *Upland*: XERIC : DRY-MESIC : MESIC
Palustrine *Lacustrine* *Riverine*:
Permanently flooded Semipermanently flooded Temporarily flooded
Seasonally flooded Saturated Irregularly flooded

Soil texture:
Sand Sandy loam
Sandy clay loam
Loam X Silt loam
Silt/ Silty clay loam
Silty clay Clay
Muck Peat

Drainage:
Rapidly drained
X Well drained
Moderately well drained
Somewhat poorly drained
Poorly drained
Very poorly drained

Ground cover

____% Bedrock	60 % Litter, duff	____% Bryophyte/lichen
____% Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____% Other _____
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
X Broad-leaved
Needle-leaved
Graminoid
Broad-leaved herbaceous
Pteridophyte
Mixed

Leaf phenology (dominant stratum)
Evergreen
X Cold-deciduous
Mixed evergreen-cold-deciduous
Herb - Annual
Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
Woodland (open tree canopy)
Shrubland
Dwarf Shrubland
Herbaceous (less than 25% woody layers)
Nonvascular
Sparse Vegetation

Qualitative description of Community High slope, hill top. Overstory dominated by Liriodendron. Forest has successional appearance w/ high density of maple saplings. Lots of coarse & fine woody debris. Tulip trees mature. Most 740cm dbh. Downslope Juniper Pinus taeda.

Comments

Disturbance and animal use comments: Wind.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	50	LIRIO TULIP	.5-1m	10%
Understory T3	5-10	30	ACER SACH	1-2m	20%
Tall shrub S1	2-5	50	" "	2-5m	30%
Short shrub S2	1-2	20	Symplocap. o.b.	5-10m	40%
Herbaceous	<.5	20	MICROSTEGIUM	10-15m	50%
Non-vascular			—	15-20m	60%
Vine/liana	2-5	10	PAR. QUINQ	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	LIRIO TULIP		
	4						4	PINUS TAE		
		4					4	MORUS RUBRA		
		6	6	3			7	ACER SACH.		
			5	4			6	LIND. BENZOIN.		
		3					3	SASS. ALBIDUM		
					6		6	MICROSTEG.		
					5		5	Epifarium oregonum		
						3	3	LON. JAP		
					4		4	Poly. ACROST.		
				4			4	FRAX AMER.		
					3		3	TOX RAD.		
				5			5	SYMPL. OBICULATUS		
			2				2	ASIM TRILOB		
	5						5	PRUNUS SEROT		
					3		3	Polygonatum virg.		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.434 **Page** 1

County: Williamson **Park:** NATR **Plot Code:** 149 **State:** AL MS (TN) **Location org:** NPS

Location name _____ **Provisional community name** CEGL002411 - Beech/maple (uglaciated).

Survey date: 9-27-05 **Surveyors:** R. McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** 496394 E 3968629 N

GPS File Name 149A **Coordinate accuracy** 9.8 (m) / ft **DOP** _____ **# sats** 2 **Elevation** 257 m / ft

Directions or nearby Mile marker: NEAR GARROW CREEK CAMP. PLOT IN RAVINE, SE of OLD TRACE TRAIL

Measured Slope _____ ° 35 %

Measured Aspect 366 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- X Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : (MESIC)
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
- __Sand __Sandy loam
- X Sandy clay loam
- __Loam __Silt loam
- __Silt/ Silty clay loam
- __Silty clay __Clay
- __Muck __Peat

Drainage:
- __Rapidly drained
- X Well drained
- __Moderately well drained
- __Somewhat poorly drained
- __Poorly drained
- __Very poorly drained

Ground cover

____% Bedrock	60 % Litter, duff	5 % Bryophyte/lichen
____% Large rocks (cobbles, boulders >10cm)	20 % Wood (> 1 cm)	____% Other _____
5 % Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	5 % Bare soil	

Leaf type:
- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community A text book beech forest. Just a few trees of different species IN and around plot (Acer sacch, FRAX. AMER, ULM. AMER.) For most part, Forest is very open. PLOT just upslope from small trib. (~~Gulley~~) Trees mature & little to no sign of disturbance. Diversity not very high, but area is very scenic.

Comments Community comment. Other than one tree, only maple ~~seedlings~~ saplings are present

Disturbance and animal use comments: ANIMAL TRAIL to stream

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	70	FAG. GRAND.	.5-1m	10%
Understory T3	15-20	30	" "	1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2	1-2	20	LIND. BEN.	5-10m	40%
Herbaceous	<.5	20	POLY. ACLEROSTICHOIDES	10-15m	50%
Non-vascular		5	MOSS ON WOOD	15-20m	60%
Vine/liana			—	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8						8	FAG. grand:fol.		
	6				5*		6	ACER SACH - one tree		
	5						5	ULM. AMER " "		
			6				6	LIND BENZOIN		
	5						5	FRAX AMER. - ONE tree		
					4		4	POLY st. ACROSTICOI.		
					3		3	Phegopteris hexag (BROAD-beech fern, name may have changed)		
					3		3	MICROSTEG. (1 clump 2x2 m)		
				4			4	ILex opaca		
					2		2	EPIFAGUS		
				2			2	ASIM TRILOB - more outside PLOT.		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

* Included in herb layer for only this year's seedlings

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.435

County: WILLIAMSON Park: NATR Plot Code: 133 State: AL MS TN Location org: NPS

Location name _____ Provisional community name ?? ✓ 6011

Survey date: 7-27 Surveyors: Roger McL

Datum WGS 84 Lat/Long (decimal degrees): 496211 E ✗ 3968805 N W UTM Z 16

GPS File Name 133A Coordinate accuracy 5.1 m / ft DOP _____ # sats 4 Elevation ~285 m / ft

Directions or nearby Mile marker: South of Garrison Cr. area. Plot ~ near trail

Measured Slope
_____ ° 14 %

Measured Aspect
350 ° (N = 0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : (DRY-MESIC) : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
- __Sand __Sandy loam
- X Sandy clay loam
- __Loam __Silt loam
- __Silt/ Silty clay loam
- __Silty clay __Clay
- __Muck __Peat

Drainage:
- __Rapidly drained
- __Well drained
- X Moderately well drained
- __Somewhat poorly drained
- __Poorly drained
- __Very poorly drained

Ground cover
- ____% Bedrock
- ____% Large rocks (cobbles, boulders >10cm)
- ____% Small rocks (gravel, 0.2-10 cm)
- ____% Sand (0.1-2 mm)
- 70 % Litter, duff
- 20 % Wood (> 1 cm)
- ____% Water
- ____% Bare soil
- ____% Bryophyte/lichen
- ____% Other _____

Leaf type:
- __Broad-leaved
- ✓ Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- X Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community ✓ Pinus taeda forest undergoing succession to hardwoods.

Comments Although GPS accuracy states 5.1m error, points collected & location on GPS map seem to indicate up to 20 m error

Disturbance and animal use comments: Author does not know birds well, but warblers seen.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:**_____ **State:** AL MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	750	40	PINUS TAEDA	.5-1m	10%
Understory T3	15-20	40	LIRIO TULIP	1-2m	20%
Tall shrub S1	2-5	60	ACER SACC	2-5m	30%
Short shrub S2	1-2	40	" "	5-10m	40%
Herbaceous	1,5	20	TOX RADIC.	10-15m	50%
Non-vascular			—	15-20m	60%
Vine/liana	15-20	10	TOX RAD.	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): PINE needles dominate ground, Few true herbs other than scant amount of Carex spp. All understory hardwoods. Dense sapling layer. One cannot see too far				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	PINUS TAEDA		
		5	7	6			8	ACER Sacc		
		6					6	LIRIO TULIP		
			3				3	ULM. SP.		
			2	3			3	FRA. AMERIC.		
				3			3	SYMPLO ORBIC		
			2				2	Fagus grand.		
					5	4	6	LON. JAP.		
					4	3	5	TOX RAD		
		5					5	CORNUS FLOR		
				3			3	QUERCUS SP (Red oak group)		
				2			2	CARYA SPP (seedlings)		
				3			3	SMILAX ROTUND		
				1			1	RHAM. CAROLIN (one seedling)		
				2			2	CARYA ~~tomen~~ alba.		
		4					4	OXY DEND ARBOR.		
				2			2	ULMUS ALATA		
				2			2	LIND. BENZ		
					2		2	RUBUS SP.		
2							2	ASIMI. TRILOBA		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.436 **Page** 1

County: MAURY **Park:** NATR **Plot Code:** V55 **State:** AL MS TN **Location org:** NPS

Location name _____ **Provisional community name** CEGL002411 - Beech/maple

Survey date: 9-27-05 **Surveyors:** Roger McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** 479106 E 3953923 N

GPS File Name V55A **Coordinate accuracy** 7.3 m / ft **DOP** _____ **# sats** 4 **Elevation** 228m m / ft

Directions or nearby Mile marker:

Measured Slope

_____° 21 %

Measured Aspect

122 ° (N=0°)

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC

__*Palustrine* __*Lacustrine* __*Riverine*:

__Permanently flooded __Semipermanently flooded __Temporarily flooded

__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:

- __Sand __Sandy loam
- __Sandy clay loam
- X Loam __Silt loam
- __Silt/ Silty clay loam
- __Silty clay __Clay
- __Muck __Peat

Drainage:

- __Rapidly drained
- X Well drained
- __Moderately well drained
- __Somewhat poorly drained
- __Poorly drained
- __Very poorly drained

Ground cover

- _____% Bedrock
- _____% Large rocks (cobbles, boulders >10cm)
- _____% Small rocks (gravel, 0.2-10 cm)
- _____% Sand (0.1-2 mm)
- 25 % Litter, duff
- 40 % Wood (> 1 cm)
- _____% Water
- _____% Bare soil
- _____% Bryophyte/lichen
- _____% Other _____

Leaf type:

- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)

- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class

- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community MESIC Beech & Tulip tree forest. Unfortunately there is lots of microdisturbance. Canopy gaps have allowed for Fag. beech saplings to be thick in spots.

Forest has a successional feel to it: woody debris, high sapling density, microstep, & sass. One beech tree (measured @ 100.0 cm dbh) has top knocked out. Another smaller one, yet still mature has totally rotten on inside. Plot downslope from fenced area of private prop. - Trail downslope from plot.

Overall community - Beech maple, but somewhat disturbed.

Comments After collecting points, it was noticed that this spot (V55A) is ~40m from original plot location.

Disturbance and animal use comments: WIND

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	75o	60	FAGUS grandifolia	.5-1m	10%
Understory T3	10-15	20	ACER SACH ~~~ / none.	1-2m	20%
Tall shrub S1	2-5	40	Fagus grandifolia	2-5m	30%
Short shrub S2	1-2	50	ACER SALM.	5-10m	40%
Herbaceous	C.5	60	Microstegium	10-15m	50%
Non-vascular			TRALE MOSS ON TREES	15-20m	60%
Vine/liana			—	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): ~~Other~~ Sassafras is in Canopy & Sub Canopy.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	FAGUS GRAND		
		5	7	5			8	ACER SACH		
	6	4		2			6	SASS. ALBIDUM		
	6						6	LIRIO TULIP.		
					5		5	EUPATORIUM RUGOS.		
			5	4			6	LINDERA BENZOIN		
	4		4	3			5	ULMUS ~~RUBRA~~ AMERICANA		
				4			4	SMILAX ROTUNDI		
					7		7	MICRO STEGIUM		
				2			2	ULMUS RUBRA		
						4	4	VITIS (AESTIVALIS) - 1 Large vine		
					3		3	POLYGONUM VIRGINIANUM		
					4		4	FRAX AMER.		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.437 **Page** 1

County: [redacted] Hickman **Park:** NATR **Plot Code:** US3 **State:** AL MS TN **Location org:** NPS

Location name _____ **Provisional community name** CEGL007124 - Succ. Red cedar.

Survey date: 9-27-05 **Surveyors:** Roy McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** 475932 E 3950848 N **UTM** 16 S

GPS File Name US3A **Coordinate accuracy** 4.6 m / ft **DOP** _____ **# sats** 5 **Elevation** 180 m / ft

Directions or nearby Mile marker: NORTH OF MM = 406

Measured Slope _____ ° 25 %

Measured Aspect 170 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- __ Moderately well drained
- X Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

20 % Bedrock	30 % Litter, duff	5 % Bryophyte/lichen
____ % Large rocks (cobbles, boulders >10cm)	____ % Wood (> 1 cm)	____ % Other _____
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- __ Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- X Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- __ Forest (closed tree canopy)
- X Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community - CEDAR opening. Somewhat shade-like, but area appears successional. Lots of Lespedeza. Cedars occ. trees are shrub-stage but stunted.

Comments ON North edge, community is mowed roadside.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	5-10	10%	Quercus rubra - ONE tree	.5-1m	10%
Understory T3	2-5	20	Jun. virg. - (virtually canopy)	1-2m	20%
Tall shrub S1	1-2 m	10	Junip. virgi.	2-5m	30%
Short shrub S2.	.5-1	5	Symphoro. orbiculanus	5-10m	40%
Herbaceous	.5-1	30%	Lespedeza sp (collected)	10-15m	50%
Non-vascular		10%	moss on Rocks	15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): NOTE: NO real tree canopy. more like a woodland. NOTE ALL T3 Level are tallest trees except for one Q. Rubra - ALL T3 <10m				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
		6	4				7	JUN. Virginia		
		5					5	MALLURA ~~PU~~ POMIFERA		
			4				4	Ligustrum Sini		
					6		6	Lespedeza ~~SP~~ cuneata!	✓	
					4	3	5	Toy rad		
	5						5	Quercus Rubra - ONE open grown small tree		
					4		4	Lon. Jap		
			4				4	~~Vaccinium~~ Shrub CRATAEGUS SP.	✓	✓
		6		3			6	Quercus michlen.		
			4				4	Diospora vir		
			2	2			4	CORNUS ~~SP~~ amomum	✓	✓
			3				3	PRUNUS SEROTINA		
				3			3	FRAX AMER.		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.438 **Page** 1

County: Maury **Park:** NATR **Plot Code:** U54 **State:** AL MS TN **Location org:** NPS

Location name _____ **Provisional community name** CEGL007808 Chinkapin/Shumard oak *

Survey date: 9-27-2005 **Surveyors:** Roger McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** 479202 E W 3953799 N W

GPS File Name U54A **Coordinate accuracy** 4.1 m / ft **DOP** _____ **# sats** _____ **Elevation** 213 m / ft

Directions or nearby Mile marker: South of MM. 410

Measured Slope

_____ ° _____ %

Measured Aspect

330 * ° (N=0°)

HARDLY applies for So Low

Topographic Position

__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
X Low level (terrace)
__ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : (MESIC)
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:

__Sand __Sandy loam
__Sandy clay loam
__Loam __Silt loam
X Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:

__Rapidly drained
__Well drained
__Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover

15 % Bedrock (Creek Bed)
____ % Large rocks (cobbles, boulders >10cm)
____ % Small rocks (gravel, 0.2-10 cm)
____ % Sand (0.1-2 mm)
60 % Litter, duff
15 % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:

X Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)

__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community Terrace forest. Mesic, and quite a low land, but water may rise to this level in severe rains. Stream bed dry today. Mixed forest w/ Shumard oak as dominant

Community keys to Chinkapin/Shumard oak, but it is more Shumard.

Comments Plot moved slightly for it was close to mowed area.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	40	QUERCUS SHUMARD.	.5-1m	10%
Understory T3	20-35	40	FRAX. AMERICANA	1-2m	20%
Tall shrub S1	2-5	30	~~OAK~~ OSTRYA VIRGIN.	2-5m	30%
Short shrub S2	1-2	20	ACER SACH	5-10m	40%
Herbaceous	<.5	20	TOX RAD	10-15m	50%
Non-vascular			TRACE MOSS.	15-20m	60%
Vine/liana	5-10	<5%	TOX RAD	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): up just - slope on private property are some larger shumard oaks				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	QUERCUS shum. → Rutidulum!		
			5				5	Viburnum - Likely ~~a 2nd black bark~~	✓	✓
			5				5	CORNUS FLOR.		
				3			3	Quercus sp. (Red oak group)		
		6						Frax americana		
		5			5	4	6 5	TOX RAD DIOSPYRA VIRG		
			6				6	Ostrya virg.		
			4				4	Ulmus americana		
				3			3	Campsis rad		
					4		4	Lon. JAP		
					4		4	MICROSTEGIUM		
		4			1		4	FAGUS grandifolia		
					5		5	LIND BENZ		
			6				6	ACER SACH.		
			4	3			4	Quercus muhlen.		
		5					5	CARYA CORDIFORMIS		
				4			4	Acer negundo		
					3		3	UNKNOWN HERB (Like Solidago, but very browsed		
		4					4	Quercus alba		
				3			3	CERCIS CAN		
					3		3	PARTH QUINQ.		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

Juglans nigra T3=4 TOTAL 4

*SORRY ABOUT THE MESS I THOUGHT I COULD GET AWAY W/ ONE SHEET.

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR.439 **Page** 1

County: ~~Madison~~ Hickman **Park:** NATR **Plot Code:** 204 **State:** AL MS (TN) **Location org:** NPS

Location name _____ **Provisional community name** SEE BELOW - CEGL007808

Survey date: 9-27-05 **Surveyors:** Roger McCoy

Datum _WGS 84_ **Lat/Long (decimal degrees):** 472803 E 3750636 N

GPS File Name 204A **Coordinate accuracy** 93 (m) / ft **DOP** _____ **# sats** _____ **Elevation** 236 (m) / ft

Directions or nearby Mile marker: South of JACKSON Cove (3.2 miles) Jct Hwy

Measured Slope
— ° 29 %

Measured Aspect
190 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : (DRY-MESIC) : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand __Sandy loam
__Sandy clay loam
X Loam __Silt loam
__Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
X Well drained
__Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover
____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
30 % Litter, duff
20 % Wood (> 1 cm)
____% Water
____% Bare soil
____% Bryophyte/lichen
____% Other _____

Leaf type:
X Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community CENTER of plot & surrounding forest dominated by hickories most of this forested slope has Southern Shagbark as dominant tree.

Area is moderately thick w/ saplings, but doesn't appear successional. Southern-Shagbark hickories are mature, but not huge MANY around 33cm D.B.H., some larger & some smaller # other than the Lonicera jap.

COMMUNITY CLASS: under "upland deciduous forests" Key Brooks Down to Couplet #10 Forest & Southern shagbark hickory This is a moderately steep slope on the highland Rim, but reminds ~~other~~ author of a central Basin Forest.

Comments PLOT 204A MOVED TO North/upslope for just South of plot is a mowed roadside of Bermuda & crab grass.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	70	CARYA OVATA VAR. AUSTRALIS	.5-1m	10%
Understory T3	5-10m	30	OSTRYA VIRG.	1-2m	20%
Tall shrub S1	2-5	20	OSTRYA virgin	2-5m	30%
Short shrub S2	1-2	60	ACER SACH	5-10m	40%
Herbaceous	1.5	40	PANICUM BOSCII	10-15m	50%
Non-vascular			Trace MOSS ON DEAD WOOD	15-20m	60%
Vine/liana	2-5	10	PARTH QUIN	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Forest open, b.t high density of short shrubs. One doesn't notice this @ first				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8							CARYA OVATA VAR AUSTRALIS *		
			6	3			9	OSTRYA VIRGINIA		
	5							ACER SACH		
		4						CELTIS SP.		
					5			PANICUM BOSCII		
				4				Quercus muhlenbergii		
				5				FRAX. AMERICAN		
		4	3				4	Rhamnus Caroliniana		
				4				ULMUS RUBRA		
				3				CERCIS CANA		
	6							CARYA ALBA		
					4			LONI JAPONICA - Behaving as HERB		
					3			Fagus grandifolia		
					3			Polygonum virgin.		
				3				CARYA GLABRA		
			3					SASSAFRAS ALBIDUM		
				2				Cunonia americana		
						4		PARTH QUINQ.		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

* AKA C. Caroliniae-Septentrionalis

NATR.439

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:__________ **Park:** NATR **Plot Code:** 204 **State:** AL MS TN **Location org:** NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

List ONLY dominant or diagnostic species, and mark ONLY those strata at which they are dominant, but consider all strata when giving total cover.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
	4							DISPORA VIRGIN		
					3			Arabis sp – ALL dry now		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T2: Tree Can

T3 Subcanopy

S1 Tall Shrub (>1m; to 5m)

S2 Short Shrub (< 1m)

H Herbaceous

V Vines (lianas)

NPS GULF COAST PROJECT: ***Plot Sampling Form***

NATR.440 Page 1

County: Lewis Park: NATR Plot Code: 166 State: AL MS TN Location org: NPS

Location name _____ Provisional community name SEE BELOW XX 7700

Survey date: 9-28-05 Surveyors: Roger McCoy

Datum WGS 84 Lat/Long (decimal degrees): 460559 N 3932084 W

GPS File Name 166A Coordinate accuracy 7.9 m / ft DOP _____ # sats _____ Elevation 287 m / ft

Directions or nearby Mile marker: - SOUTH OF M.M. 384.

Measured Slope

° 14 %

Measured Aspect

320 ° (N=0°)

Topographic Position

__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
X Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
__ Low level (terrace)
__ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand __Sandy loam
__Sandy clay loam
__Loam ~~X Silt loam~~
X Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
__Well drained
X Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
50 % Litter, duff
15 % Wood (> 1 cm)
____% Water
____% Bare soil
____% Bryophyte/lichen
____% Other _____

Leaf type:
X Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)
__Evergreen
X Cold-deciduous
__Mixed evergreen-cold-deciduous
__Herb - Annual
__Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__Woodland (open tree canopy)
__Shrubland
__Dwarf Shrubland
__Herbaceous (less than 25% woody layers)
__Nonvascular
__Sparse Vegetation

Qualitative description of Community TRANSition between the more dry Quercus prinus forest to the south {upslope} & more mesic forest of Quercus alba & LIRIODENDRON. High density of STIRAX especially on the west edge of plot Area is mature, scenic & decent quality. No exotics seen.

XX either- CEGL007709- white oak - Tuliptree mesic Low slope forest OR

CEGL007700 - INTERIOR Low PLATE Chestnut oak/ mixed oak forest

OR

Plot IS TRANSITION BETWEEN both & both Areas.

Comments

Disturbance and animal use comments: MINOR WIND. Some micastegium along stream & outside of plot

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	75o	60	LIRIODENDRON TULIP	.5-1m	10%
Understory T3	10-15	20	OXYDENDRAN ARBOR.	1-2m	20%
Tall shrub S1	1-2	40	STYRAX GRAND. - More dense outside plot.	2-5m	30%
Short shrub S2	.5-1	30	" "	5-10m	40%
Herbaceous	.5-1	30	Diarena americana	10-15m	50%
Non-vascular		25%	SCANT Lichn. & moss on TREES.	15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): PRINUS & LIRIO BOTH HAVE a "7" below Slightly more LIRIO.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7			4			7	QUERCUS PRINUS -		
	6						6	Quercus alba		
	7						7	LIRIO TULIP		
		5					5	OXYD ARBOR.		
					5		5	Diarena americana (collected outside)	✓	
					5		5	Amphicarpa bracteata		
			6	5			7	Styrax grandifolia		
				4			4	Sassa. alb.		
				4			4	CARYA ALBA		
					5		5	Polystich - acrost.		
				3			3	SMILAX ROTUND		
					4		4	PANICUM DOSLI		
			4				4	Acer Rubrum		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.441 Page 1

County: Lewis Park: NATR Plot Code: 169 State: AL MS TN Location org: NPS 7795

Location name _____ **Provisional community name** ~~CEGL007700~~ - See Note below *

Survey date: 9-28-05 **Surveyors:** Roger McCoy

Datum WGS 84 Lat/Long (decimal degrees): 460795 E 3932578 N

GPS File Name 169A Coordinate accuracy 9.7 m/ft DOP _____ # sats 5 Elevation 279 m/ft

Directions or nearby Mile marker:

SOUTH of 389

Measured Slope

5 ° 10 %

Measured Aspect

200 ° (N=0°)

Topographic Position

__ Interfluve (Ridge, summit or crest)
X High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
__ Low level (terrace)
__ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand X Sandy loam
__Sandy clay loam
__Loam __Silt loam
__Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
X Well drained
__Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover

____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
50 % Litter, duff
30 % Wood (> 1 cm)
____% Water
____% Bare soil
____% Bryophyte/lichen
____% Other _____

Leaf type:
X Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy) → ALMOST OPEN.
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community A DRY white/mixed OAK FOREST. Surrounding area is all DRY OAK, but varies between Q. prinus & Q. alba, To th North is an open area of Little blue stem. In plot there is Little hrb LAYER other than a few small clumps of Senna Scoparium.

West of plot center is County road. Roadbank Steep w/ Acer Rub/Liriod Tulip. There are not in plot. PLOT Q alba as dominant, but DRY.

* Couplet 13b- Reads "Strongly dominated by Chestnut oak" however to get there, the Couplet #9 says 9a. "dominated or Co-dom. by Chestnut oak" - Forest is more white oak

Comments

Disturbance and animal use comments: WIND DAMAGE Two Large OAKS (Red OAK Subgenus) down

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	20-35	50	QUERCUS alba	.5-1m	10%
Understory T3	10-15	30	CARYA GLABRA	1-2m	20%
Tall shrub S1	2-5	30	VACCINIUM ARBOREUM? (collected earlier)	2-5m	30%
Short shrub S2	1-2	20	STYRAX GRAND.	5-10m	40%
Herbaceous	.5-1	10	Sch: Sloparium	10-15m	50%
Non-vascular			SCANT MOSS ON TWIGS	15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): The vaccinium is clustered on south edge of plot where plot slope is a bit steeper. *Not on Q. cocc. Leaves look similar to Southern red, but tree stunted & has more of a coccinea habit. Searched for acorns, but none found.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	QUERCUS ALBA		
		5					5	CARYA GLABRA		
	5						5	QUERCUS PRINUS		
	5						5	QUERCUS COCCINEA*		
				5			5	SASS. alb.		
			4	4			6	STYRAX GRAND.		
				5			5	SMILAX ROTUND.		
			4				4	CORNUS FLORIDA		
					3		3	Chim. maculata		
				4			4	OXY. ARBOR.		
					4		4	SCH: SLOPARIUM		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR.442 **Page** 1

County: Lewis **Park:** NATR **Plot Code:** V50 **State:** AL MS (TN) **Location org:** NPS

Location name _____ **Provisional community name** CEGL007261 - Lower piedmont chestnut oak

Survey date: 9-28-05 **Surveyors:** Roger McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** 466169 E 3944229 N

GPS File Name V50A **Coordinate accuracy** 11 (m) / ft **DOP** _____ **# sats** 5 **Elevation** 291 (m) / ft

Directions or nearby Mile marker: NEAR Parking area for "Old Trace" just S. of mm 398

Measured Slope — ° 4 %

Measured Aspect 240 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

DRY DRY-MESIC

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
- __Sand X Sandy loam
- __Sandy clay loam
- __Loam __Silt loam
- __Silt/ Silty clay loam
- __Silty clay __Clay
- __Muck __Peat

Drainage:
- __Rapidly drained
- X Well drained
- __Moderately well drained
- __Somewhat poorly drained
- __Poorly drained
- __Very poorly drained

Ground cover

____% Bedrock	70% Litter, duff	____% Bryophyte/lichen
____% Large rocks (cobbles, boulders >10cm)	20% Wood (> 1 cm)	____% Other _____
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community Quercus-Pinus community, but not pure. Plot has mix of Q. alba here too. Understory & ground layer has (feel) of xeric Q.-Pinus comm and the tree species is dominant, but just NOT PURE.

Community keys both easily, but not in piedmont. Is this one for W. Highland Rim?

Comments NOTE: PLOT PROVIDED BY USGS OFF OF NPS property, so plot moved.

NOTE 240° from plot center is a large shrine. Forest does appear similar for it is still on a high slope.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park:** NATR **Plot Code:**_____ **State:** AL MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	60	Q. prinus	.5-1m	10%
Understory T3	15-20	40	CARYA glabra — VAR. ovalis OR C. ovalis	1-2m	20%
Tall shrub S1	1-2	40	Vaccinium sp. (collected)	2-5m	30%
Short shrub S2	.5-1	20	SMILAX ROUND	5-10m	40%
Herbaceous	<.5	<5%	DIC. dicot. VAR DIC.	10-15m	50%
Non-vascular			SCANT Lichen / ¾ moss	15-20m	60%
Vine/liana			—	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): THEO Herb dicanthelium limited to being @ base of Q. prinus trees, somewhat low diversity				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8			3			8	Quercus prinus		
	5			3			5	Quercus alba		
	7						7	Carya glabra — VAR ovalis OR C. ovalis		
					1		1	Chimaphila maculata		
				2			2	Quercus sp (Red oak group)		
					3		3	Dichanthelium dic dic		
					1		1	Poaceae tridentatus		
			7				7	Vaccinium (Shrub ~2m tall) — ARBOREUM*	✓	✓
				4			4	Vaccinium (CORYMBOSUM → HAIRY Lower-green stem; petiole leaves)	✓	
				4			4	SMILAX ROTUNDA		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

* BARK REDISH

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.443 **Page** 1

County: Lewis **Park:** NATR **Plot Code:** U46 **State:** AL MS TN **Location org:** NPS

Location name _____ **Provisional community name** ?? 2411 (poor example)

Survey date: 9-28-05 **Surveyors:** Roger McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** 460868 W **E** 3937705 W **N**

GPS File Name U46A **Coordinate accuracy** 4 m / ft **DOP** _____ **# sats** 3 **Elevation** 217 m / ft

Directions or nearby Mile marker:

South of _____ Fall Hollow waterfall & N of Big Swan Crk.

Measured Slope — ° 60 %

Measured Aspect 320 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- X Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC __*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
- __Sand __Sandy loam
- __Sandy clay loam
- __Loam __Silt loam
- X Silt/ Silty clay loam
- __Silty clay __Clay
- __Muck __Peat

Drainage:
- __Rapidly drained
- __Well drained
- X Moderately well drained
- __Somewhat poorly drained
- __Poorly drained
- __Very poorly drained

Ground cover

____% Bedrock	30 % Litter, duff	____% Bryophyte/lichen
10 % Large rocks (cobbles, boulders >10cm)	____% Wood (> 1 cm)	____% Other _____
10 % Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	50 % Bare soil	

Leaf type:
- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)
- __Evergreen
- X Cold-deciduous
- __Mixed evergreen-cold-deciduous
- __Herb - Annual
- __Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community ~~To~~ Mesophytic forest. Area very steep & difficult to navigate. Shale is exposed in parts & much bare soil since the plot is steep. At plot center, somewhat thick w/ Staph. trifoliata. Upslope from plot center & in plot on edge, the herb layer has mod-high amounts of microstegium.

?? Somewhat immature, mixed mesophytic?

Comments To the north (320°) ~~community~~ is along stream. Forest community similar, but lacks the Staph. trifoliata & has Platanus occidentalis

To South East Chink oak more abundant. One tree on edge of this plot

Disturbance and animal use comments: Erosion (natural) - Some point along stream between plot & road.

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	70	CARYA OVALIS	.5-1m	10%
Understory T3	20-35	60	– Acer Sach	1-2m	20%
Tall shrub S1	2-5m	40	Ø Staph. trifoliata	2-5m	30%
Short shrub S2	1-2	20	Lindn Benz	5-10m	40%
Herbaceous	< .5	10	Pilea pumula	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana	20-35	5	Vitis sp	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): NOTE - one sapling of Juglans cinera, but not worth creating EO for such bad shape.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	5							ACER SACH.		
		4						FAG GRAN?		
	6							ULMUS AMERICANA		
						4		VITIS SP.		
			6					Lindera benzoin		
								~~CARINUS CARO~~		
			4					OSTRYA virg		
	7							Cary ovalis		
					5			MILIOSTEGIUM		
		5						Morus rubra		
					4			Eupatorium rugosum		
					4			Polygonatum virgin		
	4							Quercus michaux		
								~~CARYA OVALIS~~		
				4				ASIMINA TRILOBA		
					5			Pilea pumu		
			3					Ligustrum sinense *		
		3						Aesculus glabra (NEAR DEATH)		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

* Too big to pull out

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.444 **Page** 1

County: Lewis **Park:** NATR **Plot Code:** U47 **State:** AL MS TN **Location org:** NPS

Location name _____ **Provisional community name** ?? - See below 7261

Survey date: 9-28-05 **Surveyors:** Roger McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** 463762 E/W 3940776 N/S

GPS File Name U47A **Coordinate accuracy** 6.7 m / ft **DOP** _____ **# sats** 6 **Elevation** 281 m / ft

Directions or nearby Mile marker:
NEAR 395.

Measured Slope — ° 34 %

Measured Aspect 340 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC __*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded __Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand X Sandy loam __Sandy clay loam __Loam __Silt loam __Silt/ Silty clay loam __Silty clay __Clay __Muck __Peat

Drainage:
__Rapidly drained
X Well drained
__Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover

____% Bedrock	15 ~~20~~ % Litter, duff	____% Bryophyte/lichen
____% Large rocks (cobbles, boulders >10cm)	15 % Wood (> 1 cm)	60 % Other GRASSES - see back of sheet
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
X Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)
__ Evergreen
X Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community Chestnut oak xeric forest, but impacted by proximity to road (~60m upslope) which has allowed for an infestation of Microstegium.

?? - Qu. Prinus forest, but degraded w/ effects of Roadside.

Comments TOSE- Shrubby disturbed roadside w/ Litu, The Forest surrounding this spot in the other directions does not have the microstegium or diverse american component. Much higher Leaf Litter outside of plot.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	50	Quercus prinus	.5-1m	10%
Understory T3	10-15	10	CARYA ALBA LYSSA SYLVAT.	1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous	<.5	80%	Diarrhena americana	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana		<5%	PARTH QUIN.	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Close call as to whether dia. amer. or microstegium the dominant HERB.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8			3			8	Quercus prinus		
		4					4	CARYA alba		
		5					5	Nyssa sylvatica.		
					7		7	Microstegium		
					7		7	Diarrhena americana - ~~(lost check)~~	✓	
					5		5	Polystich. acrost.		
						3	3	Dioscor. quaternata		
				4			4	CERCIS CAN		
				4			4	LIRIO TULIP		
					4		4	TOT RAD		
					4		4	VITIS ROTUND		
				3			3	JUNI virgi.		
				3			3	DIOSP virgi.		
					4		4	VITIS ROTUND		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR.445 **Page** 1

County: Lewis **Park:** NATR **Plot Code:** 5 U49 **State:** AL MS (TN) **Location org:** NPS

Location name _____ **Provisional community name** ?? See below 7795

Survey date: 9-26-2005 **Surveyors:** Rog Mich

Datum WGS 84 **Lat/Long (decimal degrees):** 465526 E N 3943751 N W

GPS File Name U49A **Coordinate accuracy** 9.3 (m) / ft **DOP** _____ **# sats** 5 **Elevation** 278 (m) / ft

Directions or nearby Mile marker: South of 395 - Likely around 376/377

Measured Slope

_____° 11 %

Measured Aspect

80 ° (N = 0°)

* AT TOP, So ASPECT NOT BIG FACTOR

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : (DRY)-MESIC : MESIC

__*Palustrine* __*Lacustrine* __*Riverine*:

__Permanently flooded __Semipermanently flooded __Temporarily flooded

__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:

- __Sand X Sandy loam
- __Sandy clay loam
- __Loam __Silt loam
- __Silt/ Silty clay loam
- __Silty clay __Clay
- __Muck __Peat

Drainage:

- __Rapidly drained
- __Well drained
- __Moderately well drained
- __Somewhat poorly drained
- __Poorly drained
- __Very poorly drained

Ground cover

____% Bedrock	70 % Litter, duff	____% Bryophyte/lichen
____% Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____% Other _____
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:

- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)

- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class

- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community DRY white oak forest to east more Quercus prinus NW of Plot is maintained roadside. PLOT IS DRY, open w/ modestly sized mature Q. Al Trees. Smilax low, But somewhat thick in spots. Plot lacking the dominance of vaccinium but rather has Styrax in shrub layer. Chestnut possible co-dominant FOREST clearly a Q. Alb, w/ some prinus, but at this point prinus NOT the dominant Community seems transition between classic oak hickory & Quercus prinus.

Comments GPS wouldn't settle down" so got as close to original plot as possible

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	60	QUERCUS ALBA	.5-1m	10%
Understory T3	20-35	40	CARYA SPP.	1-2m	20%
Tall shrub S1	1-2m	40	STYRAX grandifolia	2-5m	30%
Short shrub S2	.5-1m	30	SMILAX ROTUND.	5-10m	40%
Herbaceous	<.5m	10	Mix- Desmodium SPP, Chem. mac., Solidago SP, CAREX SP, PANICUM BOSCI, BUT ALL @ LOW COVER	10-15m	50%
Non-vascular			Lichen on Living trees (TRACE)	15-20m	60%
Vine/liana			—	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): ELEGANS umb. IN plot (one small shrub). Picked up! NOTE: Although about 5 herbs could only be field determined to GENUS, NOT collected for cover of individual species seems - 2 species of Desmodium, 1 sp. of Sol. oAJO, panicum boscii, & unknown carex.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	5						Quercus alba		
			7					Styrax grandifolia		
	5			4				Quercus prinus		
				5				SMILAX ROTUND		
		5						CARYA glabra		
		4						CARA ALBA		
		4						CARA ovata var glabra var ovalis*		
			3					FRAX AMER.		
				4				QUERCUS VELUTINA		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

NOTE: Some treat C. glabra/ovalis as one. There are 2 C. glabra taxa here, one w/ 5 leaflets, the other w/ 7.

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.446 **Page** 1

County: LEWIS **Park:** NATR **Plot Code:** VS1 **State:** AL MS TN **Location org:** NPS

Location name _____ **Provisional community name** INTERIOR, MESIC white oak/hickory Forest 2070

Survey date: 9-24-05 **Surveyors:** Roger McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** 468864 **N** 3946206 **W**

GPS File Name ~~VS1~~ VS1A **Coordinate accuracy** 19.7 m / ft **DOP** _____ **# sats** 1-3 **Elevation** 289 m / ft

Directions or nearby Mile marker: NCNR MM 400 * poor accuracy but as w/ all plots 120 + points collected.

Measured Slope _____ ° 15 %

Measured Aspect 120 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : (MESIC)
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand __Sandy loam
__Sandy clay loam
__Loam __Silt loam
__Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
__Well drained
__Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover

____% Bedrock	50 % Litter, duff	____% Bryophyte/lichen
____% Large rocks (cobbles, boulders >10cm)	20 % Wood (> 1 cm)	____% Other _____
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)
- __Evergreen
- X Cold-deciduous
- __Mixed evergreen-cold-deciduous
- __Herb - Annual
- __Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __Woodland (open tree canopy)
- __Shrubland
- __Dwarf Shrubland
- __Herbaceous (less than 25% woody layers)
- __Nonvascular
- __Sparse Vegetation

Qualitative description of Community An oak/hickory forest w/ white oak most abundant oak. Forest is mature. White oak a major component but there is a nice mix of hickories, white ash, tulip tree and southern red oak.

Community does have red oak as an overstory component, it is common, but does not appear DOMINANT or SHARED domin. w/ Q. alba.

Q. alba is clearly the dominant species.

Comments – SIMILAR community in all directions from plot center. NE of plot, a bit more Liriodendron but not successional

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	60	Quercus alba	.5-1m	10%
Understory T3	10-15	40	Quercus alba	1-2m	20%
Tall shrub S1	2-5	30	NYSSA SYLVAT	2-5m	30%
Short shrub S2	.5-1	40	CARYA ALBA	5-10m	40%
Herbaceous	<.5	10	Amphicarpa bracteata	10-15m	50%
Non-vascular			Slight mosi on tree trunk	15-20m	60%
Vine/liana		5%	Parthino Quinq.	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): MATURE forest, nice structure & varied levels & good mixing species. FOREST contains some typical woodland herbs, but in Low numbers (Panicum, Scutellaria, desmodium, Christmas Fern.)				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	6		3			8	Quercus alba		
	5	4		4			6	CARYA GLABRA		
		5		5			6	ACER SACH		
					4		4	VITIS ROTUND.		
				5			5	CARYA ALBA		
				4			4	CERCIS CAN		
	5						5	FRAX AMERI		
	5			3			5	QUERCUS RUBRA		
				4			4	CARYA CORDIFORMIS		
					4	3	4	PARTH QUIN		
		4					4	FAGUS GRANDIFOLIA		
				3			3	PRUNUS SEROTINA		
				4			4	SASSAFRAS ALB		
			4				4	NYSSA SYLVAS		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: ***Plot Sampling Form***

NATR.447 **Page** 1

County: Lewis **Park:** NATR **Plot Code:** 448 **State:** AL MS TN **Location org:** NPS

Location name _____ **Provisional community name** CEGL007007

Survey date: 9-28-05 **Surveyors:** Roger McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** 463815 N 3940840 W

GPS File Name U48A **Coordinate accuracy** 7.4 m / ft **DOP** _____ **# sats** 4 **Elevation** 288 m / ft

Directions or nearby Mile marker: S. of mm 395

Measured Slope [redacted]° 45 %

Measured Aspect 212 ° (N=0°)

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: (XERIC) : DRY-MESIC : MESIC __*Palustrine* __*Lacustrine* __*Riverine*:

__Permanently flooded __Semipermanently flooded __Temporarily flooded __Seasonally flooded __Saturated __Irregularly flooded

Soil texture:

__Sand X Sandy loam __Sandy clay loam __Loam __Silt loam __Silt/ Silty clay loam __Silty clay __Clay __Muck __Peat

Drainage:

__Rapidly drained X Well drained __Moderately well drained __Somewhat poorly drained __Poorly drained __Very poorly drained

Ground cover

____% Bedrock	60 % Litter, duff	5 % Bryophyte/lichen
10 % Large rocks (cobbles, boulders >10cm)	____% Wood (> 1 cm)	____% Other _____
10 % Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:

X Broad-leaved __Needle-leaved __Graminoid __Broad-leaved herbaceous __Pteridophyte __Mixed

Leaf phenology (dominant stratum)

__ Evergreen X Cold-deciduous __ Mixed evergreen-cold-deciduous __ Herb - Annual __ Herb - Perennial

Physiognomic Class

X Forest (closed tree canopy) __ Woodland (open tree canopy) __ Shrubland __ Dwarf Shrubland __ Herbaceous (less than 25% woody layers) __ Nonvascular __ Sparse Vegetation

Qualitative description of Community CLASSIC, XERIC Chestnut oak forest.

The 2 Quercus prinus communities listed in the key don't seem to fit. This is pure Q. prinus - TREE ✓ - all other species not significant

Comments GPS unit behaving erratically & jumping around as much as 30 m. Area somewhat homogenous to this spot except to the SW is a disturbed area from the Road. It is a succession to Litter area w/ a heavy infestation of Microstegium & is characteristically moist from recent rains.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	40	Q. PRINUS	.5-1m	10%
Understory T3	15-20	20	" "	1-2m	20%
Tall shrub S1			—	2-5m	30%
Short shrub S2	.5-1	20	SMILAX ROTUND	5-10m	40%
Herbaceous		< 5	Dich dic. dic (Less than 2% cover)	10-15m	50%
Non-vascular		5	moss - Bright green on SANDSTONE	15-20m	60%
Vine/liana			—	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	6					8	QUERCUS prinus		
	4	4					5	Quercus alba		
				5			5	SMILAX ROTUND		
				4			4	VACCINIUM - ~~short grass stem~~ pallidum	✓	
				4			4	VACCINIUM sp ~~short grass leaves~~ ARBOREUM	✓	
				3				VACC. sp - ~~Slightly hairy~~ CORYMBOSUM	✓	✓
			3					NYSSA SYLVA		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR, 448

County: Mary Park: NATR Plot Code: 161 State: AL MS TN Location org: NPS

Location name _____ **Provisional community name** Successional RC Cedar? 7124

Survey date: 9-28-05 **Surveyors:** Roger McCoy

Datum WGS 84 Lat/Long (decimal degrees): 470750 E 3946311 N W

GPS File Name 161A Coordinate accuracy 4.3 m / ft DOP _____ # sats 3 Elevation 288m m / ft

Directions or nearby Mile marker: South of Old Tobacco BARN

Measured Slope
- ° 4 %

Measured Aspect
320 ° (N = 0°)
Nearly flat, so Aspect not as issue.

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand X Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

____ % Bedrock	20 % Litter, duff	10 % Bryophyte/lichen
____ % Large rocks (cobbles, boulders > 10cm)	5 % Wood (> 1 cm)	____ % Other _____
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- __ Broad-leaved
- __ Needle-leaved
- __ Graminoid
- X Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- __ Cold-deciduous
- X Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- __ Forest (closed tree canopy)
- X ~~Woodland~~ (open tree canopy)
- X Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community Open little bluestem patch. Successional in matrix w/ cedar, oxydendrum & elder & locust. To NE, area is more closed & edge of plot has some taller cedar trees.

Community is difficult to classify. area does have much grass, but trees do have some cover. Either successional RC cedar or Grassland w/ scrub. suggestions?

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	8-10*	30	mix- Acer R. Brum Jun. virg.	.5-1m	10%
Understory T3	2-5	30	Vaccinium arboreum	1-2m	20%
Tall shrub S1	1-2	20	Mix	2-5m	30%
Short shrub S2	.5-1	10	Vaccinium sp Corymbosum	5-10m	40%
Herbaceous	.5-1	40	Schiz. Scoparium	10-15m	50%
Non-vascular	<.5	5	ground lichen	15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): * one cedar tree @ ~20m tall but this is on edge of plot. Plot a rather high herb diversity, but in low numbers Various Fabaceous, Asteraceous plants present. Collections would have to be made do determine exact species, but cover is less than 2-5 o/o				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	5	5	4				7	Juniperus vir		
		5	4				6	Acer Rubrum		
					6		6	Schiz. scoparium		
					5		5	GRASS (Pume grass?) - SACCHARUM ALLOPECUROIDEUM	✓	
			6				6	Acer R. Brum		
			4				4	Pinus virgin		
			4	4			5	Rhus copalina		
			5				5	Oxydendron arboreum		
			5				5	Vaccinium - w/ berries - ARBOREUM?	✓	✓
			4				4	Vaccinium sp ← STAMINIUM; Large Leaves Co-USA Tall	✓	
				3			3	Vaccinium sp - Leaves Hairy CORYMBOSUM	✓	✓
				3			3	SMILAX glauca		
					4		4	Desmodium sp (No Reproductive structures Found)	✓	
			5				5	CORNUS FLORIDA		
					3		3	Antennaria plantag		
			3				3	Diospyros vir.		
				4				LIRIO TULIP.		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: ***Plot Sampling Form***

NATR.449 Page 1

County: Lewis Park: NATR Plot Code: U44 State: AL MS TN Location org: NPS

Location name _____ **Provisional community name** CEGL002070 - White oak/Red oak Dry mesic

Survey date: 9-28-05 **Surveyors:** Roger McCoy

Datum WGS 84 Lat/Long (decimal degrees): 460787 E 3935157 N W UTM 16

GPS File Name U44A Coordinate accuracy 4 m / ft DOP _____ # sats 4 Elevation 244 m / ft

Directions or nearby Mile marker: SOUTH OF OLD MINE SITE which is S. of 412

Measured Slope _____ ° 26 %

Measured Aspect 80 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- X Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC (→ dry mesic) : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
- __Sand __Sandy loam
- X Sandy clay loam
- __Loam __Silt loam
- __Silt/ Silty clay loam
- __Silty clay __Clay
- __Muck __Peat

Drainage:
- __Rapidly drained
- X Well drained
- __Moderately well drained
- __Somewhat poorly drained
- __Poorly drained
- __Very poorly drained

Ground cover

____% Bedrock	70% Litter, duff	____% Bryophyte/lichen
____% Large rocks (cobbles, boulders >10cm)	15 % Wood (> 1 cm)	____% Other _____
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

Mixed oak forest w/ Quercus rubra the dominant tree. This plot also has one large Quercus pagoda (Cherrybark oak) of 53.0 cm. dbh. This is the largest tree in the plot, but there are equally as big Q. rubra in surrounding forest.

Comments

Except for roadside to east (which is successional) has smaller trees of LiR io TuL, P), surrounding forest is similar. On east edge of plot (but outside) are more Q. alba.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	60	Quercus Rubra	.5-1m	10%
Understory T3	20-35	40	Quercus alba	1-2m	20%
Tall shrub S1	2-5	10	OSTRYA Virgin	2-5m	30%
Short shrub S2	.5-1	20	CARYA ~~Tomento~~ alba	5-10m	40%
Herbaceous	<.5	10	PANICUM BOSLII / Polystichum acrost!	10-15m	50%
Non-vascular			—	15-20m	60%
Vine/liana	1-2m	5	Vitis Rotund.	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Forest is very open, not many tall OR short shrubs!				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	5						5	Quercus pagoda		
	7						7	Q. rubra		
	*	6					6	Q. alba		
	5			4			5	CARYA ALBA		
			4				4	OSTRYA VIR.		
					4		4	Panicum boscii		
				4			4	Smilax rotund		
					4		4	Polystich. acrost.		
			4				4	Styrax grandifolia		
				4			4	Sassa. alb.		
		5					5	CORNUS FL		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR.450 **Page** 1

County: Lewis **Park:** NATR **Plot Code:** U45 **State:** AL MS TN **Location org:** NPS

Location name _____ **Provisional community name** ?? - SEE BELOW 4697

Survey date: 9-28-05 **Surveyors:** R. McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** 0461026 E 3936851 N UTM 2 16

GPS File Name U45A **Coordinate accuracy** 6.4 m / ft **DOP** _____ **# sats** 4 **Elevation** 216 m / ft

Directions or nearby Mile marker: NEAR RAMP TO HIGHWAY 412

Measured Slope

_____ ° _____ %

Measured Aspect

_____ ° (N = 0°)

FLAT

Topographic Position

__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
__ Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
X Low level (terrace)
__ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:

__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:

__ Sand __ Sandy loam
X Sandy clay loam
__ Loam __ Silt loam
__ Silt/ Silty clay loam
__ Silty clay __ Clay
__ Muck __ Peat

Drainage:

__ Rapidly drained
__ Well drained
__ Moderately well drained
__ Somewhat poorly drained
__ Poorly drained
__ Very poorly drained

Ground cover

____ % Bedrock
____ % Large rocks (cobbles, boulders > 10cm)
____ % Small rocks (gravel, 0.2-10 cm)
____ % Sand (0.1-2 mm)
____ % Litter, duff
15 % Wood (> 1 cm)
____ % Water
____ % Bare soil
____ % Bryophyte/lichen
____ % Other _____

Leaf type:

__ Broad-leaved
__ Needle-leaved
__ Graminoid
__ Broad-leaved herbaceous
__ Pteridophyte
__ Mixed

Leaf phenology (dominant stratum)

__ Evergreen
__ Cold-deciduous
__ Mixed evergreen-cold-deciduous
__ Herb - Annual
__ Herb - Perennial

Physiognomic Class

__ Forest (closed tree canopy)
__ Woodland (open tree canopy)
__ Shrubland
__ Dwarf Shrubland
__ Herbaceous (less than 25% woody layers)
__ Nonvascular
__ Sparse Vegetation

Qualitative description of Community Disturbed, Successional bottomland. Area is flat, so it was likely ~~then~~ cleared for farming. To the west is a steeper stream bank leading to the road's edge. It too is similar to this, but may a bit more C. occidentalis.

?? HARD to classify for very badly disturbed. At current condition, glediteia triacanthos/ Celtis occ. forest

Comments

Disturbance and animal use comments:

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1	35-50	10	Gleditsia triacanthos	< .5m	5%
Tree Canopy T2	20-35	30	CELTIS occident.	.5-1m	10%
Understory T3	5-10	40	Cornus Amomum	1-2m	20%
Tall shrub S1	1-2	20	" "	2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous	<.5	80	Microstegium	10-15m	50%
Non-vascular			—	15-20m	60%
Vine/liana	2-5	10	LON. JAP.	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6						6	Gleditsia triacan		
		6					6	Juglans nigra		
		7					7	Celt. occi		
			6	5			7	Cornus amomum (collected to be sure) !	✓	
			5				5	Lind. Benz		
		3					3	JUGLANS CINERA * *		
		4					4	morus rubra		
					4		4	Polygon virgin - (SMALL weed)		
					7		7	Verb. alternaflic		
					8		8	microstey.		
				4			4	ASIMINA TRILOBA		
					4		4	Elephantopus carolin.		
				3			3	Symphor orbicu		
						3	3	vitis sp		
						4	4	LON JAP		
		5					5	ACER NEGUNDO		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

* * ONE tree ~ 15 cm DBH Healthy

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR. 451

County: Lawrence **Park:** NATR **Plot Code:** T06 **State:** AL MS TN **Location org:** NPS

Location name _____ **Provisional community name** CEGL005033 Box Elder Flood Plain Forest

Survey date: 9-29-05 **Surveyors:** _____

Datum WGS 84 **Lat/Long (decimal degrees):** 453705 N 3919093 W

GPS File Name T06 **Coordinate accuracy** ~~10~~ 5 m / ft **DOP** _____ **# sats** 4 **Elevation** 230 m / ft

Directions or nearby Mile marker: South of Bridge over Little Buffalo River.

Measured Slope

_____ ° _____ %

Measured Aspect

_____ ° (N = 0°)

FLAT

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- ✓ Toeslope (alluvial toeslope)
- X Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : MESIC

✓ *Palustrine* __ *Lacustrine* __ *Riverine*:

__ Permanently flooded __ Semipermanently flooded ✓ Temporarily flooded

__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:

- __ Sand __ Sandy loam
- X Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:

- __ Rapidly drained
- __ Well drained
- __ Moderately well drained
- X Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

- ____ % Bedrock
- ____ % Large rocks (cobbles, boulders > 10cm)
- ____ % Small rocks (gravel, 0.2-10 cm)
- ____ % Sand (0.1-2 mm)
- ____ % Litter, duff
- ____ % Wood (> 1 cm)
- ____ % Water
- ____ % Bare soil
- ____ % Bryophyte/lichen
- 15 % Other HERB COVER

Leaf type:

- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)

- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class

- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community Flood plain Forest along little Buffalo River. At plot, overstory of Acer negundo. No Shrubs, no saplings, but massive HERB cover, mainly of Verb. altemifolia, but also Synosma suaveolans, a TN listed plant.

Comments Plot added because this was a Tenn. Reg. state natural area.

Disturbance and animal use comments: Flooding

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	4b	ACER NEGUNDO -	.5-1m	10%
Understory T3		4a	" "	1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous	1-2m	100	Verbesina alternifolia	10-15m	50%
Non-vascular		~~100~~		15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): Not Tallest trees in plot, not Acer Negundo, but celtis occ. which is on the edge. Some Acer Negundo trees up to 51.0cm DBH, but most smaller				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6							ACER NEGUNDO		
	4							CELTIS occident.		
					6			Cacalia atriplicifolia		
					5			Synosma suaveolens*		
					4			Bohemeria cylindrica		
					2			Polygonum virgin		
					7			Verbesina alternifolia		
					8			Microstegium*		
	4							Juglans nigra		
					4			Arundinaria gigantea		
					3			Polygonum ~~sp~~ ~~caes~~ cespitosum*	✓	✓

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

* Rare plant

* EXOTIC PLANT

NATR.452 Page 1

NPS GULF COAST PROJECT: *Plot Sampling Form*

County: Lawrence or Lewis (On Line?) Park: NATR Plot Code: V40 State: AL MS TN Location org: NPS

Location name _____ Provisional community name ??- Sm Lblw. 7244

Survey date: 9-29 2005 Surveyors: Rose McCoy

Datum WGS 84 Lat/Long (decimal degrees): 455206 N 3919635 W

GPS File Name V40A Coordinate accuracy 5 m / ft DOP _____ # sats 5 Elevation 309 m / ft

Directions or nearby Mile marker:
N. of MM 375

Measured Slope
_____ ° 6 %

Measured Aspect
230 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: (XERIC) : DRY-MESIC : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand X Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

____ % Bedrock	70 % Litter, duff	____ % Bryophyte/lichen
5 % Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____ % Other _____
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community

DRY OAK FOREST. Post oak the main tree, but there is some Q. alba white oak. Edge of plot (but overlapping) contains Quercus PRINUS (20° from plot center) & some BLACK-JACK OAK on edge of plot too. Plot is high quality with mix of dry oaks, no exotics & the mix differing age classes

NE of plot center there is a Juv. VIRG. Pinus virg. & some more Q. prinus

?? - As w/ the other Q. stellata communities - I cannot seem to find it in the key provided.

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:**_____ **State:** AL MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	20-35	40	Quercus stellata	.5-1m	10%
Understory T3	15-20	40	~~CARYA PALLIDA~~ Q. coccinea, earlier	1-2m	20%
Tall shrub S1	2-5m	30	Vacc. arboreum - collected ✓ to be sure	2-5m	30%
Short shrub S2	.5-1	<5%	SMILAX ROTUND	5-10m	40%
Herbaceous		<5%	Scant graminoid (Danthonia Spicata)	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana	1-2		SMILAX ROTUND	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6						6	Quercus stellata		
	6	4					6	Quercus alba		
	5						5	Quer. marilandica		
	5	4					5	CARYA ALBA		
			6				6	Vaccinium ARBOR.: (shiny leaves - collected earlier)	✓	
				6		3	6	SMILAX ROTUND		
					3		3	DANthonia Spicata*	✓	
		6					6	Quercus coccinea		
	4						4	Quercus prinus (edge of plot)		
				4				VACC. Sp (thicker than - collected earlier	✓	
								↳ CORYMBOSUM		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

* Seems to be only herb

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR.453 **Page** 1

County: Lewis **Park:** NATR **Plot Code:** U43 **State:** AL MS (TN) **Location org:** NPS

Location name _____ **Provisional community name** See below CEGL007246

Survey date: 9-~~May~~ 29-05 **Surveyors:** Ray McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** 459450 E 3930431 N

GPS File Name U43A **Coordinate accuracy** 8.6 m / ft **DOP** _____ **# sats** 4 **Elevation** 195 m / ft

Directions or nearby Mile marker: Just South of Little Swan creek, North of Lewis monument area

Measured Slope — ° 11 %

Measured Aspect 38 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : (DRY-MESIC) : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand __ Sandy loam
- X Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- __ Well drained
- X Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

____ % Bedrock	40 % Litter, duff	____ % Bryophyte/lichen
____ % Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____ % Other _____
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:
- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community Mesic to dry mesic forest. Area appears to be a bit successional, but in later successional Reasons for this are some remaining understory Juv. virg. trees.

How to determine if presence of Liriodendron is successional or not. Plot contains 6 mature-open grown post oak, this with the Juv. virg. indicate past clearing. Indications of succession based on tree species, but area is not "trashy" or overly brushy. Seems a mix of transitional community & succession. Surrounding forest looks similar. Southeast of plot is steep road cut.

Community either; Southern red oak / white oak mixed (CEGL007244)

OR A CEGL007221 - Interior mid-lch successional Tulip tree Hardwood uplands.

My Feelings are 007244 fit better but there is some succession w/ the tulip tree & cedar.

Comments GPS behaving a bit weird. Got as close to actual plot center as possible, Chilly @ 9 am.

Disturbance and animal use comments: Dogwood Anthracnose.

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:**_____ **State:** AL MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	50	LIRIO TULIP	.5-1m	10%
Understory T3	5-10	20	OSTRY. virgin.	1-2m	20%
Tall shrub S1	2-5	30	" "	2-5m	30%
Short shrub S2	1-2	20	Ramnus caroliw.	5-10m	40%
Herbaceous	.5-1	40	Diarrhena	10-15m	50%
Non-vascular			Trace moss on trees	15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6						6	LIRIO TULIP		
	5						5	Quercus stellata		
	4						4	Quercus alba		
		5	4				5	Ostrya vir.		
			5	5			6	Ramnus caroli.		
					6		6	Diarrhena americana (collected earlier)	✓	
					6		6	Chasmanthium latum " "	✓	
					5		5	Amphicarpa bracteata		
			3	4			4	Fag. americana		
			5				5	Carnus florida		
	4							CARYA ALBA		
		5						J. virgin.		
	4							CARYA PALLIDA		
				5				Acer sach.		
			3					Ilex ? - Collected last week. Deciduous stem - almost thorny	✓	
				3				Vaccinium sp (collected earlier) - green stem, leaves sleveted	✓	
					3	3	4	Tox rad ssp pallidum		
		4						CARPINUS		
				4			4	Quercus (Red OAK group)		
	6							Quercus falcata		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.454 Page 1

County: Lewis, but near Lawrence co line. Park: NATR Plot Code: U37 State: AL MS TN Location org: NPS

Location name _____ **Provisional community name** CEGL007795

Survey date: 9-29-05 **Surveyors:** Roger McCoy

Datum WGS 84 Lat/Long (decimal degrees): E 452782 N 3918611 N W UTM 2 16

GPS File Name U37A Coordinate accuracy 8.1 m / ft DOP _____ # sats 4 Elevation 259 m / ft

Directions or nearby Mile marker:
South of Jack's Branch Picnic Area

Measured Slope — ° 13 %

Measured Aspect 70 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC __*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded __Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand __Sandy loam __Sandy clay loam __Loam __Silt loam __Silt/ Silty clay loam __Silty clay __Clay __Muck __Peat

Drainage:
__Rapidly drained __Well drained __Moderately well drained __Somewhat poorly drained __Poorly drained __Very poorly drained

Ground cover
- ____% Bedrock
- ____% Large rocks (cobbles, boulders >10cm)
- ____% Small rocks (gravel, 0.2-10 cm)
- ____% Sand (0.1-2 mm)
- 50 % Litter, duff
- 15 % Wood (> 1 cm)
- ____% Water
- ____% Bare soil
- ____% Bryophyte/lichen
- ____% Other _____

Leaf type:
- X Broad-leaved
- __Needle-leaved
- __Graminoid
- __Broad-leaved herbaceous
- __Pteridophyte
- __Mixed

Leaf phenology (dominant stratum)
- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community Moderately open forest w/ a dominance of hickory in the overstory ONLY one tree of OAK seen. Since the community key relies heavily on oaks (2 would well most of time) unsure how to classify. Likely DRY to dry-mesic forest, but for some reason few oaks. The dogwoods were common in understory & appear healthy.

Comments Several individuals of Hickory present. All were looked at, and as best I could tell, all were Carya alba. This seems strange, but all seemed to have hairy twigs, ~~yellowish~~ ~~CARYA PALLIDA~~. Judging from some nuts on ground, some trees are Carya pallida

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	60	CARYA ALBA	.5-1m	10%
Understory T3	5-10		CORNUS FL	1-2m	20%
Tall shrub S1	2-5	30	CORNUS FL	2-5m	30%
Short shrub S2	.5-1	30	SAS. ALB.	5-10m	40%
Herbaceous		5 %	SCANT Graminoid ↗ but NO species dominant	10-15m	50%
Non-vascular			SCANT MOSS	15-20m	60%
Vine/liana	2-5	5 %	TOY RAD	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): The abundance of CARYA is interesting. The dogwoods all seem healthy.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6	6		4			7	CARYA ALBA* – SEE NOTE IN COMMENTS.		
		5					5	QUERCUS R-BRA		
			4	6			6	SAS PER.		
				4			4	RHAMNUS CAROLIN		
				4			4	SMILAX ROTUND		
				3			3	VACCINIUM sp (hairy stem) corymbosum Collected earlier	~	
		4		3			4	LI D. STYRAC.		
			6				6	CORNUS FL.		
								~~CARYA GLABRA var. SUMOS~~		
			4				4	OSTRYA VIRGIN.		
						3	3	TOY RAD		
	5						5	LIRIO TULIP.		
					3		3	MONARDA sp (not collected because SCANT AMOUNT)		
					2		2	SCUTT. sp " "		
			3				3	CRATAEGUS sp		
			4				4	Oxydendron arbor.		
	5						5	CARY Pallida		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.455 **Page** 1

County: Lewis **Park:** NATR **Plot Code:** U38 **State:** AL MS (TN) **Location org:** NPS

Location name _____ **Provisional community name** CEGL002551

Survey date: 9-29-05 **Surveyors:** Rose Mack

Datum WGS 84 **Lat/Long (decimal degrees):** 453420 E 3919311 N UTM 2 k

GPS File Name U38A **Coordinate accuracy** 6 m / ft **DOP** _____ **# sats** 6 **Elevation** 246 m / ft

Directions or nearby Mile marker: South of Bridge Across Little Buffalo River (River not named on NPS map), South of Wapiti Mine.

Measured Slope
— ° 3 %

Measured Aspect
? 280° (N=0°)
Top of Hill
No aspect.

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- X High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : ~~DRY-MESIC~~ : MESIC
__ *Palustrine* __ *Lacustrine* __ *Riverine*:
__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded
__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:
- __ Sand X Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- __ Silt/ Silty clay loam
- __ Silty clay __ Clay
- __ Muck __ Peat

Drainage:
- __ Rapidly drained
- X Well drained
- __ Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

____% Bedrock	30% Litter, duff	____% Bryophyte/lichen
____% Large rocks (cobbles, boulders >10cm)	20% Wood (> 1 cm)	____% Other _____
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
- __ Broad-leaved
- X Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)
- X Evergreen
- __ Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class
- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community Stand of virginia pine. Although planted rows are not readily visible, pine so dominant, it is hard to imagine this is natural. Size class uniform, all around 30 cm dbh. Good soil, open & easy to walk through this forest.

Total virginia pine, most shrubs present listed on back, but they are insignificant in this community

Comments Note - GPS unit indicates on NPS prop., but Boundary marker is actually in plot. On edge of NPS & other property

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	60	Pinus virg.	.5-1m	10%
Understory T3	2-5	<10%	Mix - this could just be considered tall shrub	1-2m	20%
Tall shrub S1	1-2	5 %	Sassyfrass	2-5m	30%
Short shrub S2	.5-1	5%	S. Vaccinium spp	5-10m	40%
Herbaceous	.5-1	20	Chesmanthium Latum (mainly on S½ of plot)	10-15m	50%
Non-vascular			[illegible]	15-20m	60%
Vine/liana		<5%	Smilax glauca	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): A good number of broadleaved woody species, but all in Low % cover.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	8						8	Pinus virg.		
			3	4			4	FRA Amer.		
				3			3	Quercus velutina		
				2			2	Ostrya virgin		
				1			1	Rhamnus Caro.		
				4			4	Sassafras alb		
				3			3	Vaccinium sp (green stem, collected earlier) pallidum-	✓	✓
				2			2	Lindera benzoin		
			3				3	CARYA ALBA		
				2			2	SMILAX ROTUND		
					4		4	C[illegible] (collected earlier) – SACCHARUM ALOPECUROIDEUM	✓	✓
					6		6	Chas man thium LATUM (collected earlier)	✓	
					4		4	Polystichum acrostichoides		
				2			2	Albizzia juli		
			2				2	Oxydendron arbor.		
			2				2	Vacc. arboreum (collected earlier!)	✓	✓
						2	2	Smilax glauca		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

Note - Species listed even though < Cover class 4, just to give an idea.

NPS GULF COAST PROJECT: *Plot Sampling Form*

NATR.456 Page 1

County: Lewis/Lawrence Co Line Park: NATR Plot Code: U39 State: AL MS TN Location org: NPS

Location name _____ **Provisional community name** CEGL007795- DRY-mesic - white oak/hickory Forest **

Survey date: 7-29-05 **Surveyors:** Roger McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** 454402 N 3919133 W

GPS File Name U39A **Coordinate accuracy** ±16 (m) / ft **DOP** _____ **# sats** 4 **Elevation** 269 (m) / ft

Directions or nearby Mile marker:

South of NAPIER MINE

Measured Slope

_____ ° 20 %

Measured Aspect

350 ° (N=0°)

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : (MES)IC __*Palustrine* __*Lacustrine* __*Riverine*:

__Permanently flooded __Semipermanently flooded __Temporarily flooded __Seasonally flooded __Saturated __Irregularly flooded

Soil texture:

__Sand __Sandy loam __Sandy clay loam X Loam __Silt loam __Silt/ Silty clay loam __Silty clay __Clay __Muck __Peat

Drainage:

__Rapidly drained X Well drained __Moderately well drained __Somewhat poorly drained __Poorly drained __Very poorly drained

Ground cover

____% Bedrock	20 % Litter, duff	____% Bryophyte/lichen
____% Large rocks (cobbles, boulders >10cm)	30 % Wood (> 1 cm)	____% Other _____
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:

X Broad-leaved __Needle-leaved __Graminoid __Broad-leaved herbaceous __Pteridophyte __Mixed

Leaf phenology (dominant stratum)

__Evergreen X Cold-deciduous __Mixed evergreen-cold-deciduous __Herb - Annual __Herb - Perennial

Physiognomic Class

X Forest (closed tree canopy) __Woodland (open tree canopy) __Shrubland __Dwarf Shrubland __Herbaceous (less than 25% woody layers) __Nonvascular __Sparse Vegetation

Qualitative description of Community

Overstory of white oak, but area seems more mesic than other white oak stands. PLot center & plot is dense w/ saplings. Giving understory a brushy appearance. the dominant sapling is sassafrass, but there is a large amount of Carex glabra.

An unknown sedge forms tufts in the herb layer. Author will search for specimen w/ flower or fruit, but none obvious this sedge is likely common & appears abundant in the area along stream to the North. Plot center open as it relates to the overstory (canopy gap) That is why saplings so thick. CANOPY gap 710 years ago (estimate based on decayed wood)

** Forest is on more mesic side, but still white oak forest.

Comments TO NORTH IS ALONG A STREAM. This area is LOWLAND & CINNAMON FERN & Royal FERN were dominant

Disturbance and animal use comments:

NOTE @ 14:22 photo taken of sedge

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:**_____ **State:** AL MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	50+	40*	QUERCUS alba -	.5-1m	10%
Understory T3	35-50	30	CARYA ALBA	1-2m	20%
Tall shrub S1	5-10	40	CORNUS FLOR	2-5m	30%
Short shrub S2	1-2	60	SASS. ALB	5-10m	40%
Herbaceous	<.5	60	UNKNOWN CAREX	10-15m	50%
Non-vascular		5	MOSS ON ~~dead~~ dead wood	15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): * Light elsewhere, but gap in plot's canopy. Interesting that no maple found.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	QUERCUS ALBA		
		6					6	CARYA ALBA		
	5		6				7	CARYA GLABRA		
		4	4				4	OXYD. ARBOR.		
					6		6	Dichanthelina americana (collected entire) !	✓	✓
				4			4	CARYA PALIDA		
				3			3	SMILAX GLAUCA		
			6	6			7	SASS. ALBID.		
	-	4	5				6	CORNUS FLOR		
			4				4	OSTRYA VIRG.		
			7	4			7	STYRAX GRAND		
		4	4	3			5	FAGUS GRAND		
					6		6	CAREX SP*		
					4		4	PANICUM BOSCII		
					4		4	Adiantum pedatum		
					4		4	Polystichum acrosti		

Cover cls	
1	trace
2	0.1-1%
3	1-2%
4	2-5%
5	5-10%
6	10-25%
7	25-50%
8	50-75%
9	75-95%
10	>95%

* Abundant, but no reproductive structures seen

NPS GULF COAST PROJECT: ***Plot Sampling Form***

NATR.457 **Page** 1

County: Lewis **Park:** NATR **Plot Code:** V41 **State:** AL MS (TN) **Location org:** NPS

Location name _____ **Provisional community name** CEGL007244 So. Red oak/ white oak mix.

Survey date: 9-29-05 **Surveyors:** Rose McCoy

Datum _WGS 84_ **Lat/Long (decimal degrees):** 457105 N 39245 48 W

GPS File Name V41 A **Coordinate accuracy** 6 (m) / ft **DOP** _____ **# sats** 4 **Elevation** 257 (m) / ft

Directions or nearby Mile marker: S. of Metal Ford turn in.

Measured Slope

____ ° 10 %

Measured Aspect

220 ° (N=0°)

Topographic Position

__ Interfluve (Ridge, summit or crest)
__ High Slope (upper slope, convex slope)
X Midslope (middle slope)
__ Lowslope (lower slope, footslope)
__ Toeslope (alluvial toeslope)
__ Low level (terrace)
__ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:

__Sand X Sandy loam
__Sandy clay loam
__Loam __Silt loam
__Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:

__Rapidly drained
X Well drained
__Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover

____% Bedrock
5 % Large rocks (cobbles, boulders >10cm)
5 % Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
70 % Litter, duff
5 % Wood (> 1 cm)
____% Water
____% Bare soil
____% Bryophyte/lichen
____% Other _____

Leaf type:

X Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)

__Evergreen
X Cold-deciduous
__Mixed evergreen-cold-deciduous
__Herb - Annual
__Herb - Perennial

Physiognomic Class

X Forest (closed tree canopy)
__Woodland (open tree canopy)
__Shrubland
__Dwarf Shrubland
__Herbaceous (less than 25% woody layers)
__Nonvascular
__Sparse Vegetation

Qualitative description of Community Overstory mix of Quercus falcata & Q. alba. Fairly mature forest, b.t a noticable amount of beech & maple in understory. A wet weather convergence flows ~220° from plot center. Surrounding forest fairly uniform, b.t maintained roadside ~60m @ 60°.

Keyed easily to community mentioned above.

Comments

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park:** NATR **Plot Code:**_____ **State:** AL MS TN **Location org:** NPS

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	50%	MIX of Q. FALCATA & ALBA	.5-1m	10%
Understory T3	20-35	60%	LIRIO TULIP.	1-2m	20%
Tall shrub S1	5-10	40	NYSSA SYLVAT Nothing very dominant, different to determine	2-5m	30%
Short shrub S2	2-5	30%	& SASS. ALB.	5-10m	40%
Herbaceous	<.5	20%	Microstegium	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana	15-20	5	TOX RAD	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): NOTE: Microstegium limited to the wet-weather convergence near plot center. Otherwise dominant herb a fine-leaved CAREX sp. NOTE: The PRUNUS spp Saplings are basal sprouts from dead saplings.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6						6	Quercus Falca		
	6			5			7	" alba		
			4				4	Fagus grand		
			5	5			6	Sass. alb.		
			5				5	Acer rubrum		
				5			5	Acer Sach		
		5					5	Lirio Tulip		
		5		4			5	CARYA ALBA		
			5				5	Oxydr. arbor		
			5				5	CORNUS FLOR		
				4			4	Ilex sp? (collected other spots) Deciduus!	✓	✓
				3			3	Elaphantopus tomentos.		
			4	5			5	PRUNUS SP (collected LAST week) SEROTINA!	✓	
				3			3	Vaccinium sp 'PALLIDUM' - collected last week.	✓	
				3			3	FRAX AMER		
			4				4	Ostrya virgin		
						3		TOX RAD		
				3				SMILAX SPP		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR.458

County: Lewis Park: NATR Plot Code: TØ5 State: AL MS TN Location org: NPS

Location name _____ Provisional community name CEGL002070* - See below

Survey date: 9-29-05 Surveyors: R. McCoy

Datum WGS 84 Lat/Long (decimal degrees): 456392 E 3924499 N 17m 2 16

GPS File Name TØ5 Coordinate accuracy 9.2 m / ft DOP _____ # sats 3 Elevation 237 m / ft

Directions or nearby Mile marker:
METAL FORD AREA ALONG BUFFALO RIVER

Measured Slope *
– ° 15 %

Measured Aspect
20 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC
__*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand __Sandy loam
__Sandy clay loam
X Loam __Silt loam
__Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
X Well drained
__Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover

____% Bedrock	50 % Litter, duff	____% Bryophyte/lichen
____% Large rocks (cobbles, boulders >10cm)	20 % Wood (> 1 cm)	____% Other _____
____% Small rocks (gravel, 0.2-10 cm)	____% Water	
____% Sand (0.1-2 mm)	____% Bare soil	

Leaf type:
X Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)
__Evergreen
X Cold-deciduous
__Mixed evergreen-cold-deciduous
__Herb - Annual
__Herb - Perennial

Physiognomic Class
X Forest (closed tree canopy)
__Woodland (open tree canopy)
__Shrubland
__Dwarf Shrubland
__Herbaceous (less than 25% woody layers)
__Nonvascular
__Sparse Vegetation

Qualitative description of Community * Slope % measured in direction of Aspect. Plot is within a small Ravine which slopes up on 3 sides. Slope % a bit steeper on ~~post~~ sides perpendicular to aspect. Predominately a white oak forest, upslope portion of plot (To SE) has rather thick understory of Sugar maple. To the N is the bluffs of Buffalo River. Outside of Plot, but on N edge there is a thick growth of Kalmia latifolia. Some of these & shrubs are within the plot, but overall it seems to be a white oak forest w/ Acer sacch. in understory.

* Classified as white oak - dry mesic forest. However over time, it seems Maple will become more important & round the canopy.

Comments PLOT ADDED Because this area is a Registered STATE NATURAL AREA

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	60%	QUERCUS ALBA	.5-1m	10%
Understory T3	20-35	20	CARYA GLABRA & C. ALBA	1-2m	20%
Tall shrub S1	5-10	40	ALER SALA	2-5m	30%
Short shrub S2	2-5	50	" " (Thick at east of center	5-10m	40%
Herbaceous	15-1	20	DIARRHA AMERICA -	10-15m	50%
Non-vascular			TRACE MOSS ON TREES & OLD STUMPS	15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7						7	QUERCUS ALBA		
	5						5	QUERCUS RUBRA		
		5					5	FRAX AMER		
		6					6	CARYA ALBA		
		6		4			6	" GLABRA		
		5	6	7			8	ALER SALA		
			5	4			5	ALER R.BR.		
			4				4	OSTRYA VIRG.		
				4			4	SASSA. ALBIDUM		
				5			5	LIRO TULIP		
				4			4	LIQ. STYRAC		
			5				5	KALMIA LATIFO		
			4				4	CORNUS FLOR		
					5		5	DIARRHENA AMERICAN		
					4		4	COLLINSONIA CANADENSIS		
		4	M				4	OXYDENDRON ARBOREUM		
				3			3	STYRAX GRANDI		
					3		3	AMPHICARPA BRACT.		
					4		4	VITIS ROTUND		
								~~ALALIA? SP~~		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: *Plot Sampling Form* NATR,459 **Page** 1

County: Lewis **Park:** NATR **Plot Code:** T04 **State:** AL MS TN **Location org:** NPS

Location name _____ **Provisional community name** See Below? 2070

Survey date: 9-29-05 **Surveyors:** Roger Mack

Datum WGS 84 **Lat/Long (decimal degrees):** 456488 **N** 3924469 **W**

GPS File Name T04 **Coordinate accuracy** 5.8 m / ft **DOP** _____ **# sats** 5 **Elevation** 230 m / ft

Directions or nearby Mile marker:

Metal Ford area.

Measured Slope

_____ ° 55 %

Measured Aspect

240 ° (N=0°)

Topographic Position

- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- __ Midslope (middle slope)
- X Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __ *Upland*: XERIC : DRY-MESIC : (MESIC)

__ *Palustrine* __ *Lacustrine* __ *Riverine*:

__ Permanently flooded __ Semipermanently flooded __ Temporarily flooded

__ Seasonally flooded __ Saturated __ Irregularly flooded

Soil texture:

- __ Sand __ Sandy loam
- __ Sandy clay loam
- __ Loam __ Silt loam
- X ~~Silt/ Silty clay~~ loam
- __ Silty clay __ Clay
- __ Muck __ Peat
- X CLAY LOAM

Drainage:

- __ Rapidly drained
- __ Well drained
- X Moderately well drained
- __ Somewhat poorly drained
- __ Poorly drained
- __ Very poorly drained

Ground cover

____ % Bedrock	20 % Litter, duff	____ % Bryophyte/lichen
____ % Large rocks (cobbles, boulders >10cm)	10 % Wood (> 1 cm)	____ % Other _____
____ % Small rocks (gravel, 0.2-10 cm)	____ % Water	
____ % Sand (0.1-2 mm)	____ % Bare soil	

Leaf type:

- X Broad-leaved
- __ Needle-leaved
- __ Graminoid
- __ Broad-leaved herbaceous
- __ Pteridophyte
- __ Mixed

Leaf phenology (dominant stratum)

- __ Evergreen
- X Cold-deciduous
- __ Mixed evergreen-cold-deciduous
- __ Herb - Annual
- __ Herb - Perennial

Physiognomic Class

- X Forest (closed tree canopy)
- __ Woodland (open tree canopy)
- __ Shrubland
- __ Dwarf Shrubland
- __ Herbaceous (less than 25% woody layers)
- __ Nonvascular
- __ Sparse Vegetation

Qualitative description of Community Amixture of mesic-forest species. At first glance, nothing a clear dominant. Herb layer somewhat well developed but most species @ a low cover or graminoids w/o fruit/flower. Forest mature, but trees not huge. Understory open.

? keys to Interior Beech / white oak forest. - no Beech here. more of a maple/white oak

Comments PLOT T04 added because this site is a registered state natural area. CAN see Buffalo River FROM PLOT. SURROUNDING forests similar, except to SW (but well OUT OF PLOT There is an old roadway which is open. This seems to be the historic Ford across river Area is open w/ LOTS of microtopography.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: *Plot Sampling Form*

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	80	ACER SACH. (BUT QUAL CLOSE)	.5-1m	10%
Understory T3	10-15	30	OSTRIA VIRGIN	1-2m	20%
Tall shrub S1	2-5	20	ACER ~~RUBRUM~~ SACH	2-5m	30%
Short shrub S2	1-2	40	" "	5-10m	40%
Herbaceous	<.5	70	BIGNONIA CAPRIOLATA- Behaving as HERB.	10-15m	50%
Non-vascular		5	MOSS/LICHEN ON TREES	15-20m	60%
Vine/liana	2-5	10	Bignonia CAPRIOLATA	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): The abundance of Big. Caprio. is interesting. One of the most diverse plots I have sampled.				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	7	4	5	5			8	ACER SALH.		
	6			2			6	QUERCUS ALBA		
	6						6	QUERCUS RUBRA		
		4	4				5	OSTRYA VIRG.		
	5			4			5	FRAX AMERIC		
			3				3	ULMUS RUBRA		
	5							QUERCUS MUHLENBERGII		
		4		2				CARYA ALBA		
	5							PRUNUS SEROT		
				3				RAMNUS CAROL		
			3					CORNUS FLORIDA		
				2				CELTIS OCCIDENTALIS		
				2				CERCIS CAN.		
				2				FAGUS GRAND		
			3					ULMUS AMERICA.		
			3					AMELANCHIER ARBOREA		
	5							LIR. STYRAC		
				4				SASS. ALBIDUM		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NOTE: MANY HERBS VERY LOW COVER, IF I CAN I.D W/O collecting it I will List

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR.459 **Page** 3

County: Lewis **Park:** NATR **Plot Code:** T04 **State:** AL MS TN **Location org:** NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

List ONLY dominant or diagnostic species, and mark ONLY those strata at which they are dominant, but consider all strata when giving total cover.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					7	4	7	BIGNON. CAPRIO		
					5		5	POLYST. ACHROS		
					4		4	PANICUM BOSCII		
					4		4	AGRIMON ROST		
					4		4	PARTH QUIN		
					2		2	DIAREN. AMERILA		
				2			2	HYDRANGEA & M. ARBOR		
				2			2	VACC. SP (PALLIDUM)	✓	✓
					4		4	VITIS ROTUND		
				4				SMILAX ROTUND		
					2			COREOPSIS SP		
				1				RIBES SP		
					4			TOX RAD		
					4			AMPHICARPA BRACTE.		
					3			EUONYMOUS AMERICA		
					2			ASplenium PLATY		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T2: Tree Can

T3 Subcanopy

S1 Tall Shrub (>1m; to 5m)

S2 Short Shrub (< 1m)

H Herbaceous

V Vines (lianas)

NOTE - NUMEROUS OTHER UNKNOWN GRAMINOID Present, but @ Low Cover

NPS GULF COAST PROJECT: ***Plot Sampling Form*** NATR.460 **Page** 1

County: Lewis **Park:** NATR **Plot Code:** U42 **State:** AL MS (TN) **Location org:** NPS

Location name _____ **Provisional community name** ?? - See below CEGL004697

Survey date: 9-29-05 **Surveyors:** Roger McCoy

Datum WGS 84 **Lat/Long (decimal degrees):** 459547 N 3930322 W **UTM** 16

GPS File Name U42A **Coordinate accuracy** 5.9 m / ft **DOP** _____ **# sats** 4 **Elevation** 221 m / ft

Directions or nearby Mile marker:

Measured Slope — ° 11 %

Measured Aspect 300 ° (N=0°)

Topographic Position
- __ Interfluve (Ridge, summit or crest)
- __ High Slope (upper slope, convex slope)
- X Midslope (middle slope)
- __ Lowslope (lower slope, footslope)
- __ Toeslope (alluvial toeslope)
- __ Low level (terrace)
- __ Channel bed

Cowardin System __*Upland*: XERIC : DRY-MESIC : MESIC __*Palustrine* __*Lacustrine* __*Riverine*:
__Permanently flooded __Semipermanently flooded __Temporarily flooded
__Seasonally flooded __Saturated __Irregularly flooded

Soil texture:
__Sand __Sandy loam
X Sandy clay loam
__Loam __Silt loam
__Silt/ Silty clay loam
__Silty clay __Clay
__Muck __Peat

Drainage:
__Rapidly drained
__Well drained
X Moderately well drained
__Somewhat poorly drained
__Poorly drained
__Very poorly drained

Ground cover
____% Bedrock
____% Large rocks (cobbles, boulders >10cm)
____% Small rocks (gravel, 0.2-10 cm)
____% Sand (0.1-2 mm)
10 % Litter, duff
____% Wood (> 1 cm)
____% Water
____% Bare soil
____% Bryophyte/lichen
80+% Other Herb cover

Leaf type:
X Broad-leaved
__Needle-leaved
__Graminoid
__Broad-leaved herbaceous
__Pteridophyte
__Mixed

Leaf phenology (dominant stratum)
__Evergreen
X Cold-deciduous
__Mixed evergreen-cold-deciduous
__Herb - Annual
__Herb - Perennial

Physiognomic Class
__Forest (closed tree canopy)
X Woodland (open tree canopy)
__Shrubland
__Dwarf Shrubland
__Herbaceous (less than 25% woody layers)
__Nonvascular
__Sparse Vegetation

Qualitative description of Community

Successional hillside. Area likely cleared in past for ag use.
Similar to plot sampled on 9-28 w/ Celtis, Gleditsia, & Jug. nigra.
Upslope (to east) some very large, open grown trees. - Quercus & Acer saccharum

?? - No obvious community fit. Is this an early Juglans nigra successional forest?
Judging from surrounding open-grown trees, my guess is that w/o disturbance, this site would
have been a Quercus alba/Acer saccharum forest.

Comments

NOTE: Plot may differ from actual pre-assigned plot. GPS giving high error @ times. 120 points taken to average.
SURROUNDING FOREST TYPES SIMILAR except down slope (300°) slope steeper & forest more
mature w/ QUAL & LIRTUL mix.

Disturbance and animal use comments:

NPS GULF COAST PROJECT: ***Plot Sampling Form***

County:_____ **Park: NATR** **Plot Code:**_____ **State: AL MS TN** **Location org: NPS**

QUANTITATIVE VEGETATION SAMPLE collected from a circle 11.3m in radius, 400 m² area, with GPS point at center.

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent T1				< .5m	5%
Tree Canopy T2	35-50	30	JUGL. NIGRA	.5-1m	10%
Understory T3	15-20	30	~~ACER SACH.~~ CELTIS OCC.	1-2m	20%
Tall shrub S1	10-15	40	ACER SACH }	2-5m	30%
Short shrub S2	2-5	40	" " } THICK IN ONE AREA, EAST OF PLOT CENTER	5-10m	40%
Herbaceous	.5-1	90%	MICROSTEGIUM	10-15m	50%
Non-vascular		15%	MOSS ON TREES	15-20m	60%
Vine/liana	20-35	10	VITIS SP	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | V Vines (lianas)

SPECIES COMPOSITION AND COVER CLASS BY STRATUM (enter cover values by stratum and total cover)

List species, and assign cover classes in strata at which they are most abundant, and assign total cover. Don't bother listing species or strata with less than 2% cover (cover class 1-3). Goal is to get data on most abundant species.

Dom ?	T 2	T 3	S 1	S 2	H	V	Total Cover	Name (7 letter code or full name)	Collected ?	Discard ?
	6						6	JUGLANS NIGR.		
	5						5	GLEDIT. TRICANTHOS		
		6					6	CELTIS OCC.		
		5					5	CERCIS CAN		
			7	5			8	ACER SACH.		
				6			6	SYMPHOR OBICUT.		
	5						5	JUN. VIRG.		
						5	5	VITIS SP.		
					4		4	POLYGON. VIRGIN.		
					5		5	CHESMAN LATUM		
					6		6	ELYMUS SP VIRGINICUS - COLLECTED ON 9-27	✓	✓
					4		4	ELEPHANTOPUS CAROLIN.		
					8		8	MICROSTEGIUM		
					4		4	PILEA PUMILA		
					4		4	EUPATORIUM RUGOSS.		
				4			4	FRAX AMERICAN		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%