

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M 1</u>	Database Point Code <u>mima-A41</u>
Primary Map Unit <u>AF</u>	Assoc Code/Name <u>old field w/ trees - park-special</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m <u>gladyslain & road</u>	
Key or Classification Comments: <u>we don't have a type to call this. "managed savanna" type</u>	
GPS file name <u>M1a</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>4.2</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>	
Corrected UTM X _____ m E-Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/4/06</u> ^{~1:15} Surveyors <u>Andrew / Gwladys</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation _____ m Slope <u>gentle</u> Aspect <u>200 S-SW</u>	
Topographic Position <u>mid slope</u>	
Landform <u>glaciated upland</u>	
Environmental Comments (including hydrology): <u>old field not recently mowed</u> <u>indistinct</u>	Unvegetated Surface: <i>(please use the cover scale below)</i> ☐ Bedrock <u>(none)</u> ☐ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>	☒ Broad-leaved	☐ Forest	01 5%
☒ Evergreen	☐ Needle-leaved	☒ Woodland	02 10%
☐ Cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ Mixed evergreen - cold-deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
☐ % evergreen ☐ % deciduous	☐ Forb	☐ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☒ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent				
T2 Canopy	07	04	<i>Quercus rubra</i> <i>Asplenium adnigrum</i> - dom <i>Juniperus virginiana</i>	
T3 Sub-canopy				
S1 Tall shrub				
S2 Short Shrub				
S3 Dwarf-shrub				
H Herbaceous	01	11	<i>Asplenium adnigrum</i> <i>Festuca</i> - dom <i>Galium</i> <i>Symphoricarpos latiflorus</i> <i>Plantago lanceolata</i> <i>Potentilla canadensis</i> <i>Rumex crispus</i>	<i>Asplenium adnigrum</i> <i>Antennaria</i> <i>Lythrum hyssarifolium</i> <i>Achillea millefolium</i> <i>Ajroetis alba</i>
N Non-vascular				
V Vine/liana				

Cover Scale:		Height Scale:	
Strata	Species	Strata	Height
01	5%	01	<0.5 m
02	10%	02	0.5-1 m
03	20%	03	1-2 m
04	30%	04	2-5 m
05	40%	05	5-10 m
06	50%	06	10-15 m
07	60%	07	15-20 m
08	70%	08	20-35 m
09	80%	09	35-50 m
10	90%	10	>50 m
11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M 2</u>		Database Point Code <u>MIMA-AA2</u>	
Primary Map Unit <u>? MIMA</u>		Assoc Code/Name <u>Acn - Frax type</u>	
Secondary Map Unit <u>OMP as</u>		Assoc Code/Name <u>6506!</u>	
standard succ. fsh.			
Other Map Unit / Assoc within 50 m _____			
Key or Classification Comments: <i>Point is located in an opening, atypical of early successional forest. Represent forested character. atypical 1 trunk. include the upland & wetland</i>			
GPS file name <u>M2a</u>		Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>5.2</u> m		GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
please do not complete the following information when in the field			
Corrected UTM X _____		Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/4/06</u> ~11:30		Area surveyed: 25 m radius circle ☒ other (describe) _____	
Surveyors <u>Doddson/Bowdler</u>			
Park Site Name: _____			
Quad Name <u>Concord 7.5'</u> Quad Code _____			

ENVIRONMENTAL DESCRIPTION

Elevation _____ m Slope <u>gentle</u> Aspect <u>east</u>	
Topographic Position <u>mid slope</u>	
Landform _____	
Environmental Comments (including hydrology): <i>sloping seepage wetland - no standing water but Impatiens sp. in wet herb.</i>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☒ Broad-leaved	☒ Forest	01 5%
☒ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☐ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☒ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>07</u>	<u>37</u>	<u>Acacia saligna - dom</u> <u>Phytolacca americana</u>	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	<u>03</u>	<u>03</u>	<u>Lespedeza bicolor</u>	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>03</u>	<u>10</u>	<u>Impatiens capensis - dom</u> <u>Corallorhiza innata ??</u> <u>Antennaria</u> <u>Anthriscus</u> <u>Syn - D</u> <u>Phytolacca americana</u> <u>Rubus</u> <u>Synsphaerium ciliatum</u>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	<u>Vitis</u>	_____

Comments	Cover Scale:		Height Scale:	
	Strata and Species		Strata	
	01	5%	01	<0.5 m
	02	10%	02	0.5-1 m
	03	20%	03	1-2 m
	04	30%	04	2-5 m
	05	40%	05	5-10 m
	06	50%	06	10-15 m
	07	60%	07	15-20 m
	08	70%	08	20-35 m
	09	80%	09	35-50 m
	10	90%	10	>50 m
	11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M3</u>	Database Point Code <u>MIMA-AA3</u>
Primary Map Unit <u>TYL</u>	Assoc Code/Name <u>6403 forest/field</u>
Secondary Map Unit <u>AF</u>	Assoc Code/Name <u>N/A</u>
Other Map Unit / Assoc within 50 m <u>fields</u>	
Key or Classification Comments:	

GPS file name <u>M3a</u>	Field UTM X _____ m E Field UTM Y _____ m N
GPS Error <u>4.4</u> m	GPS unit: Garmin GPSMAP 60CSx, WAAS enabled
<i>please do not complete the following information when in the field</i>	
Corrected UTM X _____ m E Corrected UTM Y _____ m N	UTM Zone <u>19</u>

Survey Date <u>8/4/06</u> ^{12:15} Surveyors <u>Bretherton/Gawler</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle ☒ other (describe) _____
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ENVIRONMENTAL DESCRIPTION

Elevation <u>41</u> m	Slope _____	Aspect _____
Topographic Position <u>for low level</u>		
Landform <u>basin</u>		

Environmental Comments (including hydrology): <u>fluvially flanked</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock <u>mic</u> ☐ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____
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VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☐ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen ☐ % deciduous <u>Herbs</u> ☐ Annual ☒ Perennial	☐ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☐ Graminoid ☒ Forb ☐ Pteridophyte	☐ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☒ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	_____	_____	_____	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>02</u>	<u>11</u>	<i>Lycopodium Salicaria dom</i> <i>Gph occ</i> <i>Osmunda regalis-dom</i> <i>Asplen. adnigrum</i> <i>Carex stricta</i> <i>Polygonum coquimbense</i> <i>Actis calamus</i>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments	Cover Scale:	Height Scale:
	Strata and Species	Strata
	01 5%	01 <0.5 m
	02 10%	02 0.5-1 m
	03 20%	03 1-2 m
	04 30%	04 2-5 m
	05 40%	05 5-10 m
	06 50%	06 10-15 m
	07 60%	07 15-20 m
	08 70%	08 20-35 m
	09 80%	09 35-50 m
	10 90%	10 >50 m
	11 100%	

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>344 M4</u>	Database Point Code <u>MIMA-AA4</u>
Primary Map Unit <u>SIM</u>	Assoc Code/Name <u>Silver maple FPF 6176</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m <u>river to west, road south / southeast</u>	
Key or Classification Comments: <u>pretty straightforward</u>	
GPS file name <u>M4A</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>4.5</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>	
Corrected UTM X _____ m E	Corrected UTM Y _____ m N UTM Zone <u>19</u>
Survey Date <u>8/4/06</u> ^{12:40} Surveyors <u>Snelton / Gault</u>	Area surveyed: 25 m radius circle _____ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>41</u> m Slope _____ Aspect _____	
Topographic Position <u>low level</u>	
Landform <u>floodplain</u>	
Environmental Comments (including hydrology): <u>shallow pools of standing water,</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☐ Litter, duff ☒ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☒ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☒ Evergreen	☒ Broad-leaved	☒ Forest	01 5%
☒ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☐ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☒ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>08</u>	<u>08</u>	<i>Acacia saccharinum</i> - dom <i>Freycinetia peruviana</i> - occasional	_____
T3 Sub-canopy	<u>05</u>	<u>01</u>	<i>Acacia saccharinum</i>	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	<u>03</u>	<u>01</u>	<i>Cephaelis occ</i> - dom <i>Polka</i> <i>Enallagma</i>	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>02</u>	<u>06</u>	<i>Sagittaria cf. latifolia</i> - dom <i>Orchids sens</i> <i>Lycium sal</i> <i>Boehmeria</i> - dom <i>Acacia saccharinum</i> - dom	<i>Helipteris polystachya</i> - dom <i>Lycopodium complanatum</i>
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

Herbaceous layer is patchy dominance

Cover Scale:

Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:

Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M5</u>		Database Point Code <u>MIMA - AAS</u>	
Primary Map Unit <u>SIM</u>	Assoc Code/Name <u>Silver maple FPF 6/76</u>		
Secondary Map Unit _____	Assoc Code/Name _____		
Other Map Unit / Assoc within 50 m <u>oak forest</u>			
Key or Classification Comments: <u>broad floodplain - old growth! Some very large diameter silver maples</u>			
GPS file name <u>M5 a</u>		Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>4.5</u> m		GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>			
Corrected UTM X _____ m E Corrected UTM Y _____ m N		UTM Zone <u>19</u>	
Survey Date <u>8/4/06</u> 12:55		Area surveyed: 25 m radius circle ☒ other (describe) _____	
Surveyors <u>Arnell / Hawley</u>			
Park Site Name: _____			
Quad Name <u>Concord 7.5'</u> Quad Code _____			

ENVIRONMENTAL DESCRIPTION

Elevation <u>41</u> m	Slope _____	Aspect _____
Topographic Position <u>low level</u>		
Landform <u>floodplain</u>		
Environmental Comments (including hydrology): <u>no standing water, no drainage well</u> <u>consolidated</u>		Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☒ Broad-leaved	☒ Forest	01 5%
☒ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☐ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☒ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	—	—		
T2 Canopy	<u>08</u>	<u>08</u>	<u>Acacia drepanolobium</u>	
T3 Sub-canopy	<u>07</u>	<u>03</u>	<u>Ficus sp.</u>	
S1 Tall shrub	<u>03</u>	<u>01</u>		
S2 Short Shrub	—	—	<u>Acacia drepanolobium</u> <u>Cornus cf. amomum</u> <u>Cephaelis</u>	
S3 Dwarf-shrub	—	—		
H Herbaceous	<u>02</u>	<u>08</u>	<u>Boehmeria cylindrica</u> <u>Thyridopteryx palustris</u> <u>Lysimachia nummularia</u> <u>Quercus macrocarpa</u> - rare <u>Vitis rotundifolia</u>	
N Non-vascular	—	—		
V Vine/liana	—	—		

Comments	Cover Scale:		Height Scale:	
	Strata and Species		Strata	
	01	5%	01	<0.5 m
	02	10%	02	0.5-1 m
	03	20%	03	1-2 m
	04	30%	04	2-5 m
	05	40%	05	5-10 m
	06	50%	06	10-15 m
	07	60%	07	15-20 m
	08	70%	08	20-35 m
	09	80%	09	35-50 m
	10	90%	10	>50 m
	11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M6</u>	Database Point Code <u>MIMA-AA6</u>	
Primary Map Unit <u>FD</u>	Assoc Code/Name <u>schy camp field. moved</u>	
Secondary Map Unit _____	Assoc Code/Name _____	
Other Map Unit / Assoc within 50 m _____		
Key or Classification Comments: <u>recently moved</u>		

GPS file name <u>M6 a</u>	Field UTM X _____	m E Field UTM Y _____	m N
GPS Error <u>3.7</u> m	GPS unit: Garmin GPSMAP 60CSx, WAAS enabled		
<i>please do not complete the following information when in the field</i>			
Corrected UTM X _____	m E Corrected UTM Y _____	m N	UTM Zone <u>19</u>

Survey Date <u>8/4/06</u> 12:30 Surveyors <u>Snedden & Gawler</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle _____ other (describe) _____
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ENVIRONMENTAL DESCRIPTION

Elevation _____ m	Slope _____	Aspect _____
Topographic Position <u>flat</u>		
Landform <u>field</u>		

Environmental Comments (including hydrology): <u>shallow to bedrock - outcrop</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock <u>2</u> ☐ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) <u>afunc</u> ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____
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VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☐ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen _____ % deciduous _____	☐ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☒ Graminoid ☐ Forb ☐ Pteridophyte	☐ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☒ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☒ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	_____	_____	_____	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	01	11	<i>Achyrocline satureioides</i> <i>Parasium ruscifolium</i> <i>Dichanthelium</i>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

Cover Scale:
Strata and Species

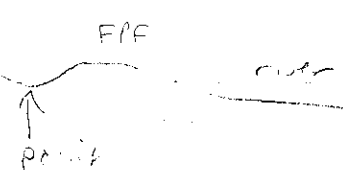
01 5%
02 10%
03 20%
04 30%
05 40%
06 50%
07 60%
08 70%
09 80%
10 90%
11 100%

Height Scale:
Strata

01 <0.5 m
02 0.5-1 m
03 1-2 m
04 2-5 m
05 5-10 m
06 10-15 m
07 15-20 m
08 20-35 m
09 35-50 m
10 >50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M7</u>	Database Point Code <u>MIMA-AA7</u>
Primary Map Unit <u>SIM</u>	Assoc Code/Name <u>6176</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m <u>river south field north</u>	
Key or Classification Comments: <u>Small backswamp adjacent to higher floodplain</u> 	
GPS file name <u>M7a</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>3.8</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
~~please do not complete the following information when in the field~~ Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/4/00</u> 11:54 Surveyors <u>Leah & Sawyer</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle _____ other (describe) _____

ENVIRONMENTAL DESCRIPTION

Elevation <u>40</u> m Slope _____ Aspect _____	
Topographic Position _____	
Landform <u>backswamp</u>	
Environmental Comments (including hydrology): <u>recently flood - battered for most of season</u> <u>wooded & debris</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☒ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☒ Sand (0.1-2 mm) ☒ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
Trees and Shrubs			
☐ Evergreen	☒ Broad-leaved	☒ Forest	01 5%
☒ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☐ Herbaceous	05 40%
	☐ Pteridophyte	☐ Nonvascular	06 50%
Herbs		☐ Sparsely Vegetated	07 60%
☐ Annual			08 70%
☒ Perennial			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "*")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>08</u>	<u>09</u>	<i>Acacia drepanolobium</i> - dom	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	<u>04</u>	<u>07</u>	<i>Acacia drepanolobium</i> - dom <i>Acacia drepanolobium</i> - spec	_____
S2 Short Shrub	<u>02</u>	<u>03</u>	<i>Cyn. occ.</i> - dom <i>Acacia drepanolobium</i> <i>P. gl.</i>	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>01</u>	<u>04</u>	<i>Acacia drepanolobium</i> - s.d.g. <i>Boerhaavia</i> - dom <i>Cyath.</i> <i>Lycium</i> - abundant <i>Pala.</i> - <i>Brachylaena</i>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments	Cover Scale:		Height Scale:	
	Strata and Species		Strata	
	01	5%	01	<0.5 m
	02	10%	02	0.5-1 m
	03	20%	03	1-2 m
	04	30%	04	2-5 m
	05	40%	05	5-10 m
	06	50%	06	10-15 m
	07	60%	07	15-20 m
	08	70%	08	20-35 m
	09	80%	09	35-50 m
	10	90%	10	>50 m
	11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code M8 Database Point Code MIMA-AA8

Primary Map Unit NOM Assoc Code/Name "Black water" + "honey suck" (old) 7279

Secondary Map Unit AF Assoc Code/Name N/A

Other Map Unit / Assoc within 50 m Acacia-Saccharum F.P.

Key or Classification Comments:
With an old "honey suck" + "black water" (old)

GPS file name M8A Field UTM X _____ m E Field UTM Y _____ m N

GPS Error 4.6 m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled

please do not complete the following information when in the field

Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone 19

Survey Date 8/4/06 ^{11:30} Surveyors Smith/Kramer

Park Site Name: MIMA

Area surveyed: 25 m radius circle ☒ other (describe) _____

Quad Name Concord 7.5' Quad Code _____

ENVIRONMENTAL DESCRIPTION

Elevation 43 m Slope flat Aspect _____

Topographic Position level

Landform upland

Environmental Comments (including hydrology):
Adjacent to F.P.F. 2.1 and 2.2

Unvegetated Surface: (please use the cover scale below)

☐ Bedrock
☒ Litter, duff <u>100%</u> (02) <u>50%</u>
☒ Wood (> 1 cm) <u>100%</u> (02) <u>50%</u>
☐ Large rocks (cobbles, boulders > 10 cm)
☐ Small rocks (gravel, 0.2-10 cm)
☐ Sand (0.1-2 mm)
☐ Bare soil
☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>	☒ Broad-leaved	☐ Forest	01 5%
☐ Evergreen	☐ Needle-leaved	☒ Woodland	02 10%
☒ Cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ Mixed evergreen - cold-deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
☐ % evergreen ☐ % deciduous	☐ Forb	☐ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☒ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>20m</u>	<u>25%</u>	<u>Myrica gale</u>	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	<u>1.5m</u>	<u>20%</u>	<u>Salix caprea</u>	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>ca 0.5m</u>	<u>10%</u>	<u>Anthriscus silvestris</u> <u>Urtica dioica</u> <u>Deschampsia flexuosa</u> <u>Poa annua</u>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	<u>Rubus fruticosus</u>	_____
Comments Cover Scale: Strata and Species 01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100% Height Scale: Strata 01 <0.5 m 02 0.5-1 m 03 1-2 m 04 2-5 m 05 5-10 m 06 10-15 m 07 15-20 m 08 20-35 m 09 35-50 m 10 >50 m				

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>m9</u>	Database Point Code <u>MIMA-AA9</u>
Primary Map Unit <u>SIM</u>	Assoc Code/Name <u>6176</u>
Secondary Map Unit <u>—</u>	Assoc Code/Name <u>—</u>
Other Map Unit / Assoc within 50 m <u>—</u>	
Key or Classification Comments: <u>straightforward</u>	
GPS file name <u>m9a</u> Field UTM X <u>—</u> m E Field UTM Y <u>—</u> m N	
GPS Error <u>± 3.5</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>	
Corrected UTM X <u>—</u> m E	Corrected UTM Y <u>—</u> m N UTM Zone <u>19</u>
Survey Date <u>8/4/06</u> ^{10:30} Surveyors <u>Srudan/Gawker</u>	Area surveyed: 25 m radius circle ☒ other (describe) <u>—</u>
Park Site Name: <u>North Unit</u>	<u>RAINING HARD</u>
Quad Name <u>Concord 7.5'</u> Quad Code <u>—</u>	

ENVIRONMENTAL DESCRIPTION

Elevation <u>47</u> m	Slope <u>0</u>	Aspect <u>n/a</u>
Topographic Position <u>Floodplain</u>		
Landform <u>Alluvial</u>		
Environmental Comments (including hydrology): 		Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☐ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: <u>—</u>

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☒ Broad-leaved	☒ Forest	01 5%
☒ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☐ Herbaceous	05 40%
	☐ Pteridophyte	☐ Nonvascular	06 50%
<u>Herbs</u>		☐ Sparsely Vegetated	07 60%
☐ Annual			08 70%
☐ Perennial			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent				
T2 Canopy	08	80%	Acer saccharinum	
T3 Sub-canopy	06	20%	Acer saccharinum	
S1 Tall shrub		5%	a few saplings of Acer sacch	
S2 Short Shrub		5%	Cephalanthus occident	
S3 Dwarf-shrub				
H Herbaceous	07	08%	Lysim nummul D Acer saccharinum * Thelyp palus * Pilea pum * D Lythrum salic Osmunda reg *	occ'l
N Non-vascular				
V Vine/liana				

Comments	Cover Scale:		Height Scale:	
	Strata and Species		Strata	
	01	5%	01	<0.5 m
	02	10%	02	0.5-1 m
	03	20%	03	1-2 m
	04	30%	04	2-5 m
	05	40%	05	5-10 m
	06	50%	06	10-15 m
	07	60%	07	15-20 m
	08	70%	08	20-35 m
	09	80%	09	35-50 m
	10	90%	10	>50 m
	11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>m10</u>	Database Point Code <u>MIMA-AA 10</u>
Primary Map Unit <u>S1M</u>	Assoc Code/Name <u>Silver Maple FIFE 6176</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>Point lies in small floodplain pool that is wetter than surrounding area. It is a recent excavation.</u>	
GPS file name <u>M10a</u> Field UTM X _____ m E Field UTM Y _____ m N GPS Error <u>4.0</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled <i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>2/4/06</u> ^{11:15} Surveyors <u>Smallman & [unclear]</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle _____ other (describe) _____

ENVIRONMENTAL DESCRIPTION

Elevation <u>40</u> m Slope _____ Aspect _____	
Topographic Position <u>Fluvial terrace, [unclear]</u>	
Landform <u>Floodplain</u>	
Environmental Comments (including hydrology): <u>Small FP pool, [unclear]</u> <u>Surrounding FP drier but recently flooded</u>	Unvegetated Surface: (please use the cover scale below) _____ Bedrock <u>10%</u> Litter, duff (10) <u>X</u> Wood (> 1 cm) 10% (01) _____ Large rocks (cobbles, boulders > 10 cm) _____ Small rocks (gravel, 0.2-10 cm) _____ Sand (0.1-2 mm) <u>X</u> Bare soil (dissolved litter) 70% (08) <u>X</u> Other: water 10% (02)

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> _____ Evergreen <u>X</u> Cold-deciduous _____ Mixed evergreen - cold-deciduous _____ % evergreen _____ % deciduous <u>Herbs</u> <u>X</u> Annual <u>X</u> Perennial	<u>X</u> Broad-leaved _____ Needle-leaved _____ Mixed Broad/Needle leaved _____ Graminoid _____ Forb _____ Pteridophyte	<u>X</u> Forest _____ Woodland _____ Shrubland _____ Dwarf Shrubland _____ Herbaceous _____ Nonvascular _____ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>20-25</u>	<u>75%</u>	<u>Acacia drepanolobium - large tree (1st tree)</u>	_____
T3 Sub-canopy <10%	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	<u><15%</u>	_____	_____	_____
S3 Dwarf-shrub	_____	_____	<u>Sorghum</u>	_____
H Herbaceous	<u>10.5m</u>	<u>30%</u>	<u>Crabapple - G. ...</u>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

patch ...

Cover Scale: Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale: Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M 11</u>	Database Point Code <u>MIMA-AA11</u>
Primary Map Unit <u>RMA - Quebic type</u> Assoc Code/Name <u>6386</u>	
Secondary Map Unit _____ Assoc Code/Name _____	
Other Map Unit / Assoc within 50 m <u>SIM 6176 Floodplain Forest</u>	
Key or Classification Comments:	
GPS file name <u>M 11 a</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>3.7</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>	
Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/4/06</u> ^{11:50} Surveyors <u>Sneddon/Gawler</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: <u>North Unit</u>	RAINING HARD
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>47</u> m	Slope <u>0</u>	Aspect <u>-</u>
Topographic Position <u>flat</u>		
Landform <u>alluvial plain</u>		
Environmental Comments (including hydrology): <u>less frequently flooded than adjacent Auer saccharinum floodplain.</u> <u>Thickety woods w/ Vitis & Rosa mul, disturbed</u>		Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☐ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>	☒ Broad-leaved	☒ Forest	01 5%
☐ Evergreen	☐ Needle-leaved	☐ Woodland	02 10%
☒ Cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ Mixed evergreen - cold-deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
☐ % evergreen ☐ % deciduous	☐ Forb	☐ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☐ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
~~T1 Emergent~~				
T2 Canopy	<u>08</u>	<u>80%</u>	<u>Acer rubrum D</u> <u>Querc bicolor *</u> <u>Juglans nigra *</u> <u>(Que rub)</u>	
T3 Sub-canopy	<u>06</u>	<u>20%</u>	<u>Ulmus amer</u> <u>Que bic</u>	
~~S1 Tall shrub~~				
S2 Short Shrub	<u>04</u>	<u>50%</u>	<u>Cornus amom D</u> <u>Rosa mul D</u>	
S3 Dwarf-shrub				
H Herbaceous	<u>01</u>	<u>20%</u>	<u>Circaea lvt</u> <u>Geum sp alcy</u> <u>Boehmeria cyl</u> <u>Onoclea sensibil *</u> <u>Carex gynandrea D</u> <u>Brachyelytrum ere</u>	
N Non-vascular				
V Vine/liana		<u>20%</u>	<u>Vitis labrusca D</u>	

Comments

Cover Scale:
Strata and Species

Height Scale:
Strata

01	5%	01	<0.5 m
02	10%	02	0.5-1 m
03	20%	03	1-2 m
04	30%	04	2-5 m
05	40%	05	5-10 m
06	50%	06	10-15 m
07	60%	07	15-20 m
08	70%	08	20-35 m
09	80%	09	35-50 m
10	90%	10	>50 m
11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M 12</u>	Database Point Code <u>MIMA-AA12</u>
Primary Map Unit <u>RMA</u>	Assoc Code/Name <u>red maple - ash swamp 6406</u>
Secondary Map Unit <u>OMP</u>	Assoc Code/Name <u>oak-red maple successional forest 6506</u>
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>Difficult to discern wetland character - seasonally flooded, probably.</u>	

GPS file name <u>M12a</u>	Field UTM X _____	m E Field UTM Y _____	m N
GPS Error <u>4.6</u> m	GPS unit: Garmin GPSMAP 60CSx, WAAS enabled		
<i>please do not complete the following information when in the field</i>			
Corrected UTM X _____	m E	Corrected UTM Y _____	m N UTM Zone <u>19</u>

Survey Date <u>8/4/06</u> ^{3:05} Surveyors <u>Andrew Grawley</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle ☒ other (describe) _____
--	--

ENVIRONMENTAL DESCRIPTION

Elevation _____ m	Slope _____	Aspect _____
Topographic Position <u>low flat</u>		
Landform _____		
Environmental Comments (including hydrology): <u>difficult to determine whether wetland or upland; substrate firm, but more gaithe type muck.</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____	

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☒ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen ☐ % deciduous	☒ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☒ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☒ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>07</u>	<u>09</u>	<i>Acer rubrum</i> - dom. <i>Quercus rubra</i> <i>Ulmus cf. americana</i> <i>Fraxinus penn</i>	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	<u>05</u>	<u>01</u>	<i>Ulmus</i>	_____
S2 Short Shrub	<u>04</u>	<u>06</u>	<i>Rhamnus</i> <i>Lonicera maroc</i> <i>Viburnum dentatum</i>	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>01</u> + <u>05</u>		<i>Osmunda pens</i> <i>Asplenium regalis</i> <i>Toxop</i> <i>Cornus masalis</i> <i>Circaea lutetiana</i>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

jurisdictional wetland -

Cover Scale: Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale: Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M13</u>	Database Point Code <u>mima-AA13</u>
Primary Map Unit <u>CSM</u>	Assoc Code/Name <u>Calamagrostis-Phalaris</u> <u>5174</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m <u>small stream flows thru polygon</u>	
Key or Classification Comments: <u>Phalaris strongly dominant</u>	
GPS file name <u>M13a</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>3.9</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/4/06</u> ^{2:45} Surveyors <u>Bredem/Gawler</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation _____ m Slope _____ Aspect _____	
Topographic Position _____	
Landform _____	
Environmental Comments (including hydrology): _____	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock <u>none</u> ☐ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☐ Broad-leaved	☐ Forest	01 5%
☐ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☒ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☒ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☒ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	_____	_____	_____	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>02</u>	<u>11</u>	<u>Phalaris -dom</u> <u>Baccharis cyl.</u> <u>Asclepias</u>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

Cover Scale:
Strata and Species

Height Scale:
Strata

01	5%	01	<0.5 m
02	10%	02	0.5-1 m
03	20%	03	1-2 m
04	30%	04	2-5 m
05	40%	05	5-10 m
06	50%	06	10-15 m
07	60%	07	15-20 m
08	70%	08	20-35 m
09	80%	09	35-50 m
10	90%	10	>50 m
11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M14</u>		Database Point Code <u>mima-A414</u>	
Primary Map Unit <u>MDF</u>	Assoc Code/Name <u>shrub oaks rather than deciduous forest 6173</u>		
Secondary Map Unit <u>RMA</u>	Assoc Code/Name <u>Swampwhite oak floodplain forest 6386</u>		
Other Map Unit / Assoc within 50 m _____			
Key or Classification Comments: Point is located on a transition zone between a narrow strip of upland forest (MDF) and the adjoining wetland forest (RMA)			
GPS file name <u>M14a</u>		Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>6.3</u> m		GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
~~please do not complete the following information when in the field~~ Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>			
Survey Date <u>8/4/2006</u> Surveyors <u>L. Sackin / S. Fowler</u> Park Site Name: <u>MIMA</u> Quad Name <u>Concord 7.5'</u> Quad Code _____		Area surveyed: 25 m radius circle _____ other (describe) <u>X</u> <u>oval-shaped to accommodate shape of stand</u> RAINING HARD	

ENVIRONMENTAL DESCRIPTION

Elevation <u>47</u> m	Slope _____	Aspect _____
Topographic Position _____		
Landform _____		
Environmental Comments (including hydrology): <u>MDF: low</u>		Unvegetated Surface: (please use the cover scale below) _____ Bedrock <u>100</u> Litter, duff _____ Wood (> 1 cm) _____ Large rocks (cobbles, boulders > 10 cm) _____ Small rocks (gravel, 0.2-10 cm) _____ Sand (0.1-2 mm) _____ Bare soil _____ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
____ Evergreen	____ Broad-leaved	____ Forest	01 5%
____ Cold-deciduous	____ Needle-leaved	____ Woodland	02 10%
____ Mixed evergreen - cold-deciduous	____ Mixed Broad/Needle leaved	____ Shrubland	03 20%
____ % evergreen ____ % deciduous	____ Graminoid	____ Dwarf Shrubland	04 30%
	____ Forb	____ Herbaceous	05 40%
	____ Pteridophyte	____ Nonvascular	06 50%
<u>Herbs</u>		____ Sparsely Vegetated	07 60%
____ Annual			08 70%
____ Perennial			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	—	—	—	—
T2 Canopy	08	80%	Tilia amba D Quercus rubra Pinus stro - 1 large tree	—
T3 Sub-canopy	07	10%	Acer platanoides	—
S1 Tall shrub	04	40%	Acer platanoides	—
S2 Short Shrub	03	5%	Acer platanoides	—
S3 Dwarf-shrub	—	—	—	—
H Herbaceous	01	<5%	Convallaria maj Tilia selge	—
N Non-vascular	—	—	—	—
V Vine/liana	—	—	—	—

Comments	Cover Scale:		Height Scale:	
	Strata and Species		Strata	
	01	5%	01	<0.5 m
	02	10%	02	0.5-1 m
	03	20%	03	1-2 m
	04	30%	04	2-5 m
	05	40%	05	5-10 m
	06	50%	06	10-15 m
	07	60%	07	15-20 m
	08	70%	08	20-35 m
	09	80%	09	35-50 m
	10	90%	10	>50 m
	11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M15</u>	Database Point Code <u>MIMA AA 15</u>
Primary Map Unit <u>RMA</u>	Assoc Code/Name <u>6386</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m <u>SIM</u>	
Key or Classification Comments: <u>Key: Δ que bic to not be dom.</u>	
GPS file name <u>M15a</u> Field UTM X <u>306526</u> m E Field UTM Y <u>4704122</u> m N	
GPS Error <u>4.7</u> m avg d GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i> ~~Corrected UTM X~~ _____ ~~m E~~ Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>20 06 08 - 4</u> ^{10:10 a} Surveyors <u>Gawley, Snellen</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: <u>North Bridge</u>	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>49</u> m Slope <u>0</u> Aspect <u>n/a</u>	
Topographic Position <u>floodplain</u>	
Landform <u>floodplain</u>	
Environmental Comments (including hydrology):	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☒ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☒ Sand (0.1-2 mm) ☒ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☒ Broad-leaved	☒ Forest	01 5%
☒ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☐ Herbaceous	05 40%
	☐ Pteridophyte	☐ Nonvascular	06 50%
<u>Herbs</u>		☐ Sparsely Vegetated	07 60%
☒ Annual			08 70%
☐ Perennial			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent				
T2 Canopy	7	9	Ace nb D Que bic * D Que pal * Ulmus ame Tilia cordata	
T3 Sub-canopy	6	3	Ac ru	
S1 Tall shrub	4	1	Rh ca	
S2 Short Shrub	3	3	Fr pe Rh ca D Frax penn Rhamnus cath Vacc corym Viburn	
S3 Dwarf-shrub	n/a	-		
H Herbaceous	2	7	Ath the D Onse D ~~Di~~ OS re * Onoclea ~~Di~~ Osmunda	
N Non-vascular				
V Vine/liana		20%	Vi la To ra Di vi Vitis lab Toxic rad Dioscorea villosa	

Comments

Cover Scale:
Strata and Species

01 5%
02 10%
03 20%
04 30%
05 40%
06 50%
07 60%
08 70%
09 80%
10 90%
11 100%

Height Scale:
Strata

01 <0.5 m
02 0.5-1 m
03 1-2 m
04 2-5 m
05 5-10 m
06 10-15 m
07 15-20 m
08 20-35 m
09 35-50 m
10 >50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>16</u>	Database Point Code <u>mima-AA16</u>
Primary Map Unit <u>TYL</u>	Assoc Code/Name <u>6153 or 6403</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>degraded example - invaded by Lythrum</u>	
GPS file name <u>M16r</u>	Field UTM X _____ m E Field UTM Y _____ m N
GPS Error <u>16.0</u> m	GPS unit: Garmin GPSMAP 60CSx, WAAS enabled
~~please do not complete the following information when in the field~~	
Corrected UTM X _____	m E Corrected UTM Y _____ m N UTM Zone <u>19</u>
Survey Date <u>8/31/06</u>	Surveyors <u>Gardner Sheldon</u>
Park Site Name: _____	Area surveyed: 25 m radius circle ☒ other (describe) _____
Quad Name <u>Concord 7.5'</u>	Quad Code _____

ENVIRONMENTAL DESCRIPTION

Elevation <u>45</u> m	Slope _____	Aspect _____
Topographic Position <u>depression</u>		
Landform _____		
Environmental Comments (including hydrology): <u>standing water (3-5") but substrate firm.</u>		Unvegetated Surface: (please use the cover scale below)
		☐ Bedrock
		☒ Litter, duff
		☐ Wood (> 1 cm)
		☐ Large rocks (cobbles, boulders > 10 cm)
		☐ Small rocks (gravel, 0.2-10 cm)
		☐ Sand (0.1-2 mm)
		☐ Bare soil
		☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☐ Broad-leaved	☐ Forest	01 5%
☐ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☒ Graminoid	☐ Dwarf Shrubland	04 30%
	☒ Forb	☒ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☒ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	_____	_____	_____	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	03	10	<i>Typha latifolia</i> *, <i>Lythrum Salicaria</i> *, <i>Philyptis palustris</i> , <i>Impatiens capensis</i> , <i>Glyceria canadensis</i> , <i>Sagittaria</i> , <i>Polygonum angifolium</i> , <i>Epilobium leptophyllum</i>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments		Cover Scale: Strata and Species	Height Scale: Strata
		01 5%	01 <0.5 m
		02 10%	02 0.5-1 m
		03 20%	03 1-2 m
		04 30%	04 2-5 m
		05 40%	05 5-10 m
		06 50%	06 10-15 m
		07 60%	07 15-20 m
		08 70%	08 20-35 m
		09 80%	09 35-50 m
		10 90%	10 >50 m
		11 100%	

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>18</u>	Database Point Code <u>mima-AA 18</u>
Primary Map Unit <u>ARB</u>	Assoc Code/Name <u>N/A</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>adjacent to farmstand, mowed, beehives. data not collected.</u> <u>use mapped point</u>	

GPS file name _____	Field UTM X _____	m E Field UTM Y _____	m N
GPS Error _____ m	GPS unit: Garmin GPSMAP 60CSx, WAAS enabled		
<i>please do not complete the following information when in the field</i>			
Corrected UTM X _____	m E Corrected UTM Y _____	m N	UTM Zone <u>19</u>

Survey Date <u>8/31/06</u>	Surveyors <u>Ganley & Snedden</u>
Park Site Name: _____	Area surveyed: 25 m radius circle _____ other (describe) _____
Quad Name <u>Concord 7.5'</u>	Quad Code _____

ENVIRONMENTAL DESCRIPTION

Elevation _____ m	Slope _____	Aspect _____
Topographic Position _____		
Landform _____		
Environmental Comments (including hydrology): 	Unvegetated Surface: <i>(please use the cover scale below)</i> ☐ Bedrock ☐ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____	

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☐ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen ☐ % deciduous	☐ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☐ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☐ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____ _____ _____	
T2 Canopy	_____	_____	_____ _____ _____ _____ _____	
T3 Sub-canopy	_____	_____	_____ _____ _____ _____ _____	
S1 Tall shrub	_____	_____	_____ _____ _____ _____ _____	
S2 Short Shrub	_____	_____	_____ _____ _____ _____ _____	
S3 Dwarf-shrub	_____	_____	_____ _____ _____ _____ _____	
H Herbaceous	_____	_____	_____ _____ _____ _____ _____	
N Non-vascular	_____	_____	_____ _____ _____ _____ _____	
V Vine/liana	_____	_____	_____ _____ _____ _____ _____	

Comments	Cover Scale: Strata and Species	Height Scale: Strata
	01 5%	01 <0.5 m
	02 10%	02 0.5-1 m
	03 20%	03 1-2 m
	04 30%	04 2-5 m
	05 40%	05 5-10 m
	06 50%	06 10-15 m
	07 60%	07 15-20 m
	08 70%	08 20-35 m
	09 80%	09 35-50 m
	10 90%	10 >50 m
	11 100%	

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>21</u>	Database Point Code <u>MIMA-AA21</u>
Primary Map Unit <u>FD</u>	Assoc Code/Name <u>NIA</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>Called "Farming Fields" on MIMA sign board</u> <u>veg < 0.5 m tall, likely mowed multiple times annually</u>	
GPS file name <u>M21r</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>22.61</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/31/06</u> Surveyors <u>Gawker & Sheldon</u>	Area surveyed: 25 m radius circle _____ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>40</u> m Slope _____ Aspect _____	
Topographic Position _____	
Landform _____	
Environmental Comments (including hydrology): _____ _____ _____	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☐ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☐ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen ☐ % deciduous	☐ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☐ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☐ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "*")	Cover Class
T1 Emergent	_____	_____	_____	_____
			_____	_____
			_____	_____
T2 Canopy	_____	_____	_____	_____
			_____	_____
			_____	_____
			_____	_____
T3 Sub-canopy	_____	_____	_____	_____
			_____	_____
			_____	_____
			_____	_____
S1 Tall shrub	_____	_____	_____	_____
			_____	_____
			_____	_____
			_____	_____
S2 Short Shrub	_____	_____	_____	_____
			_____	_____
			_____	_____
			_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
			_____	_____
			_____	_____
H Herbaceous	_____	_____	_____	_____
			_____	_____
			_____	_____
			_____	_____
N Non-vascular	_____	_____	_____	_____
			_____	_____
V Vine/liana	_____	_____	_____	_____
			_____	_____
			_____	_____

Comments	Cover Scale:	Height Scale:
	Strata and Species	Strata
	01 5%	01 <0.5 m
	02 10%	02 0.5-1 m
	03 20%	03 1-2 m
	04 30%	04 2-5 m
	05 40%	05 5-10 m
	06 50%	06 10-15 m
	07 60%	07 15-20 m
	08 70%	08 20-35 m
	09 80%	09 35-50 m
	10 90%	10 >50 m
	11 100%	

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>22</u>	Database Point Code <u>MIMA-AA22</u>
Primary Map Unit <u>AF</u>	Assoc Code/Name <u>N/A</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>upland</u>	
GPS file name <u>M22r</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>5.6</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>	
Corrected UTM X _____ m E Corrected UTM Y _____ m N	UTM Zone <u>19</u>
Survey Date <u>8/31/06</u> Surveyors <u>Gawley & Shedd</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>50</u> m Slope _____ Aspect _____	
Topographic Position <u>level</u>	
Landform _____	
Environmental Comments (including hydrology): _____	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☐ Broad-leaved	☐ Forest	01 5%
☐ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☒ Forb	☒ Herbaceous	05 40%
	☐ Pteridophyte	☐ Nonvascular	06 50%
<u>Herbs</u>		☐ Sparsely Vegetated	07 60%
☐ Annual		<u>w/ scattered shrubs</u>	08 70%
☒ Perennial			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>05</u>	<u>03</u>	<i>Betula populifolia</i> <i>Prunus serotina</i>	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	<u>04</u>	<u>04</u>	<i>Rhamnus cathartica</i> * <i>Cornus amomum</i>	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>03</u>	<u>09</u>	<i>Lythrum Salicaria</i> <i>Asplenium adnigrum</i> * <i>Solidago altissima canadensis</i> * <i>Euthamia graminifolia</i> <i>Galium</i> all	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	<i>Celastrus scandens</i> * <i>Rubus</i>	_____

Comments	Cover Scale:		Height Scale:	
	Strata and Species		Strata	
	01	5%	01	<0.5 m
	02	10%	02	0.5-1 m
	03	20%	03	1-2 m
	04	30%	04	2-5 m
	05	40%	05	5-10 m
	06	50%	06	10-15 m
	07	60%	07	15-20 m
	08	70%	08	20-35 m
	09	80%	09	35-50 m
	10	90%	10	>50 m
	11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>23</u>	Database Point Code <u>MIMA-AA23</u>	
Primary Map Unit <u>OPF</u>	Assoc Code/Name <u>6293</u>	
Secondary Map Unit _____	Assoc Code/Name _____	
Other Map Unit / Assoc within 50 m _____		
Key or Classification Comments: <i>Point is on the crest of a knoll, may be the highest point in the park.</i> <i>The remainder of the polygon is on a steeply sloping hillside with a fair amount of</i> <i>Robinia + a dense vine layer of Toxicod.</i>		
GPS file name <u>M23C</u>	Field UTM X _____	m E Field UTM Y _____ m N
GPS Error <u>16.6</u> m	GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>		
Survey Date <u>8/31/06</u> Surveyors <u>Gawler & Snedden</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____		Area surveyed: 25 m radius circle ☒ other (describe) _____

ENVIRONMENTAL DESCRIPTION

Elevation <u>65</u> m	Slope _____	Aspect _____
Topographic Position <u>crest</u>		
Landform _____		
Environmental Comments (including hydrology): <i>upland</i>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____	

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☐ Cold-deciduous ☒ Mixed evergreen - cold-deciduous ☐ % evergreen ☐ % deciduous <u>Herbs</u> ☐ Annual ☐ Perennial	☐ Broad-leaved ☐ Needle-leaved ☒ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☒ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>24</u>	Database Point Code <u>MIMA-AA24</u>
Primary Map Unit <u>TYL</u>	Assoc Code/Name <u>6153</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>much Sphagnum but still recognizable as Typha marsh</u>	
GPS file name <u>M24 r</u> Field UTM X _____ m E Field UTM Y _____ m N GPS Error <u>6.7</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled ~~please do not complete the following information when in the field~~ Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/31/06</u> Surveyors <u>Gawler & Snedden</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle <u>10</u> other (describe) _____ <u>Really dense veg</u>

ENVIRONMENTAL DESCRIPTION

Elevation <u>40</u> m Slope _____ Aspect _____ Topographic Position <u>depression</u> Landform _____	Environmental Comments (including hydrology): <u>obviously a wetland but no standing water</u> <u>& Substrate is firm</u>
Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____	

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☐ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen % deciduous <u>Herbs</u> ☐ Annual ☒ Perennial	☐ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☒ Graminoid ☒ Forb ☐ Pteridophyte	☐ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☒ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	_____	_____	_____	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	03	10	<i>Typha latifolia</i> * <i>Pilea pumila</i> / <i>fontana</i> ^{capillary} <i>Larum solensis</i> * <i>Onoclea pens</i> <i>Polygonum sagittatum</i> <i>Impatiens capensis</i>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments	Cover Scale:		Height Scale:	
	Strata and Species		Strata	
	01	5%	01	<0.5 m
	02	10%	02	0.5-1 m
	03	20%	03	1-2 m
	04	30%	04	2-5 m
	05	40%	05	5-10 m
	06	50%	06	10-15 m
	07	60%	07	15-20 m
	08	70%	08	20-35 m
	09	80%	09	35-50 m
	10	90%	10	>50 m
	11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>25</u>	Database Point Code <u>MIMA-AA25</u>
Primary Map Unit <u>OMP</u>	Assoc Code/Name <u>6506</u>
Secondary Map Unit <u>OH H</u>	Assoc Code/Name <u>6336</u>
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <i>This is a tough call - there is some hickory and a little Carya, but there's also Osmondia cinn + regular as well as hysen. a Linden... too much for OH H, I think</i>	
GPS file name <u>M25-</u> Field UTM X _____ m E Field UTM Y _____ m N GPS Error <u>5.7</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled <i>please do not complete the following information when in the field</i> Corrected UTM X <u>6</u> m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/31/06</u> Surveyors <u>Gawler + Srednick</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle ☒ other (describe) _____

ENVIRONMENTAL DESCRIPTION

Elevation <u>60</u> m Slope <u>gentle</u> Aspect <u>west-northwest</u>	Topographic Position <u>top of slope</u>
Landform _____	
Environmental Comments (including hydrology): <i>upland, grading to wetland</i>	Unvegetated Surface: (please use the cover scale below) _____ Bedrock <u>10</u> Litter, duff _____ Wood (> 1 cm) <u>02</u> Large rocks (cobbles, boulders > 10 cm) _____ Small rocks (gravel, 0.2-10 cm) _____ Sand (0.1-2 mm) _____ Bare soil _____ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
_____ Evergreen	<u>X</u> Broad-leaved	<u>X</u> Forest	01 5%
<u>X</u> Cold-deciduous	_____ Needle-leaved	_____ Woodland	02 10%
_____ Mixed evergreen - cold-deciduous	_____ Mixed Broad/Needle leaved	_____ Shrubland	03 20%
_____ % evergreen _____ % deciduous	_____ Graminoid	_____ Dwarf Shrubland	04 30%
	_____ Forb	_____ Herbaceous	05 40%
	_____ Pteridophyte	_____ Nonvascular	06 50%
<u>Herbs</u>		_____ Sparsely Vegetated	07 60%
_____ Annual			08 70%
_____ Perennial			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent				
T2 Canopy	<u>08</u>	<u>09</u>	<i>Quercus rubra</i> * <i>Alnus rubrum</i> * <i>Pinus strobus</i> (one)	
T3 Sub-canopy	<u>05</u>	<u>02</u>	<i>Nyssa sylvatica</i> <i>Carya glabra</i> <i>Betula penta</i>	
S1 Tall shrub	<u>04</u>	<u>05</u>	<i>Vaccinium corymbosum</i> <i>Lindera benzoin</i> * <i>Rhamnus</i>	
S2 Short Shrub	<u>03</u>	<u>04</u>	<i>Corylus americana</i> <i>Quercus rubra</i>	
S3 Dwarf-shrub	<u>02</u>	<u>02</u>	<i>Vacc any</i>	
H Herbaceous	<u>02</u>	<u>06</u>	<i>Osmunda cinnamomea</i> <i>O. sensibilis</i> <i>Mitchella repens</i> <i>Trientalis</i> <i>Gaultheria procumbens</i> <i>Pyrola</i> <i>Ardia nudicaulis</i> <i>Carex pens / leucocarpa</i> <i>Aisacematophyllum</i> <i>Dennstaedtia</i>	
N Non-vascular				
V Vine/liana		<u>02</u>	<i>Tox rat</i> <i>Parthenocissus</i>	

Comments

farther down slope adjacent to wetland
w/ *Carya* & *Q. alba* - abundant!

Cover Scale: Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale: Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>26</u>	Database Point Code <u>MIMA-AA26</u>	
Primary Map Unit <u>OMP</u>	Assoc Code/Name <u>6506</u>	
Secondary Map Unit _____	Assoc Code/Name _____	
Other Map Unit / Assoc within 50 m _____		
Key or Classification Comments:		
GPS file name <u>M26 new</u> Field UTM X _____ m E Field UTM Y _____ m N		
GPS Error <u>7.9</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled		
please do not complete the following information when in the field		
Corrected UTM X <u>2</u> m E Corrected UTM Y _____ m N UTM Zone <u>19</u>		
Survey Date <u>8/31/06</u> Surveyors <u>Gawler & Smedley</u>		Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: _____		
Quad Name <u>Concord 7.5'</u> Quad Code _____		

ENVIRONMENTAL DESCRIPTION

Elevation <u>72</u> m	Slope _____	Aspect _____
Topographic Position <u>level</u>		
Landform _____		
Environmental Comments (including hydrology): <u>upland</u>	Unvegetated Surface: (please use the cover scale below) _____ Bedrock <u>08</u> Litter, duff _____ Wood (> 1 cm) <u>04</u> Large rocks (cobbles, boulders > 10 cm) _____ Small rocks (gravel, 0.2-10 cm) _____ Sand (0.1-2 mm) _____ Bare soil _____ Other: _____	

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> _____ Evergreen ☒ Cold-deciduous _____ Mixed evergreen - cold-deciduous _____ % evergreen _____ % deciduous	☒ Broad-leaved _____ Needle-leaved _____ Mixed Broad/Needle leaved _____ Graminoid _____ Forb _____ Pteridophyte	☒ Forest _____ Woodland _____ Shrubland _____ Dwarf Shrubland _____ Herbaceous _____ Nonvascular _____ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> _____ Annual _____ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>08</u>	<u>08</u>	<u>Abies balsamea</u> * <u>Pinus strobus</u> <u>Quercus rubra</u>	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	<u>04</u>	<u>05</u>	<u>Rhamnus</u> *	_____
S2 Short Shrub	<u>03</u>	<u>06</u>	<u>Rhamnus</u> *	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>02</u>	<u>04</u>	<u>Senecio jacobaea</u> <u>Pinus strobus</u> ssp. <u>Maschkeanthus canadensis</u> <u>Onoclea sensibilis</u> <u>Dryopteris intermedia</u>	<u>Opuntia claytoniana</u>
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	<u>02</u>	<u>Trenax</u>	_____

Comments	Cover Scale:		Height Scale:	
	Strata and Species		Strata	
	01	5%	01	<0.5 m
	02	10%	02	0.5-1 m
	03	20%	03	1-2 m
	04	30%	04	2-5 m
	05	40%	05	5-10 m
	06	50%	06	10-15 m
	07	60%	07	15-20 m
	08	70%	08	20-35 m
	09	80%	09	35-50 m
	10	90%	10	>50 m
	11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>27</u>	Database Point Code <u>MIMA-AA27</u>
Primary Map Unit <u>RMA</u>	Assoc Code/Name <u>6406</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <i>This polygon is heterogeneous; most is a swamp, but it also includes upland veg in northeast end.</i> <i>Point lies in a pronounced canopy gap</i> <i>Atypical example - more maple!</i>	
GPS file name <u>M27r</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>7.1</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/31/06</u> Surveyors <u>Gawler & Sredan</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>61</u> m Slope _____ Aspect _____	
Topographic Position <u>low level</u>	
Landform _____	
Environmental Comments (including hydrology): <i>no standing water. Substrate is firm muck.</i>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock <u>0.4</u> ☐ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) <u>0.8</u> ☐ Bare soil <i>muck</i> ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☒ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen ☐ % deciduous <u>Herbs</u> ☐ Annual ☐ Perennial	☒ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☒ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>07</u>	<u>05</u>	<u>Fraxinus americana *</u> <u>Acer rubrum (sparse)</u> <u>Prunus serotina</u>	_____
T3 Sub-canopy	<u>05</u>	<u>05</u>	<u>Ulmus americana *</u> <u>Acer platanoides</u>	_____
S1 Tall shrub	<u>04</u>	<u>06</u>	<u>Lonicera (red berries)</u> <u>Rhamnus cathartica</u> <u>Prunus (cultivar - exotic)</u>	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	_____	<u>08</u>	<u>Oxycoccus sensibilis *</u> <u>Arisaema triphyllum</u> <u>Athyrium</u>	_____
N Non-vascular	<u>02</u>	<u>01</u>	<u>Polytrichum</u>	_____
V Vine/liana	_____	<u>01</u>	<u>Celastrus scandens * - contributes substantially to</u> <u>shrubcover</u> <u>Tox red</u>	_____

Comments

Cover Scale:
Strata and Species

Height Scale:
Strata

01	5%	01	<0.5 m
02	10%	02	0.5-1 m
03	20%	03	1-2 m
04	30%	04	2-5 m
05	40%	05	5-10 m
06	50%	06	10-15 m
07	60%	07	15-20 m
08	70%	08	20-35 m
09	80%	09	35-50 m
10	90%	10	>50 m
11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>28</u>	Database Point Code <u>MIMA-AA28</u>
Primary Map Unit <u>MDF</u>	Assoc Code/Name <u>6173</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments:	

GPS file name <u>M28r</u>	Field UTM X _____ m E	Field UTM Y _____ m N	
GPS Error <u>6.7</u> m	GPS unit: Garmin GPSMAP 60CSx, WAAS enabled		
<i>please do not complete the following information when in the field</i>			
Corrected UTM X _____	m E	Corrected UTM Y _____	m N UTM Zone <u>19</u>

Survey Date <u>8/31/06</u>	Surveyors <u>Gawler + Smeddin</u>
Park Site Name: _____	Area surveyed: 25 m radius circle ☒ other (describe) _____
Quad Name <u>Concord 7.5'</u>	Quad Code _____

ENVIRONMENTAL DESCRIPTION

Elevation <u>59</u> m	Slope <u>steep</u>	Aspect <u>South</u>
Topographic Position <u>upper slope</u>		
Landform _____		

Environmental Comments (including hydrology):	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____
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VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☒ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen ☐ % deciduous	☒ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☒ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☐ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent				
T2 Canopy	<u>08</u>	<u>09</u>	<u>Acu saccharum *</u> <u>Quercus rubra</u>	
T3 Sub-canopy	<u>06</u>	<u>02</u>	<u>Acu saccharum</u>	
S1 Tall shrub				
S2 Short Shrub	<u>03</u>	<u>02</u>	<u>Lilia cordata</u> <u>Acu saccharum</u>	
S3 Dwarf-shrub				
H Herbaceous	<u>02</u>	<u>01</u>	<u>Thelypteris novaboracensis</u> <u>Aster downii</u> <u>Menyanthes canadensis</u> <u>Monarda mollis</u>	
N Non-vascular				
V Vine/liana		<u>01</u>	<u>Taxus</u>	

Comments

Cover Scale:
Strata and Species

Height Scale:
Strata

01	5%	01	<0.5 m
02	10%	02	0.5-1 m
03	20%	03	1-2 m
04	30%	04	2-5 m
05	40%	05	5-10 m
06	50%	06	10-15 m
07	60%	07	15-20 m
08	70%	08	20-35 m
09	80%	09	35-50 m
10	90%	10	>50 m
11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>29</u>		Database Point Code <u>MIMA-AA29</u>	
Primary Map Unit <u>TYL</u>		Assoc Code/Name <u>6403</u>	
Secondary Map Unit _____		Assoc Code/Name _____	
Other Map Unit / Assoc within 50 m _____			
Key or Classification Comments: <i>Typha is present, at least at this point, but Lophium is the clear dominant.</i>			
GPS file name <u>M29a</u>		Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>5.6</u> m		GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>			
Survey Date <u>8/31/06</u>		Surveyors <u>Gawler & Smedley</u>	
Park Site Name: _____		Area surveyed: 25 m radius circle (☒ other (describe) <u>too dense!</u>)	
Quad Name <u>Concord 7.5'</u>		Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>39</u> m		Slope _____		Aspect _____	
Topographic Position <u>depression</u>					
Landform _____					
Environmental Comments (including hydrology): <i>no standing water; substrate firm muck, water just below surface</i>			Unvegetated Surface: (please use the cover scale below)		
			☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☒ Bare soil ☐ Other: _____		

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
Trees and Shrubs ☐ Evergreen ☐ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen ☐ % deciduous	☐ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☐ Graminoid ☒ Forb ☐ Pteridophyte	☐ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☒ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
Herbs ☐ Annual ☒ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	_____	_____	_____	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>03</u>	<u>10</u>	<i>Lythrum salicaria</i> * <i>Symplocos cuneata</i> - abundant <i>Polygonum arifolium</i> <i>Polygonum sepium</i> <i>Typha latifolia</i>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments	Cover Scale:	Height Scale:
	Strata and Species	Strata
	01 5%	01 <0.5 m
	02 10%	02 0.5-1 m
	03 20%	03 1-2 m
	04 30%	04 2-5 m
	05 40%	05 5-10 m
	06 50%	06 10-15 m
	07 60%	07 15-20 m
	08 70%	08 20-35 m
	09 80%	09 35-50 m
	10 90%	10 >50 m
	11 100%	

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M30</u>		Database Point Code <u>MIMA AA30</u>	
Primary Map Unit <u>WSS ??</u>		Assoc Code/Name <u>"Alcove" 5082</u>	
Secondary Map Unit <u>AF</u>		Assoc Code/Name _____	
Other Map Unit / Assoc within 50 m _____			
Key or Classification Comments: <i>really there, but not no good fit. abundance of 10 m is not fitting for placement here, but not well suited enough for 5082. more of a gas wet old field shrub thicket.</i>			
GPS file name <u>M30 ~</u>		Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>4.8</u> m		GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>			
Corrected UTM X _____		m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/4/06</u> ^{4:50} Surveyors <u>Anderson/Gardner</u>		Area surveyed: 25 m radius circle ☒ other (describe) _____	
Park Site Name: _____			
Quad Name <u>Concord 7.5'</u> Quad Code _____			

ENVIRONMENTAL DESCRIPTION

Elevation _____ m Slope <u>flat</u> Aspect _____	
Topographic Position <u>low level</u>	
Landform _____	
Environmental Comments (including hydrology): <i>Abnormally flooded?</i>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock <i>none</i> ☐ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☒ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen ☐ % deciduous	☒ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☐ Forest ☐ Woodland ☒ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☐ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>07</u>	<u>04</u>	<u>Ulmus am.</u> <u>Fraxinus americana</u> <u>Acer cf. nigra</u>	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	<u>04</u>	<u>11</u>	<u>Cornus americana</u> <u>Rhus glabra</u>	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>03</u>	<u>08</u>	<u>Oxalis stricta</u> <u>Impatiens</u> <u>Syn. prostrata</u>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M 31</u>	Database Point Code <u>MIMA-AA31</u>
Primary Map Unit <u>TYL</u>	Assoc Code/Name <u>Purple loosestrife wetland 6903</u>
Secondary Map Unit <u>AF</u>	Assoc Code/Name <u>N/A</u>
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>could have been mapped as old field - probably seasonally wet</u>	
GPS file name <u>M 31</u> Field UTM X _____ m E Field UTM Y _____ m N GPS Error <u>3.5</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled <i>please do not complete the following information when in the field</i> Corrected UTM X <u>22</u> m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/6/04</u> 3:45 Surveyors <u>Bushy/Gardner</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle _____ other (describe) _____

ENVIRONMENTAL DESCRIPTION

Elevation _____ m Slope <u>flat</u> Aspect _____ Topographic Position <u>flat</u> Landform _____	Environmental Comments (including hydrology): <u>seasonally wet as evidenced by Eleocharis</u>
Unvegetated Surface: (please use the cover scale below) ☐ Bedrock <u>none</u> ☐ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____	

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☐ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen % deciduous	☐ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☒ Graminoid ☐ Forb ☐ Pteridophyte	☐ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☒ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☒ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	_____	_____	_____	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>03</u>	<u>11</u>	<i>Lycopodium obscurum</i> -dom <i>Lilium</i> -dom <i>Juniperus effusa</i> <i>Phlox</i> -dom <i>Carex</i>	<i>Cleome</i> -fine <i>Scorpius</i>
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments	Cover Scale:		Height Scale:	
	Strata and Species		Strata	
	01	5%	01	<0.5 m
	02	10%	02	0.5-1 m
	03	20%	03	1-2 m
	04	30%	04	2-5 m
	05	40%	05	5-10 m
	06	50%	06	10-15 m
	07	60%	07	15-20 m
	08	70%	08	20-35 m
	09	80%	09	35-50 m
	10	90%	10	>50 m
	11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>32</u>	Database Point Code <u>MIMA-AA32</u>
Primary Map Unit <u>RMA</u>	Assoc Code/Name <u>6406</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>moashes but more minerotrophic than 6156.</u>	
GPS file name <u>M32r</u> Field UTM X _____ m E Field UTM Y _____ m N GPS Error <u>5.9</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled <i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/31/06</u> Surveyors <u>Ganley & Sneddon</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle ☒ other (describe) _____

ENVIRONMENTAL DESCRIPTION

Elevation <u>51</u> m Slope _____ Aspect _____ Topographic Position <u>depression</u> Landform _____	Environmental Comments (including hydrology): <u>mucky; not particularly hummocky</u>
Unvegetated Surface: (please use the cover scale below) _____ Bedrock <u>06</u> Litter, duff _____ Wood (> 1 cm) _____ Large rocks (cobbles, boulders > 10 cm) _____ Small rocks (gravel, 0.2-10 cm) _____ Sand (0.1-2 mm) <u>06</u> Bare soil <u>muck</u> _____ Other: _____	

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> _____ Evergreen <u>X</u> Cold-deciduous _____ Mixed evergreen - cold-deciduous _____ % evergreen _____ % deciduous <u>Herbs</u> _____ Annual _____ Perennial	<u>X</u> Broad-leaved _____ Needle-leaved _____ Mixed Broad/Needle leaved _____ Graminoid _____ Forb _____ Pteridophyte	<u>X</u> Forest _____ Woodland _____ Shrubland _____ Dwarf Shrubland _____ Herbaceous _____ Nonvascular _____ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>07</u>	<u>09</u>	<i>Acer rubrum</i> ** <i>Betula populifolia</i>	_____
T3 Sub-canopy	<u>05</u>	<u>04</u>	<i>Acer rubrum</i> * <i>Ulmus</i>	_____
S1 Tall shrub	<u>04</u>	<u>03</u>	<i>Lonicera</i> <i>Rhamnus</i> * <i>Viburnum lentago</i> <i>Viburnum dentatum</i>	<i>Fraxinus pennsylvanica</i>
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>02</u>	<u>09</u>	<i>Symphoricarpos alba</i> * <i>Osmunda sensibilis</i> * <i>Equisetum arvense</i> <i>Thalictrum dasycarpum</i> <i>Solidago nemoralis</i>	_____
N Non-vascular	_____	<u>02</u>	feather mosses	_____
V Vine/liana	_____	_____	_____	_____

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>33</u>	Database Point Code <u>MIMA-AA33</u>	
Primary Map Unit <u>RMA</u>	Assoc Code/Name <u>609</u>	
Secondary Map Unit <u>CSM</u>	Assoc Code/Name <u>2256</u>	
Other Map Unit / Assoc within 50 m _____		
Key or Classification Comments: <i>heterogeneous polygon: point is in Acer rubrum / Carex stricta; grades into Carex lacustris - Typha; to NW is big stand of Phrag. - 4141</i> <u>2256</u>		
GPS file name <u>M33r</u>	Field UTM X _____ m E	Field UTM Y _____ m N
GPS Error <u>19.0</u> m	GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>		
Survey Date <u>8/31/06</u> Surveyors <u>Gawler, Smedley</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____		Area surveyed: 25 m radius circle ☒ other (describe) _____

ENVIRONMENTAL DESCRIPTION

Elevation <u>50</u> m	Slope _____	Aspect _____
Topographic Position <u>depression</u>		
Landform _____		
Environmental Comments (including hydrology): <i>hummock / hollow; no standing water but muck is wet.</i>		Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☐ Broad-leaved	☐ Forest	01 5%
☐ Cold-deciduous	☐ Needle-leaved	☒ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☒ Herbaceous	05 40%
	☐ Pteridophyte	☐ Nonvascular	06 50%
<u>Herbs</u>		☐ Sparsely Vegetated	07 60%
☐ Annual		<i>? heterogenous</i>	08 70%
☐ Perennial			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>06</u>	<u>06</u>	<u>Acer rubrum</u>	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	<u>03</u>	<u>01</u>	<u>Chamaecyparis</u>	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>02</u>	<u>09</u>	<u>Typha angustifolia</u> <u>Carex stricta</u> * <u>Phlox pilularis</u> <u>Impatiens capensis</u> <u>Eriogonum fasciculatum</u> (rare)	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

2256: Carex lacustris *
Typha lat
Impatiens capensis
Eriogonum leptophyllum
standing water (2")
no Carex stricta except on edge

4141 Phrag
3m tall!

There is no Typha
in any of these?
potentially

Cover Scale: Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale: Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M34</u>	Database Point Code <u>MIMA-AA34</u>
Primary Map Unit <u>TYL</u>	Assoc Code/Name <u>Cattail marsh 6153</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m <u>ARB surrounding</u>	
Key or Classification Comments: <i>* note from dryland adjacent to deep ditch - ~ 40 m away</i> <i>use coordinates of mapped pt.</i>	
GPS file name _____ Field UTM X _____ m E Field UTM Y _____ m N GPS Error _____ m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled <i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/4/06</u> ^{4:20} Surveyors <u>Sneddon/Gawler</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle ☒ other (describe) _____

ENVIRONMENTAL DESCRIPTION

Elevation _____ m Slope _____ Aspect _____	
Topographic Position _____	
Landform _____	
Environmental Comments (including hydrology): <i>Atmopem flooded</i> <i>deposition of duck weed</i>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☐ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☒ Other: <u>deep water</u>

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☐ Broad-leaved	☐ Forest	01 5%
☐ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☒ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☒ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☒ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	_____	_____	_____	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>03</u>	<u>09</u>	<i>Typha lat *</i> <i>Potamogeton</i> <i>Sagittaria</i>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

Wetland is a mosaic of patches - *Typha* is where the patch is, but patches of *Potamogeton* & *Sagittaria*

Cover Scale: Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale: Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M35</u>	Database Point Code <u>MIMA-AA 35</u>
Primary Map Unit <u>TYL</u>	Assoc Code/Name <u>Lycium 6403</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>Dense thickets of Lycium - 7ft tall.</u>	
GPS file name <u>M35a</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>5.6</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
please do not complete the following information when in the field	
Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/1/06</u> 4:50 Park Site Name: _____ Surveyors <u>Anthony Gaudin</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>43</u> m Slope _____ Aspect _____	
Topographic Position <u>flat</u>	
Landform _____	
Environmental Comments (including hydrology): <u>Always flooded, standing water (20cm+)</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☐ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☒ Other: <u>water</u>

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☐ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen _____ % deciduous _____	☐ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☒ Graminoid ☒ Forb ☐ Pteridophyte	☐ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☒ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☒ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	_____	_____	_____	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	<u>04</u>	<u>05 1/2</u>	<u>Platanus ~~sp~~ cathartica</u>	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>04</u>	<u>11</u>	<u>Lactuca scariola dom</u> <u>Polypodium</u> <u>Polygonum anglicum</u>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

Some little clearing & vegetation at 100m as well
pick out of the jungle.

Cover Scale:

Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:

Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>36</u>	Database Point Code <u>MIMA-AA36</u>
Primary Map Unit <u>TYL</u>	Assoc Code/Name <u>6153</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m <u>AF & ARB</u>	
Key or Classification Comments: <i>use mapped point</i>	
GPS file name _____ Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error _____ m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
~~please do not complete the following information when in the field~~ Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/31/06</u> Surveyors <u>Ganhr & Sneddon</u>	Area surveyed: 25 m radius circle _____ other (describe) _____ <i>we observed from field: > knee deep water & thick veg.</i>
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation _____ m Slope _____ Aspect _____	
Topographic Position <u>basin</u>	
Landform _____	
Environmental Comments (including hydrology): <i>deep standing water</i>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☐ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☒ Other: <u>Water 100%</u>

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☐ Broad-leaved	☐ Forest	01 5%
☐ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☒ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☒ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☒ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	_____	_____	_____	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	<u>05</u>	<u>01</u>	<u><i>Acacia robusta</i></u>	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>03</u>	<u>10</u>	<u><i>Typha angustifolia</i> *</u> <u><i>Lythrum Salicaria</i> *</u> <u>patchy</u> <u><i>Solidago Canadensis</i> / <i>myosotis</i></u> <u><i>Impatiens Capensis</i></u>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

Typha marsh degraded by Lythrum invasion

Cover Scale: Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale: Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M38</u>		Database Point Code <u>MIMA-AA38</u>	
Primary Map Unit <u>WSS</u>	Assoc Code/Name <u>Commustype? local type - nothing in NVC</u>		
Secondary Map Unit		Assoc Code/Name <u>6576</u>	
Other Map Unit / Assoc within 50 m			
Key or Classification Comments: <u><i>[Handwritten signature]</i></u>		patchy area of shrubs and forbs w/ scattered red maple wet old field no good type.	
GPS file name <u>M38r</u>		Field UTM X	m E Field UTM Y
GPS Error <u>6.0</u> m		GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i> Corrected UTM X <u> </u> m E Corrected UTM Y <u> </u> m N UTM Zone <u>19</u>			
Survey Date <u>8/31/06</u> Surveyors <u>Gawler & Sneedon</u>		Area surveyed: 25 m radius circle <u> </u> other (describe) <u>X</u>	
Park Site Name:		<u>too thick to penetrate; observed from nearby.</u>	
Quad Name <u>Concord 7.5'</u> Quad Code			

ENVIRONMENTAL DESCRIPTION

Elevation <u>44</u> m	Slope <u> </u>	Aspect <u> </u>
Topographic Position <u>low level / depression</u>		
Landform		
Environmental Comments (including hydrology): <u>no standing water but is close to surface</u>		Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☐ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil <u>0</u> ☐ Other: <u> </u>

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☒ Broad-leaved	☐ Forest	01 5%
☒ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☒ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☐ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☐ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>05</u>	<u>03</u>	<u>Acer rubrum</u>	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	<u>04</u>	<u>07</u>	<u>Cornus (coll.)</u> <u>Rhamnus cathartica *</u> <u>Viburnum dentatum</u>	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>03</u>	<u>09</u>	<u>Lycium solanaceum *</u> <u>Solidago nemoralis *</u> <u>Impatiens capensis</u> <u>Solidago canadensis</u> <u>Polygonum aviculare</u>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments	Cover Scale:		Height Scale:	
	Strata and Species		Strata	
	01	5%	01	<0.5 m
	02	10%	02	0.5-1 m
	03	20%	03	1-2 m
	04	30%	04	2-5 m
	05	40%	05	5-10 m
	06	50%	06	10-15 m
	07	60%	07	15-20 m
	08	70%	08	20-35 m
	09	80%	09	35-50 m
	10	90%	10	>50 m
	11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>39</u>	Database Point Code <u>MIMA-AA39</u>
Primary Map Unit <u>AF</u>	Assoc Code/Name <u>mgd. savanna</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>scattered juniperus</u> <u>more savanna than field -</u> <u>could be called modified successional forest</u> <u>another "managed</u> <u>savanna"</u> <u>example</u>	
GPS file name <u>A139a</u> Field UTM X _____ m E Field UTM Y _____ m N GPS Error <u>16.7</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled <i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/30/06</u> Surveyors <u>Sneddon/Gawler</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle ☒ other (describe) _____

ENVIRONMENTAL DESCRIPTION

Elevation <u>81</u> m Slope _____ Aspect _____	
Topographic Position <u>flat</u>	
Landform _____	
Environmental Comments (including hydrology): <u>upland</u>	Unvegetated Surface: (please use the cover scale below) _____ Bedrock <u>08</u> Litter, duff _____ Wood (> 1 cm) <u>03</u> Large rocks (cobbles, boulders > 10 cm) _____ Small rocks (gravel, 0.2-10 cm) _____ Sand (0.1-2 mm) _____ Bare soil _____ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
____ Evergreen	____ Broad-leaved	____ Forest	01 5%
____ Cold-deciduous	____ Needle-leaved	____ Woodland	02 10%
____ Mixed evergreen - cold-deciduous	____ Mixed Broad/Needle leaved	____ Shrubland	03 20%
____ % evergreen ____ % deciduous	☒ Graminoid	____ Dwarf Shrubland	04 30%
	____ Forb	☒ Herbaceous	05 40%
	____ Pteridophyte	____ Nonvascular	06 50%
<u>Herbs</u>		____ Sparsely Vegetated	07 60%
____ Annual		<u>savanna</u>	08 70%
☒ Perennial			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>07</u>	<u>04</u>	<u>Tsuga canadensis</u> <u>Frax am</u> <u>Pinus rigida</u> <u>Quercus rubra</u> <u>Juniperus virginiana</u>	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	<u>01</u>	<u>01</u>	<u>Celastrus</u>	_____
H Herbaceous	<u>01</u>	<u>10</u>	<u>Phleum pratense</u> <u>Dactylis glomerata *</u> <u>Convolvulus</u>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

stone wall border field; shrubs growing along it

Cover Scale: Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale: Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>40</u>	Database Point Code <u>MIMA - AA40</u>
Primary Map Unit <u>ARB</u>	Assoc Code/Name <u>NIA</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m <u>TYL</u>	
Key or Classification Comments: <i>mowed wetland - actively managed as evidenced by recent tire tracks fallow field dom by Lythrum Salicaria</i>	
GPS file name <u>M40A</u> Field UTM X _____ m E Field UTM Y _____ m N GPS Error <u>24.7</u> m <i>GPS 100</i> GPS unit: Garmin GPSMAP 60CSx, WAAS enabled <i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/30/06</u> Surveyors <u>Snedden / Gaudin</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle ☒ other (describe) _____

ENVIRONMENTAL DESCRIPTION

Elevation <u>59</u> m Slope _____ Aspect _____ Topographic Position _____ Landform _____	Environmental Comments (including hydrology): <i>surrounded by wetland veg</i>
Unvegetated Surface: (please use the cover scale below) ___ Bedrock ___ Litter, duff ___ Wood (> 1 cm) ___ Large rocks (cobbles, boulders > 10 cm) ___ Small rocks (gravel, 0.2-10 cm) ___ Sand (0.1-2 mm) ___ Bare soil ___ Other: _____	

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
___ Evergreen	___ Broad-leaved	___ Forest	01 5%
___ Cold-deciduous	___ Needle-leaved	___ Woodland	02 10%
___ Mixed evergreen - cold-deciduous	___ Mixed Broad/Needle leaved	___ Shrubland	03 20%
___ % evergreen ___ % deciduous	☒ Graminoid	___ Dwarf Shrubland	04 30%
	☒ Forb	☒ Herbaceous	05 40%
	___ Pteridophyte	___ Nonvascular	06 50%
<u>Herbs</u>		___ Sparsely Vegetated	07 60%
___ Annual			08 70%
☒ Perennial			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____ _____ _____	
T2 Canopy	_____	_____	_____ _____ _____ _____ _____	
T3 Sub-canopy	_____	_____	_____ _____ _____ _____ _____	
S1 Tall shrub	_____	_____	_____ _____ _____ _____ _____	
S2 Short Shrub	_____	_____	_____ _____ _____ _____ _____	
S3 Dwarf-shrub	_____	_____	_____ _____ _____ _____ _____	
H Herbaceous	_____	_____	_____ _____ _____ _____ _____ _____	
N Non-vascular	_____	_____	_____ _____ _____ _____ _____	
V Vine/liana	_____	_____	_____ _____ _____ _____ _____	

Comments	Cover Scale:		Height Scale:	
	Strata and Species		Strata	
	01	5%	01	<0.5 m
	02	10%	02	0.5-1 m
	03	20%	03	1-2 m
	04	30%	04	2-5 m
	05	40%	05	5-10 m
	06	50%	06	10-15 m
	07	60%	07	15-20 m
	08	70%	08	20-35 m
	09	80%	09	35-50 m
	10	90%	10	>50 m
	11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M41</u>	Database Point Code <u>MIMA-AA41</u>
Primary Map Unit <u>NOM</u>	Assoc Code/Name <u>7279 Robinia</u>
Secondary Map Unit <u>field AF</u>	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>Polygon is a combination of open field & pasture forest</u>	
GPS file name <u>M41a</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>5.0</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>	
Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/4/06</u> ^{6:05} Surveyors <u>Andrew / Paul</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation _____ m Slope <u>flat</u> Aspect _____	
Topographic Position <u>flat</u>	
Landform _____	
Environmental Comments (including hydrology): <u>upland, adjacent to road</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☒ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen ☐ % deciduous <u>Herbs</u> ☐ Annual ☐ Perennial	☒ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☒ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>08</u>	<u>09</u>	<u>Robinia - dom</u>	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	<u>04</u>	<u>06</u>	<u>Rhamnus cath.</u>	_____
S2 Short Shrub	<u>03</u>	<u>05</u>	<u>Cornus alba</u> <u>Prunella sp.</u> (1) <u>Amelanchier</u>	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>03</u>	<u>09</u>	<u>Solidago rugosa</u> dom <u>Solidago canad.</u> dom <u>Impatiens</u> <u>Rubus</u>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

Cover Scale:
Strata and Species

Height Scale:
Strata

01	5%	01	<0.5 m
02	10%	02	0.5-1 m
03	20%	03	1-2 m
04	30%	04	2-5 m
05	40%	05	5-10 m
06	50%	06	10-15 m
07	60%	07	15-20 m
08	70%	08	20-35 m
09	80%	09	35-50 m
10	90%	10	>50 m
11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M42</u>		Database Point Code <u>MIMA-42</u>	
Primary Map Unit <u>RMA</u>	Assoc Code/Name <u>RMA-02 6156</u>		
Secondary Map Unit <u>RMA</u>	Assoc Code/Name <u>6406 RMA-act</u>		
Other Map Unit / Assoc within 50 m _____			
Key or Classification Comments: <i>negot fir for this. not 100% sure. 400' radius. not for the area for 6156.</i>			
GPS file name <u>M42a</u>		Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>4.5</u> m		GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>			
Survey Date <u>2/4/06</u> <u>5:45</u> Surveyors <u>Anders Johnson</u> Park Site Name: _____		Area surveyed: 25 m radius circle ☒ other (describe) _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____			

ENVIRONMENTAL DESCRIPTION

Elevation _____ m	Slope <u>flat</u>	Aspect _____
Topographic Position <u>low level</u>		
Landform _____		
Environmental Comments (including hydrology): <i>no standing water, no stream, no pool; no party; subchate firm, cool, leaf litter few small hummocky areas</i>		Unvegetated Surface: (please use the cover scale below) ☒ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☒ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen ☐ % deciduous	☒ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☒ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☐ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>08</u>	<u>09</u>	<u>Acacia robusta dom</u>	_____
T3 Sub-canopy	<u>06</u>	<u>01</u>	<u>Gliricidia sepium</u>	_____
S1 Tall shrub	<u>04</u>	<u>04</u>	<u>Phoradendron cathartica dom</u> <u>Vitaceae dentata</u> <u>Amelanchier sp.</u>	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>01</u>	<u>05</u>	<u>Onoclea</u> <u>Toxodora</u> <u>Polypodium</u> <u>Chromolaena</u> <u>Ardisia</u> <u>Gleichenia</u>	<u>Impatiens</u> <u>Syn. plocarpus</u> <u>Viburnum dentatum</u> <u>Equisetum arvense</u> <u>Symphoricarpos</u>
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>43</u>	Database Point Code <u>MIMA-AA43</u>
Primary Map Unit <u>TYL</u>	Assoc Code/Name <u>6403</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <i>use mapped point</i>	
GPS file name <u>M43r</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>21.3</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i> Corrected UTM X _____ m Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/31/06</u> Surveyors <u>Gawler & Sneddon</u>	Area surveyed: 25 m radius circle <u>10</u> other (describe) <u>dense</u>
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>47</u> m Slope _____ Aspect _____	
Topographic Position <u>depression</u>	
Landform _____	
Environmental Comments (including hydrology): 	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☒ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☐ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen _____ % deciduous	☐ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☐ Graminoid ☒ Forb ☐ Pteridophyte	☐ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☒ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☒ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	_____	_____	_____	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	_____	_____	<i>Cornus amomum</i> (not a layer) - sparse	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>03</u>	<u>10</u>	<i>Lycium</i> * <i>Impatiens</i> * <i>Onoclea</i> sp. <i>Polygonum sagittatum</i> <i>Eupatorium cernuicolum</i>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

peaked trees; *Acunulum*, *Salix*

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M45</u>	Database Point Code <u>MIMA-AA45</u>
Primary Map Unit <u>RMA</u>	Assoc Code/Name <u>red maple-black gum 6156</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>point is slightly drier than typical; on edge of pine oak</u> <u>note taken from swamp</u>	
GPS file name <u>M45a</u> Field UTM X _____ m E Field UTM Y _____ m N GPS Error <u>3.7</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled <i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/4/06</u> <u>6:50 PM</u> Surveyors <u>Arnell/Gardner</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle ☒ other (describe) _____

ENVIRONMENTAL DESCRIPTION

Elevation _____ m Slope _____ Aspect _____ Topographic Position <u>flat</u> Landform <u>basin</u>	Environmental Comments (including hydrology): <u>no standing water but seeps</u> <u>submerged</u>
Unvegetated Surface: (please use the cover scale below) ☒ Bedrock ☒ Litter/duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____	

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☒ Broad-leaved	☒ Forest	01 5%
☒ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☐ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☐ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "*")	Cover Class
T1 Emergent	—	—	—	—
T2 Canopy	<u>08</u>	<u>08</u>	<u>Acacia robusta</u>	—
T3 Sub-canopy	<u>06</u>	<u>04</u>	<u>Ulmus</u> <u>Tecoma</u>	—
S1 Tall shrub	<u>04</u>	<u>04</u> <u>06</u>	<u>Cleistanthus</u> <u>Rhus</u> <u>Rhacoma</u>	—
S2 Short Shrub	<u>03</u>	<u>06</u>	<u>Cleistanthus</u> <u>Vaccinium</u>	—
S3 Dwarf-shrub	—	—	—	—
H Herbaceous	<u>02</u>	<u>05</u>	<u>Cleistanthus</u> <u>Antyposia</u> <u>Quercus</u> <u>Rhus</u> <u>Viburnum</u>	<u>Melastomaceae</u> <u>Convolvulus</u>
N Non-vascular	—	<u>09</u>	<u>Sphagnum</u>	—
V Vine/liana	—	—	—	—

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>46</u>	Database Point Code <u>mima-AA 46</u>
Primary Map Unit <u>AF</u>	Assoc Code/Name <u>N/A</u>
Secondary Map Unit _____ Assoc Code/Name _____	
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>electric fence - horse pasture</u>	
GPS file name <u>M46r</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>7.7</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>	
Corrected UTM X _____ m E Corrected UTM Y _____ m N	UTM Zone <u>19</u>
Survey Date <u>8/31/06</u> Surveyors <u>Ganley & Smedley</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>54</u> m Slope _____ Aspect _____	
Topographic Position <u>lowland</u>	
Landform _____	
Environmental Comments (including hydrology): <u>replant</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☐ Litter, duff <u>0</u> ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☐ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen _____ % deciduous _____	☐ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☒ Graminoid ☐ Forb ☐ Pteridophyte	☐ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☒ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	_____	_____	_____	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>03</u>	<u>11</u>	<i>Agropyron repens</i> <i>Oxetilis glomeratus</i> <i>Phleum pratense</i> * <i>Solidago canadensis</i> <i>Echinochloa crus-galli</i>	
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments	Cover Scale:		Height Scale:	
	Strata and Species		Strata	
	01	5%	01	<0.5 m
	02	10%	02	0.5-1 m
	03	20%	03	1-2 m
	04	30%	04	2-5 m
	05	40%	05	5-10 m
	06	50%	06	10-15 m
	07	60%	07	15-20 m
	08	70%	08	20-35 m
	09	80%	09	35-50 m
	10	90%	10	>50 m
	11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>47</u>	Database Point Code <u>MIMA-AA47</u>
Primary Map Unit <u>AF</u>	Assoc Code/Name <u>N/A</u> <u>mgd. savanna</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>savanna-like - scattered trees but clearly open</u>	
GPS file name <u>M470</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>21.2</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>	
Corrected UTM X _____ m E Corrected UTM Y _____ m N	UTM Zone <u>19</u>
Survey Date <u>8/30/06</u> Surveyors <u>Snadden/Gawler</u>	Area surveyed: 25 m radius circle _____ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>62</u> m Slope _____ Aspect _____	
Topographic Position _____	
Landform _____	
Environmental Comments (including hydrology): _____	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☐ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☐ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen ☐ % deciduous <u>Herbs</u> ☐ Annual ☒ Perennial	☐ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☒ Graminoid ☐ Forb ☐ Pteridophyte	☐ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☒ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "*")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	06	04	Quercus rubra *	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	02	10	Oxytropis glomerata * Cirsium Phytolacca am. Silene alba * Solidago rigida	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>48</u>	Database Point Code <u>MIMA-AA48</u>
Primary Map Unit <u>OPF</u>	Assoc Code/Name <u>6293</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m <u>AF to south</u>	
Key or Classification Comments: <u>pretty much a slenderink</u> <u>is as obvious as we can get!</u>	
GPS file name <u>M480</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>5.8</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>	
Corrected UTM X _____ m E Corrected UTM Y _____ m N	UTM Zone <u>19</u>
Survey Date <u>8/30/06</u> Surveyors <u>Arnellon / Gowler</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>70</u> m Slope _____ Aspect _____	
Topographic Position _____	
Landform _____	
Environmental Comments (including hydrology): <u>upland</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock <u>10</u> Litter, duff ☒ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☐ Cold-deciduous ☒ Mixed evergreen - cold-deciduous ☐ % evergreen ☐ % deciduous	☐ Broad-leaved ☐ Needle-leaved ☒ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☒ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☐ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "*")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>07</u>	<u>09</u>	<u>Pinus strobus*, Quercus rubra*</u>	_____
T3 Sub-canopy	<u>06</u>	<u>01</u>	<u>Juniperus virginiana (senescent)</u>	_____
S1 Tall shrub	<u>04</u>	<u>01</u>	<u>Acer rubrum</u>	_____
S2 Short Shrub	<u>01</u>	<u>01</u>	<u>Rhamnus</u>	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>01</u>	<u>01</u>	<u>Chimaphila maculata*, Quercus sp. sdlg. Maianthemum</u>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments	Cover Scale:		Height Scale:	
	Strata and Species		Strata	
	01	5%	01	<0.5 m
	02	10%	02	0.5-1 m
	03	20%	03	1-2 m
	04	30%	04	2-5 m
	05	40%	05	5-10 m
	06	50%	06	10-15 m
	07	60%	07	15-20 m
	08	70%	08	20-35 m
	09	80%	09	35-50 m
	10	90%	10	>50 m
	11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>49</u>	Database Point Code <u>MIMA-AA49</u>
Primary Map Unit <u>TYL</u>	Assoc Code/Name <u>6153</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments:	

GPS file name <u>M49a</u>	Field UTM X _____	m E Field UTM Y _____	m N
GPS Error <u>20.1</u> m	GPS unit: Garmin GPSMAP 60CSx, WAAS enabled		
<i>please do not complete the following information when in the field</i>			
Corrected UTM X _____	m E Corrected UTM Y _____	m N	UTM Zone <u>19</u>

Survey Date <u>8/30/06</u> Surveyors <u>Snedden / Gawler</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle ☒ other (describe) _____
--	--

ENVIRONMENTAL DESCRIPTION

Elevation <u>35 ?</u> m	Slope _____	Aspect _____
Topographic Position <u>low level</u>		
Landform _____		

Environmental Comments (including hydrology): _____ _____ _____	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☐ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☒ Other: <u>water</u>
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VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☐ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen ☐ % deciduous	☐ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☒ Graminoid ☐ Forb ☐ Pteridophyte	☐ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☒ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☐ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "*")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	_____	_____	_____	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>03</u>	<u>10</u>	<i>Typha latifolia</i> * <i>Juncus salicaria</i> + <i>Sesuvium portulacastrum</i> * <i>Polygonum sagittatum</i>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

Cover Scale:
Strata and Species

Height Scale:
Strata

01	5%	01	<0.5 m
02	10%	02	0.5-1 m
03	20%	03	1-2 m
04	30%	04	2-5 m
05	40%	05	5-10 m
06	50%	06	10-15 m
07	60%	07	15-20 m
08	70%	08	20-35 m
09	80%	09	35-50 m
10	90%	10	>50 m
11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>50</u>	Database Point Code <u>MIMA - AA 50</u>
Primary Map Unit <u>OPF ?</u>	Assoc Code/Name <u>6293</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <i>could be called AF; clearly has been altered, but there are numerous young as well as more mature trees. example of need for "savanna" map vort.</i>	
GPS file name <u>M 50 A</u> Field UTM X _____ m E Field UTM Y _____ m N GPS Error <u>6.2</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled <i>please do not complete the following information when in the field</i> Corrected UTM X <u>X</u> m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/30/06</u> Surveyors <u>Snedden/Gawler</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle ☒ other (describe) _____

ENVIRONMENTAL DESCRIPTION

Elevation <u>72</u> m Slope _____ Aspect _____	
Topographic Position _____	
Landform _____	
Environmental Comments (including hydrology): _____ _____ _____	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☒ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☒ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen ☐ % deciduous <u>Herbs</u> ☐ Annual ☐ Perennial	☒ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☐ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated <i>Savanna!</i>	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>07</u>	<u>07</u>	<u>Quercus rubra</u> , <u>Quercus velutina</u>	_____
T3 Sub-canopy	<u>06</u>	<u>03</u>	<u>Panicum spirobous</u> <u>Fagus grand</u>	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	<u>02</u>	<u>05</u>	<u>Quercus rubra</u> * <u>Rubus occ</u>	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>02</u>	<u>07</u>	<u>Dactylis glomerata</u> * <u>Carex cf. debilis</u> (yellow-green, caespitose) (coll) <u>Anthoxanthum</u> <u>Holcus lanatus</u>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

herb layer patchy; one area dominated by
grasses, another by

Cover Scale: Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale: Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>51</u>	Database Point Code <u>MIMA-AA51</u>
Primary Map Unit <u>NOM</u>	Assoc Code/Name <u>7279</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>Robinia + Acer plot are about equal in cover, Frax am also present.</u> <u>MSF</u>	
GPS file name <u>M51r</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>5.7</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
please do not complete the following information when in the field Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8-31-06</u> Surveyors <u>Gardner & Snedden</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle ☒ other (describe) _____ <u>Offset point because it was on a trail</u>

ENVIRONMENTAL DESCRIPTION

Elevation <u>45</u> m Slope <u>gentle</u> Aspect <u>N</u>	
Topographic Position <u>low slope</u>	
Landform _____	
Environmental Comments (including hydrology): <u>upland</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☒ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen ☐ % deciduous <u>Herbs</u> ☐ Annual ☐ Perennial	☒ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☒ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>08</u>	<u>07</u>	<i>Cobinia pseudoacacia</i> } about equal <i>Acer platanifolium</i> } <i>Ficus am</i> <i>Prunus serotina</i>	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	<u>04</u>	<u>06</u>	<i>Rhamnus cathartica</i> <i>Lonicera</i> (orange berries)	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>02</u>	<u>04</u>	<i>Osmunda cinnamomea</i> <i>Athyrium filix-femina</i> * <i>Cladonia</i> <i>Asplenium trichomanes</i>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	<u>05</u>	<i>Rubus flagellaris</i> <i>Toxos</i>	_____
Comments			Cover Scale: Strata and Species 01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%	Height Scale: Strata 01 <0.5 m 02 0.5-1 m 03 1-2 m 04 2-5 m 05 5-10 m 06 10-15 m 07 15-20 m 08 20-35 m 09 35-50 m 10 >50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M52</u>	Database Point Code <u>MIMA-AA52</u>
Primary Map Unit <u>OPF</u>	Assoc Code/Name <u>mixed oak-white pine 6293</u>
Secondary Map Unit <u>OMP</u>	Assoc Code/Name <u>oak-red maple 6506</u>
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: 	

GPS file name <u>M52a</u>	Field UTM X _____ m E Field UTM Y _____ m N	GPS Error <u>4.7</u> m
GPS unit: Garmin GPSMAP 60CSx, WAAS enabled		
please do not complete the following information when in the field		
Corrected UTM X _____ m E Corrected UTM Y _____ m N	UTM Zone <u>19</u>	

Survey Date <u>8/4/06</u> ^{7:05pm} Surveyors <u>Butler, Baudin</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle ☒ other (describe) _____
---	--

ENVIRONMENTAL DESCRIPTION

Elevation _____ m	Slope <u>gentle</u>	Aspect <u>W</u>
Topographic Position <u>mid slope</u>		
Landform <u>glaciated uplands</u>		

Environmental Comments (including hydrology): <u>upland; scattered rock outcrops</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☒ Large rocks (cobbles, boulders > 10 cm) <u>X</u> ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____
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VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☐ Cold-deciduous ☒ Mixed evergreen - cold-deciduous ☐ % evergreen ☐ % deciduous	☐ Broad-leaved ☐ Needle-leaved ☒ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☒ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☐ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>09</u>	<u>10</u>	<u>P. strobus</u> <u>Quercus rubra</u> <u>Acer rub</u>	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	<u>03</u>	<u>05</u>	<u>Corylus americana</u> <u>Rhamnus cocc.</u>	_____
S3 Dwarf-shrub	<u>01</u>	_____	_____	_____
H Herbaceous	<u>02</u>	<u>06</u>	<u>Tox. rad-don</u> <u>Vacc. c. ang</u> <u>T. mentalis</u> <u>Maianthemum</u> <u>Athyrium filix-femina</u> - <u>don</u> <u>Pennstemon</u> <u>Quercus s. l.</u> <u>Parthenociss</u>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

patchy dominance in herb layer

Cover Scale: Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale: Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>53</u>	Database Point Code <u>MIMA-AA53</u>
Primary Map Unit <u>? NOM?</u>	Assoc Code/Name <u>6599</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <i>this is a modified successional forest - scattered trees w/ dense shrub layer, not a wetland</i>	
GPS file name <u>A153A</u>	Field UTM X _____ m E Field UTM Y _____ m N
GPS Error <u>6.6</u> m	GPS unit: Garmin GPSMAP 60CSx, WAAS enabled
<i>please do not complete the following information when in the field</i>	
Corrected UTM X _____ m E Corrected UTM Y _____ m N	UTM Zone <u>19</u>
Survey Date <u>8/30/06</u> Surveyors <u>Snedden / Gawler</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle _____ other (describe) <u>X</u> <i>smaller area because it is so impenetrable!</i>

ENVIRONMENTAL DESCRIPTION

Elevation <u>63</u> m	Slope _____ Aspect _____
Topographic Position _____	
Landform _____	
Environmental Comments (including hydrology): <i>seems to be an upland, but sloping gently</i>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☐ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen _____ % deciduous _____	☐ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☐ Forest ☒ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated <i>Crap</i>	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☐ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>06</u>	<u>06</u>	<u>Fraxinus americana</u> <u>Prunus serotina</u> <u>Quercus rubra</u>	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	<u>04</u>	<u>10</u>	<u>Rhamnus*</u>	_____
S2 Short Shrub	<u>02</u>	<u>06</u>	<u>Lonicera opacifolia</u>	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>01</u>	<u>01</u>	<u>Arisaema triphyllum</u> <u>alluvia</u> <u>Cissampelos</u>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	<u>01</u>	<u>Vitis</u>	_____

Comments

what a mess!

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M55</u>	Database Point Code <u>MIMA-AA55</u>
Primary Map Unit <u>fen</u>	Assoc Code/Name <u>Deltaic catclaw 6549</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments:	
GPS file name <u>M55a</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>3.5</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>	
Corrected UTM X <u>2</u> m E Corrected UTM Y _____ m N	UTM Zone <u>19</u>
Survey Date <u>8/4/06</u> <u>6:30 p</u> Surveyors <u>Snedden / Condon</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation _____ m Slope _____ Aspect _____	
Topographic Position <u>basin</u>	
Landform _____	
Environmental Comments (including hydrology): <u>Scrubbed - boggy / peat / some subside</u> <u>600</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☐ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☒ Other: <u>peat</u>

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☐ Broad-leaved	☐ Forest	01 5%
☐ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☒ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☐ Herbaceous	05 40%
	☐ Pteridophyte	☐ Nonvascular	06 50%
<u>Herbs</u>		☐ Sparsely Vegetated	07 60%
☐ Annual			08 70%
☐ Perennial			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	_____	_____	_____	_____
T3 Sub-canopy	<u>04</u>	<u>01</u>	<u>leucocarpus sapling</u>	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	<u>02</u>	<u>01</u>	<u>Spirea tomentosa</u>	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>02</u>	<u>10</u>	<u>Glyceria canadensis</u> <u>Helipellis pol</u> <u>Lychnis viscaria</u> <u>Thalictrum</u> <u>Carex</u> <u>Edm</u> - <u>corolla to 10</u> <u>Asplenium</u>	_____
N Non-vascular	<u>04</u>	<u>04</u>	<u>Lophocarpus</u>	_____
V Vine/liana	_____	_____	_____	_____

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>56</u>	Database Point Code <u>MIMA-AA56</u>
Primary Map Unit <u>OMP</u>	Assoc Code/Name <u>6506</u>
Secondary Map Unit <u>OHH</u>	Assoc Code/Name <u>6336</u>
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <i>not could be confused w/ OHH - Acc plot is fairly abundant</i> <i>could be confused w/ OHH (little pine in understory, but not in canopy)</i> <i>based on oaks</i>	
GPS file name <u>M56A</u>	Field UTM X _____ m E Field UTM Y _____ m N
GPS Error <u>5.5</u> m	GPS unit: Garmin GPSMAP 60CSx, WAAS enabled
<i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/30/06</u> Surveyors <u>Snedden/Garner</u> Park Site Name: _____	Area surveyed: 25 m radius circle ☒ other (describe) _____
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>66</u> m Slope _____ Aspect _____	
Topographic Position _____	
Landform _____	
Environmental Comments (including hydrology): <i>Collapsed stone wall</i> <i>deck car</i>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☒ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☒ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen ☐ % deciduous	☒ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☒ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☐ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>07</u>	<u>08</u>	<u>Quercus rubra</u> , <u>Quercus velutina</u>	_____
T3 Sub-canopy	_____	_____	<u>Acer rubens</u> *, <u>Pinus strobus</u>	_____
S1 Tall shrub	<u>04</u>	<u>04</u>	<u>Rhamnus</u> * <u>Acer rubens</u> <u>Juniperus</u>	_____
S2 Short Shrub	<u>03</u>	<u>07</u>	<u>Rhamnus</u> * <u>Gaylussacia</u> <u>Lyonia</u> <u>Loiseleuria</u> <u>Corylus americana</u>	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>02</u>	<u>03</u>	<u>Polygonatum biflorum</u> <u>Chimaphila</u> * <u>Sedum</u> <u>Miscanthus</u> <u>Convallaria</u> *	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	<u>07</u>	<u>Toxodendron</u> * <u>Celastrus</u>	_____

Comments

Cover Scale: Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale: Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>58</u>	Database Point Code <u>MIMA-AA58</u>
Primary Map Unit <u>WPI</u>	Assoc Code/Name <u>minioak-white pine pine variant 6293</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments:	

GPS file name <u>M58a</u>	Field UTM X _____ m E	Field UTM Y _____ m N	
GPS Error <u>8.2</u> m	GPS unit: Garmin GPSMAP 60CSx, WAAS enabled		
<i>please do not complete the following information when in the field</i>			
Corrected UTM X _____	Corrected UTM Y _____	UTM Zone <u>19</u>	

Survey Date <u>8/30/06</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Surveyors <u>Sredon/Gawler</u>	
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u>	Quad Code _____

ENVIRONMENTAL DESCRIPTION

Elevation <u>60</u> m	Slope <u>gentle</u>	Aspect <u>N</u>	
Topographic Position _____			
Landform _____			

Environmental Comments (including hydrology): <u>upland</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____
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VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☒ Evergreen Cold-deciduous Mixed evergreen - cold-deciduous % evergreen % deciduous	Broad-leaved ☒ Needle-leaved Mixed Broad/Needle leaved Graminoid Forb Pteridophyte	☒ Forest Woodland Shrubland Dwarf Shrubland Herbaceous Nonvascular Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> Annual Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>08</u>	<u>09</u>	<u>Pinus strobus * Quercus rubra</u>	_____
T3 Sub-canopy	<u>04</u>	<u>01</u>	<u>Acer platanus, Rhamnus, Juniperus</u> <u>Taxus canadensis</u>	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	<u>03</u>	<u>01</u>	<u>Rhamnus*, Fraxinus americana</u>	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>02</u>	<u>05</u>	<u>*Tox net</u>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments	Cover Scale:		Height Scale:	
	Strata and Species		Strata	
	01	5%	01	<0.5 m
	02	10%	02	0.5-1 m
	03	20%	03	1-2 m
	04	30%	04	2-5 m
	05	40%	05	5-10 m
	06	50%	06	10-15 m
	07	60%	07	15-20 m
	08	70%	08	20-35 m
	09	80%	09	35-50 m
	10	90%	10	>50 m
	11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>59</u>	Database Point Code <u>MIMA-AA59</u>
Primary Map Unit <u>RMA</u>	Assoc Code/Name <u>6406</u>
Secondary Map Unit <u>OMP</u>	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <i>not very wet! Probably typed as OMP (white pine is nearby) Atypical example.</i>	
GPS file name <u>M59r</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>7.1</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/31/06</u> Surveyors <u>Gawler & Snedden</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle ☒ other (describe) _____

ENVIRONMENTAL DESCRIPTION

Elevation <u>47</u> m Slope <u>gentle</u> Aspect _____	
Topographic Position <u>low slope</u>	
Landform _____	
Environmental Comments (including hydrology): <i>? no standing water not peaty or mucchy but surface damp. water may be near the surface. Leaf litter dark & damp in places</i>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☒ Broad-leaved	☒ Forest	01 5%
☒ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☐ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☐ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent				
T2 Canopy	08	09	<i>Acacia robusta</i> * <i>Pinus strobus</i> (occasional)	
T3 Sub-canopy	06	01	<i>Pinus strobus</i>	
S1 Tall shrub			<i>Rhamnus</i> * - dm <i>Lindera benzoin</i> - common <i>Viburnum dentatum</i>	
S2 Short Shrub				
S3 Dwarf-shrub				
H Herbaceous	02	02	<i>Osmunda sensibilis</i> <i>Arisaema triphyllum</i> <i>Athyrium filix-femina</i> <i>Maskegonia canadensis</i> <i>Carex</i> - coll	
N Non-vascular		<01	feather mosses - no Sphagnum	
V Vine/liana	05	04	<i>Tox red</i> * <i>Parthenocissus quinifolia</i>	

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>60</u>	Database Point Code <u>MIMA-AA60</u>
Primary Map Unit <u>OPF</u>	Assoc Code/Name <u>6293</u>
Secondary Map Unit <u>OHV</u>	Assoc Code/Name <u>6336</u>
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments:	
GPS file name <u>M 60 a</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>4.7</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>	
Corrected UTM X _____ m E	Corrected UTM Y _____ m N UTM Zone <u>19</u>
Survey Date <u>8/30/06</u> Surveyors <u>Sneddon/Ganley</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>91</u> m Slope _____ Aspect _____	
Topographic Position _____	
Landform _____	
Environmental Comments (including hydrology):	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☐ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen ☐ % deciduous	☐ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☐ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☐ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	—	—	—	—
T2 Canopy	<u>08</u>	<u>09</u>	<i>Quercus muhlenbergii</i> <i>Pinus strobus</i>	—
T3 Sub-canopy	<u>06</u>	<u>04</u>	<i>Acer saccharum</i> * <i>Amygdalus glabra</i> <i>Ostrya virginica</i> <i>Acer rubrum</i> <i>Fagus grandifolia</i> <i>Pinus strobus</i>	—
S1 Tall shrub	<u>04</u>	<u>02</u>	<i>Rhamnus</i>	—
S2 Short Shrub	<u>03</u>	<u>06</u>	<i>Corylus americana</i> * <i>Rosa multiflora</i> <i>Vaccinium angustifolium</i> (myrtle leaf) <i>Viburnum dentatum</i> (rare) <i>Rhamnus</i> <i>Vacc corymb</i>	—
S3 Dwarf-shrub	—	—	—	—
H Herbaceous	<u>02</u>	<u>02</u>	<i>Chimaphila maculata</i> <i>Maianthemum canadense</i> <i>Osmunda cinnamomea</i> <i>Trout lily</i>	—
N Non-vascular	—	—	—	—
V Vine/liana	—	—	<i>Parthenocissus quinquefolia</i>	—

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>601</u>	Database Point Code <u>MIMA-AA61</u>
Primary Map Unit <u>OMP</u>	Assoc Code/Name <u>6506</u>
Secondary Map Unit <u>WPI</u>	Assoc Code/Name <u>6293</u>
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <i>lots of pine - probably typed as WPI</i> <i>Point has no understory to speak of, but young white pines from a thick low subcanopy just adjacent to point</i>	
GPS file name <u>M61r</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>5.5</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/31/06</u> Surveyors <u>Gawler & Sneddon</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle ☒ other (describe) _____

ENVIRONMENTAL DESCRIPTION

Elevation <u>54</u> m Slope _____ Aspect _____	
Topographic Position <u>flat</u>	
Landform _____	
Environmental Comments (including hydrology): <i>upland; adjacent wetland</i>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☐ Broad-leaved	☒ Forest	01 5%
☐ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☒ Mixed evergreen - cold-deciduous	☒ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☐ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☒ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent				
T2 Canopy	08	10	<i>Pinus strobus</i> * <i>Acer rubrum</i> - abundant <i>Quercus rubra</i>	
T3 Sub-canopy	05	04	<i>Pinus strobus</i>	
S1 Tall shrub	03	03	<i>Rhamnus</i> * <i>Pinus strobus</i> <i>Rhododendron viscosum</i> (!) - on edge	
S2 Short Shrub				
S3 Dwarf-shrub	01	01	<i>Vaccinium angustifolium</i>	
H Herbaceous	01	02	<i>Meianthemum</i> <i>Mitchella</i> <i>Tiarella</i> <i>Osmunda cinnamomea</i> (!) <i>Thelypteris novaeboracensis</i>	
N Non-vascular				
V Vine/liana				

Comments

This polygon is heterogeneous.
There is a large area of *P. strobus*, *Acer rubrum*,
& *Osmunda cinnamomea*. Definitely
a wetland.

Cover Scale: Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale: Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>62</u>	Database Point Code <u>mima-AA62</u>
Primary Map Unit <u>OMP</u>	Assoc Code/Name <u>16506</u>
Secondary Map Unit <u>OPF</u>	Assoc Code/Name <u>6293</u>
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <i>old field with many senescent junipers in the understory</i> <i>Acu flat more common than Deer subunit.</i>	
GPS file name <u>M62r</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>19.8</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/31/06</u> Surveyors <u>Gawler & Snedden</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle ☒ other (describe) _____

ENVIRONMENTAL DESCRIPTION

Elevation <u>66</u> m Slope _____ Aspect _____	
Topographic Position <u>flat</u>	
Landform _____	
Environmental Comments (including hydrology): 	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☐ Cold-deciduous ☒ Mixed evergreen - cold-deciduous % evergreen % deciduous	☐ Broad-leaved ☐ Needle-leaved ☒ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☒ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☒ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent				
T2 Canopy	<u>07</u>	<u>08</u>	<i>Quercus rubra</i> * <i>Pinus strobus</i> (scattered) <i>Acer platanoides</i> - common	
T3 Sub-canopy	<u>05</u>	<u>04</u>	<i>Acer rubrum</i> * <i>Juniperus virginiana</i> * <i>Pinus rigida</i> <i>Pinus strobus</i>	
S1 Tall shrub	<u>04</u>	<u>04</u>	<i>Rhamnus cathartica</i> * <i>Acer platanoides</i>	
S2 Short Shrub	<u>02</u>	<u>03</u>	<i>Rhamnus cathartica</i> * <i>Gaylussacia bracteata</i> <i>Vaccinium corymbosum</i>	
S3 Dwarf-shrub				
H Herbaceous	<u>01</u>	<u>01</u>	<i>Maianthemum canadense</i> * <i>Quercus rubra</i> sdlg <i>Lycopodium obscurum</i>	
N Non-vascular				
V Vine/liana		<u>01</u>	<i>Smilax rotundifolia</i>	

Comments

Cover Scale: Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale: Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>63</u>	Database Point Code <u>MIMA - A463</u>
Primary Map Unit <u>OPF - wpl</u>	Assoc Code/Name <u>6293</u>
Secondary Map Unit <u>OMP</u>	Assoc Code/Name <u>6506</u>
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments:	
GPS file name <u>M63r</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>6.8</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>	
Corrected UTM X <u>72</u>	m E Corrected UTM Y _____ m N UTM Zone <u>19</u>
Survey Date <u>8/31/06</u> Surveyors <u>Gawler & Snedden</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>81</u> m Slope <u>gentle</u>	Aspect <u>NW</u>
Topographic Position <u>midslope</u>	
Landform _____	
Environmental Comments (including hydrology):	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☒ Evergreen ☐ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen ☐ % deciduous <u>Herbs</u> ☐ Annual ☐ Perennial	☐ Broad-leaved ☒ Needle-leaved ☐ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☒ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	08	08	<i>Pinus strobus</i> <i>Quercus rubra</i>	
T2 Canopy	07	07	<i>Quercus rubra</i> * <i>Acer rubrum</i> - common	
T3 Sub-canopy				
S1 Tall shrub	04	07	<i>Rhamnus cathartica</i> * <i>Fraxinus americana</i> sapling <i>Vaccinium corymbosum</i> <i>Viburnum acerifolium</i>	<i>Betula lenta</i> <i>Acer rubrum</i>
S2 Short Shrub				
S3 Dwarf-shrub				
H Herbaceous	01	01	<i>Quercus rubra</i> sdlg <i>Pinus strobus</i> sdlg <i>Thymalis borealis</i> <i>Acer rubrum</i> sdlg <i>Mitchella repens</i>	<i>Maianthemum canadense</i>
N Non-vascular				
V Vine/liana			<i>Rubus c. flagellaris</i> <i>Tox. rad.</i> <i>Partheno</i> <i>Vitis</i> sp	<i>Rubus idaeus</i>
Comments				

	Cover Scale:	Height Scale:
	Strata and Species	Strata
	01 5%	01 <0.5 m
	02 10%	02 0.5-1 m
	03 20%	03 1-2 m
	04 30%	04 2-5 m
	05 40%	05 5-10 m
	06 50%	06 10-15 m
	07 60%	07 15-20 m
	08 70%	08 20-35 m
	09 80%	09 35-50 m
	10 90%	10 >50 m
	11 100%	

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>64</u>	Database Point Code <u>MIMA-AA64</u>
Primary Map Unit <u>AF</u>	Assoc Code/Name <u>NIA</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>Area: scattered trees</u>	
GPS file name <u>M640</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>19.3</u> (1) m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/30/06</u> Surveyors <u>Sneadon / Gowler</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>56</u> m Slope _____ Aspect _____	
Topographic Position _____	
Landform _____	
Environmental Comments (including hydrology): <u>upland</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☒ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☐ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen ☐ % deciduous <u>Herbs</u> ☐ Annual ☐ Perennial	☐ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☐ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☒ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated <u>PAVIA</u>	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>07</u>	<u>04</u>	<u>Quercus velutina</u> <u>Fernox americana</u> <u>Erechtites hieracifolia</u>	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>01</u>	<u>10</u>	<u>Festuca *</u> <u>Setaria</u> <u>Digitaria</u> <u>Portia comiculata</u> <u>Nelapais</u>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments	Cover Scale:		Height Scale:	
	Strata and Species		Strata	
	01	5%	01	<0.5 m
	02	10%	02	0.5-1 m
	03	20%	03	1-2 m
	04	30%	04	2-5 m
	05	40%	05	5-10 m
	06	50%	06	10-15 m
	07	60%	07	15-20 m
	08	70%	08	20-35 m
	09	80%	09	35-50 m
	10	90%	10	>50 m
	11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>68</u>	Database Point Code <u>MIMA-AA65</u>
Primary Map Unit <u>OPF</u>	Assoc Code/Name <u>6293</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>pretty straightforward</u>	
GPS file name <u>M65A</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>7.1</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
~~please do not complete the following information when in the field~~	
Corrected UTM X _____ m E Corrected UTM Y _____ m N	UTM Zone <u>19</u>
Survey Date <u>8/31/06</u> Surveyors <u>Sneddon/Garlick</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>61</u> m Slope <u>mod-gentle</u> Aspect <u>NW</u>	
Topographic Position <u>mesoslope</u>	
Landform _____	
Environmental Comments (including hydrology): <u>upland</u>	Unvegetated Surface: (please use the cover scale below) _____ Bedrock ☒ Litter, duff _____ Wood (> 1 cm) ☒ Large rocks (cobbles, boulders > 10 cm) _____ Small rocks (gravel, 0.2-10 cm) _____ Sand (0.1-2 mm) _____ Bare soil _____ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> _____ Evergreen _____ Cold-deciduous ☒ Mixed evergreen - cold-deciduous _____ % evergreen _____ % deciduous <u>Herbs</u> _____ Annual _____ Perennial	_____ Broad-leaved _____ Needle-leaved ☒ Mixed Broad/Needle leaved _____ Graminoid _____ Forb _____ Pteridophyte	☒ Forest _____ Woodland _____ Shrubland _____ Dwarf Shrubland _____ Herbaceous _____ Nonvascular _____ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>08</u>	<u>09</u>	<u>Quercus rubra</u> <u>Pinus strobus</u>	_____
T3 Sub-canopy	<u>07</u>	<u>07</u>	<u>Fagus grandifolia *</u> <u>Acer rubrum</u>	_____
S1 Tall shrub	<u>04</u>	<u>03</u>	<u>Ostrya virginiana</u> <u>Pinus strobus</u>	_____
S2 Short Shrub	<u>03</u>	<u>05</u>	<u>Vaccinium angustifolium</u> <u>Vaccinium (small & large leaflets)</u> <u>Ostrya virginiana</u> <u>Quercus rubra</u>	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	_____	_____	<u>Maianthemum canadense</u> <u>Dryopteris intermedia</u>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>66</u>	Database Point Code <u>mima-aa66</u>
Primary Map Unit <u>AF</u>	Assoc Code/Name <u>N/A</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>standunk</u> <u>(trees on edges only)</u>	
GPS file name <u>M66r</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>16.7</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/31/06</u> Surveyors <u>Gawler & Smedley</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>61</u> m Slope _____ Aspect _____	
Topographic Position <u>flr</u>	
Landform _____	
Environmental Comments (including hydrology): <u>upland</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☐ Broad-leaved	☐ Forest	01 5%
☐ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☒ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☒ Herbaceous	05 40%
	☐ Pteridophyte	☐ Nonvascular	06 50%
<u>Herbs</u>		☐ Sparsely Vegetated	07 60%
☐ Annual			08 70%
☒ Perennial			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	_____	_____	_____	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	01	11	<i>Asclepias syriaca</i> <i>Aster</i> <i>Convolvulus</i> <i>Dactylis glomerata</i> *	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Cover Scale:		Height Scale:	
Strata	Species	Strata	Height
01	5%	01	<0.5 m
02	10%	02	0.5-1 m
03	20%	03	1-2 m
04	30%	04	2-5 m
05	40%	05	5-10 m
06	50%	06	10-15 m
07	60%	07	15-20 m
08	70%	08	20-35 m
09	80%	09	35-50 m
10	90%	10	>50 m
11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>68</u>	Database Point Code <u>mima-AA68</u>
Primary Map Unit <u>NOM</u>	Assoc Code/Name <u>6407</u>
Secondary Map Unit <u>OMP</u>	Assoc Code/Name <u>6506</u>
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <i>This is a very heterogeneous polygon. From the point, the white pines are barely visible. Very pinky, indicating a sea of vines.</i>	
GPS file name <u>M68r</u> Field UTM X _____ m E Field UTM Y _____ m N GPS Error <u>5.8</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled ~~please do not complete the following information when in the field~~ Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/31/06</u> Surveyors <u>Gawler & Sneddon</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle ☒ other (describe) _____

ENVIRONMENTAL DESCRIPTION

Elevation <u>80</u> m Slope <u>gentle</u> Aspect _____ Topographic Position <u>upper slope</u> Landform _____	Environmental Comments (including hydrology): <i>rolling upland</i>
Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☒ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____	

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☒ Broad-leaved	☒ Forest	01 5%
☒ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☐ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☐ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>07</u>	<u>07</u>	<i>Acacia</i> * <i>Colonia</i> (<i>Pinus strobus</i> - visible in the distance)	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	<u>03</u>	<u>02</u>	<i>Rhamnus</i> <i>Ficus</i> <i>Rosa</i>	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>02</u>	<u>05</u>	<i>Alliaria</i> * <i>Anemone triphyllum</i>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	* <u>07</u>	<u>07</u>	<i>Campis radicans</i> * very thick trunks fox red	_____
from dense canopy in trees			_____	_____

Comments

Very young & heterogeneous.
 A sawy spruce present in polygon.
 Vines have altered the tree structure by forming
 thick trunks and a "subcanopy" of the tree canopy.

Cover Scale:

Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:

Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>m69</u>	Database Point Code <u>MIMA-AA69</u>
Primary Map Unit <u>OPF</u>	Assoc Code/Name <u>6293</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m <u>residential</u>	
Key or Classification Comments: if this isn't OPF/6293, I don't know what it is. Though herbs as indicators are present.	
GPS file name <u>m69a</u> Field UTM X _____ m E Field UTM Y _____ m N GPS Error <u>7.2</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled <i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/24/06</u> ^{10:10 AM} Surveyors <u>Gawley</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle ☒ other (describe) _____

ENVIRONMENTAL DESCRIPTION

Elevation <u>75</u> m Slope <u>5%</u> Aspect <u>SSW</u> Topographic Position <u>mid slope</u> Landform <u>low rolling hill / till plain</u>	Environmental Comments (including hydrology): Unvegetated Surface: (please use the cover scale below) ☒ Bedrock ☒ Litter, duff ☒ Wood (> 1 cm) ☒ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____
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VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☐ Broad-leaved	☒ Forest	01 5%
☐ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☒ Mixed evergreen - cold-deciduous	☒ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
<u>40</u> % evergreen _____ % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☐ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☐ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent				
T2 Canopy	06	80%	Pin str D Que rub D * Fag gra	40% 50% 10%
T3 Sub-canopy	06	10%	Carya glabra Pin str	check ID
S1 Tall shrub	04	10%	Acer rubrum Carya glabra Prunus penn	
S2 Short Shrub	03	5%	Rham cath Acer rub ~~Rham cath~~ Gay bac	01 01 01
S3 Dwarf-shrub	01	5%	Gay bac mich repens Vac arg	01 01
H Herbaceous	01	5%	Aralia nudic	
N Non-vascular				
V Vine/liana				

Comments

virtually NO herbs

Cover Scale:

Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:

Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>71</u>	Database Point Code <u>MIMA-AA71</u>
Primary Map Unit <u>OPF</u>	Assoc Code/Name <u>6293</u>
Secondary Map Unit <u>OMP</u>	Assoc Code/Name <u>6506</u>
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments:	

GPS file name <u>M71a</u>	Field UTM X _____ m E	Field UTM Y _____ m N
GPS Error <u>8.3</u> m	GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>		
Corrected UTM X _____	m E Corrected UTM Y _____	UTM Zone <u>19</u>

Survey Date <u>8/30/06</u> Surveyors <u>Snedden/Gawler</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle ☒ other (describe) _____
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ENVIRONMENTAL DESCRIPTION

Elevation <u>56</u> m	Slope <u>gentle</u>	Aspect _____
Topographic Position _____		
Landform _____		
Environmental Comments (including hydrology): <u>upland</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____	

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☐ Cold-deciduous ☒ Mixed evergreen - cold-deciduous % evergreen % deciduous	☐ Broad-leaved ☐ Needle-leaved ☒ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☒ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☐ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>08</u>	<u>08</u>	<u>Pinus strobus</u> <u>Quercus rubra</u> <u>Quercus alba</u>	_____
T3 Sub-canopy	<u>06</u>	<u>01</u>	<u>Acer rubrum</u> <u>Pinus strobus</u>	_____
S1 Tall shrub	<u>04</u>	<u>02</u>	<u>Rhamnus</u> <u>Acer rubrum</u> <u>Pinus strobus</u>	_____
S2 Short Shrub	<u>02</u>	<u>04</u>	<u>Rhamnus</u> * <u>Quercus alba</u> sdlg <u>Carya</u> sdlg	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>01</u>	<u>01</u>	<u>Chimaphila maculata</u> * <u>Mn. artemisium</u>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	<u>Toxicodendron radicans</u>	_____

Comments

Cover Scale:
Strata and Species

Height Scale:
Strata

01	5%	01	<0.5 m
02	10%	02	0.5-1 m
03	20%	03	1-2 m
04	30%	04	2-5 m
05	40%	05	5-10 m
06	50%	06	10-15 m
07	60%	07	15-20 m
08	70%	08	20-35 m
09	80%	09	35-50 m
10	90%	10	>50 m
11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>72</u>	Database Point Code <u>MIMA-AA 72</u>
Primary Map Unit <u>NOM</u>	Assoc Code/Name <u>Amphib 6407</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments:	

GPS file name <u>M 72a</u>	Field UTM X _____ m E	Field UTM Y _____ m N	
GPS Error <u>6.1</u> m	GPS unit: Garmin GPSMAP 60CSx, WAAS enabled		
<i>please do not complete the following information when in the field</i>			
Corrected UTM X _____ m E	Corrected UTM Y _____ m N	UTM Zone <u>19</u>	

Survey Date <u>8/30/06</u> Surveyors <u>Smidson/Carver</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle ☒ other (describe) _____
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ENVIRONMENTAL DESCRIPTION

Elevation <u>100</u> (?) m	Slope _____	Aspect _____
Topographic Position <u>flat</u>		
Landform _____		
Environmental Comments (including hydrology): 	Unvegetated Surface: (please use the cover scale below) <u>02</u> Bedrock <u>16</u> Litter, duff _____ Wood (> 1 cm) _____ Large rocks (cobbles, boulders > 10 cm) _____ Small rocks (gravel, 0.2-10 cm) _____ Sand (0.1-2 mm) _____ Bare soil _____ Other: _____	

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
____ Evergreen	☒ Broad-leaved	☒ Forest	01 5%
☒ Cold-deciduous	____ Needle-leaved	____ Woodland	02 10%
____ Mixed evergreen - cold-deciduous	____ Mixed Broad/Needle leaved	____ Shrubland	03 20%
____ % evergreen ____ % deciduous	____ Graminoid	____ Dwarf Shrubland	04 30%
	____ Forb	____ Herbaceous	05 40%
	____ Pteridophyte	____ Nonvascular	06 50%
<u>Herbs</u>		____ Sparsely Vegetated	07 60%
____ Annual			08 70%
____ Perennial			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>08</u>	<u>10</u>	<u>Acu platanoides*</u> <u>Piceus perotina</u> <u>Ulmus rubra</u>	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	<u>02</u>	<u>01</u>	<u>Rhamnus</u>	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>01</u>	<u>02</u>	<u>Acu platanoides*</u> <u>Toxicodendron radicans</u> <u>Parthenocissus quinquefolia</u> <u>Arisaema-tuphyllens*</u>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

understory looks clearcut, herb layer adjacent to
point much more well-developed (w/
Toxnet & Rhamnus)

Cover Scale: Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale: Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>73</u>	Database Point Code <u>MIMA - AA73</u>
Primary Map Unit <u>ARB</u>	Assoc Code/Name <u>N/A</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <i>actively grazed pasture - didn't venture in and tangle w/ the cows...</i>	
GPS file name _____ Field UTM X _____ m E Field UTM Y _____ m N GPS Error _____ m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled <i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/30/06</u> Surveyors <u>Snedder / Gawler</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle _____ other (describe) _____

ENVIRONMENTAL DESCRIPTION

Elevation _____ m Slope _____ Aspect _____	
Topographic Position _____	
Landform _____	
Environmental Comments (including hydrology): 	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☐ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☐ Broad-leaved	☐ Forest	01 5%
☐ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☐ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☐ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
			_____	_____
			_____	_____
T2 Canopy	_____	_____	_____	_____
			_____	_____
			_____	_____
			_____	_____
T3 Sub-canopy	_____	_____	_____	_____
			_____	_____
			_____	_____
S1 Tall shrub	_____	_____	_____	_____
			_____	_____
			_____	_____
S2 Short Shrub	_____	_____	_____	_____
			_____	_____
			_____	_____
			_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
			_____	_____
			_____	_____
H Herbaceous	_____	_____	_____	_____
			_____	_____
			_____	_____
			_____	_____
N Non-vascular	_____	_____	_____	_____
			_____	_____
V Vine/liana	_____	_____	_____	_____
			_____	_____

Comments	Cover Scale:		Height Scale:	
	Strata and Species		Strata	
	01	5%	01	<0.5 m
	02	10%	02	0.5-1 m
	03	20%	03	1-2 m
	04	30%	04	2-5 m
	05	40%	05	5-10 m
	06	50%	06	10-15 m
	07	60%	07	15-20 m
	08	70%	08	20-35 m
	09	80%	09	35-50 m
10	90%	10	>50 m	
	11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>74</u>	Database Point Code <u>MIMA-AA74</u>
Primary Map Unit <u>NOM</u>	Assoc Code/Name <u>Acn platensis 6407</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <i>Extremely trashy veg. This is MSF (= "NOM" map code here)</i>	
GPS file name <u>A1741</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>21.2</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>	
Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/31/06</u> Surveyors <u>Snedden/Gawler</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>reads 23m - not leave blank</u> Slope _____ Aspect _____	
Topographic Position _____	
Landform _____	
Environmental Comments (including hydrology): <i>upland looks all though it was recently there next many stumps</i>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☒ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen ☐ % deciduous	☒ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☐ Forest ☒ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☐ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>07</u>	<u>07</u>	<i>Alnus incana</i> * <i>Fraxinus americana</i>	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	<u>02</u>	<u>06</u>	<i>Lonicera morrowii</i>	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>02</u>	<u>09</u>	<i>Phytolacca americana</i> * <i>Allium</i> <i>V. acerifolius</i> <i>buffalo</i> <i>Sisyrinchium albidum</i> <i>Oxalis stricta</i> <i>Pteris</i>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	<u>04</u>	<i>Vitis</i> <i>Toxaria</i> <i>Chloris</i>	_____

Comments

Cover Scale:
Strata and Species

Height Scale:
Strata

01	5%	01	<0.5 m
02	10%	02	0.5-1 m
03	20%	03	1-2 m
04	30%	04	2-5 m
05	40%	05	5-10 m
06	50%	06	10-15 m
07	60%	07	15-20 m
08	70%	08	20-35 m
09	80%	09	35-50 m
10	90%	10	>50 m
11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>75</u>	Database Point Code <u>MIMA-AA75</u>
Primary Map Unit <u>RMA</u>	Assoc Code/Name <u>6156</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments:	

GPS file name <u>M75a</u>	Field UTM X _____	m E Field UTM Y _____	m N	
GPS Error <u>7.4</u> m	GPS unit: Garmin GPSMAP 60CSx, WAAS enabled			
<i>please do not complete the following information when in the field</i>				
Corrected UTM X _____	m E Corrected UTM Y _____	m N	UTM Zone <u>19</u>	

Survey Date <u>8/30/06</u>	Surveyors <u>Snedden / Gowler</u>
Park Site Name: _____	Area surveyed: 25 m radius circle ☒ other (describe) _____
Quad Name <u>Concord 7.5'</u>	Quad Code _____

ENVIRONMENTAL DESCRIPTION

Elevation <u>80</u> m	Slope _____	Aspect _____
Topographic Position _____		
Landform _____		

Environmental Comments (including hydrology): <u>hummock & hollow mire w/ open water</u> <u>saturated, w/ pools of standing water</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☒ Other: <u>water</u>
---	--

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☒ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen ☐ % deciduous	☒ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☒ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☐ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	_____	_____	<i>Acer rubrum</i> * <i>Nyssa sylvatica</i> <i>Lithospermum allegheniensis</i> <i>Pinus strobus</i> (on high hummocks)	_____
T3 Sub-canopy	<u>05</u>	<u>02</u>	<i>Acer rubrum</i> <i>Nyssa sylvatica</i> <i>Quercus rubra</i>	_____
S1 Tall shrub	<u>03</u>	<u>07</u>	<i>Clematis</i> <i>Clethra alnifolia</i> <i>Rhododendron viscosum</i> <i>Vaccinium corymbosum</i> <i>Viburnum dentatum</i>	_____
S2 Short Shrub	_____	_____	<i>Clethra</i> <i>Viburnum dentatum</i> <i>Lindera</i>	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	_____	_____	<i>Mianthemum</i> <i>Osmunda regalis</i> <i>Osmunda cinnamomea</i> <i>Mitchella repens</i> <i>Symplocarpus foetidus</i> <i>Thelypteris palustris</i> <i>Arisaema triphyllum</i>	_____
N Non-vascular	_____	<u>05</u>	<i>Picispermum</i> <i>Sphagnum</i>	_____
V Vine/liana	_____	_____	<i>Smilax rotundifolia</i>	_____

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>76</u>	Database Point Code <u>mima-AA76</u>
Primary Map Unit <u>R/MA</u>	Assoc Code/Name <u>6156</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>not a good example - pretty junky</u>	
GPS file name <u>M76r</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>6.2</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>	
Corrected UTM X _____ m E	Corrected UTM Y _____ m N UTM Zone <u>19</u>
Survey Date <u>8/31/06</u> Surveyors <u>Gardner & Sneddon</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>65</u> m Slope <u>X</u> Aspect <u>X</u>
Topographic Position <u>low level</u>
Landform _____
Environmental Comments (including hydrology): <u>hummock - hollow w/ deep muck</u> Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☒ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☒ Bare soil <u>muck</u> ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☒ Broad-leaved	☒ Forest	01 5%
☒ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☐ Herbaceous	05 40%
	☐ Pteridophyte	☐ Nonvascular	06 50%
<u>Herbs</u>		☐ Sparsely Vegetated	07 60%
☐ Annual			08 70%
☐ Perennial			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class																										
T1 Emergent																														
T2 Canopy	07	09	Acer rubrum *																											
T3 Sub-canopy	05	03	Betula lenta Acer rubrum * Ulmus																											
S1 Tall shrub	03	05	Rhamnus * Vacc. corymb. Pinus strobus (rare)																											
S2 Short Shrub	02	05	Rosa multiflora *																											
S3 Dwarf-shrub																														
H Herbaceous	02	05	Symplocarpus foetidus Onoclea cinn. Onoclea regalis Thelypteris palustris	Arisaema tri.																										
N Non-vascular		02	Sphagnum feather mosses on boulders																											
V Vine/liana			Rubus hispidus Tox. rad.	Parthenocissus																										
Comments			<table border="0"> <thead> <tr> <th>Cover Scale:</th> <th>Height Scale:</th> </tr> <tr> <th>Strata and Species</th> <th>Strata</th> </tr> </thead> <tbody> <tr> <td>01 5%</td> <td>01 <0.5 m</td> </tr> <tr> <td>02 10%</td> <td>02 0.5-1 m</td> </tr> <tr> <td>03 20%</td> <td>03 1-2 m</td> </tr> <tr> <td>04 30%</td> <td>04 2-5 m</td> </tr> <tr> <td>05 40%</td> <td>05 5-10 m</td> </tr> <tr> <td>06 50%</td> <td>06 10-15 m</td> </tr> <tr> <td>07 60%</td> <td>07 15-20 m</td> </tr> <tr> <td>08 70%</td> <td>08 20-35 m</td> </tr> <tr> <td>09 80%</td> <td>09 35-50 m</td> </tr> <tr> <td>10 90%</td> <td>10 >50 m</td> </tr> <tr> <td>11 100%</td> <td></td> </tr> </tbody> </table>		Cover Scale:	Height Scale:	Strata and Species	Strata	01 5%	01 <0.5 m	02 10%	02 0.5-1 m	03 20%	03 1-2 m	04 30%	04 2-5 m	05 40%	05 5-10 m	06 50%	06 10-15 m	07 60%	07 15-20 m	08 70%	08 20-35 m	09 80%	09 35-50 m	10 90%	10 >50 m	11 100%	
Cover Scale:	Height Scale:																													
Strata and Species	Strata																													
01 5%	01 <0.5 m																													
02 10%	02 0.5-1 m																													
03 20%	03 1-2 m																													
04 30%	04 2-5 m																													
05 40%	05 5-10 m																													
06 50%	06 10-15 m																													
07 60%	07 15-20 m																													
08 70%	08 20-35 m																													
09 80%	09 35-50 m																													
10 90%	10 >50 m																													
11 100%																														

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>77</u>	Database Point Code <u>MIMA-AA 77</u>
Primary Map Unit <u>RMA</u>	Assoc Code/Name <u>6156</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>atypical example - large pool of standing water covered by Wolffia</u>	
GPS file name <u>770</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>27.1</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>	
Corrected UTM X <u>270</u> m E	Corrected UTM Y _____ m N UTM Zone <u>19</u>
Survey Date <u>8/30/06</u> Surveyors <u>Snedden / Gawler</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>53</u> m Slope _____ Aspect _____	
Topographic Position _____	
Landform _____	
Environmental Comments (including hydrology): <u>completely flooded</u> <u>1 large boulder in center</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☐ Litter, duff ☐ Wood (> 1 cm) ☒ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☒ Other: <u>water</u>

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☒ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen ☐ % deciduous	☒ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☒ <u>open</u> ☐ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☐ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>06</u>	<u>06</u>	<u>Accumbens</u> <u>*Nypsa sylvatica</u>	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	<u>04</u>	<u>05</u>	<u>Vacc. corymb.</u> * <u>Cepha. latifolia</u>	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	_____	<u>10</u>	<u>Walrus</u>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

adjacent to standing water, ground is damp.
oaks & pines are present w/ Nypsa
Occasional cinn, Ceph occ. Stlgs form a sparse
herb layer

Cover Scale: Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale: Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>78</u>	Database Point Code <u>MIMA-AA78</u>
Primary Map Unit <u>RMA</u>	Assoc Code/Name <u>6406</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>poor example - lots of weeds</u>	
GPS file name <u>M78a</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>6.9</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>	
Corrected UTM X _____ m E Corrected UTM Y _____ m N	UTM Zone <u>19</u>
Survey Date <u>8/30/06</u> Surveyors <u>Sneddon/Gawler</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>6.7</u> m Slope _____ Aspect _____	
Topographic Position <u>low flat</u>	
Landform _____	
Environmental Comments (including hydrology): <u>no standing water, not peaty, no Sphagnum</u> <u>appear to be seasonally flooded</u>	Unvegetated Surface: (please use the cover scale below) ☒ Bedrock ☒ Litter, duff _____ Wood (> 1 cm) _____ Large rocks (cobbles, boulders > 10 cm) _____ Small rocks (gravel, 0.2-10 cm) _____ Sand (0.1-2 mm) _____ Bare soil _____ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
Trees and Shrubs			
_____ Evergreen	☒ Broad-leaved	☒ Forest	01 5%
☒ Cold-deciduous	_____ Needle-leaved	_____ Woodland	02 10%
_____ Mixed evergreen - cold-deciduous	_____ Mixed Broad/Needle leaved	_____ Shrubland	03 20%
_____ % evergreen _____ % deciduous	_____ Graminoid	_____ Dwarf Shrubland	04 30%
	_____ Forb	_____ Herbaceous	05 40%
	_____ Pteridophyte	_____ Nonvascular	06 50%
Herbs		_____ Sparsely Vegetated	07 60%
_____ Annual			08 70%
_____ Perennial			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>08</u>	<u>08</u>	<i>Fraxinus americana</i> * (<i>longpetiolis</i> ; ? <i>7. longpetiolis</i>) <i>Acer rubrum</i>	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	<u>04</u>	<u>07</u>	<i>Liriodendron benzoin</i> * <i>Fraxinus pennsylvanica</i>	_____
S2 Short Shrub	<u>03</u>	<u>05</u>	<i>Rubus</i> <i>Viburnum dentatum</i> <i>Rosa multiflora</i> sapling - <i>Fraxinus americana</i> ?? coll.	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>02</u>	<u>05</u>	<i>Thelypodium palmatum</i> <i>Geum hepaticum</i> <i>Solidago</i> <i>Arctostaphylos</i> <i>Arisaema triphyllum</i> <i>Athyrium filix-femina</i> <i>Ombelca schizanthus</i>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	<i>Parthenocissus</i>	_____

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>79</u>	Database Point Code <u>MIMA-AA79</u>
Primary Map Unit <u>NOM</u>	Assoc Code/Name <u>Acuplet 6407</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>scramby little polygon surrounded by trails, stone wall & roads</u> <u>a mixture of spp in canopy</u>	
GPS file name <u>M79a</u>	Field UTM X _____ m E Field UTM Y _____ m N
GPS Error <u>6.4</u> m	GPS unit: Garmin GPSMAP 60CSx, WAAS enabled
~~please do not complete the following information when in the field~~ Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/30/06</u>	Surveyors <u>Anderson/Gawler</u>
Park Site Name: <u>MIMA</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Quad Name <u>Concord 7.5'</u>	Quad Code _____

ENVIRONMENTAL DESCRIPTION

Elevation <u>85</u> m	Slope <u>gentle</u>	Aspect _____
Topographic Position <u>flat</u>		
Landform <u>tbl plain</u>		
Environmental Comments (including hydrology): <u>upland; cut stumps</u>		Unvegetated Surface: (please use the cover scale below) ☒ Bedrock ☒ Litter, duff _____ Wood (> 1 cm) _____ Large rocks (cobbles, boulders > 10 cm) _____ Small rocks (gravel, 0.2-10 cm) _____ Sand (0.1-2 mm) _____ Bare soil _____ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
____ Evergreen	____ Broad-leaved	____ Forest	01 5%
____ Cold-deciduous	____ Needle-leaved	____ Woodland	02 10%
____ Mixed evergreen - cold-deciduous	____ Mixed Broad/Needle leaved	____ Shrubland	03 20%
____ % evergreen ____ % deciduous	____ Graminoid	____ Dwarf Shrubland	04 30%
	____ Forb	____ Herbaceous	05 40%
	____ Pteridophyte	____ Nonvascular	06 50%
<u>Herbs</u>		____ Sparsely Vegetated	07 60%
____ Annual			08 70%
____ Perennial			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>07</u>	<u>08</u>	<u>Acropeltandra, Robinia, Fraxinus am</u>	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	_____	_____	<u>Polygonum cusp. Tronaxing Rubus, Lactuca</u>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M180a</u>	Database Point Code <u>MIMA-AA 80</u>
Primary Map Unit <u>OPF</u>	Assoc Code/Name <u>6293</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>keyed pretty cleanly. Lots of beech (not in key)</u> <u>field layer very sparse</u>	
GPS file name <u>M180a</u> Field UTM X <u>313394</u> m E Field UTM Y <u>4702412</u> m N	
GPS Error <u>± 4.2</u> m <u>average</u> GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>	
Corrected UTM X _____ m E	Corrected UTM Y _____ m N UTM Zone <u>19</u>
Survey Date <u>06-8-3</u> <u>7:20 P</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Surveyors <u>Gawker</u>	<u>getting dark.</u>
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>85</u> m	Slope <u>3%</u>	Aspect <u>WSW</u>
Topographic Position <u>mid slope</u>		
Landform <u>Gl. till</u>		
Environmental Comments (including hydrology): <u>upland</u>		Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☒ Wood (> 1 cm) ☒ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☒ Broad-leaved	☒ Forest	01 5%
☒ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
<u>15</u> % evergreen <u>85</u> % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☐ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☒ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
~~T1 Emergent~~				
T2 Canopy	<u>8</u>	<u>9</u>	Que rub D Fag gra D (Pin str) Que vel * rare	
T3 Sub-canopy	<u>5</u>	<u>2</u>	Fag gra	
S1 Tall shrub	<u>4</u>	<u>2</u>	Fag gra	
S2 Short Shrub	<u>3</u>	<u>1</u>	Fag gra	
S3 Dwarf-shrub	<u>1</u>	<u>1</u>	Vac ary	
H Herbaceous	<u>n/a</u>	<u>0</u>	did not do exhaustive search, but ground is BARE	
N Non-vascular	~~_____~~			
V Vine/liana	~~_____~~			

Comments

Cover Scale:
Strata and Species

01 5%
02 10%
03 20%
04 30%
05 40%
06 50%
07 60%
08 70%
09 80%
10 90%
11 100%

Height Scale:
Strata

01 <0.5 m
02 0.5-1 m
03 1-2 m
04 2-5 m
05 5-10 m
06 10-15 m
07 15-20 m
08 20-35 m
09 35-50 m
10 >50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M81</u>	Database Point Code <u>MIMA - AA81</u>
Primary Map Unit _____	Assoc Code/Name _____
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>A BUST. This must have been the single "TL" point. It's in the transmission corridor - but is not 6393. Guess that's only part of the TL polygon. We have solid rhus typ h over higher soil, and llythum/Sol can/Imp cap on lower ground. GPS put me in someone's garden</u>	
GPS file name <u>M81a</u>	Field UTM X _____ m E Field UTM Y _____ m N
GPS Error <u>8.0</u> m	GPS unit: Garmin GPSMAP 60CSx, WAAS enabled
<i>please do not complete the following information when in the field</i> Corrected UTM X _____ m Corrected UTM Y _____ m UTM Zone <u>19</u>	
Survey Date <u>8/24/06</u> <u>4:15 p</u> Surveyors <u>GAWLER</u> Park Site Name: <u>Powuline</u> Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle _____ other (describe) _____ <u>n/a</u>

ENVIRONMENTAL DESCRIPTION

Elevation _____ m	Slope _____ Aspect _____
Topographic Position _____	
Landform _____	
Environmental Comments (including hydrology):	Unvegetated Surface: (please use the cover scale below) ___ Bedrock ___ Litter, duff ___ Wood (> 1 cm) ___ Large rocks (cobbles, boulders > 10 cm) ___ Small rocks (gravel, 0.2-10 cm) ___ Sand (0.1-2 mm) ___ Bare soil ___ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ___ Evergreen ___ Cold-deciduous ___ Mixed evergreen - cold-deciduous ___ % evergreen ___ % deciduous <u>Herbs</u> ___ Annual ___ Perennial	___ Broad-leaved ___ Needle-leaved ___ Mixed Broad/Needle leaved ___ Graminoid ___ Forb ___ Pteridophyte	___ Forest ___ Woodland ___ Shrubland ___ Dwarf Shrubland ___ Herbaceous ___ Nonvascular ___ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	_____	_____	_____	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	_____	_____	_____	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments	Cover Scale:	Height Scale:
	Strata and Species	Strata
	01 5%	01 <0.5 m
	02 10%	02 0.5-1 m
	03 20%	03 1-2 m
	04 30%	04 2-5 m
	05 40%	05 5-10 m
	06 50%	06 10-15 m
	07 60%	07 15-20 m
	08 70%	08 20-35 m
	09 80%	09 35-50 m
	10 90%	10 >50 m
	11 100%	

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M82a</u>	Database Point Code <u>mima-AA82</u>
Primary Map Unit <u>OHH</u>	Assoc Code/Name <u>6336</u>
Secondary Map Unit <u>OMP</u>	Assoc Code/Name <u>6566</u>
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>much All rub in subcanopy lends initial weight to OMP,</u> <u>but RO appears more of a canopy dom.</u>	
GPS file name <u>M82a</u> Field UTM X <u>313292</u> m E Field UTM Y <u>4702382</u> m N	
GPS Error <u>±6</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled <u>PT E of GPS</u> <u>directions due to edge</u>	
<i>please do not complete the following information when in the field</i>	
Corrected UTM X <u>313292</u> m E Corrected UTM Y _____ m N	UTM Zone <u>19</u>
Survey Date <u>2006-8-3</u> ^{6:30p} Surveyors <u>Gawley</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>76</u> m Slope _____ Aspect <u>W</u>	
Topographic Position <u>Low slope</u>	
Landform <u>Glacial Till</u>	
Environmental Comments (including hydrology): <u>int. stream thru polygon w/ seepage herbs</u> <u>(<10 m wide) but no canopy differences</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☒ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☒ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☒ Broad-leaved	☒ Forest	01 5%
☒ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
<u>5</u> % evergreen <u>95</u> % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☐ Herbaceous	05 40%
	☐ Pteridophyte	☐ Nonvascular	06 50%
<u>Herbs</u>		☐ Sparsely Vegetated	07 60%
☒ Annual			08 70%
☐ Perennial			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
~~T1 Emergent~~	~~—~~	~~—~~	~~—~~	~~—~~
T2 Canopy	8	9	Que rub D Au rub * Fag gra * Pin str *	
T3 Sub-canopy	7	4	Ace rub D Fag gra *	
S1 Tall shrub	4	2	Fag gra Pin str Que alb	
S2 Short Shrub	2	3	Vib alb * Gay bac * Vac ang	
S3 Dwarf-shrub	1	2	Vac ang	
H Herbaceous	1		Ara nud D locally Lyc obs Osm cin D locally	
N Non-vascular	—	—		
V Vine/liana	1	1	Tox rad @ edge	

Comments

Cover Scale:
Strata and Species

01 5%
02 10%
03 20%
04 30%
05 40%
06 50%
07 60%
08 70%
09 80%
10 90%
11 100%

Height Scale:
Strata

01 <0.5 m
02 0.5-1 m
03 1-2 m
04 2-5 m
05 5-10 m
06 10-15 m
07 15-20 m
08 20-35 m
09 35-50 m
10 >50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>83</u>	Database Point Code <u>MIMA-4483</u>
Primary Map Unit <u>OH4</u>	Assoc Code/Name <u>6336</u>
Secondary Map Unit <u>OMP</u>	Assoc Code/Name <u>6506</u>
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>lots of dec plat on the edges, along w/ juglans. Point lies in the transition zone.</u>	
GPS file name <u>M83A</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>6.2</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/30/06</u> Surveyors <u>Snedden/Gawler</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>77</u> m Slope _____ Aspect <u>Variable</u>	
Topographic Position _____	
Landform _____	
Environmental Comments (including hydrology): <u>low gently rolling hills</u> <u>boulders appear to have been deliberately stacked</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☒ Wood (> 1 cm) ☒ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☒ Broad-leaved	☒ Forest	01 5%
☒ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☐ Herbaceous	05 40%
	☐ Pteridophyte	☐ Nonvascular	06 50%
<u>Herbs</u>		☐ Sparsely Vegetated	07 60%
☐ Annual			08 70%
☐ Perennial			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>07</u>	<u>09</u>	<i>Accipiter</i> <i>Quercus rubra</i> <i>Opuntia</i> <i>P. alba</i> <i>juglans</i> (<i>coccinea</i> <i>nigra</i>) - 9 leaflets finely braced bark <i>Ulmus americana</i>	_____
T3 Sub-canopy	<u>05</u>	<u>06</u>	<i>Carya ovata</i>	_____
S1 Tall shrub	<u>04</u>	<u>02</u>	<i>Cornus dentata</i> <i>betula lutea</i>	_____
S2 Short Shrub	<u>03</u>	<u>02</u>	<i>Corylus</i> * <i>Rhamnus</i> <i>Vaccinium</i> <i>maianthemum</i> <i>Chimaphila mac</i>	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>01</u>	<u>01</u>	<i>Carex leucorum</i> - patchy <i>Streptopus amplexifolius</i> (rosea?)	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M84a</u>	Database Point Code <u>mima-AA84</u>
Primary Map Unit <u>CHH</u>	Assoc Code/Name <u>6336</u>
Secondary Map Unit <u>OPF</u>	Assoc Code/Name <u>6293</u>
Other Map Unit / Assoc within 50 m <u>OPF</u>	
Key or Classification Comments: <u>my gut says CHH; [the key takes me to OPF] key was improved after this field visit</u>	
GPS file name <u>M84a</u> Field UTM X <u>313386</u> m E Field UTM Y <u>4702308</u> m N GPS Error <u>±7</u> m averaged GPS unit: Garmin GPSMAP 60CSx, WAAS enabled <i>please do not complete the following information when in the field</i> Corrected UTM X <u> </u> m E Corrected UTM Y <u> </u> m N UTM Zone <u>19</u>	
Survey Date <u>06-8-3</u> Surveyors <u>Gawler</u> Park Site Name: Quad Name <u>Concord 7.5'</u> Quad Code <u> </u>	Area surveyed: 25 m radius circle ☒ other (describe) <u> </u>

ENVIRONMENTAL DESCRIPTION

Elevation <u>88</u> m	Slope <u>8%</u>	Aspect <u>W (also E, but not at this pt.)</u>
Topographic Position <u>ridge</u>		
Landform <u>Low ridge (knoll)</u>		
Environmental Comments (including hydrology): 	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☒ Wood (> 1 cm) ☒ Large rocks (cobbles, boulders > 10 cm) ☒ Small rocks (gravel, 0.2-10 cm) ☒ Sand (0.1-2 mm) ☒ Bare soil Other: <u> </u>	

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
<u>Evergreen</u>	☒ Broad-leaved	<u>Forest</u>	01 5%
☒ Cold-deciduous	<u>Needle-leaved</u>	☒ Woodland	02 10%
<u>Mixed evergreen - cold-deciduous</u>	<u>Mixed Broad/Needle leaved</u>	<u>Shrubland</u>	03 20%
<u>% evergreen 10% deciduous</u>	<u>Graminoid</u>	<u>Dwarf Shrubland</u>	04 30%
	<u>Forb</u>	<u>Herbaceous</u>	05 40%
	<u>Pteridophyte</u>	<u>Nonvascular</u>	06 50%
<u>Herbs</u>		<u>Sparingly Vegetated</u>	07 60%
<u>Annual</u>			08 70%
<u>Perennial</u>			09 80%
			10 90%
			11 100%

mtu pine in subcan.

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	<u> / </u>	<u> </u>		
T2 Canopy	<u> 6 </u>	<u> 7 </u>	<u> Que rub D </u>	
T3 Sub-canopy	<u> 5 </u>	<u> 2 </u>	<u> Pin str D </u>	
S1 Tall shrub	<u> 4 </u>	<u> 4 </u>	<u> Carya alb * </u> <u> Pin str D </u> <u> (Sas alb) </u>	
S2 Short Shrub	<u> 3 </u>	<u> 1 </u>	<u> Que ili * </u>	
S3 Dwarf-shrub	<u> 1 </u>	<u> 1 </u>	<u> Vac ang </u>	
H Herbaceous	<u> 1 </u>	<u> 5 </u>	<u> Cx pens D </u> <u> Apocynum </u> <u> Chi mac * </u>	<u> pens vs luca? </u>
N Non-vascular	<u> 1 </u>	<u> 1 </u>	<u> Polytrichum </u>	
V Vine/liana	<u> </u>	<u> </u>		

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>m85</u>	Database Point Code <u>MIMA-AA85</u>
Primary Map Unit <u>OHM</u>	Assoc Code/Name <u>6336</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m <u>Powerline & residential</u>	
Key or Classification Comments: <u>dense erica layer (Gay bar)</u> <u>a little bit of canyon</u>	
GPS file name <u>m85a</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>19.0m</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>	
Corrected UTM X _____ m E Corrected UTM Y _____ m N	UTM Zone <u>19</u>
Survey Date <u>8/24/06</u> <u>4:20</u> Surveyors <u>GAWLER</u>	Area surveyed: 25 m radius circle _____ other (describe) _____ <u>tiny patch of weeds betw 2 houses and</u> <u>the powerline - rest of polygon is</u> <u>off of NPS prop.</u>
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>85 m</u> m Slope <u>2%</u> Aspect <u>N</u>	
Topographic Position <u>flats</u>	
Landform <u>till plain</u>	
Environmental Comments (including hydrology):	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☒ Wood (> 1 cm) ☒ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☒ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☒ 10% evergreen ☐ % deciduous	☒ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☐ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☐ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy *	06	70%	Que rubr D Que cole D	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	Carya glabra Acer rubr D Fagus grand	_____
S2 Short Shrub	03	06	Rhamn cath Que rubr Gay bacc D *	_____
S3 Dwarf-shrub *	01	03	Vacc ang	_____
H Herbaceous	01	<01	Pterid aqu	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

Cover Scale:
Strata and Species

Height Scale:
Strata

01	5%	01	<0.5 m
02	10%	02	0.5-1 m
03	20%	03	1-2 m
04	30%	04	2-5 m
05	40%	05	5-10 m
06	50%	06	10-15 m
07	60%	07	15-20 m
08	70%	08	20-35 m
09	80%	09	35-50 m
10	90%	10	>50 m
11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>86</u>	Database Point Code <u>MIMA-AA86</u>
Primary Map Unit <u>NOM</u>	Assoc Code/Name <u>7279</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>small pond border upland veg to the west (pit)</u>	
GPS file name <u>M86r</u> Field UTM X _____ m E Field UTM Y _____ m N GPS Error <u>9.0</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled ~~please do not complete the following information when in the field~~ Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/31/06</u> Surveyors <u>Gawler & Smedley</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle ☒ other (describe) _____

ENVIRONMENTAL DESCRIPTION

Elevation <u>67</u> m Slope _____ Aspect _____	
Topographic Position <u>flat</u>	
Landform _____	
Environmental Comments (including hydrology): 	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☒ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☒ Broad-leaved	☒ Forest	01 5%
☒ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☐ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☐ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>07</u>	<u>08</u>	<u>Robinia *</u> <u>Bet lenta</u> <u>Acu plot</u> <u>Frax am</u> <u>Ulmus</u>	_____
T3 Sub-canopy	_____	_____	<u>Senescent Juniperus - not a layer</u>	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>01</u>	<u>06</u>	<u>Allium *</u> <u>Corydalis *</u> <u>Acu plot shg</u>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	<u>05</u>	<u>Celastrus (on trees)</u>	_____

Comments

Cover Scale:
Strata and Species

Height Scale:
Strata

01	5%	01	<0.5 m
02	10%	02	0.5-1 m
03	20%	03	1-2 m
04	30%	04	2-5 m
05	40%	05	5-10 m
06	50%	06	10-15 m
07	60%	07	15-20 m
08	70%	08	20-35 m
09	80%	09	35-50 m
10	90%	10	>50 m
11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>m88</u>	Database Point Code <u>MIMA-AA88</u>
Primary Map Unit <u>OPF</u>	Assoc Code/Name <u>6293</u>
Secondary Map Unit <u>WPI</u>	Assoc Code/Name <u>6293</u>
Other Map Unit / Assoc within 50 m <u>houses</u>	
Key or Classification Comments: <u>almost no understory or herb layer in park, pine variable</u>	
GPS file name <u>m88</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>5.2</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>	
Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>12/24/06</u> Surveyors <u>12/24/06</u>	Area surveyed: 25 m radius circle _____ other (describe) ☒
Park Site Name: <u>Joseph Peter's house</u>	<u>across road at 1st bend past road, and across road</u>
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>78?</u> m Slope <u>0</u>	Aspect <u>n/a</u>
Topographic Position <u>slight raised area</u>	
Landform <u>till plain</u>	
Environmental Comments (including hydrology): <u>elev. readings are screwy today.</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☐ Litter, duff ☒ Wood (> 1 cm) ☒ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☐ Broad-leaved	☒ Forest	01 5%
☐ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☒ Mixed evergreen - cold-deciduous	☒ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
<u>40</u> % evergreen <u>60</u> % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☐ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☐ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent				
T2 Canopy	08	75%	Que rub * D Pin str D Que alb Pin ~~str~~ * rigida	05 01 01
T3 Sub-canopy	~~06~~	02	Pin str	
S1 Tall shrub	~~04~~	01	Acc rub Pin str	
S2 Short Shrub	~~03~~	02	Pin str Acc rub	
S3 Dwarf-shrub				
H Herbaceous	01	01	mai can Gravl p.e Chim maculata	
N Non-vascular				
V Vine/liana				

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>89</u>	Database Point Code <u>MIMA-AA89</u>
Primary Map Unit <u>OMP</u>	Assoc Code/Name <u>6506</u>
Secondary Map Unit <u>NOM</u>	Assoc Code/Name <u>7279</u>
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>Atypical - no pine, no oaks.</u> <u>NOM - could be mapped as NOM because of Robinson</u>	
GPS file name <u>M89a</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>7.0</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
~~please do not complete the following information when in the field~~ Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/31/06</u> Surveyors <u>Gawler & Snedden</u>	Area surveyed: 25 m radius circle _____ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>97</u> m Slope <u>moderately gentle</u> Aspect <u>east</u>	
Topographic Position <u>mid slope</u>	
Landform _____	
Environmental Comments (including hydrology): <u>Scattered boulders</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☒ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☒ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen ☐ % deciduous	☒ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☒ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☐ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "***")	Cover Class
T1 Emergent				
T2 Canopy	07	09	<i>Acer rubrum</i> * <i>Robinia</i> - abundant <i>Entula lentic</i>	
T3 Sub-canopy	06	12	<i>Acer rubrum</i> *	
S1 Tall shrub				
S2 Short Shrub				
S3 Dwarf-shrub				
H Herbaceous	01	10	<i>Dennstaedtia punctilobula</i> * <i>Maranthaceae</i> <i>crucifera</i>	
N Non-vascular				
V Vine/liana		01	<i>Amelax rotundifolia</i> <i>Toxod</i>	

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>4390</u>	Database Point Code <u>MIMA-AA90</u>
Primary Map Unit <u>OMP</u>	Assoc Code/Name <u>6506</u>
Secondary Map Unit <u>NUM</u>	Assoc Code/Name <u>7279</u>
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>Robinia a strong component, but << than Accub - not sure of identity of mappers.</u>	
GPS file name <u>m90a</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>26 *</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>	
Corrected UTM X _____ m E	Corrected UTM Y _____ m N UTM Zone <u>19</u>
Survey Date <u>8/24/06</u> <u>9:25 a</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Surveyors <u>GAWLER</u>	
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>237.64' *</u> m Slope <u>2%</u> Aspect <u>ESE</u>	
Topographic Position <u>flat</u>	
Landform <u>hill plain</u>	
Environmental Comments (including hydrology): <u>* elevations suspect today - WAAS sat. not coming in, so only briefly walked down hill to try to get a better reading.</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☒ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☒ Bare soil Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☒ Broad-leaved	☒ Forest	01 5%
☒ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
<u>15% pine</u>	☐ Forb	☐ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☐ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	—	—		
T2 Canopy	<u>07</u>	<u>75%</u>	<u>Pin str</u> * <u>Roh paco</u> * <u>Acir rubrum</u> **	
T3 Sub-canopy	<u>06</u>	<u>20%</u>	<u>Alc rubr</u> <u>Pin str</u>	
S1 Tall shrub	<u>04</u>	<u>20%</u>	<u>Rha cath</u> D <u>Corylus ame</u> *	
S2 Short Shrub	<u>03</u>	<u>20%</u>	<u>Same sp?</u> <u>Pin str</u> <u>Vib Ant recogn</u>	
S3 Dwarf-shrub	—	—		
H Herbaceous	<u>0</u>	<u>30%</u>	<u>Cx pens</u> D <u>Pyr ell</u>	
N Non-vascular	—	—		
V Vine/liana	<u>~~0~~</u>	<u>5%</u>	<u>Tox rad</u> <u>Partheno</u> <u>guing</u>	<u>01</u> <u>01</u>

Comments

a low canopy of 50%

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M91a</u>	Database Point Code <u>MIMA-AA91</u>
Primary Map Unit <u>ED</u>	Assoc Code/Name <u>n/a Anderson mowed field</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m <u>decid fst, probably OMP</u>	
Key or Classification Comments: <u>n/a</u>	
<i>pt was ~20m E of plotted pt due to edge</i>	
GPS file name <u>M91a</u>	Field UTM X <u>313106</u> m E Field UTM Y <u>4702215</u> m N
GPS Error <u>± 4</u> m	GPS unit: Garmin GPSMAP 60CSx, WAAS enabled
please do not complete the following information when in the field	
Corrected UTM X _____ m E	Corrected UTM Y _____ m N UTM Zone <u>19</u>
Survey Date <u>2006-8-3</u> ^{5:30p} Surveyors <u>Gawler</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: <u>Visitor Center Parking Lot</u>	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>72</u> m	Slope <u>2%</u>	Aspect <u>E</u>
Topographic Position <u>Low level</u>		
Landform <u>Flat glacial</u>		
Environmental Comments (including hydrology):	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☐ Litter, duff <u>none</u> ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____	

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☐ Broad-leaved	☐ Forest	01 5%
☐ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☒ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☒ Herbaceous	05 40%
	☐ Pteridophyte	☐ Nonvascular	06 50%
<u>Herbs</u>		☐ Sparsely Vegetated	07 60%
☐ Annual			08 70%
☒ Perennial			09 80%
			10 90%
			11 100%

Stratum	Height m	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "***")	Cover Class
~~T1 Emergent~~	_____	_____	_____	_____
~~T2 Canopy~~	_____	_____	_____	_____
~~T3 Sub-canopy~~	_____	_____	_____	_____
~~S1 Tall shrub~~	_____	_____	_____	_____
~~S2 Short Shrub~~	_____	_____	_____	_____
~~S3 Dwarf shrub~~	_____	_____	_____	_____
H Herbaceous	<u>0.3</u>	<u>10</u>	<i>Phleum pratense</i> D <i>Festuca</i> sp D <i>Vicia cracca</i> D <i>Daucus carota</i> * <i>Asclepias syriaca</i> *	<i>Cerastium arvense</i> *
N Non-vascular	_____	_____	_____	_____
V Vine/liana	<u>0.3</u>	<u>1</u>	<i>Toxicodendron radicans</i> local, mostly @ wood edge	
Comments Cover Scale: Strata and Species 01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100% Height Scale: Strata 01 <0.5 m 02 0.5-1 m 03 1-2 m 04 2-5 m 05 5-10 m 06 10-15 m 07 15-20 m 08 20-35 m 09 35-50 m 10 >50 m				

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>92</u>	Database Point Code <u>MIMA-AA 92</u>
Primary Map Unit <u>OPF</u>	Assoc Code/Name <u>6293</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>pine mostly in understory</u>	
GPS file name <u>A.92a</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>6.5</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
~~please do not complete the following information when in the field~~	
Corrected UTM X _____ m E	Corrected UTM Y _____ m N UTM Zone <u>19</u>
Survey Date <u>9/30/06</u> Surveyors <u>Snedden / Gawler</u>	Area surveyed: 25 m radius circle _____ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>81</u> m Slope <u>gentle</u> Aspect _____	
Topographic Position <u>rolling</u>	
Landform _____	
Environmental Comments (including hydrology): <u>upland</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock <u>10</u> Litter, duff <u>02</u> Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☐ Broad-leaved	☒ Forest	01 5%
☐ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☒ Mixed evergreen - cold-deciduous	☒ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☐ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☐ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>07</u>	<u>08</u>	<u>Quercus rubra *</u> <u>Pinus strobus</u>	_____
T3 Sub-canopy	<u>05</u>	<u>03</u>	<u>Fagus grand</u> <u>Pinus strobus</u>	_____
S1 Tall shrub	<u>04</u>	<u>02</u>	<u>Pinus strobus</u>	_____
S2 Short Shrub	<u>02</u>	<u>06</u>	<u>Gaylussacia baccata *</u> <u>Quercus alba ssp.</u> <u>Pinus strobus ssp.</u> <u>Vaccinium angustifolium (? pallidum) term. long</u> <u>setti</u>	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>01</u>	<u><01</u>	<u>Melampyrum lineare - r</u>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M93a</u>		Database Point Code <u>mima - 4493</u>	
Primary Map Unit <u>OMP</u>		Assoc Code/Name <u>6506</u>	
Secondary Map Unit <u>OPF</u>		Assoc Code/Name <u>6293</u>	
Other Map Unit / Assoc within 50 m <u>old homestead</u>			
Key or Classification Comments: <u>sm poly. surrounded by road</u> <u>early succ but w/ fair and QVC rub in canopy</u>			
GPS file name <u>m93a</u>		Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>6.3</u> m		GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>			
Corrected UTM X _____ m E		Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/24/06</u> Surveyors <u>SCG</u>		Area surveyed: 25 m radius circle ☒ other (describe) _____	
Park Site Name: <u>Visitor's Center</u>			
Quad Name <u>Concord 7.5'</u> Quad Code _____			

ENVIRONMENTAL DESCRIPTION

Elevation <u>73</u> m	Slope <u>0</u>	Aspect <u>n/a</u>
Topographic Position <u>flat</u>		
Landform <u>G1 Till plain</u>		
Environmental Comments (including hydrology):		Unvegetated Surface: (please use the cover scale below) ☐ Bedrock <u>10</u> ☒ Litter, duff <u>2</u> ☒ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☐ Cold-deciduous ☒ Mixed evergreen - cold-deciduous <u>40</u> % evergreen _____% deciduous	☐ Broad-leaved ☐ Needle-leaved ☒ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☒ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☐ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent				
T2 Canopy	15m	09	Que rub D Pin str D Que vel * Que rub *	02 04 01 01
T3 Sub-canopy	6m	03	Ale rub D Que vel * Pin str Pin str	
S1 Tall shrub	2-5m	04	Rham cath D vac str *	01
S2 Short Shrub	02	04	Rham cath D vac str * pin str	01 01
S3 Dwarf-shrub		01	vac	
H Herbaceous				
N Non-vascular				
V Vine/liana		01	Tox rad Rubus cf. strigosus	

Comments

virtually no herbs.
v. young w/ open ground pine

Cover Scale: Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale: Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M 94</u>	Database Point Code <u>MIMA - AA 94</u>
Primary Map Unit <u>OMP</u>	Assoc Code/Name <u>6506</u>
Secondary Map Unit <u>OPF</u>	Assoc Code/Name <u>6293</u>
Other Map Unit / Assoc within 50 m <u>6336</u>	
Key or Classification Comments: <u>RM prominent in understory and general feel is 6506, but need to work out distinctions/key better.</u>	

GPS file name <u>M 94a</u>	Field UTM X _____ m E	Field UTM Y _____ m N
GPS Error <u>19.8</u> m	GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>		
Corrected UTM X _____ m E	Corrected UTM Y _____ m N	UTM Zone <u>19</u>

Survey Date <u>8/24/06</u> ^{3:50} Surveyors <u>GAWLER</u> Park Site Name: <u>The Bluff</u> Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle _____ other (describe) <u>X</u> <u>M94a might not be @ M94 - at least GPS was telling me to stay in the adjacent decid. polygon but I put M94a in a mixed area</u>
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ENVIRONMENTAL DESCRIPTION

Elevation <u>52 ±</u> m	Slope <u>0</u>	Aspect <u>n/a</u>
Topographic Position <u>flat</u>		
Landform <u>till plain</u>		
Environmental Comments (including hydrology): <u>old pasture, abandoned wds road forms border</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff <u>C9</u> ☒ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☒ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____	

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>		☒ Forest	01 5%
☐ Evergreen	☐ Broad-leaved	☐ Woodland	02 10%
☐ Cold-deciduous	☐ Needle-leaved	☐ Shrubland	03 20%
☒ Mixed evergreen - cold-deciduous	☒ Mixed Broad/Needle leaved	☐ Dwarf Shrubland	04 30%
<u>40%</u> evergreen _____ % deciduous	☐ Graminoid	☐ Herbaceous	05 40%
<u>Herbs</u>	☐ Forb	☐ Nonvascular	06 50%
☐ Annual	☐ Pteridophyte	☐ Sparsely Vegetated	07 60%
☐ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "***")	Cover Class
T1 Emergent	—	—	—	—
T2 Canopy	07 barely	75%	Que rubra Pinus strobus	—
T3 Sub-canopy	06	20%	Auc rubrum Pin str	—
S1 Tall shrub	04	20%	Que alba Rhamnus cath Que rubra Auc rubrum	—
S2 Short Shrub	03	5%	Rhamnus cath	—
S3 Dwarf-shrub	01	<<5%	Vacc ang	—
H Herbaceous	01	<5%	Cyp acaulis pterid aquil	—
N Non-vascular	—	—	—	—
V Vine/liana	—	—	—	—

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M95</u>	Database Point Code <u>MIMA-AA95</u>
Primary Map Unit <u>OHH</u>	Assoc Code/Name <u>6336</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>Keys to OFF but has in the leaf of OHH -</u> <u>a little hickory, Pin rig, Quercus spp not yet seen</u> ← Fix key	
GPS file name <u>M95A</u>	Field UTM X _____ m E Field UTM Y _____ m N
GPS Error <u>7.5</u> m	GPS unit: Garmin GPSMAP 60CSx, WAAS enabled
<i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/24/06</u> ^{3:00} Surveyors <u>Gardner</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle ☒ other (describe) _____ <u>plotted point was right next to drain - moved it interior</u>

ENVIRONMENTAL DESCRIPTION

Elevation <u>95</u> m	Slope <u>0</u>	Aspect <u>N/A</u>
Topographic Position <u>flat</u>		
Landform <u>fill plain</u>		
Environmental Comments (including hydrology): _____ _____ _____		Unvegetated Surface: (please use the cover scale below) _____ Bedrock <u>08</u> Litter, duff <u>02</u> Wood (> 1 cm) <u>03</u> Large rocks (cobbles, boulders > 10 cm) _____ Small rocks (gravel, 0.2-10 cm) _____ Sand (0.1-2 mm) _____ Bare soil _____ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
____ Evergreen	☒ Broad-leaved	☒ Forest	01 5%
☒ Cold-deciduous	____ Needle-leaved	____ Woodland	02 10%
____ Mixed evergreen - cold-deciduous	____ Mixed Broad/Needle leaved	____ Shrubland	03 20%
<u>10</u> % evergreen ____ % deciduous	____ Graminoid	____ Dwarf Shrubland	04 30%
	____ Forb	____ Herbaceous	05 40%
	____ Pteridophyte	____ Nonvascular	06 50%
<u>Herbs</u>		____ Sparsely Vegetated	07 60%
____ Annual			08 70%
____ Perennial			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	—	—		
T2 Canopy	08	09	Que rub D Que vel * Pin rig * Pin str	
T3 Sub-canopy	06	07	Ace rubr Pin str Fagus grandif	
S1 Tall shrub	04	01	Acer rub	
S2 Short Shrub	03	10%	Gay bac D Carya ~~alba~~ * 01 Scattered Rham cath 01	
S3 Dwarf-shrub	01	30%	Gay bac	
H Herbaceous	01	5%	Sol puberula Cx cf pennsylv Chim mac D Cyp acaule	
N Non-vascular	—	—		
V Vine/liana	—	—		

Comments

Cover Scale:
Strata and Species

Height Scale:
Strata

01	5%	01	<0.5 m
02	10%	02	0.5-1 m
03	20%	03	1-2 m
04	30%	04	2-5 m
05	40%	05	5-10 m
06	50%	06	10-15 m
07	60%	07	15-20 m
08	70%	08	20-35 m
09	80%	09	35-50 m
10	90%	10	>50 m
11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>96</u>	Database Point Code <u>MIMA-AA96</u>
Primary Map Unit <u>TYL</u>	Assoc Code/Name <u>Lythrum 6403</u>
Secondary Map Unit <u>AF</u>	Assoc Code/Name <u>N/A</u>
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <i>likely mapped as AF but much of edge is considerably wetter, dominated by Typha & Lythrum.</i>	
GPS file name <u>M96a</u>	Field UTM X _____ m E Field UTM Y _____ m N
GPS Error <u>7.0</u> m	GPS unit: Garmin GPSMAP 60CSx, WAAS enabled
<i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8-31-06</u> Surveyors <u>Gaviler & Snedden</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle ☒ other (describe) _____

ENVIRONMENTAL DESCRIPTION

Elevation <u>70</u> m	Slope _____ Aspect _____
Topographic Position <u>low level</u>	
Landform _____	
Environmental Comments (including hydrology): <i>substrate damp, but solid, no standing water</i>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☐ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☒ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☐ Broad-leaved	☐ Forest	01 5%
☐ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☒ Forb	☒ Herbaceous	05 40%
	☐ Pteridophyte	☐ Nonvascular	06 50%
<u>Herbs</u>		☐ Sparsely Vegetated	07 60%
☐ Annual			08 70%
☒ Perennial			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	_____	_____	_____	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>03</u>	<u>10</u>	<i>Lythrum</i> <i>Typha lat</i> <i>Pinus strobus</i> <i>Eleocharis</i> (small woody grass carpet)	<i>Onoclea</i> * <i>Solidago</i> *
N Non-vascular	_____	<u>06</u>	<i>Ceratophyllum</i> - feather moss	_____
V Vine/liana	_____	_____	_____	_____

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>m 97</u>	Database Point Code <u>mima - AA 97</u>
Primary Map Unit <u>OMP</u>	Assoc Code/Name <u>6506</u>
Secondary Map Unit <u>OHM</u>	Assoc Code/Name <u>6336</u>
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>difficult to reach area OMP & OHM here</u>	
GPS file name <u>m97aa</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>5.2</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>	
Corrected UTM X _____	Corrected UTM Y _____ m N UTM Zone <u>19</u>
Survey Date <u>8/30/06</u> Surveyors <u>GAWLER</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>47</u> m Slope <u>10%</u> Aspect <u>SW</u>
Topographic Position _____
Landform <u>till plain</u>
Environmental Comments (including hydrology): <u>distbd mixed up woods w/ old house site : lots of rds</u> Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☐ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☒ Cold-deciduous ☐ Mixed evergreen - cold-deciduous <u>15</u> % evergreen ☐ % deciduous <u>Herbs</u> ☐ Annual ☐ Perennial	☒ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☒ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	—	—		
T2 Canopy	07	09	Que rub D Pin rig Que vel Pin sero Pin stro	
T3 Sub-canopy	—	—		
S1 Tall shrub	04	40%	Fag gra Rham cath Que rub Acer rub	
S2 Short Shrub	03	10%	Acer plat Rham cath	
S3 Dwarf-shrub	—	—		
H Herbaceous	01	0	Chi mac	
N Non-vascular	—	—		
V Vine/liana	—	20%	Tox rad	

Comments

Cover Scale:
Strata and Species

01 5%
02 10%
03 20%
04 30%
05 40%
06 50%
07 60%
08 70%
09 80%
10 90%
11 100%

Height Scale:
Strata

01 <0.5 m
02 0.5-1 m
03 1-2 m
04 2-5 m
05 5-10 m
06 10-15 m
07 15-20 m
08 20-35 m
09 35-50 m
10 >50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M 98</u>	Database Point Code <u>MIMA-AA 98</u>	
Primary Map Unit <u>04H</u>	Assoc Code/Name <u>6336</u>	
Secondary Map Unit _____	Assoc Code/Name _____	
Other Map Unit / Assoc within 50 m _____		
Key or Classification Comments: Polygon ~ variable but this area is closest to 6336 of anything yet. Canva is def. dominant in the lower layers		
GPS file name <u>m98a</u>	Field UTM X _____	m E Field UTM Y _____ m N
GPS Error <u>19.0</u> m	GPS unit: Garmin GPSMAP 60CSx, WAAS enabled but not working. <i>I am in the right polygon</i>	
<i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>		
Survey Date <u>8/24/06</u>	Surveyors <u>3:30p Gawler</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: <u>The Bluff</u>		
Quad Name <u>Concord 7.5'</u> Quad Code _____		

ENVIRONMENTAL DESCRIPTION

Elevation <u>75 m</u>	Slope <u>15%</u>	Aspect <u>E</u>
Topographic Position <u>side slope (upper)</u> → <u>most of polygon is flatter</u>		
Landform <u>rolling hills / till</u>		
Environmental Comments (including hydrology):	Unvegetated Surface: (please use the cover scale below) ☒ Bedrock ☒ Litter, duff ☒ Wood (> 1 cm) ☒ Large rocks (cobbles, boulders > 10 cm) ☒ Small rocks (gravel, 0.2-10 cm) ___ Sand (0.1-2 mm) ___ Bare soil ___ Other: _____	

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
___ Evergreen	☒ Broad-leaved	☒ Forest	01 5%
☒ Cold-deciduous	___ Needle-leaved	___ Woodland	02 10%
___ Mixed evergreen - cold-deciduous	___ Mixed Broad/Needle leaved	___ Shrubland	03 20%
<u>0</u> % evergreen ___ % deciduous	___ Graminoid	___ Dwarf Shrubland	04 30%
	___ Forb	___ Herbaceous	05 40%
	___ Pteridophyte	___ Nonvascular	06 50%
<u>Herbs</u>		___ Sparsely Vegetated	07 60%
___ Annual			08 70%
___ Perennial			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent				
T2 Canopy	08	75%	<i>Que. rubra</i> D <i>Que. alba</i> D * <i>Carya</i> "alba" ~~tormentosa~~ * <i>Que. velutina</i> 01 <i>(Fagus grandif.)</i> 01	
T3 Sub-canopy	06	10%	<i>Carya</i> <i>Quercus</i> spp	
S1 Tall shrub	04	03	<i>Carya alba</i> D * <i>Acer rubrum</i>	
S2 Short Shrub	02	03	<i>Carya alba</i> D * <i>Prunus virg.</i> <i>Viburnum acerifol.</i> * <i>Rubus idaeus</i> 01 <i>Lon. morcanii</i> 01 <i>Rhamnus cath.</i> 01	
S3 Dwarf-shrub				
H Herbaceous	01	03	<i>Ox. et. pennsylvanica</i> D <i>maian. racemosa</i> <i>Solidago bicolor</i>	
N Non-vascular				
V Vine/liana			<i>Celastrus scandens</i> 01	

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M99</u>	Database Point Code <u>MIMA-AA99</u>
Primary Map Unit <u>AF</u>	Assoc Code/Name <u>6107 Octylis-Rumex</u>
Secondary Map Unit <u>TL</u>	Assoc Code/Name <u>6393 Achyrop</u>
Other Map Unit / Assoc within 50 m <u>6393</u>	
Key or Classification Comments: <i>Point is located in AF, but there are patches of 6393 scattered within, and adjacent to this point.</i>	
GPS file name <u>M99 aa</u> Field UTM X _____ m E Field UTM Y _____ m N GPS Error <u>5.3</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled ~~please do not complete the following information when in the field~~ Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8-30-06</u> ^{10:55} Surveyors <u>Andrew, Dancer</u> Park Site Name: <u>MIMA</u> Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle ☒ other (describe) _____

ENVIRONMENTAL DESCRIPTION

Elevation <u>60</u> m Slope _____ Aspect _____	
Topographic Position <u>flat</u>	
Landform <u>till plain</u>	
Environmental Comments (including hydrology): <i>clearly replant</i>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ ☐ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☐ Broad-leaved	☐ Forest	01 5%
☐ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☒ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☒ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☒ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>06</u>	<u>03</u>	<u>Acer saccharinum, Quercus velutina,</u> <u>Ulmus (coarse leaved)</u>	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	<u>02</u>	<u>01</u>	<u>Prunus sp.</u>	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>02</u>	<u>11</u>	<u>Festuca sp* Convolvulus, Agave,</u> <u>Eragrostis spectabilis Dichanthelium clandestinum</u>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

Cover Scale:
Strata and Species

Height Scale:
Strata

01	5%	01	<0.5 m
02	10%	02	0.5-1 m
03	20%	03	1-2 m
04	30%	04	2-5 m
05	40%	05	5-10 m
06	50%	06	10-15 m
07	60%	07	15-20 m
08	70%	08	20-35 m
09	80%	09	35-50 m
10	90%	10	>50 m
11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>m100</u>		Database Point Code <u>MIMA-AA180</u>	
Primary Map Unit <u>OMP</u>		Assoc Code/Name <u>6506</u>	
Secondary Map Unit <u>RMA</u>		Assoc Code/Name <u>6406</u>	
Other Map Unit / Assoc within 50 m _____			
Key or Classification Comments: <u>see below, more like upland than wetland, but def. transitional</u>			
GPS file name <u>m100a</u> Field UTM X _____ m E Field UTM Y _____ m N			
GPS Error <u>4.8</u> m		GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>			
Corrected UTM X <u>235P</u> m		Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/24/06</u> Surveyors <u>Gawley</u>		Area surveyed: 25 m radius circle ☒ other (describe) _____	
Park Site Name: <u>Rt 128 /</u>			
Quad Name <u>Concord 7.5'</u> Quad Code _____			

ENVIRONMENTAL DESCRIPTION

Elevation <u>86</u> m Slope <u>0</u> Aspect <u>n/a</u>	
Topographic Position <u>flat</u>	
Landform <u>till plain</u>	
Environmental Comments (including hydrology): <u>* borderline upland/wetland, season wet</u> <u>suggested by patching orchids, but no other evidence</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☐ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>	☒ Broad-leaved	☒ Forest	01 5%
☐ Evergreen	☐ Needle-leaved	☐ Woodland	02 10%
☒ Cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ Mixed evergreen - cold-deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
☐ % evergreen _____ % deciduous	☐ Forb	☐ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☐ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent				
T2 Canopy	08	80%	Acer rubrum *D Frax. penn Prun. serot	01 01
T3 Sub-canopy	05	03	Acer rubr Prun. serot	D 02
S1 Tall shrub	04	05	Rham. cath Prunus virg	D D
S2 Short Shrub	03	05	Rham. cath Prunus virg Vib. recog Vacc. cory Rosa mul	D D 03 02 02
S3 Dwarf-shrub				
H Herbaceous	01	04	Ono. sen ~~Ono. sen~~ Eurybia divic Maian. racem Hovara virg	D 01 01 01
N Non-vascular				
V Vine/liana		04	Tox. rad Banville hisp Celastrus scand	D 01 01

Comments

junky!
@ edge esp w/
Rosa mul

Cover Scale: Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale: Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>101</u>	Database Point Code <u>MIMA-AA101</u>
Primary Map Unit <u>OPF</u>	Assoc Code/Name <u>6293</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: 	
GPS file name <u>M101A</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>6.7</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>	
Corrected UTM X _____ m E Corrected UTM Y _____ m N	UTM Zone <u>19</u>
Survey Date <u>8/31/06</u> Surveyors <u>Gawler & Snedden</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>94</u> m Slope <u>gentle</u> Aspect <u>NE</u>	
Topographic Position _____	
Landform _____	
Environmental Comments (including hydrology): <u>gently rolling topography</u>	Unvegetated Surface: (please use the cover scale below) _____ Bedrock <u>90</u> Litter, duff <u>01</u> Wood (> 1 cm) <u>01</u> Large rocks (cobbles, boulders > 10 cm) _____ Small rocks (gravel, 0.2-10 cm) _____ Sand (0.1-2 mm) _____ Bare soil _____ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
____ Evergreen	____ Broad-leaved	<u>X</u> Forest	01 5%
____ Cold-deciduous	____ Needle-leaved	____ Woodland	02 10%
<u>X</u> Mixed evergreen - cold-deciduous	<u>X</u> Mixed Broad/Needle leaved	____ Shrubland	03 20%
____ % evergreen ____ % deciduous	____ Graminoid	____ Dwarf Shrubland	04 30%
	____ Forb	____ Herbaceous	05 40%
	____ Pteridophyte	____ Nonvascular	06 50%
<u>Herbs</u>		____ Sparsely Vegetated	07 60%
____ Annual			08 70%
____ Perennial			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent				
T2 Canopy	08	09	<i>Quercus rubra</i> * <i>Quercus alba</i> <i>Betula lenta</i> <i>Pinus strobus</i>	
T3 Sub-canopy	05	07	<i>Acer rubrum</i> <i>Quercus rubra</i> <i>Fagus grandifolia</i> <i>Pinus strobus</i>	
S1 Tall shrub				
S2 Short Shrub	02	03	<i>Betula lenta</i> <i>Vaccinium angustifolium</i> <i>Cornus douglasii</i>	
S3 Dwarf-shrub				
H Herbaceous	01	03	<i>Maianthemum canadense</i> <i>Pteridium aquilinum</i>	
N Non-vascular				
V Vine/liana				

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>102</u>	Database Point Code <u>MIMA-AA102</u>
Primary Map Unit <u>NOM</u>	Assoc Code/Name <u>7279</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>pretty straightforward</u>	
GPS file name <u>M102.r</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>6.1</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>	
Corrected UTM X _____ m E Corrected UTM Y _____ m N	UTM Zone <u>19</u>
Survey Date <u>8/31/06</u> Surveyors <u>Gawler & Sneddon</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>62</u> m Slope _____ Aspect _____	
Topographic Position <u>low level</u>	
Landform _____	
Environmental Comments (including hydrology):	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☒ Broad-leaved	☒ Forest	01 5%
☒ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☐ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☐ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent				
T2 Canopy	08	09	<i>Lobelia</i> * <i>Prunus serotina</i> <i>Fraxinus americana</i>	
T3 Sub-canopy	07	07	<i>Acer rubrum</i> * <i>Ulmus</i> <i>Fraxinus</i>	
S1 Tall shrub				
S2 Short Shrub				
S3 Dwarf-shrub				
H Herbaceous	03	02	<i>Thalictrum virginiana</i> <i>Impatiens</i>	
N Non-vascular				
V Vine/liana		08	<i>Pachynotus</i> * <i>Rubus</i> <i>Torilis</i>	

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

800 #119

Field Point Code <u>M103</u>		Database Point Code <u>MIMA-AA103</u>	
Primary Map Unit <u>WPI</u>		Assoc Code/Name <u>6293</u>	
Secondary Map Unit <u>OPF</u>		Assoc Code/Name <u>6293</u>	
Other Map Unit / Assoc within 50 m _____			
Key or Classification Comments: <u>Whatever this is, its the same as pt # 119</u> <u>doesn't key well due to strong pine dominance</u> <u>could be a piney 6293 - parts of the polygon</u> <u>have 1 more oak.</u>			
GPS file name <u>m103a</u>		Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>4.6</u> m		GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>			
Corrected UTM X _____ m E		Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/24/06</u> <u>5:50p</u>		Area surveyed: 25 m radius circle ☒ other (describe) _____	
Surveyors <u>GAWLER</u>			
Park Site Name: <u>Fiske Hill</u>			
Quad Name <u>Concord 7.5'</u> Quad Code _____			

ENVIRONMENTAL DESCRIPTION

Elevation <u>100</u> m Slope <u>5%</u> Aspect <u>varies</u>	
Topographic Position <u>upper slope / crest</u>	
Landform <u>Low hill</u>	
Environmental Comments (including hydrology):	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock <u>09</u> Litter, duff <u>02</u> Wood (> 1 cm) <u>02</u> Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☐ Cold-deciduous ☒ Mixed evergreen - cold-deciduous <u>50</u> % evergreen _____% deciduous	☐ Broad-leaved ☐ Needle-leaved ☒ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☒ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☐ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "***")	Cover Class
T1 Emergent	—	—		
T2 Canopy	07	80%	Pinus strobus D 07 Pinus rigida * 03 Que. rubra 03	
T3 Sub-canopy	—	—		
S1 Tall shrub	—	0		
S2 Short Shrub	02	03	Gay bac extensive E of sample point (where there's mix oak)	
S3 Dwarf-shrub	—	—	ditto S2	
H Herbaceous	01	<5%	maian can Talent bar	
N Non-vascular	—	—		
V Vine/liana	—	—		

Comments

Cover Scale:
Strata and Species

01 5%
02 10%
03 20%
04 30%
05 40%
06 50%
07 60%
08 70%
09 80%
10 90%
11 100%

Height Scale:
Strata

01 <0.5 m
02 0.5-1 m
03 1-2 m
04 2-5 m
05 5-10 m
06 10-15 m
07 15-20 m
08 20-35 m
09 35-50 m
10 >50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>m 104</u>	Database Point Code <u>MIMA-AA104</u>
Primary Map Unit <u>OHH</u>	Assoc Code/Name <u>6336</u>
Secondary Map Unit <u>OMP</u>	Assoc Code/Name <u>6506</u>
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: a small and confusing polygon. Sandwiched betw rd. & old homestead. Bush leads me twd 6173 but there no Acc Sug or Tilia, so 6336 is closer.	
GPS file name <u>m104a</u>	Field UTM X _____ m E Field UTM Y _____ m N
GPS Error <u>5.4</u> m	GPS unit: Garmin GPSMAP 60CSx, WAAS enabled
please do not complete the following information when in the field Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/24/06</u> <u>5:30</u> Surveyors <u>GAWLER</u> Park Site Name: <u>Fiske Hill Trail</u> Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle ☒ other (describe) _____ (as much as would fit in the polygon.

ENVIRONMENTAL DESCRIPTION

Elevation <u>92</u> m	Slope <u>10%</u>	Aspect <u>NW</u>
Topographic Position <u>slope</u>		
Landform <u>hill plain</u>		
Environmental Comments (including hydrology): 		Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☒ Wood (> 1 cm) ☒ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☒ Broad-leaved	☒ Forest	01 5%
☒ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
<u>15</u> % evergreen <u> </u> % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☐ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☐ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	—	—		
T2 Canopy	07	80%	Que rubr D Que alb Ficus grandif D	
T3 Sub-canopy	06	10%	Pin str 01 Can alb 01 Pin sero 01	
S1 Tall shrub	204	<5	Rham cath	
S2 Short Shrub	02	<5	Rham cath Pin str	
S3 Dwarf-shrub	—	—		
H Herbaceous	01	<5	maian can maian ritem	
N Non-vascular	—	—		
V Vine/liana	—	—		

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>105</u>	Database Point Code <u>mima - AA105</u>
Primary Map Unit <u>NOM</u>	Assoc Code/Name <u>6407</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m <u>road</u>	
Key or Classification Comments: <u>junky -</u>	
GPS file name <u>M105G</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>6.9</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>	
Corrected UTM X _____ m E Corrected UTM Y _____ m N	UTM Zone <u>19</u>
Survey Date <u>8/31/06</u> Surveyors <u>Gawler & Snedden</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>70</u> m Slope _____ Aspect _____	
Topographic Position <u>flat</u>	
Landform _____	
Environmental Comments (including hydrology): <u>mesic upland</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☒ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☒ Broad-leaved	☒ Forest	01 5%
☒ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☐ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☐ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>08</u>	<u>08</u>	<u>Acropatanodes *</u> <u>Folp. americana *</u>	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	<u>02</u>	<u>06</u>	<u>Berberis Humboldtii</u> <u>Lonicera mucronata</u>	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>02</u>	<u>05</u>	<u>Impatiens capensis</u> <u>Alliaria *</u> <u>Acropatanodes</u>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	<u>08</u>	<u>Parthenocissus quinifolia *</u> <u>Toxaria</u>	_____

Comments

partially open canopy; small building nearby

Cover Scale: Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale: Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M106</u>		Database Point Code <u>MIMA-AA106</u>	
Primary Map Unit <u>OHH</u>		Assoc Code/Name <u>6334</u>	
Secondary Map Unit <u>OMP</u>		Assoc Code/Name <u>6506</u>	
Other Map Unit / Assoc within 50 m _____			
Key or Classification Comments: <i>many succi trees. esp. Red rub. But then suggest OMP, but Ro is strongly down in canopy. Also decent (if not dense) ericad representation</i>			
GPS file name <u>M106a</u>		Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>5.6</u> m		GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>			
Survey Date <u>8/24/06</u> <u>11:20</u> Surveyors <u>GAWLER</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____		Area surveyed: 25 m radius circle ☒ other (describe) _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>81</u> m Slope <u>2%</u> Aspect <u>W</u>	
Topographic Position <u>flat</u>	
Landform <u>glacial till plain</u>	
Environmental Comments (including hydrology): 	Unvegetated Surface: (please use the cover scale below) _____ Bedrock <u>09</u> Litter, duff <u>02</u> Wood (> 1 cm) <u>02</u> Large rocks (cobbles, boulders > 10 cm) _____ Small rocks (gravel, 0.2-10 cm) _____ Sand (0.1-2 mm) _____ Bare soil _____ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
____ Evergreen	☒ Broad-leaved	☒ Forest	01 5%
☒ Cold-deciduous <i>tending to mixed</i>	____ Needle-leaved	____ Woodland	02 10%
____ Mixed evergreen - cold-deciduous	____ Mixed Broad/Needle leaved	____ Shrubland	03 20%
<u>15</u> % evergreen ____ % deciduous	____ Graminoid	____ Dwarf Shrubland	04 30%
	____ Forb	____ Herbaceous	05 40%
<u>Herbs</u>	____ Pteridophyte	____ Nonvascular	06 50%
____ Annual		____ Sparsely Vegetated	07 60%
____ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	—	—	—	—
T2 Canopy	08	75%	<i>Quercus rubra</i> D <i>Q. alba</i> (Pin str) — —	01 01 — —
T3 Sub-canopy	06	20%	<i>Acer rubr</i> D <i>Pin str</i> D <i>Betula lenta</i> — —	— — — —
S1 Tall shrub	04	01	<i>Castanea dentata</i> * <i>Pinus strobus</i> — —	01 01 — —
S2 Short Shrub	02	01	<i>Castanea</i> * <i>Rham cath</i> D <i>Prunus pens</i> <i>Corylus ame</i> <i>Vac corym</i> — —	— — 01 01 01 —
S3 Dwarf-shrub	01	02	<i>Vac arg</i> <i>Vac pall</i> <i>Gay bnc</i> — —	— — — —
H Herbaceous	01	01	<i>maian can</i> <i>Uvu sess</i> <i>Pter agn</i> — —	— — — —
N Non-vascular	—	—	—	—
V Vine/liana	—	—	—	—

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>107</u>	Database Point Code <u>MIMA-AA107</u>
Primary Map Unit <u>NOM</u>	Assoc Code/Name <u>7279</u>
Secondary Map Unit <u>OMP</u>	Assoc Code/Name <u>6506</u>
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>difficult call - Robinia and red maple about equal</u>	
GPS file name <u>M107a</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>8.0</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
~~please do not complete the following information when in the field~~ Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/31/06</u> Surveyors <u>Gardner + Snedden</u>	Area surveyed: 25 m radius circle ☒ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation _____ m Slope _____ Aspect _____	
Topographic Position <u>low level</u>	
Landform _____	
Environmental Comments (including hydrology): <u>not a wetland but mesic</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☒ Cold-deciduous ☐ Mixed evergreen - cold-deciduous ☐ % evergreen ☐ % deciduous	☒ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☒ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☐ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	<u>07</u>	<u>08</u>	<u>Quercus rubra</u> <u>Acer rubrum</u> * <u>Rubus Pseudococcia</u> *	_____
T3 Sub-canopy	<u>06</u>	<u>05</u>	<u>Quercus bicolor</u> <u>Acer rubrum</u> <u>Prunus (avium?)</u> (something non native)	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	<u>03</u>	<u>02</u>	<u>Rosa multiflora</u> <u>Prunus serotina</u> <u>Corylus americana</u>	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	<u>02</u>	<u>06</u>	<u>Oxycoccus</u> <u>Ferns virginiana</u> <u>Russelia</u>	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	<u>Rubus</u>	_____

Comments

Cover Scale:
Strata and Species

Height Scale:
Strata

01	5%	01	<0.5 m
02	10%	02	0.5-1 m
03	20%	03	1-2 m
04	30%	04	2-5 m
05	40%	05	5-10 m
06	50%	06	10-15 m
07	60%	07	15-20 m
08	70%	08	20-35 m
09	80%	09	35-50 m
10	90%	10	>50 m
11	100%		

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M108</u>	Database Point Code <u>MIMA-AA108</u>
Primary Map Unit <u>OMF</u>	Assoc Code/Name <u>6506</u>
Secondary Map Unit <u>OPF</u>	Assoc Code/Name <u>6293</u>
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <i>key relies too much on oak dom. fr 6293 vs 6506. oak is canopy dom in this old field fr for. Should key go more on ground form coldfield decay and mix of spp?</i>	
GPS file name <u>M108a</u>	Field UTM X _____ m E Field UTM Y _____ m N
GPS Error <u>7.1</u> m	GPS unit: Garmin GPSMAP 60CSx, WAAS enabled
<i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/24/06</u> ^{11:45} Surveyors <u>Gawler</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle ☒ other (describe) _____ <i>old-field woods</i>

ENVIRONMENTAL DESCRIPTION

Elevation <u>94</u> m	Slope <u>0</u>	Aspect <u>—</u>
Topographic Position <u>flat</u>		
Landform <u>till plain</u>		
Environmental Comments (including hydrology): 		Unvegetated Surface: (please use the cover scale below) ___ Bedrock <u>10</u> Litter, duff <u>02</u> Wood (> 1 cm) ___ Large rocks (cobbles, boulders > 10 cm) ___ Small rocks (gravel, 0.2-10 cm) ___ Sand (0.1-2 mm) ___ Bare soil ___ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
___ Evergreen	___ Broad-leaved	☒ Forest	01 5%
___ Cold-deciduous	___ Needle-leaved	___ Woodland	02 10%
☒ Mixed evergreen - cold-deciduous	☒ Mixed Broad/Needle leaved	___ Shrubland	03 20%
<u>35</u> % evergreen ___ % deciduous	___ Graminoid	___ Dwarf Shrubland	04 30%
	___ Forb	___ Herbaceous	05 40%
	___ Pteridophyte	___ Nonvascular	06 50%
<u>Herbs</u>		___ Sparsely Vegetated	07 60%
___ Annual			08 70%
___ Perennial			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	—	—		
T2 Canopy	07 barely	70%	Quercus Pin stro	
T3 Sub-canopy	—	—		
S1 Tall shrub	05	40%	Acer rubr Pinus stro Juniperus virginiana Rham cath	02 02 01 03
S2 Short Shrub	03	20%		
S3 Dwarf-shrub	01	5%	Vacc ang	
H Herbaceous	01	<5%	maian can Aral nud	
N Non-vascular	—	—		
V Vine/liana	—	—	Toxico rad	01

Comments

fallen down Bet. populif.

Cover Scale: Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale: Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M109</u>	Database Point Code <u>MIMA-AA109</u>
Primary Map Unit <u>OHH</u>	Assoc Code/Name <u>6336</u>
Secondary Map Unit <u>OMP maybe</u>	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <i>deciduous development, 2 pine in canopy a few sm. carya sds</i>	
GPS file name <u>M109a</u> Field UTM X _____ m E Field UTM Y _____ m N GPS Error <u>27.6</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled <i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/24/06</u> ^{12.30} Surveyors <u>Gawler</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle ☒ other (describe) _____ <i>on stone wall. terrible GPS accuracy, but definitely in the polygon</i>

ENVIRONMENTAL DESCRIPTION

Elevation <u>71</u> m Slope <u>varies</u> Aspect <u>SE</u>	
Topographic Position <u>low crest + slope</u>	
Landform <u>low hill / hill plain</u>	
Environmental Comments (including hydrology): 	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☒ Wood (> 1 cm) ☒ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☒ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☒ Cold-deciduous ☐ Mixed evergreen - cold-deciduous <u>20</u> % evergreen _____ % deciduous <u>Herbs</u> ☐ Annual ☐ Perennial	☒ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☒ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent				
T2 Canopy	07	09	<i>Quercus rubra</i> D <i>Pinus strobus</i> 01 <i>Quercus alba</i> * 02	
T3 Sub-canopy				
S1 Tall shrub	05	03	<i>Fagus sp.</i> <i>Picea canadensis</i> <i>Acer rubrum</i>	
S2 Short Shrub	03	05	<i>Gaylussacia</i> 05 ~~<i>Vaccinium angustifolium</i>~~ <i>Vaccinium corymbosum</i> 01 <i>Rhamnus coccinea</i> 01 <i>Carya alba</i> * 01	
S3 Dwarf-shrub	01	03	<i>Vaccinium angustifolium</i>	
H Herbaceous	01	01	<i>Mai can</i> 01 <i>Cyperus</i> patchy, overall 01 <i>Mitchella repens</i> 01 <i>Aralia nudica</i> 01	
N Non-vascular				
V Vine/liana			<i>Rubus</i> large	

Comments

Cover Scale: Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale: Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>m 110</u>		Database Point Code <u>MIMA-AA 110</u>	
Primary Map Unit <u>AF</u>		Assoc Code/Name <u>6107</u>	
Secondary Map Unit <u>FD</u>		Assoc Code/Name _____	
Other Map Unit / Assoc within 50 m _____			
Key or Classification Comments: pathy dominance by various old-field spp. AF vs FD mapping? chick usage			
GPS file name <u>m 110a</u>		Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>6.2</u> m		GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>			
Survey Date <u>8/24/06</u> ^{6:05}		Area surveyed: 25 m radius circle ☒ other (describe) _____	
Surveyors <u>GAWLER</u>			
Park Site Name: _____			
Quad Name <u>Concord 7.5'</u> Quad Code _____			

ENVIRONMENTAL DESCRIPTION

Elevation <u>90</u> m Slope <u>2%</u> Aspect <u>S</u>	
Topographic Position <u>flat</u>	
Landform <u>hill plain</u>	
Environmental Comments (including hydrology): 	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock <u>none</u> ☐ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☐ Broad-leaved	☐ Forest	01 5%
☐ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☒ Graminoid	☐ Dwarf Shrubland	04 30%
	☒ Forb	☒ Herbaceous	05 40%
	☐ Pteridophyte	☐ Nonvascular	06 50%
<u>Herbs</u>		☐ Sparsely Vegetated	07 60%
☐ Annual			08 70%
☒ Perennial			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "***")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	_____	_____	_____	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf shrub	_____	_____	_____	_____
H Herbaceous	01	11	<i>Asclepias vert</i> patch domi D <i>Celastrus scandens</i> D <i>Festuca</i> Sp. <i>Schiza scop</i> 01 <i>Vicia</i> Sp D	
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M 112</u>	Database Point Code <u>MIMA-AA-112</u>
Primary Map Unit <u>WPI</u>	Assoc Code/Name <u>6293</u>
Secondary Map Unit <u>omp</u> <u>but heavy to WP</u>	Assoc Code/Name <u>6506</u>
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <u>All rub common understory tree but oaks are dom. decid. tree in canopy.</u> <u>Actually some herb spr here!</u>	
GPS file name <u>m 112a</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>± 4.3</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
~~please do not complete the following information when in the field~~ Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/30/06</u> <u>9:30</u> Surveyors <u>GAMER</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle ☒ other (describe) _____

ENVIRONMENTAL DESCRIPTION

Elevation <u>69</u> m Slope <u>0</u> Aspect <u>n/a</u>	
Topographic Position <u>flat</u>	
Landform <u>till plain</u>	
Environmental Comments (including hydrology): <u>well drained soils, wet/d pockets on sides</u>	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☒ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☐ Cold-deciduous ☒ Mixed evergreen - cold-deciduous <u>70</u> % evergreen _____ % deciduous <u>Herbs</u> ☐ Annual ☐ Perennial	☐ Broad-leaved ☐ Needle-leaved ☒ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☒ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	—	—	—	—
T2 Canopy	08	80%	Pin str D * Que rub Que vel *	—
T3 Sub-canopy	06	20%	Ara rub D Bee len	—
S1 Tall shrub	05	20%	Fag gra * Ara rub Rha cath	—
S2 Short Shrub	04	5%	Nem muc (!) } very low Vac cor Pin str Que alb	—
S3 Dwarf-shrub	—	—	—	—
H Herbaceous	01	04	Pte agu D Ara nud D mai can D mich rep Trien bar	—
N Non-vascular	—	—	—	—
V Vine/liana	—	—	—	—

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M 113</u>	Database Point Code <u>MIMA AA 113</u>
Primary Map Unit <u>WA</u>	Assoc Code/Name <u>2386</u>
Secondary Map Unit <u>CSM</u>	Assoc Code/Name <u>2256</u>
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: much of poly is open water (w/ Lemna) but sparse sedges emerging, so could have been mapped as CSM	
GPS file name <u>M 113 a</u> Field UTM X _____ m E Field UTM Y _____ m N GPS Error <u>6.0</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled <i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/30/06</u> <u>9:50</u> Surveyors <u>GAWLER</u> Park Site Name: _____ Quad Name <u>Concord 7.5'</u> Quad Code _____	Area surveyed: 25 m radius circle _____ other (describe) <u>X</u> <u>from edge, deep water.</u> <u>use plotted point.</u>

ENVIRONMENTAL DESCRIPTION

Elevation _____ m Slope <u>0</u> Aspect <u>n/a</u>	
Topographic Position <u>basin</u>	
Landform <u>till plain</u>	
Environmental Comments (including hydrology):	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☐ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☒ Other: <u>water</u>

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☐ Broad-leaved	☐ Forest	01 5%
☐ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☒ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☒ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☒ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	_____	_____	_____	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	03	island 03	Cephal occ	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	01	50% locally 80%	Wolffia col D Spartanum sp D - w emergent + flt lvs. Phalaris - not dom, edge only	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments

Phrag & Lythrum @ W edge filling corner
 Lythrum scattered throughout but sparse
 Shrubby island - Cephal occ - in middle

Cover Scale: Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale: Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>m115</u>		Database Point Code <u>MIMA-AA115</u>	
Primary Map Unit <u>OPF</u>		Assoc Code/Name <u>6293</u>	
Secondary Map Unit _____		Assoc Code/Name _____	
Other Map Unit / Assoc within 50 m <u>roads</u>			
Key or Classification Comments: <u>keys to 6293 but a pretty early version of it</u>			
GPS file name <u>m115a</u> Field UTM X _____ m E Field UTM Y _____ m N			
GPS Error <u>4.4</u> m		GPS unit: Garmin GPSMAP 60CSx, WAAS enabled - <u>1 hooked in this time</u>	
<i>please do not complete the following information when in the field</i>			
Corrected UTM X _____ m E		Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/24/06</u> <u>1:00 p</u>		Area surveyed: 25 m radius circle ☒ other (describe) _____	
Surveyors <u>Gawley</u>			
Park Site Name: <u>mm High School</u>			
Quad Name <u>Concord 7.5'</u> Quad Code _____			

ENVIRONMENTAL DESCRIPTION

Elevation <u>79</u> m Slope <u>0</u> Aspect <u>N/A</u>	
Topographic Position <u>flat</u>	
Landform <u>till plain w/ small mounds</u>	
Environmental Comments (including hydrology):	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☒ Wood (> 1 cm) ☒ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☐ Cold-deciduous ☒ Mixed evergreen - cold-deciduous <u>30</u> % evergreen _____ % deciduous	☐ Broad-leaved ☐ Needle-leaved ☒ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☒ Forest ☐ Woodland ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☐ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent				
T2 Canopy	07	80%	Quercus rubra D Pinus strobus D - patchy	
T3 Sub-canopy	06	10%	Pinus strobus Prunus serotina 01	
S1 Tall shrub	04	20%	Rham cath	
S2 Short Shrub	03	20%	Rham cath Gayl bass - D patchy	
S3 Dwarf-shrub	01	10% overall	Vacc ang dense patches	
H Herbaceous	01	02	Pter aquil D maian cana	
N Non-vascular				
V Vine/liana				

Comments

old pasture

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>1116</u>	Database Point Code <u>MIMA-AA116</u>
Primary Map Unit <u>LLB</u>	Assoc Code/Name <u>6008</u>
Secondary Map Unit <u>-</u>	Assoc Code/Name <u></u>
Other Map Unit / Assoc within 50 m <u>upland forest</u>	
Key or Classification Comments: <u>did not get all the way to the point - unstable soil.</u>	
~~use assigned point~~	
GPS file name <u>mima</u>	Field UTM X <u></u> m E Field UTM Y <u></u> m N
GPS Error <u>19.6</u> m	GPS unit: Garmin GPSMAP 60CSx, WAAS enabled <u>but not finding it!</u>
~~please do not complete the following information when in the field~~	
Corrected UTM X <u></u> m E	Corrected UTM Y <u></u> m N UTM Zone <u>19</u>
Survey Date <u>8/24/06</u> ^{1:20}	Area surveyed: 25 m radius circle <u></u> other (describe) <u>X</u>
Surveyors <u>Gawley</u>	<u>view from somewhat inside edge</u>
Park Site Name: <u></u>	
Quad Name <u>Concord 7.5'</u>	Quad Code <u></u>

ENVIRONMENTAL DESCRIPTION

Elevation <u>72 m</u> m	Slope <u>0</u>	Aspect <u>n/a</u>
Topographic Position <u>basin</u>		
Landform <u>hill plain</u>		
Environmental Comments (including hydrology): <u></u>		Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☐ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☒ Other: <u>water</u>

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☐ Evergreen ☐ Cold-deciduous ☒ Mixed evergreen - cold-deciduous <u>70</u> % evergreen <u></u> % deciduous	☒ Broad-leaved ☐ Needle-leaved ☐ Mixed Broad/Needle leaved ☐ Graminoid ☐ Forb ☐ Pteridophyte	☐ Forest ☐ Woodland ☐ Shrubland ☒ Dwarf Shrubland ☐ Herbaceous ☐ Nonvascular ☐ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%
<u>Herbs</u> ☐ Annual ☐ Perennial			

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	—	—		
T2 Canopy	—	—		
T3 Sub-canopy	—	—		
S1 Tall shrub	03	01	Acer rubrum	
S2 Short Shrub	02	04	Cephalanthus sp. Chamaecalyx	
↑ zoned ↓				
S3 Dwarf-shrub	01	08	Chamaecalyx	
H Herbaceous	01	01	Lyth. salic. @ edge Triadenum Virg C. str. Scirpus rubrolineatus	01 01 01 01
N Non-vascular	—	—	Sphagnum	
V Vine/liana	—	—		

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>117</u>	Database Point Code <u>MIMA-AA 117</u>
Primary Map Unit <u>ARB</u>	Assoc Code/Name <u>N/A</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m _____	
Key or Classification Comments: <i>Cultivated field - squash</i> <i>Tractor center</i> <i>the mapped point</i>	
GPS file name _____ Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error _____ m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i> Corrected UTM X _____ m E Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8-31-06</u> Surveyors <u>Gawler & Snedden</u>	Area surveyed: 25 m radius circle _____ other (describe) _____
Park Site Name: _____	
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation _____ m Slope _____ Aspect _____	
Topographic Position _____	
Landform _____	
Environmental Comments (including hydrology): _____	Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☐ Litter, duff ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☐ Broad-leaved	☐ Forest	01 5%
☐ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☐ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☐ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	_____	_____	_____	_____
T2 Canopy	_____	_____	_____	_____
T3 Sub-canopy	_____	_____	_____	_____
S1 Tall shrub	_____	_____	_____	_____
S2 Short Shrub	_____	_____	_____	_____
S3 Dwarf-shrub	_____	_____	_____	_____
H Herbaceous	_____	_____	_____	_____
N Non-vascular	_____	_____	_____	_____
V Vine/liana	_____	_____	_____	_____

Comments	Cover Scale:	Height Scale:
	Strata and Species	Strata
	01 5%	01 <0.5 m
	02 10%	02 0.5-1 m
	03 20%	03 1-2 m
	04 30%	04 2-5 m
	05 40%	05 5-10 m
	06 50%	06 10-15 m
	07 60%	07 15-20 m
	08 70%	08 20-35 m
	09 80%	09 35-50 m
	10 90%	10 >50 m
	11 100%	

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M118</u>		Database Point Code <u>MIMA-AA118</u>	
Primary Map Unit <u>NOM</u>		Assoc Code/Name <u>7279 expressed as Rosa multiflora hell</u>	
Secondary Map Unit <u>OMP</u>		Assoc Code/Name <u>0506*</u>	
Other Map Unit / Assoc within 50 m _____			
Key or Classification Comments: cant get in to W side of polygon, went as far thru Ros mul as I could. * default successional fst			
GPS file name <u>M118a</u>		Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>6.2</u> m		GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
please do not complete the following information when in the field ~~Corrected UTM X _____ m E~~ ~~Corrected UTM Y _____ m N~~ UTM Zone <u>19</u>			
Survey Date <u>8/24/06</u>		Area surveyed: 25 m radius circle _____ other (describe) <u>✓</u> edge of poly	
Surveyors <u>SIS GAWLER</u>			
Park Site Name: <u>Fiske Mill Trail</u>			
Quad Name <u>Concord 7.5'</u>		Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>73</u> m	Slope <u>0</u>	Aspect <u>n/a</u>
Topographic Position <u>flat</u>		
Landform <u>till plain</u>		
Environmental Comments (including hydrology):		Unvegetated Surface: (please use the cover scale below) ☐ Bedrock <u>none is unvegetated</u> ☐ Litter, duff <u>(see photos)</u> ☐ Wood (> 1 cm) ☐ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☒ Broad-leaved	☐ Forest	01 5%
☒ Cold-deciduous	☐ Needle-leaved	☒ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
☐ % evergreen ☐ % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☐ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☐ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	—	—	—	—
T2 Canopy	06	40%	Robinia pseu Juglans nigr	—
T3 Sub-canopy	—	—	—	—
S1 Tall shrub	—	—	~~Celastrus~~	—
S2 Short Shrub	04	60% = 100% w/ Celastrus	Rosa mul D	—
S3 Dwarf-shrub	—	0	—	—
H Herbaceous	01	<5%	Emp cap Arisaema tri	—
N Non-vascular	—	—	—	—
V Vine/liana	—	80%	Celastrus scan D	—

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT
IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

★
new type
for
park?

Field Point Code <u>M119</u>		Database Point Code <u>MIMA-AA119</u>	
Primary Map Unit <u>WPI</u>		Assoc Code/Name <u>WPI maps to 6295, which this is not</u>	
Secondary Map Unit <u>OMP</u>		Assoc Code/Name _____	
Other Map Unit / Assoc within 50 m _____			
Key or Classification Comments: <u>pine-dominance w/o signif decid component doesn't leaf.</u> <u>Closest in our list is OMP but this could be something entirely</u> <u>different - Pin str + Pin ris</u>			
GPS file name <u>M119a</u>		Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>3.6</u> m		GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>			
Corrected UTM X _____ m E		Corrected UTM Y _____ m N UTM Zone <u>19</u>	
Survey Date <u>8/24/06</u> 4:55p		Area surveyed: 25 m radius circle ☒ other (describe) _____	
Surveyors <u>GAWLER</u>			
Park Site Name: <u>Fiske Hill Trail w of Fiske Hill</u>			
Quad Name <u>Concord 7.5'</u> Quad Code _____			

ENVIRONMENTAL DESCRIPTION

Elevation <u>75m</u> m	Slope <u>5%</u>	Aspect <u>W</u>
Topographic Position <u>Low hill</u>		
Landform <u>till plain</u>		
Environmental Comments (including hydrology):		Unvegetated Surface: (please use the cover scale below) _____ Bedrock <u>09</u> Litter, duff <u>02</u> Wood (> 1 cm) <u>02</u> Large rocks (cobbles, boulders > 10 cm) _____ Small rocks (gravel, 0.2-10 cm) _____ Sand (0.1-2 mm) _____ Bare soil _____ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u> ☒ Evergreen _____ Cold-deciduous _____ Mixed evergreen - cold-deciduous <u>75</u> % evergreen _____ % deciduous <u>Herbs</u> _____ Annual _____ Perennial	_____ Broad-leaved ☒ Needle-leaved ☒ Mixed Broad/Needle leaved _____ Graminoid _____ Forb _____ Pteridophyte	☒ Forest _____ Woodland _____ Shrubland _____ Dwarf Shrubland _____ Herbaceous _____ Nonvascular _____ Sparsely Vegetated	01 5% 02 10% 03 20% 04 30% 05 40% 06 50% 07 60% 08 70% 09 80% 10 90% 11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "***")	Cover Class
T1 Emergent				
T2 Canopy	07	85%	Pin str D Pin rig * Que rub Que vel Que alb Ost vir	03 01 01 01 01
T3 Sub-canopy				
S1 Tall shrub	05	10%	Ave rub D	
S2 Short Shrub	04	5%	(Carya alba) only one! Rhamn cath D	
S3 Dwarf-shrub		n/a		
H Herbaceous	01	<5%	maian cana D Dryop interm	
N Non-vascular				
V Vine/liana		<5%	Panth quing	03 (01 @ point 06 over much of polygon!

Comments

Cover Scale: Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale: Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>m120</u>		Database Point Code <u>MIMA-AA120</u>	
Primary Map Unit <u>WPI</u>	Assoc Code/Name <u>6293</u>		
Secondary Map Unit <u>OPF</u>	Assoc Code/Name <u>6293</u>		
Other Map Unit / Assoc within 50 m _____			
Key or Classification Comments: Strong pine signature on photo - not sure what mappers' cutoff was for OPF vs WPI, key needs work here			
GPS file name <u>m120 a</u>		Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>19.8</u> ! m		GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i> Corrected UTM X <u>2</u> m E Corrected UTM Y <u>19</u> UTM Zone <u>19</u> <i>cannot get decent readings today. But I'm sure I'm in the right polygon.</i>			
Survey Date <u>8/24/06</u> ^{12:05}		Area surveyed: 25 m radius circle ☒ other (describe) _____	
Surveyors <u>Gawler</u>		point moved in little interval to avoid edge of woods rd.	
Park Site Name: _____			
Quad Name <u>Concord 7.5'</u> Quad Code _____			

ENVIRONMENTAL DESCRIPTION

Elevation <u>95</u> m	Slope <u>20%</u>	Aspect <u>SSE</u>
Topographic Position <u>flat</u>		
Landform <u>hill plain</u>		
Environmental Comments (including hydrology):		Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☒ Wood (> 1 cm) ☒ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>		☒ Forest	01 5%
☐ Evergreen	☐ Broad-leaved	☐ Woodland	02 10%
☐ Cold-deciduous	☐ Needle-leaved	☐ Shrubland	03 20%
☒ Mixed evergreen - cold-deciduous	☒ Mixed Broad/Needle leaved	☐ Dwarf Shrubland	04 30%
<u>60</u> % evergreen <u> </u> % deciduous	☐ Graminoid	☐ Herbaceous	05 40%
<u>Herbs</u>	☐ Forb	☐ Nonvascular	06 50%
☐ Annual	☐ Pteridophyte	☐ Sparsely Vegetated	07 60%
☐ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent	—	—		
T2 Canopy	07	85%	Pinus str D Que rubra Que alb	06 04 01
T3 Sub-canopy	—	—		
S1 Tall shrub	05	5%	Acc rub Pin str Fagus str	01 02 01
S2 Short Shrub	04	30%	Pinus str D ← distinct low pine layer Castanea dentata Rham cath	01 01 for a change
S3 Dwarf-shrub	01	40%	Vac pal, Vac ang Gayl bac	
H Herbaceous	01	01	Pte agu	
N Non-vascular	—	—		
V Vine/liana	—	—		

Comments

Cover Scale:
Strata and Species

01 5%
02 10%
03 20%
04 30%
05 40%
06 50%
07 60%
08 70%
09 80%
10 90%
11 100%

Height Scale:
Strata

01 <0.5 m
02 0.5-1 m
03 1-2 m
04 2-5 m
05 5-10 m
06 10-15 m
07 15-20 m
08 20-35 m
09 35-50 m
10 >50 m

NATIONAL PARK VEGETATION MAPPING PROGRAM: ACCURACY ASSESSMENT POINT

IDENTIFIERS/LOCATORS - Minute Man National Historical Park (MIMA) - MA

Field Point Code <u>M121</u>	Database Point Code <u>MIMA-AA121</u>
Primary Map Unit <u>OMP</u>	Assoc Code/Name <u>6506</u>
Secondary Map Unit _____	Assoc Code/Name _____
Other Map Unit / Assoc within 50 m <u>highway</u>	
Key or Classification Comments: <u>does not key clearly</u>	
GPS file name <u>M1210</u> Field UTM X _____ m E Field UTM Y _____ m N	
GPS Error <u>15.1</u> m GPS unit: Garmin GPSMAP 60CSx, WAAS enabled	
<i>please do not complete the following information when in the field</i>	
Corrected UTM X _____ m E	Corrected UTM Y _____ m N UTM Zone <u>19</u>
Survey Date <u>8/24/06</u> ^{2:15p} Surveyors <u>Gawler</u>	Area surveyed: 25 m radius circle <u>~</u> other (describe) _____
Park Site Name: <u>Rt 128</u>	<u>Junkly mixed up woods immediately next to 128 - charming.</u>
Quad Name <u>Concord 7.5'</u> Quad Code _____	

ENVIRONMENTAL DESCRIPTION

Elevation <u>96</u> m Slope <u>15%</u> Aspect <u>ESE</u>
Topographic Position <u>slope</u>
Landform <u>till plain</u>
Environmental Comments (including hydrology):
Unvegetated Surface: (please use the cover scale below) ☐ Bedrock ☒ Litter, duff ☒ Wood (> 1 cm) ☒ Large rocks (cobbles, boulders > 10 cm) ☐ Small rocks (gravel, 0.2-10 cm) ☐ Sand (0.1-2 mm) ☐ Bare soil ☐ Other: _____

VEGETATION DESCRIPTION

Leaf phenology (of dominant stratum)	Leaf Type (of dominant stratum)	Physiognomic class	Cover Scale for Unvegetated Surface
<u>Trees and Shrubs</u>			
☐ Evergreen	☒ Broad-leaved	☒ Forest	01 5%
☒ Cold-deciduous	☐ Needle-leaved	☐ Woodland	02 10%
☐ Mixed evergreen - cold-deciduous	☐ Mixed Broad/Needle leaved	☐ Shrubland	03 20%
<u>15</u> % evergreen <u> </u> % deciduous	☐ Graminoid	☐ Dwarf Shrubland	04 30%
	☐ Forb	☐ Herbaceous	05 40%
<u>Herbs</u>	☐ Pteridophyte	☐ Nonvascular	06 50%
☐ Annual		☐ Sparsely Vegetated	07 60%
☐ Perennial			08 70%
			09 80%
			10 90%
			11 100%

Stratum	Height	Cover Class	Dominant / characteristic species (mark dominants "D" and diagnostic or characteristic species "**")	Cover Class
T1 Emergent				
T2 Canopy	07	70%	Que alba D Pin str Que rubr D	02
T3 Sub-canopy	06	10%	Que alb Ail rub - D Pin str Frax penn	
S1 Tall shrub	05	02	Pin pen D Rhod carh D	
S2 Short Shrub	04	05	Vib rec Carya glabra * Quer alba * Frax penn Vall car	01 01 01 01 01
S3 Dwarf-shrub		1/2		
H Herbaceous	01	01	Demetria pen @ base of steep bank Imp cap	
N Non-vascular				
V Vine/liana		04	Parthenoc glauc Tox rad	01 scan

Comments

Cover Scale:
Strata and Species

01	5%
02	10%
03	20%
04	30%
05	40%
06	50%
07	60%
08	70%
09	80%
10	90%
11	100%

Height Scale:
Strata

01	<0.5 m
02	0.5-1 m
03	1-2 m
04	2-5 m
05	5-10 m
06	10-15 m
07	15-20 m
08	20-35 m
09	35-50 m
10	>50 m