

Rare Plant Monitoring Data Form, Version 1.05

Please avoid trampling rare plants and the site in general. Remain as still as possible and step carefully. During your visit, refer to the monitoring report and rare species occurrence map given to you during training. Fill out this form as directed in the AT Rare Plant Standard Operating Protocol (SOP) and volunteer guide given to you during training. If you see an urgent threat or disturbance to the rare plants, please contact your coordinator immediately!

Visit date: 6/9/2013

Site name:

Site number: NC-39

Occurrence ID: NC-39-1

Common name:

Scientific name:

Disporum maculatum

	Monitor name	Email	Phone
1	Wilker, Jenny	jswilker@charter.net	
2	Roizman, Tracey	traceyroizmandc@gmail.com	
3			
4			
5			

If you were unable to bring a GPS unit, please **sketch**, on the rare species occurrence map provided to you, the approximate area covered by rare plants this year, or if not found, please sketch the area searched. Preferred units are in **BOLD**. Be sure to record all measures and circle units used, even if they are the preferred values.

NPS GPS Unit: # APPA1	GPS Accuracy: 36.79999999999997	GPS Accuracy Units: Feet
Coordinate System: Lat/Long	Datum : WGS84	
Y Coordinate (Latitude): 35.890920000000001	X Coordinate (Longitude): -82.840190000000007	
Area Covered: <u>1600</u>	Units: <u>ft.2</u>	

Rare Plant Info

Found?	Yes	If unsure, Why?
Count unit:	Stem	% Vegetative: 51-100
Plant count:	123	% Flowering: 51-100
Count time:	30 min. minutes	% Fruiting: 0
OR Estimate:		% Senescent: 0
OR % Cover:		Seedlings or Immature present? Yes

What is the condition of this rare plant occurrence?

Please note the characteristic(s) considered and what you observed: Average

Associated Site Conditions (wetness, Sun, other species, impacts, etc.)

Wetness (Circle one)

Sun exposure on rare plants (estimate)

Water on site: Moist

Sunlight (% sun): 5-50

List the most common species growing together with or immediately adjacent to the rare plants:

Trees			Shrubs		Understory	
1	Oak		1	Rhododendron	1	Black cohosh
2	Maple		2	Hardwood saplings	2	Christmas fern
3	Sycamore		3	Pine saplings	3	Maidenhair fern
					4	White clintonia
					5	Trillium

Data Entry ID: 47203-414645907-30020

Data Entry Date: 7/9/2013 2:10:44 PM

Associated Site Conditions (wetness, Sun, other species, impacts, etc.) Continued

List any invasive exotic species seen on site during your visit. Note degree of infestation as low, medium or high.

	Species	Invasiveness		Species	Invasiveness
1	None	M	6		M
2		M	7		M
3		M	8		M
4		M	9		M
5		M	10		M

Note any disturbance seen affecting, or potentially affecting the rare plants. Record details in the comments, and, if indicated, record the portion of rare plants affected:

Trampling:	None	Trail maintenance?	No
Browsing:	None	ATV tracks?	No
Insect damage or disease:	None	Social trails?	No
Competition/ succession:	None	Campsite?	No
Drought?	No	Plant collection?	Unsure
Erosion?	No	New development?	No
Other disturbance (please describe) and disturbance specific comments, if any:	No		

Photo Log (record additional on back)

Photo Number	Photo File Name	Feature Photographed (e.g., flower , juvenile, unknown, insect)	Location and Direction of Photo (e.g., from center of colony looking North)
1	SAM_0729	Average plant	Center of colony by the path
2	SAM_0728	Average plant, view of flowers under leaves	Center of colony by the path
3	SAM_0727	Another view of flower	Center of colony by the path
4	SAM_0726	White clintonia past bloom	Center of colony, east side of path
5	SAM_0730	Black cohosh	Center of colony, east side of path
6	SAM_0731	Christmas and maidenhair ferns	Center of colony, west side of path
7			
8			
9			
10			

Time spent (minutes): Monitoring: 30 Travel (to and from trailhead): 120 Hiking (to and from occurrence): 60

Certification

Monitor: I certify that **ALL** data entered on this form are complete and accurate and that I have personally reviewed all entries

Monitor Name (signature): _____ Date: _____

Reviewer: I have reviewed **ALL** data on this form and certify them to be complete and accurate.

Name (printed): _____ Signature: _____ Date: _____

Purpose	Date	Initials
Entered into Spreadsheet		
100% Check		
10% Check		
Validation		

Please submit completed form to your monitoring coordinator within 3 weeks of your visit.

Thank you for your help!

Data Entry ID: 47203-414645907-30020

Data Entry Date: 7/9/2013 2:10:44 PM

Management Recommendations: We visited this site on May 10, 2013, and could not find the plants. They were either immature or we just did not see them. Today, a month later, on June 10, we found them, but all are past peak bloom. I indicate that they are flowering, but this was too late to really see their glory. Could not say they were fruiting yet, as we saw no actual fruit and I don't know if they were pollinated.

All the plants we found occur in a very short moist section of the trail just below the headwaters of the Sugartree Branch and within 40 or so feet above or below the GPS listed reading above, which of course is not that precise. We did walk on past a few miles and found no other populations of *Prosartes maculata*. The plants are mostly small, less than a foot in height.

We counted only what we could see from the trail, up to ten feet on either side.

Comment [FWD1]: This isn't following the protocol and compromises our ability to track the occurrence into the future.

All the plants look healthy, in full leaf, with some immature ones coming along. But they are not very tall or lush looking, so we put Average for condition.

This is a beautiful easy hike with a variety of habitats within a very short distance, and occasional views over the river valley

Comments:

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Visit date: 7/6/2013

Site name:

Site number: NC-48

Occurrence ID: NC-48-4

Common name:

Scientific name:
montana

Houstonia purpurea var.

	Monitor name	Email	Phone
1	Firth, Dan	dwfirth@gmail.com	423-967-3593
2			
3			
4			
5			

If you were unable to bring a GPS unit, please **sketch**, on the rare species occurrence map provided to you, the approximate area covered by rare plants this year, or if not found, please sketch the area searched. Preferred units are in **BOLD**. Be sure to record all measures and circle units used, even if they are the preferred values.

NPS GPS Unit: #	GPS Accuracy: 10	GPS Accuracy Units: Feet
Coordinate System: Lat/Long	Datum : WGS84	
Y Coordinate (Latitude): 35.99116999999997	X Coordinate (Longitude): -82.48882999999993	
Area Covered: <u>12</u>	Units: <u>Acres</u>	

Rare Plant Info

Found?	Unsure	If unsure, Why? May be H. purpurea	
Count unit:	Clump	% Vegetative:	0
Plant count:	15	% Flowering:	51-100
Count time:	120 minutes	% Fruiting:	0
OR Estimate:		% Senescent:	0
OR % Cover:		Seedlings or Immature present?	Unknown

What is the condition of this rare plant occurrence?

Please note the characteristic(s) considered and what you observed: Poor

Associated Site Conditions (wetness, Sun, other species, impacts, etc.)

Wetness (Circle one)

Sun exposure on rare plants (estimate)

Water on site: Moist

Sunlight (% sun): >95

List the most common species growing together with or immediately adjacent to the rare plants:

Trees		Shrubs		Understory	
1	None	1	Blueberry	1	Grasses
2		2		2	Blackberry
3		3		3	Yarrow
				4	Hawkweed
				5	Indian strawberry

Data Entry ID: 83024-414654351-63182

Data Entry Date: 7/10/2013 10:26:36 AM

Associated Site Conditions (wetness, Sun, other species, impacts, etc.) Continued

List any invasive exotic species seen on site during your visit. Note degree of infestation as low, medium or high.

	Species	Invasiveness		Species	Invasiveness
1	Johnsongrass?	H	6		M
2		M	7		M
3		M	8		M
4		M	9		M
5		M	10		M

Note any disturbance seen affecting, or potentially affecting the rare plants. Record details in the comments, and, if indicated, record the portion of rare plants affected:

Trampling:	None	Trail maintenance?	Unsure
Browsing:	None	ATV tracks?	No
Insect damage or disease:	None	Social trails?	No
Competition/ succession:	None	Campsite?	No
Drought?	No	Plant collection?	No
Erosion?	No	New development?	No
Other disturbance (please describe) and disturbance specific comments, if any:	No		

Photo Log (record additional on back)

Photo Number	Photo File Name	Feature Photographed (e.g., flower , juvenile, unknown, insect)	Location and Direction of Photo (e.g., from center of colony looking North)
1	DSC_4846	NC-48-4a among the grasses	
2	DSC_4852_1	NC-48-4a about to be overtaken by grass	Taken from SW of colony
3	DSC_4853	HM clump adjacent at NC-48-4b	From road
4	DSC_4864	Close up of flowers	From trail
5	DSC_4868	Close up of bee pollinating flower	From trail
6			
7			
8			
9			
10			

Time spent (minutes): Monitoring: **90** Travel (to and from trailhead): **120** Hiking (to and from occurrence): **300**

Certification

Monitor: I certify that **ALL** data entered on this form are complete and accurate and that I have personally reviewed all entries

Monitor Name (signature): _____ Date: _____

Reviewer: I have reviewed **ALL** data on this form and certify them to be complete and accurate.

Name (printed): _____ Signature: _____ Date: _____

Purpose	Date	Initials
Entered into Spreadsheet		
100% Check		
10% Check		
Validation		

Please submit completed form to your monitoring coordinator within 3 weeks of your visit.

Thank you for your help!

Data Entry ID: 83024-414654351-63182

Data Entry Date: 7/10/2013 10:26:36 AM

Management Recommendations: The colony appears to be significantly impacted by competition. In particular the colonies located at the northeastern part of the colony. In particular, dense patches of grass and blackberry are encroaching and appear to be at risk of overcoming *Houstonia Montana*.

Comment [FWD2]: But under the impacts section competition/succession is listed as 'none.'

Blackberry appears to becoming very prevalent on areas of the bald.

Comments: The survey consisted of searching for *Houstonia Montana* along the trail, along the road and off trail near the coordinates of N35.99100 W82.48700 provided prior to survey which is located on the southern end of Big Stamp. Occurrences were observed as isolated clumps with most occurring at the Big Stamp location.

The location given in the body of the report corresponds to the approximate geographic center of all observations. There is likely not specific occurrence at this point.

Locations of observed clumps are as follows:

NC-48-4a N35.99146 W82.48651 approximately ten clumps

NC-48-4b N35.99192 W82.48861 two clumps north side of road.

NC-48-4c N35.99096 W82.49042 two clumps located on the trail east side

NC-48-4d N35.99032 W82.49036 located on the trail east side

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Visit date: 6/23/2013

Site name:

Site number: NC-52

Occurrence ID: NC-52-1

Common name:

Scientific name:

Buckleya distichophylla

	Monitor name	Email	Phone
1	Firth, Dan	dwfirth@gmail.com	423-967-3593
2			
3			
4			
5			

If you were unable to bring a GPS unit, please **sketch**, on the rare species occurrence map provided to you, the approximate area covered by rare plants this year, or if not found, please sketch the area searched. Preferred units are in **BOLD**. Be sure to record all measures and circle units used, even if they are the preferred values.

NPS GPS Unit: #

GPS Accuracy: 11

GPS Accuracy Units: Feet

Coordinate System: Lat/Long

Datum : WGS84

Y Coordinate (Latitude): 36.099649999999997

X Coordinate (Longitude): -82.440200000000004

Area Covered: 11000

Units: ft.2

Rare Plant Info

Found?	Yes	If unsure, Why?	
Count unit:	Clump	% Vegetative:	0
Plant count:	21	% Flowering:	0
Count time:	30 min minutes	% Fruiting:	26-50
OR Estimate:		% Senescent:	0
OR % Cover:		Seedlings or Immature present?	Yes

What is the condition of this rare plant occurrence?

Please note the characteristic(s) considered and what you observed: Average

Associated Site Conditions (wetness, Sun, other species, impacts, etc.)

Wetness (Circle one)

Sun exposure on rare plants (estimate)

Water on site: Dry

Sunlight (% sun): >95

List the most common species growing together with or immediately adjacent to the rare plants:.

Trees			Shrubs		Understory	
1	Pine		1	Blueberry	1	Blackberry
2	Oak		2		2	Large tickseed
3	Hickory		3		3	Indian strawberry
					4	Grasses
					5	

Data Entry ID: 62545-414654543-50363

Data Entry Date: 7/10/2013 10:54:14 AM

Associated Site Conditions (wetness, Sun, other species, impacts, etc.) Continued

List any invasive exotic species seen on site during your visit. Note degree of infestation as low, medium or high.

	Species	Invasiveness		Species	Invasiveness
1	Mimosa	L	6		M
2		M	7		M
3		M	8		M
4		M	9		M
5		M	10		M

Note any disturbance seen affecting, or potentially affecting the rare plants. Record details in the comments, and, if indicated, record the portion of rare plants affected:

Trampling:	None	Trail maintenance?	Yes
Browsing:	None	ATV tracks?	No
Insect damage or disease:	None	Social trails?	No
Competition/ succession:	Trace	Campsite?	No
Drought?	No	Plant collection?	No
Erosion?	No	New development?	No
Other disturbance (please describe) and disturbance specific comments, if any:	No		

Photo Log (record additional on back)

Photo Number	Photo File Name	Feature Photographed (e.g., flower , juvenile, unknown, insect)	Location and Direction of Photo (e.g., from center of colony looking North)
1	DSC_4791.jpg	Buckleya distichophylla fruit	from trail
2			
3			
4			
5			
6			
7			
8			
9			
10			

Time spent (minutes):

Monitoring: **180**

Travel (to and from trailhead): **0**

Hiking (to and from occurrence): **0**

Certification

Monitor: I certify that **ALL** data entered on this form are complete and accurate and that I have personally reviewed all entries

Monitor Name (signature): _____ Date: _____

Reviewer: I have reviewed **ALL** data on this form and certify them to be complete and accurate.

Name (printed): _____ Signature: _____ Date: _____

Purpose	Date	Initials
Entered into Spreadsheet		
100% Check		
10% Check		
Validation		

Please submit completed form to your monitoring coordinator within 3 weeks of your visit.

Thank you for your help!

Data Entry ID: 62545-414654543-50363

Data Entry Date: 7/10/2013 10:54:14 AM

Management Recommendations: Continue monitoring every several years.

Comments: Trail south end of observed population N36.09965 W82.44061

Trail north end of observed population N36.09973 W82.43977

*Trail maintenance/cutting reported may have been from ATC staff pruning piratebush that had been partially crushed by fallen tree. (JBO). Travel and hiking time were included in report for NC-52-12 (joint visit).

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Visit date: 6/23/2013

Site name:

Site number: NC-52

Occurrence ID: NC-52-12

Common name:

Scientific name:

Cymophyllus fraserianus

	Monitor name	Email	Phone
1	Firth, Dan	dwfirth@gmail.com	423-976-3593
2			
3			
4			
5			

If you were unable to bring a GPS unit, please **sketch**, on the rare species occurrence map provided to you, the approximate area covered by rare plants this year, or if not found, please sketch the area searched. Preferred units are in **BOLD**. Be sure to record all measures and circle units used, even if they are the preferred values.

NPS GPS Unit: #

GPS Accuracy: 23

GPS Accuracy Units:

Coordinate System: Lat/Long

Datum : WGS84

Y Coordinate (Latitude): 36.0488

X Coordinate (Longitude): -82.413150000000002

Area Covered: 35000

Units: ft.2

Rare Plant Info

Found?	Yes	If unsure, Why?		
Count unit:	Rosette	% Vegetative:	51-100	
Plant count:	190	% Flowering:	0	
Count time:	60 minutes	% Fruiting:	0	
OR Estimate:		% Senescent:	1-5	
OR % Cover:		Seedlings or Immature present?	Yes	

What is the condition of this rare plant occurrence?

Please note the characteristic(s) considered and what you observed: Average

Associated Site Conditions (wetness, Sun, other species, impacts, etc.)

Wetness (Circle one)

Sun exposure on rare plants (estimate)

Water on site: Wet

Sunlight (% sun): <5

List the most common species growing together with or immediately adjacent to the rare plants:

Trees			Shrubs		Understory	
1	Eastern hemlock	1	Rhododendron	1	Doghobble	
2	Striped Maple	2	Hydrangea	2	Partridgeberry	
3	Hickory	3		3	Dwarf iris	
				4	Wood nettle	
				5	Christmas fern	

Data Entry ID: 39202-414654622-79270

Data Entry Date: 7/10/2013 11:05:35 AM

Associated Site Conditions (wetness, Sun, other species, impacts, etc.) Continued

List any invasive exotic species seen on site during your visit. Note degree of infestation as low, medium or high.

	Species	Invasiveness		Species	Invasiveness
1	None	M	6		M
2		M	7		M
3		M	8		M
4		M	9		M
5		M	10		M

Note any disturbance seen affecting, or potentially affecting the rare plants. Record details in the comments, and, if indicated, record the portion of rare plants affected:

Trampling:	Some	Trail maintenance?	Yes
Browsing:	None	ATV tracks?	No
Insect damage or disease:	Some	Social trails?	Yes
Competition/ succession:	Most	Campsite?	Yes
Drought?	No	Plant collection?	No
Erosion?	Yes	New development?	No
Other disturbance (please describe) and disturbance specific comments, if any:	No		

Photo Log (record additional on back)

Photo Number	Photo File Name	Feature Photographed (e.g., flower , juvenile, unknown, insect)	Location and Direction of Photo (e.g., from center of colony looking North)
1	DSC_4782.jpg	Specimen damaged due to trail	North end of colony from trail
2	DSC_4785.jpg	Trampled specimen in campsite	From trail looking into campsite
3	DSC_4790.jpg	Erosion of bank with specimens	Looking trail north near northern end
4			
5			
6			
7			
8			
9			
10			

Time spent (minutes): Monitoring: **240** Travel (to and from trailhead): **120** Hiking (to and from occurrence): **240**

Certification

Monitor: I certify that **ALL** data entered on this form are complete and accurate and that I have personally reviewed all entries

Monitor Name (signature): _____ Date: _____

Reviewer: I have reviewed **ALL** data on this form and certify them to be complete and accurate.

Name (printed): _____ Signature: _____ Date: _____

Purpose	Date	Initials
Entered into Spreadsheet		
100% Check		
10% Check		
Validation		

Please submit completed form to your monitoring coordinator within 3 weeks of your visit.

Thank you for your help!

Data Entry ID: 39202-414654622-79270

Data Entry Date: 7/10/2013 11:05:35 AM

Management Recommendations: Continued monitoring every few years.

Trail maintainers must be careful with trail work in this area

Comment [FWD3]: Several potential impacts listed above, but not very much detail.

Comments: The provided coordinates for *Cymophyllus fraserianus* of N36.10500 W82.42700 were incorrect. However, the map provided with the description was correct.

The southern end of the population begins at the bridge at N36.10545 W82.41563

The northern end of the population is located at N36.10371 W82.41084

The population appeared to have approximately three concentrations between these points

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Visit date: 7/6/2013

Site name:

Site number: NC-48

Occurrence ID: NC-48-13

Common name:

Scientific name:

Hypericum mitchellianum

	Monitor name	Email	Phone
1	Firth, Dan	dwfirth@gmail.com	423-967-3593
2			
3			
4			
5			

If you were unable to bring a GPS unit, please **sketch**, on the rare species occurrence map provided to you, the approximate area covered by rare plants this year, or if not found, please sketch the area searched. Preferred units are in **BOLD**. Be sure to record all measures and circle units used, even if they are the preferred values.

NPS GPS Unit: #

GPS Accuracy: 10

GPS Accuracy Units: Feet

Coordinate System: Lat/Long

Datum : WGS84

Y Coordinate (Latitude): 35.99049999999997

X Coordinate (Longitude): -82.490710000000007

Area Covered: 5

Units: Acres

Rare Plant Info

Found?	Yes	If unsure, Why?		
Count unit:	Stem	% Vegetative:	51-100	
Plant count:	26	% Flowering:	0	
Count time:	30 min minutes	% Fruiting:	0	
OR Estimate:		% Senescent:	0	
OR % Cover:		Seedlings or Immature present?	No	

What is the condition of this rare plant occurrence?

Please note the characteristic(s) considered and what you observed: Poor

Associated Site Conditions (wetness, Sun, other species, impacts, etc.)

Wetness (Circle one)

Sun exposure on rare plants (estimate)

Water on site: Moist

Sunlight (% sun): >95

List the most common species growing together with or immediately adjacent to the rare plants:

Trees		Shrubs		Understory	
1	None	1	Blueberry	1	Blackberry
2		2		2	Indian strawberry
3		3		3	Blue eyed grass
				4	Appalachian gentian
				5	Grasses

Data Entry ID: 10082-414664693-41541

Data Entry Date: 7/11/2013 11:15:54 AM

Associated Site Conditions (wetness, Sun, other species, impacts, etc.) Continued

List any invasive exotic species seen on site during your visit. Note degree of infestation as low, medium or high.

	Species	Invasiveness		Species	Invasiveness
1	None	M	6		M
2		M	7		M
3		M	8		M
4		M	9		M
5		M	10		M

Note any disturbance seen affecting, or potentially affecting the rare plants. Record details in the comments, and, if indicated, record the portion of rare plants affected:

Trampling:	None	Trail maintenance?	No
Browsing:	None	ATV tracks?	No
Insect damage or disease:	Trace	Social trails?	No
Competition/ succession:	Most	Campsite?	No
Drought?	No	Plant collection?	No
Erosion?	No	New development?	No
Other disturbance (please describe) and disturbance specific comments, if any:	Yes All observed specimens were directly adjacent to the trail.		

Photo Log (record additional on back)

Photo Number	Photo File Name	Feature Photographed (e.g., flower , juvenile, unknown, insect)	Location and Direction of Photo (e.g., from center of colony looking North)
1	DSC_4877.jpg	Flower with buds	Close up
2	DSC_4877_edited-1.jpg	Cropped close up of flower buds showing characteristic black lines	Close up
3			
4			
5			
6			
7			
8			
9			
10			

Time spent (minutes): Monitoring: **60** Travel (to and from trailhead): **0** Hiking (to and from occurrence): **0**

Certification

Monitor: I certify that **ALL** data entered on this form are complete and accurate and that I have personally reviewed all entries

Monitor Name (signature): _____ Date: _____

Reviewer: I have reviewed **ALL** data on this form and certify them to be complete and accurate.

Name (printed): _____ Signature: _____ Date: _____

Purpose	Date	Initials
Entered into Spreadsheet		
100% Check		
10% Check		
Validation		

Please submit completed form to your monitoring coordinator within 3 weeks of your visit.

Thank you for your help!

Data Entry ID: 10082-414664693-41541

Data Entry Date: 7/11/2013 11:15:54 AM

Management Recommendations: Trail maintenance could significantly affect this population. With the apparent decrease in the number of plants found from the 6/3/2006 survey, more frequent monitoring may be required.

Comment [FWD4]: But trail maintenance is not listed as a potential impact above? Given the apparent decline that could be an important detail.

Comments: The provided coordinates of N35.98750 W82.49167 were incorrect.

The number of plants observed was significantly less than the report from 6/3/2006.

Only monitored between the road and the top of the bald.

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Visit date: 7/6/2013

Site name:

Site number: NC-48

Occurrence ID: NC-48-6

Common name:

Scientific name:

Gentiana austromontana

	Monitor name	Email	Phone
1	Firth, Dan	dwfirth@gmail.com	423-967-3593
2			
3			
4			
5			

If you were unable to bring a GPS unit, please **sketch**, on the rare species occurrence map provided to you, the approximate area covered by rare plants this year, or if not found, please sketch the area searched. Preferred units are in **BOLD**. Be sure to record all measures and circle units used, even if they are the preferred values.

NPS GPS Unit: #

GPS Accuracy: 10

GPS Accuracy Units: Feet

Coordinate System: Lat/Long

Datum : WGS84

Y Coordinate (Latitude): 35.99190000000001

X Coordinate (Longitude): -82.48861999999997

Area Covered: 5

Units: Acres

Rare Plant Info

Found?	Unsure	If unsure, Why? Appears to be a gentian but not in bloom and unsure about characteristics otherwise	
Count unit:	Stem	% Vegetative:	51-100
Plant count:	60	% Flowering:	0
Count time:	30 min minutes	% Fruiting:	0
OR Estimate:		% Senescent:	0
OR % Cover:		Seedlings or Immature present?	Unknown

What is the condition of this rare plant occurrence?

Please note the characteristic(s) considered and what you observed: Average

Associated Site Conditions (wetness, Sun, other species, impacts, etc.)

Wetness (Circle one)

Sun exposure on rare plants (estimate)

Water on site: Dry

Sunlight (% sun): >95

List the most common species growing together with or immediately adjacent to the rare plants:

Trees		Shrubs		Understory	
1	Red maple	1	Blueberry	1	Blackberry
2		2	Mountain laurel	2	Houstonia
3		3		3	Daisy
				4	Fern
				5	Indian strawberry

Data Entry ID: 52319-414664783-95102

Data Entry Date: 7/11/2013 11:28:52 AM

Associated Site Conditions (wetness, Sun, other species, impacts, etc.) Continued

List any invasive exotic species seen on site during your visit. Note degree of infestation as low, medium or high.

	Species	Invasiveness		Species	Invasiveness
1	None	M	6		M
2		M	7		M
3		M	8		M
4		M	9		M
5		M	10		M

Note any disturbance seen affecting, or potentially affecting the rare plants. Record details in the comments, and, if indicated, record the portion of rare plants affected:

Trampling:	None	Trail maintenance?	No
Browsing:	None	ATV tracks?	No
Insect damage or disease:	Trace	Social trails?	No
Competition/ succession:	Most	Campsite?	No
Drought?	No	Plant collection?	No
Erosion?	No	New development?	No
Other disturbance (please describe) and disturbance specific comments, if any:	No		

Photo Log (record additional on back)

Photo Number	Photo File Name	Feature Photographed (e.g., flower , juvenile, unknown, insect)	Location and Direction of Photo (e.g., from center of colony looking North)
1	DSC_4857.jpg	Close up of plant top with bud	
2	DSC_4859.jpg	Close up of flower stem	
3			
4			
5			
6			
7			
8			
9			
10			

Time spent (minutes):

Monitoring: **60**

Travel (to and from trailhead): **0**

Hiking (to and from occurrence): **0**

Certification

Monitor: I certify that **ALL** data entered on this form are complete and accurate and that I have personally reviewed all entries

Monitor Name (signature): _____ Date: _____

Reviewer: I have reviewed **ALL** data on this form and certify them to be complete and accurate.

Name (printed): _____ Signature: _____ Date: _____

Purpose	Date	Initials
Entered into Spreadsheet		
100% Check		
10% Check		
Validation		

Please submit completed form to your monitoring coordinator within 3 weeks of your visit.

Thank you for your help!

Data Entry ID: 52319-414664783-95102

Data Entry Date: 7/11/2013 11:28:52 AM

Management Recommendations: Continue regular monitoring.

Trail maintenance could significantly affect this population.

Comment [FWD5]: If this is a potential impact, it should be identified as such in the impact section.

Comments: Provided coordinates N35.99199 W82.48868 were dead on.

Monitored from where found along the road and along the AT to the top of the bald.

Rare Plant Monitoring Data Form, Version 1.05

Please avoid trampling rare plants and the site in general. Remain as still as possible and step carefully. During your visit, refer to the monitoring report and rare species occurrence map given to you during training. Fill out this form as directed in the AT Rare Plant Standard Operating Protocol (SOP) and volunteer guide given to you during training. If you see an urgent threat or disturbance to the rare plants, please contact your coordinator immediately!

Visit date: 8/23/2012

Site name:

Site number: GA-11

Occurrence ID: GA-11-1

Common name:

Scientific name:

Silene ovata

	Monitor name	Email	Phone
1	Stansell, Jan	janstansell@windstream.net	706-747-5892
2			
3			
4			
5			

If you were unable to bring a GPS unit, please **sketch**, on the rare species occurrence map provided to you, the approximate area covered by rare plants this year, or if not found, please sketch the area searched. Preferred units are in **BOLD**. Be sure to record all measures and circle units used, even if they are the preferred values.

NPS GPS Unit: # GPS Accuracy: 34 GPS Accuracy Units: Feet

Coordinate System: Lat/Long Datum : WGS84

Y Coordinate (Latitude): 34.715719999999997 X Coordinate (Longitude): -83.980850000000004

Area Covered: 200 Units: ft.2

Rare Plant Info

Found?	Yes	If unsure, Why?	
Count unit:	Stem	% Vegetative:	0
Plant count:	58	% Flowering:	51-100
Count time:	5 minutes	% Fruiting:	0
OR Estimate:		% Senescent:	0
OR % Cover:		Seedlings or Immature present?	Unknown

What is the condition of this rare plant occurrence?

Please note the characteristic(s) considered and what you observed: Average

Associated Site Conditions (wetness, Sun, other species, impacts, etc.)

Wetness (Circle one)

Sun exposure on rare plants (estimate)

Water on site: Dry

Sunlight (% sun): 51-95

List the most common species growing together with or immediately adjacent to the rare plants:

Trees		Shrubs		Understory	
1	Tulip poplar	1	Blackberry	1	Wild geranium
2	Hickory	2	"stuff"	2	Silene stellata
3	Dogwood	3		3	Solomon's plume
				4	Buttercup
				5	Tall meadow rue

Data Entry ID: 84070-414874569-96605

Data Entry Date: 8/1/2013 10:57:57 AM

Associated Site Conditions (wetness, Sun, other species, impacts, etc.) Continued

List any invasive exotic species seen on site during your visit. Note degree of infestation as low, medium or high.

	Species	Invasiveness		Species	Invasiveness
1	None	M	6		M
2		M	7		M
3		M	8		M
4		M	9		M
5		M	10		M

Note any disturbance seen affecting, or potentially affecting the rare plants. Record details in the comments, and, if indicated, record the portion of rare plants affected:

Trampling:	None	Trail maintenance?	Yes
Browsing:	None	ATV tracks?	No
Insect damage or disease:	None	Social trails?	No
Competition/ succession:	None	Campsite?	No
Drought?	No	Plant collection?	No
Erosion?	No	New development?	No
Other disturbance (please describe) and disturbance specific comments, if any:	No		

Photo Log (record additional on back)

Photo Number	Photo File Name	Feature Photographed (e.g., flower , juvenile, unknown, insect)	Location and Direction of Photo (e.g., from center of colony looking North)
1	None		
2			
3			
4			
5			
6			
7			
8			
9			
10			

Time spent (minutes):

Monitoring: 5

Travel (to and from trailhead): 0

Hiking (to and from occurrence): 0

Certification

Monitor: I certify that **ALL** data entered on this form are complete and accurate and that I have personally reviewed all entries

Monitor Name (signature): _____ Date: _____

Reviewer: I have reviewed **ALL** data on this form and certify them to be complete and accurate.

Name (printed): _____ Signature: _____ Date: _____

Purpose	Date	Initials
Entered into Spreadsheet		
100% Check		
10% Check		
Validation		

Please submit completed form to your monitoring coordinator within 3 weeks of your visit.

Thank you for your help!

Data Entry ID: 84070-414874569-96605

Data Entry Date: 8/1/2013 10:57:57 AM

Management Recommendations:

Comments: Maintainer knows not to cut these

Rare Plant Monitoring Data Form, Version 1.05

Please avoid trampling rare plants and the site in general. Remain as still as possible and step carefully. During your visit, refer to the monitoring report and rare species occurrence map given to you during training. Fill out this form as directed in the AT Rare Plant Standard Operating Protocol (SOP) and volunteer guide given to you during training. If you see an urgent threat or disturbance to the rare plants, please contact your coordinator immediately!

Visit date: 5/13/2013

Site name:

Site number: GA-11

Occurrence ID: GA-11-4

Common name:

Scientific name:

Trillium simile

	Monitor name	Email	Phone
1	Stansell, Jan	janstansell@windstream.net	706-747-5892
2			
3			
4			
5			

If you were unable to bring a GPS unit, please **sketch**, on the rare species occurrence map provided to you, the approximate area covered by rare plants this year, or if not found, please sketch the area searched. Preferred units are in **BOLD**. Be sure to record all measures and circle units used, even if they are the preferred values.

NPS GPS Unit: #

GPS Accuracy: 31

GPS Accuracy Units: Feet

Coordinate System: Lat/Long

Datum : WGS84

Y Coordinate (Latitude): 34.718119999999999

X Coordinate (Longitude): -83.975800000000007

Area Covered: 800

Units: ft.2

Rare Plant Info

Found?	Yes	If unsure, Why?		
Count unit:	Stem	% Vegetative:	26-50	
Plant count:	64	% Flowering:	26-50	
Count time:	10 minutes	% Fruiting:	0	
OR Estimate:		% Senescent:	0	
OR % Cover:		Seedlings or Immature present?	Unknown	

What is the condition of this rare plant occurrence?

Please note the characteristic(s) considered and what you observed: Average

Associated Site Conditions (wetness, Sun, other species, impacts, etc.)

Wetness (Circle one)

Sun exposure on rare plants (estimate)

Water on site: Moist

Sunlight (% sun): 5-50

List the most common species growing together with or immediately adjacent to the rare plants:

Trees		Shrubs		Understory	
1	Tulip poplar	1	Smilax	1	Mayapple
2	Hickory	2	Grapevine	2	Toadshade trillium
3	White oak	3		3	Poison ivy
				4	Solomon's plume
				5	Turks cap lily

Data Entry ID: 11406-414874604-82841

Data Entry Date: 8/1/2013 11:03:04 AM

Associated Site Conditions (wetness, Sun, other species, impacts, etc.) Continued

List any invasive exotic species seen on site during your visit. Note degree of infestation as low, medium or high.

	Species	Invasiveness		Species	Invasiveness
1	None	M	6		M
2		M	7		M
3		M	8		M
4		M	9		M
5		M	10		M

Note any disturbance seen affecting, or potentially affecting the rare plants. Record details in the comments, and, if indicated, record the portion of rare plants affected:

Trampling:	Some	Trail maintenance?	Yes
Browsing:	None	ATV tracks?	No
Insect damage or disease:	None	Social trails?	Yes
Competition/ succession:	Trace	Campsite?	Yes
Drought?	No	Plant collection?	No
Erosion?	No	New development?	No
Other disturbance (please describe) and disturbance specific comments, if any:	No		

Photo Log (record additional on back)

Photo Number	Photo File Name	Feature Photographed (e.g., flower , juvenile, unknown, insect)	Location and Direction of Photo (e.g., from center of colony looking North)
1	None		
2			
3			
4			
5			
6			
7			
8			
9			
10			

Time spent (minutes):

Monitoring: **15**

Travel (to and from trailhead): **0**

Hiking (to and from occurrence): **15**

Certification

Monitor: I certify that **ALL** data entered on this form are complete and accurate and that I have personally reviewed all entries

Monitor Name (signature): _____ Date: _____

Reviewer: I have reviewed **ALL** data on this form and certify them to be complete and accurate.

Name (printed): _____ Signature: _____ Date: _____

Purpose	Date	Initials
Entered into Spreadsheet		
100% Check		
10% Check		
Validation		

Please submit completed form to your monitoring coordinator within 3 weeks of your visit.

Thank you for your help!

Data Entry ID: 11406-414874604-82841

Data Entry Date: 8/1/2013 11:03:04 AM

Management Recommendations: See drawing. The cluster to far east gets cut during maintenance. The others are far enough off treadway to be safe. However, a walk Trail north towards Jarrard Gap reveals many more individuals, including a drainage with perhaps 100 plants. So, we have a healthy population of T. simile locally

Comment [FWD6]: Where is the drawing?

Comment [FWD7]: What about the impacts from social trails and campsites?

Comments:

Rare Plant Monitoring Data Form, Version 1.05

Please avoid trampling rare plants and the site in general. Remain as still as possible and step carefully. During your visit, refer to the monitoring report and rare species occurrence map given to you during training. Fill out this form as directed in the AT Rare Plant Standard Operating Protocol (SOP) and volunteer guide given to you during training. If you see an urgent threat or disturbance to the rare plants, please contact your coordinator immediately!

Visit date: 7/13/2013

Site name:

Site number: NC-39

Occurrence ID: NC-39-2

Common name:

Scientific name:

Polymnia canadensis

	Monitor name	Email	Phone
1	Wilker, Jenny	jswilker@charter.net	
2			
3			
4			
5			

If you were unable to bring a GPS unit, please **sketch**, on the rare species occurrence map provided to you, the approximate area covered by rare plants this year, or if not found, please sketch the area searched. Preferred units are in **BOLD**. Be sure to record all measures and circle units used, even if they are the preferred values.

NPS GPS Unit: # APPA1 GPS Accuracy: 35 GPS Accuracy Units: Feet

Coordinate System: Lat/Long Datum : WGS84

Y Coordinate (Latitude): 35.888109999999998 X Coordinate (Longitude): -82.819630000000004

Area Covered: 1.5 Units: Acres

Rare Plant Info

Found?	Yes	If unsure, Why?	
Count unit:	Clump	% Vegetative:	51-100
Plant count:		% Flowering:	6-25
Count time:	25 minutes	% Fruiting:	0
OR Estimate:	501-1000	% Senescent:	0
OR % Cover:		Seedlings or Immature present?	Yes

What is the condition of this rare plant occurrence?

Please note the characteristic(s) considered and what you observed: Excellent

Associated Site Conditions (wetness, Sun, other species, impacts, etc.)

Wetness (Circle one)

Sun exposure on rare plants (estimate)

Water on site: Wet

Sunlight (% sun): 51-95

List the most common species growing together with or immediately adjacent to the rare plants:

Trees		Shrubs		Understory	
1	Hickory	1	Witch hazel	1	Spiderwort
2	Redbud	2	Sweet shrub	2	Solomon's plume
3	White pine	3	Sweet birch	3	Houstonia longifolia
				4	Cove bladder fern
				5	

Data Entry ID: 63438-414875610-85598

Data Entry Date: 8/1/2013 1:27:54 PM

Associated Site Conditions (wetness, Sun, other species, impacts, etc.) Continued

List any invasive exotic species seen on site during your visit. Note degree of infestation as low, medium or high.

	Species	Invasiveness		Species	Invasiveness
1	Japanese stiltgrass?	M	6		M
2		M	7		M
3		M	8		M
4		M	9		M
5		M	10		M

Note any disturbance seen affecting, or potentially affecting the rare plants. Record details in the comments, and, if indicated, record the portion of rare plants affected:

Trampling:	None	Trail maintenance?	No
Browsing:	None	ATV tracks?	No
Insect damage or disease:	Some	Social trails?	No
Competition/ succession:	Some	Campsite?	No
Drought?	No	Plant collection?	No
Erosion?	No	New development?	No
Other disturbance (please describe) and disturbance specific comments, if any:	No		

Photo Log (record additional on back)

Photo Number	Photo File Name	Feature Photographed (e.g., flower , juvenile, unknown, insect)	Location and Direction of Photo (e.g., from center of colony looking North)
1	DSCF5650.jpg	Flower	
2	DSCF5643.jpg	First clearing with leafcup	Looking north from trail
3	DSCF5644.jpg	Second clearing with leafcup	Looking north from trail
4	DSCF5645.jpg	Another clearing with leafcup	From below looking up towards trail
5	DSCF5647.jpg	a few plants along the trail	Looking back towards river
6	DSCF5649.jpg	Houstonia	
7	DSCF5652.jpg	Cove bladder fern	
8			
9			
10			

Time spent (minutes):

Monitoring: 30

Travel (to and from trailhead):

120

Hiking (to and from occurrence):

90

Certification

Monitor: I certify that **ALL** data entered on this form are complete and accurate and that I have personally reviewed all entries

Monitor Name (signature): _____ Date: _____

Reviewer: I have reviewed **ALL** data on this form and certify them to be complete and accurate.

Name (printed): _____ Signature: _____ Date: _____

Purpose	Date	Initials
Entered into Spreadsheet		
100% Check		
10% Check		
Validation		

Please submit completed form to your monitoring coordinator within 3 weeks of your visit.

Thank you for your help!

Data Entry ID: 63438-414875610-85598

Data Entry Date: 8/1/2013 1:27:54 PM

Management Recommendations:

Comments: Pokeweed seems to be crowding out leafcup along the trail in spots. The leafcup occurs over a large area in several different populations, all in clearings where there is dappled sunlight and few overhanging trees. These clearings occur 1) between the trail and the river (near an area that has been used for camping, but which is now posted against camping) and 2) above the trail as it heads south and east before the first cutback as you climb the ridge. There are at least three such clearings, which you can see from various viewpoints from below, before the cutback, and from above, after the cutback. There are also several clumps along both sides of the trail. Before you get to the next cutback, and a higher and drier habitat, the leafcup stops.

Rare Plant Monitoring Data Form, Version 1.05

Please avoid trampling rare plants and the site in general. Remain as still as possible and step carefully. During your visit, refer to the monitoring report and rare species occurrence map given to you during training. Fill out this form as directed in the AT Rare Plant Standard Operating Protocol (SOP) and volunteer guide given to you during training. If you see an urgent threat or disturbance to the rare plants, please contact your coordinator immediately!

Visit date: 5/12/2013

Site name:

Site number: GA-07

Occurrence ID: GA-07-7

Common name:

Scientific name:

Cypripedium calceolus

	Monitor name	Email	Phone
1	Jarman, Darleen		
2			
3			
4			
5			

If you were unable to bring a GPS unit, please **sketch**, on the rare species occurrence map provided to you, the approximate area covered by rare plants this year, or if not found, please sketch the area searched. Preferred units are in **BOLD**. Be sure to record all measures and circle units used, even if they are the preferred values.

NPS GPS Unit: #

GPS Accuracy:

GPS Accuracy Units:

Coordinate System:

Datum :

Y Coordinate (Latitude): 0

X Coordinate (Longitude): 0

Area Covered: 6

Units: ft.2

Rare Plant Info

Found?	Yes	If unsure, Why?		
Count unit:	Stem	% Vegetative:	6-25	
Plant count:	4	% Flowering:	0	
Count time:	3 minutes	% Fruiting:	0	
OR Estimate:		% Senescent:	0	
OR % Cover:		Seedlings or Immature present?	No	

What is the condition of this rare plant occurrence?

Please note the characteristic(s) considered and what you observed: Average

Associated Site Conditions (wetness, Sun, other species, impacts, etc.)

Wetness (Circle one)

Sun exposure on rare plants (estimate)

Water on site: Moist

Sunlight (% sun): 5-50

List the most common species growing together with or immediately adjacent to the rare plants:

Trees		Shrubs		Understory	
1	None	1	None	1	Toxicodendron radicans
2		2		2	
3		3		3	
				4	
				5	

Data Entry ID: 43103-416255531-67907

Data Entry Date: 12/17/2013 1:16:32 PM

Associated Site Conditions (wetness, Sun, other species, impacts, etc.) Continued

List any invasive exotic species seen on site during your visit. Note degree of infestation as low, medium or high.

	Species	Invasiveness		Species	Invasiveness
1	None	M	6		M
2		M	7		M
3		M	8		M
4		M	9		M
5		M	10		M

Note any disturbance seen affecting, or potentially affecting the rare plants. Record details in the comments, and, if indicated, record the portion of rare plants affected:

Trampling:	None	Trail maintenance?	No
Browsing:	None	ATV tracks?	No
Insect damage or disease:	None	Social trails?	No
Competition/ succession:	None	Campsite?	No
Drought?	No	Plant collection?	No
Erosion?	No	New development?	No
Other disturbance (please describe) and disturbance specific comments, if any:	No		

Photo Log (record additional on back)

Photo Number	Photo File Name	Feature Photographed (e.g., flower , juvenile, unknown, insect)	Location and Direction of Photo (e.g., from center of colony looking North)
1	None		
2			
3			
4			
5			
6			
7			
8			
9			
10			

Time spent (minutes):

Monitoring: **5**

Travel (to and from trailhead):

120

Hiking (to and from occurrence):

30

Certification

Monitor: I certify that **ALL** data entered on this form are complete and accurate and that I have personally reviewed all entries

Monitor Name (signature): _____ Date: _____

Reviewer: I have reviewed **ALL** data on this form and certify them to be complete and accurate.

Name (printed): _____ Signature: _____ Date: _____

Purpose	Date	Initials
Entered into Spreadsheet		
100% Check		
10% Check		
Validation		

Please submit completed form to your monitoring coordinator within 3 weeks of your visit.

Thank you for your help!

Data Entry ID: 43103-416255531-67907

Data Entry Date: 12/17/2013 1:16:32 PM

Management Recommendations: No Recommendations

Comments: No Comments

Data Entry ID: 43103-416255531-67907

Data Entry Date: 12/17/2013 1:16:32 PM

