

## CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form

Project Label:

PCAP

Plot No: 1366

Date Sampled: 7/24



Lead: J. Miller

		Comment required if item answer is NO	
Parking/Access outside of Park Boundaries:		Y	(N)
Field journals completed		<input checked="" type="radio"/>	N
Site sketch made on 1:3000 map?		<input checked="" type="radio"/>	N
Check cover page	X-axis Bearing of plot recorded	<input checked="" type="radio"/>	N
	GPS coords Recorded	<input checked="" type="radio"/>	N
	North direction recorded	<input checked="" type="radio"/>	N
	Photographs taken?	<input checked="" type="radio"/>	N
Plot No., Date agreement on all pages?		<input checked="" type="radio"/>	N
Header data completed all pages?		<input checked="" type="radio"/>	N
Cover classes recorded in all Intensive modules		<input checked="" type="radio"/>	N
Browse Level By Species		<input checked="" type="radio"/>	N
Woody stem quality control check		<input checked="" type="radio"/>	N
Invasive plant quality control check		<input checked="" type="radio"/>	N
Ash trees mapped		<input checked="" type="radio"/>	N
Cover by Strata? (confirm cover type)		<input checked="" type="radio"/>	N
Soil samples collected with matching plot #.		<input checked="" type="radio"/>	N
Vouchers labeled on datasheet with initials and number		<input checked="" type="radio"/>	N
Vouchers labeled on collection bag		<input checked="" type="radio"/>	N
Pink flags removed		<input checked="" type="radio"/>	N
Data sheet QA before leaving site?		<input checked="" type="radio"/>	N
Common equipment returned to tub.		<input checked="" type="radio"/>	N
Data sheets scanned?	8/2/13	Enter date to left BB	
Final data sheets scanned?		Enter date to left	
Buffer Widths measured?		<input checked="" type="radio"/>	N
Web Soil Survey		<input checked="" type="radio"/>	N
Voucher Location	Refrigerator	<input checked="" type="radio"/>	N
(# vouchers collected)	Press (#)	Enter number to left	
JAM 13	Drier	<input checked="" type="radio"/>	N
JAM 133	Identified	<input checked="" type="radio"/>	N
JAM 144-147	Mounted	<input checked="" type="radio"/>	N
	Thrown away	<input checked="" type="radio"/>	N

BB 6-28-13  
Pt - pits quarry info given.  
208-16-13

## GRTS point verification: Is plot sampleable?

<input checked="" type="checkbox"/> Yes	Original GRTS point is sampleable
<input type="checkbox"/> No	Original GRTS point lands in a non-sampleable area (fill in category below)
	<input type="checkbox"/> Point falls in a water (i.e. river, lake)
	<input type="checkbox"/> Managed mowed area (i.e. golf course, picnic area, right-of-way)
	<input type="checkbox"/> Paved area (i.e. parking lot, road)
	<input type="checkbox"/> Unsafe to sample (i.e. steep slope)
	<input type="checkbox"/> Other

## Additional Comments:

103  
197  
201

# CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

## GENERAL INFORMATION

**Project Label:** PCAP  
**Project Name:** O1 RR 2013  
**Plot Name:** The Attic

**Plot No.:** 1366  
 Level 4 (no nested corners sampled)  
 Level 5 (nested corners sampled)

Date (mm/dd/yyyy): 07/22/2013  
 Second date if > day: 07/24/2013  
 End date if > day: 07/24/2013

**Party**  
 J. Miller  
 Plot leader  
 S. Eysenbach  
 Plot. Ass't  
 C. Lewino  
 Bloody Tech  
 A. Schaufley

**Role\*\***  
 Rois: Co-leader, Asst. Guide, Owner, Taxonomist, etc.  
**PLOT NOT SAMPLED:**  Other  
 □ Perm. water  Paved  Slope  Safety

**SAMPLING QUALITY\***  
**Effort Level:**  
 Very thorough  
 Accurate  
 Hurried  
 subjective evaluation of how much effort put into sampling. Hurried plots may still provide good data

**TAXONOMIC ACCURACY**  
 high  moderate  low  not simpl ma  
 vascul.     ma  
 bryo     ma  
 lichen     ma

**TAXONOMIC STANDARD**

**Authority:** G&C **Pub Date:** 1998

Minimum required fields in Bold and Underlined



## LOCATION

**State:** OH **County:** Cuyahoga

Quadrangle:

Local Place Names:

North Quarry  
 Prairie area

**Data Confidentiality:**  
 Check one:  Public data  Private Data

Fuzz 100m  Fuzz 250m  Fuzz 500m

**Reason:**

If data not public why?

**Source of coordinates:**  MAP  GPS

**Coordinate system:**

**Coord. Units**

Lat/long  UTM  StatePlane

deg  deg min

Other (specify)

m  ft

**Datum:**  NAD83/WGS84  NAD27

GPS location in plot x=0 to 5, y=-1.0,+1:

x =  y =  -1 (base of plot x=0, y=0)

**Latitude:** N 41.36492

**Longitude:** W 081.85680

**Coord. Accuracy:**  m  ft  100' R.

**GPS File Name:** 1366A

**Plot size for cover data:** 0.054 (hectares)

**X-axis Bearing of plot:** [156] °

**Depth:** (1-5): 4

**Intensive modules:** 2,3,8,9, 12,3,4 (EDIT IF MODIFIED)

**Camera No.:** C3

**Photo Nos.:** C3 1498

**Plot placement:**  GRTS  Representative

Random  Stratified Random  Transect component

Systematic (grid)  Capture specific feature  Other

2.10  
 module

Plot:  
 = GRTS point  
 = mowed

Diagram:

Key: (0,0) point

**NOTE:** include Layout (any unusual shape details), Location (directions and landscape content), Rationale (why here), and Veg Characterization (description of community, dominant strata, BROWSE). Additional notes in space on back.

**Layout:** 1x4

**Veg. Characteristics:** ("The Attic" is cramped, dark and full of junk.) Mesic Fluvial, very disturbed, island-like wood of adjacent to mowed areas, road and APT.

Red pine pseudo-acacia are the tallest and most dominant tree, but not more than 50% of plot. Also in the tree canopy were Ash, *Prunus serrulata*, *Acer negundo* and *Juglans nigra*. There were a couple A. platanoides as well. The shrub layer consisted of smaller ash, tangles of Lindera (Muelleri and Mack).

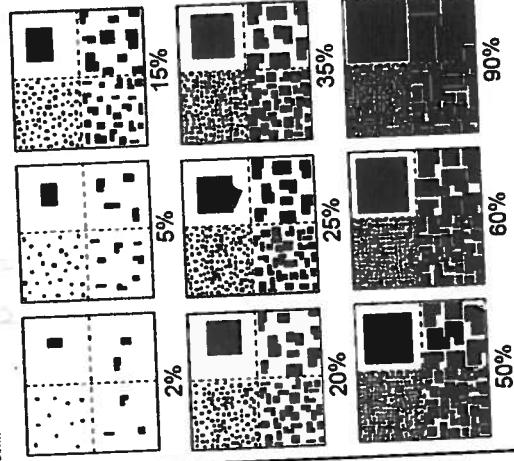
\*Definitions and values in CM PCAP FOM v.1.0 and CVS Field Guide





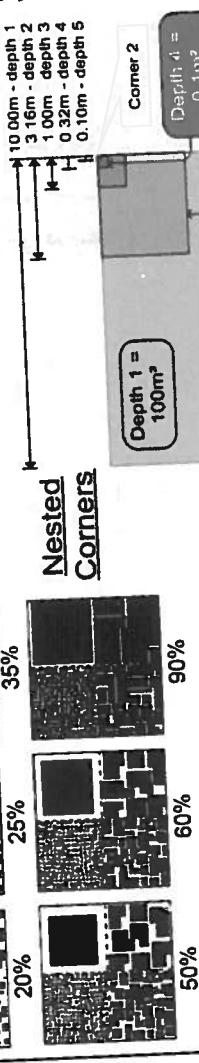
#### EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used for various data elements to convey 'Amount' or 'Quantity'. **NOTE:** Within any given box, each quadrant contains the same total area covered, just different sized objects.



cover class	% cover	midpoint
1	solitary or few	0.0001
2	0-1%	0.005
3	1-2%	0.015
4	2-5%	0.035
5	5-10%	0.075
6	10-25%	0.175
7	25-50%	0.375
8	50-75%	0.625
9	75-95%	0.850
10	95-100%	0.975

#### Nested Corners



#### BROWSE RATING NARRATIVE DESCRIPTION

**LOW OR NONE:** there is no measurable browse line

**AND** there are very few or no plants 1-m nested quadrat and intensive module. In general, low values relate to less than 10 percent, by numbers of stems browsed.

**MEDIUM LOW** values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse areas. For example, trilliums may flower and fruit, but jewelweed and arrowwood viburnum exhibit browse.

**MEDIUM:** browse affects greater than 10 percent and less than 25 percent of stems in the 1 m<sup>2</sup> nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some species of plants.

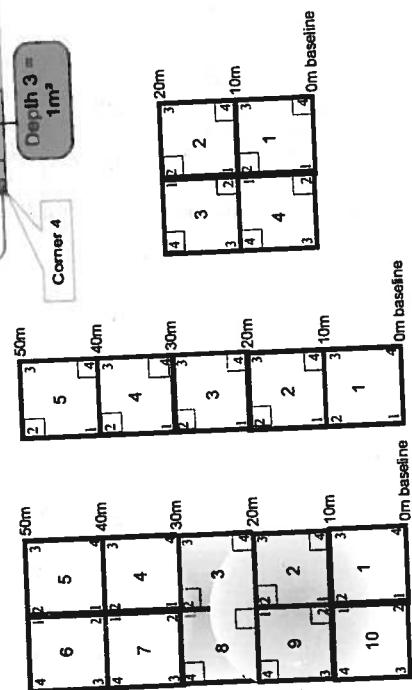
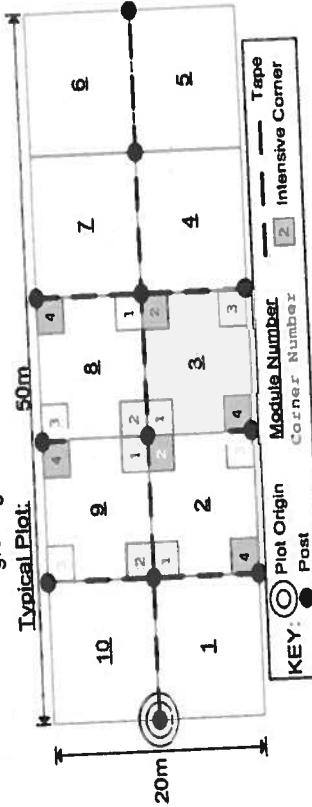
**MEDIUM HIGH** values include evidence of a browse line and 25 percent of stems browsed with very little vegetation regeneration evident. In this rating, for some species of plants, reproduction does not appear to occur or it is very severely limited.

**HIGH:** greater than 25 percent of the stems of plants in the 1 m<sup>2</sup> nested quadrat and intensive module **AND** a browse line is evident.

**VERY HIGH** values include extensive browse conditions,

where the browse line is very evident AND almost all seedlings and herbs are severely browsed or missing.

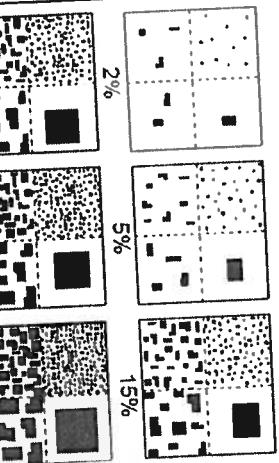
Browse line may be 5 to 6 feet in height with no or little green growth beneath.





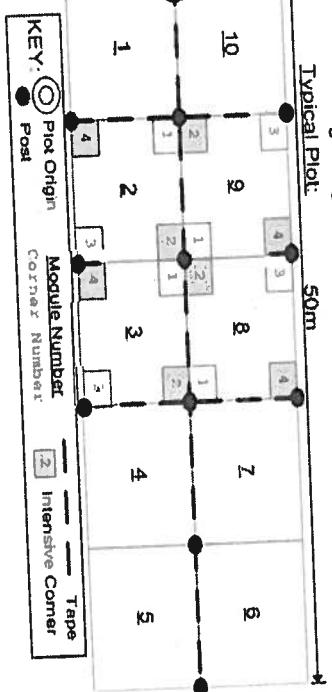
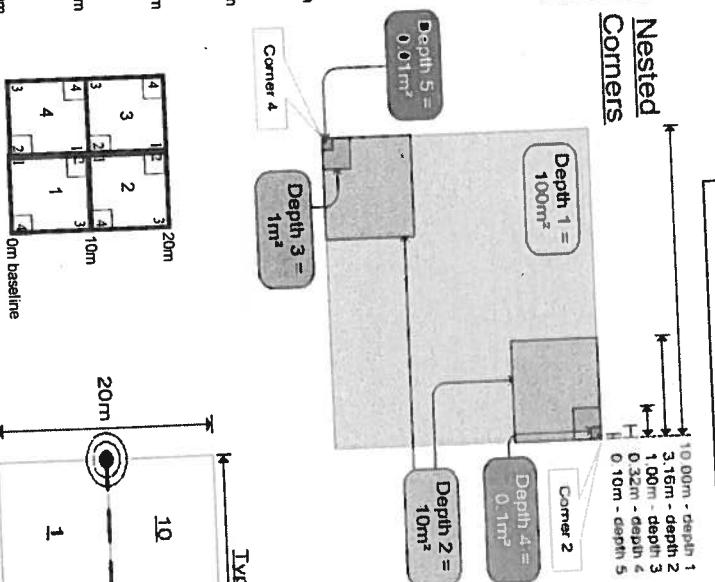
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### Nested Corners

cover class	% cover	midpoint
1	solitary or few	0.0001
2	0-1%	0.005
3	1-2%	0.015
4	2-5%	0.035
5	5-10%	0.075
6	10-25%	0.175
7	25-50%	0.375
8	50-75%	0.625
9	75-95%	0.850
10	95-100%	0.975



### BROWSE RATING NARRATIVE DESCRIPTION

**LOW OR NONE:** there is no measurable browse line AND there are very few or no plants 1-m nested quadrat

and intensive module. In general, low values relate to less than 10 percent, by numbers or stems browsed.

**MEDIUM LOW** values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse areas. For example, trilliums may flower and fruit, but jewelweed

and arrowwood viburnum exhibit browse.

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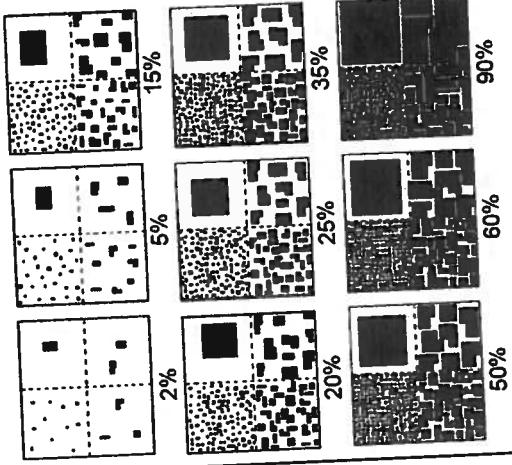
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#### BROWSE RATING NARRATIVE DESCRIPTION

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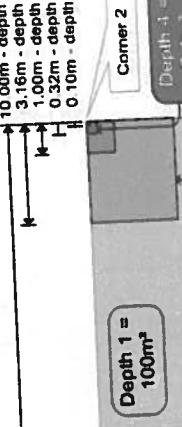
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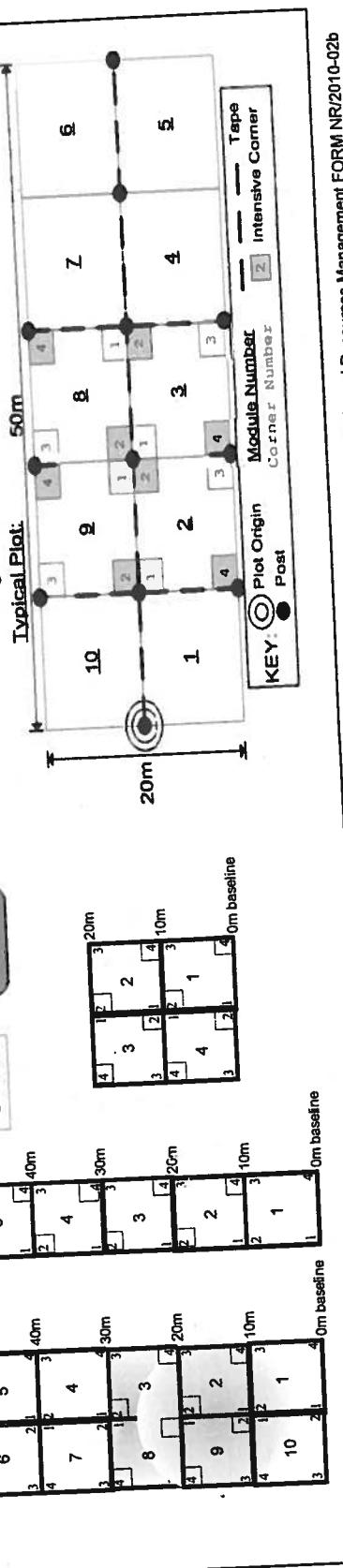
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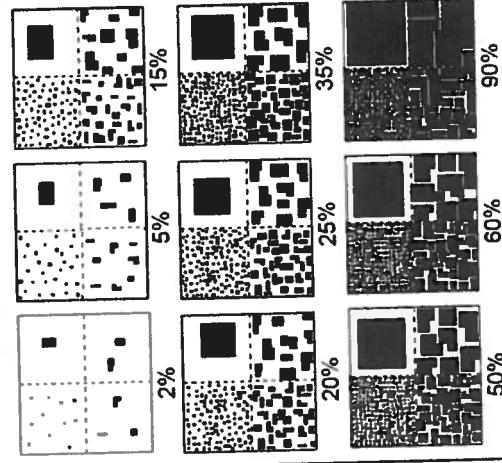
#### Nested Corners





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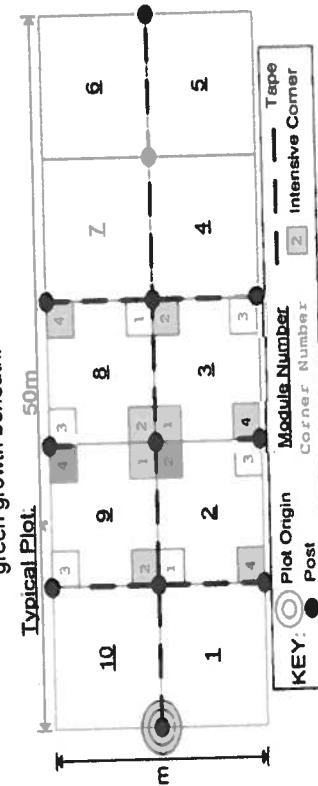
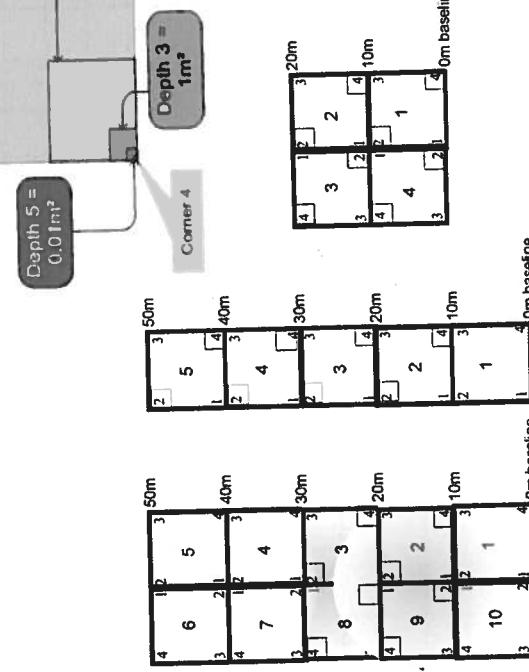
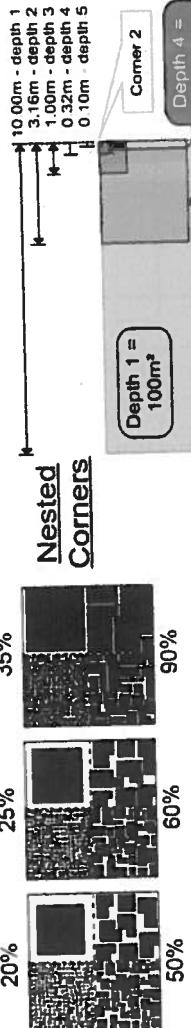
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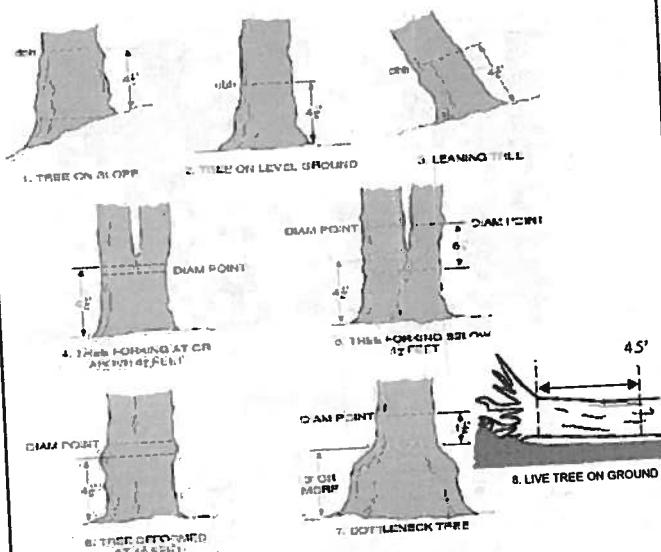
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7	25-50%	0.375
8	50-75%	0.625
9	75-95%	0.850
10	95-100%	0.975





#### DBH Measurement Rules



#### Woody Stem Deer Browse

Record the number of stems/plants between 0.5-1.0 meters tall that exhibit evidence of this years deer browse.

Record using the tally system from 1 to 10



1



2



3



4



5

#### ASH CANOPY CONDITION

1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
2. Thinning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.
3. Dieback: Canopy is thinning and some top branches exposed to sunlight are dead (have no leaves). Lower branches, not exposed to sunlight, die naturally and are not considered.
4. >50% Dieback: The canopy has less than half of the leaves that should be there and/or half of the top branches are dead.
5. Dead canopy: No leaves remain in the canopy portion of the tree. It still counts as a 5 even if there are epicormic sprouts below the canopy (lowest branch) on the trunk.



A

B

C

D

E

#### ASH CANOPY BREAKUP CONDITION (for dead trees):

(If an ash receives a score of 5 (dead) under canopy condition it must also receive a breakup condition rank as described below)

- A: All main branches contain fine twigs (newly dead).
- B: Over 50% of main branches have fine twigs.
- C: Less than 50% of main branches have fine twigs.
- D: Stem still standing and tertiary main branches present.
- E: Central stem still standing.

## CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: 01MSd013

Plot No.: 1366

Page: 2 of 3

Cleveland Metroparks

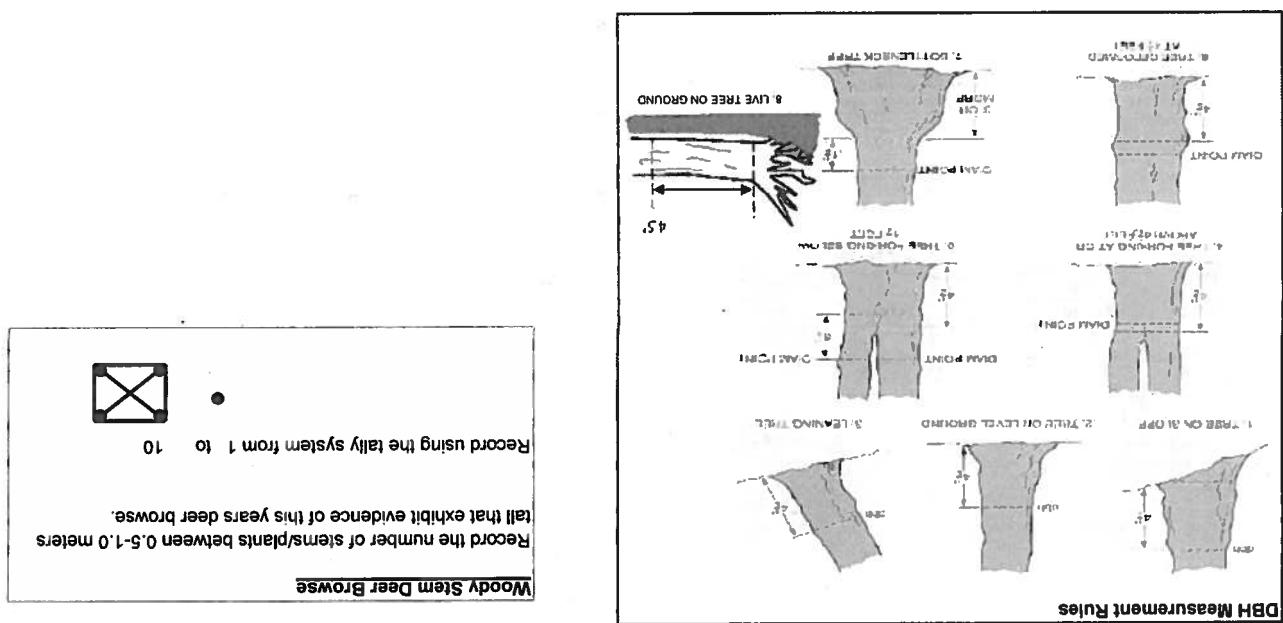
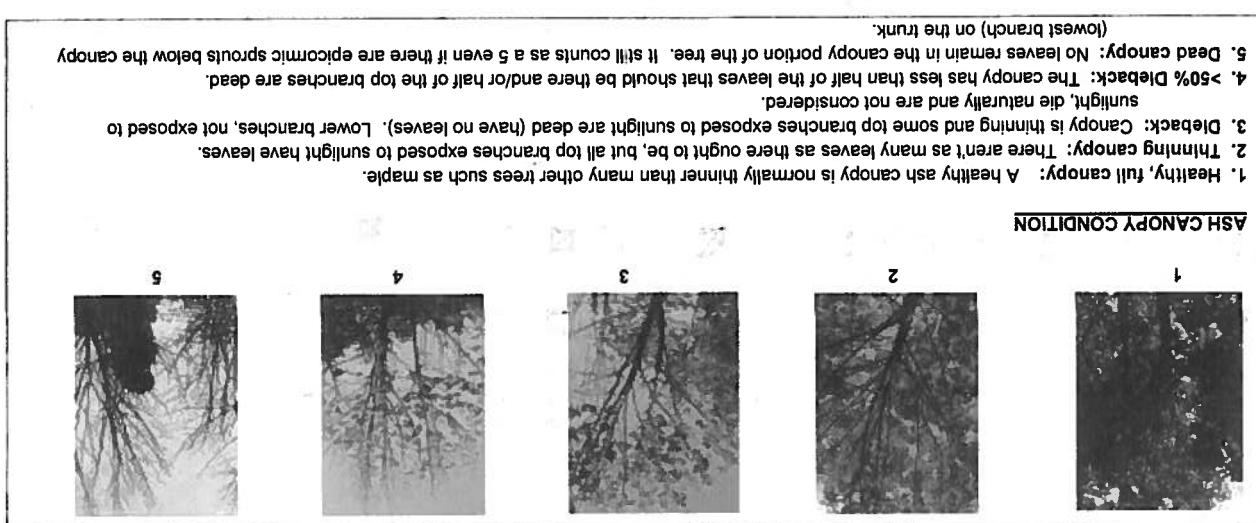
Explain subsample (additional room on back):

mod #	species	c voucher#	# stems browsed	% sub sample	# shrub clumps	size class (cm) woody stems >1.4m											>40 (record each tree)
						0-<1	1-2.5	2.5-<5	5-<10	10-<15	15-<20	20-<25	25-<30	30-<35	35-<40	>40	
2	LONICERA MORROWII					•	X	•									
2	PRUNUS CERASUS					•		X	•								
2	PRUNUS VIRGINIANA					•			X								
2	RUBUS PSUEDO-ACACIA					•											
2	Lindera benzoin					•											
2	Aesculus glabra					•											
2	LIGUSTRUM vulgare					•											
3	PRUNUS CERCUS					••											
3	FRAXINUS PENNSYLVANICA					•		•									
3	Standing dead						X										
3	PRUNUS SEROTINA					••		••									
3	Fraxinus americana					•		•									
3	PARTHENOCISSUS QUINQUEFOLIA					••											
3	LONICERA MAMMATA					•											
3	LIGUSTRUM VOLATRÉS					•											
3	TOXICODENDRON RADicans					••											
3	ACER NEGUNDIO					••		•									
3	ACER SACCHARINUM					•		•									
3	ROBINA PSUEDO-ACACIA					••											
3	PRUNUS VILLOSIANA																
3	ULMUS AMERICANA																
4	FRAXINUS SP.																
4	RUBUS PSUEDO-ACACIA																
4	PRUNUS VIRGINIANA																

ASH CANOPY BREAKUP CONDITION (for dead trees)				
A	B	C	D	E
				

If an ash receives a score of 5 (dead) under canopy condition it must also receive a breakup condition rank as described below:

A: All main branches contain fine twigs (newly dead).  
 B: Over 50% of main branches have fine twigs.  
 C: Less than 50% of main branches have fine twigs.  
 D: Stem still standing and tertiary main branches present.  
 E: Central stem still standing.



## CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: OHMS 2013

Plot No.: 1366

Page: 3

of 3  
Cleveland Metroparks

Explain subsample (additional room on back):

mod #	species	c	voucher#	# stems 0-1.4m browsed	% sub sample	# shrub clumps	size class (cm) woody stems > 1.4m											11 >40 (record each tree)
							1	2	3	4	5	6	7	8	9	10		
4	Strawberry dead						0	0	0	0								
4	Fraxinus pennsylvanica			••			0	0	0	0								
4	Pyrus sp.						0	0	0	0								
4	Rhamnus americanus						0	0	0	0								
4	Toxicodendron radicans			0			0	0	0	0								
4	Parthenocissus quinquefolia						0	0	0	0								
4	Prunus serotina						0	0	0	0								
4	Quercus bicolor						0	0	0	0								
4	ROSA MULTIFLORA						0	0	0	0								
✓ 4	Rubus occidentalis			0			0	0	0	0								
1	Rhus virginiana						0	0	0	0								
3	ROSA MULTIFLORA						0	0	0	0								
✓ Ater sp.							0	0	0	0								
4	Fraxinus nigra						0	0	0	0								
4	Chionanthus virginicus						0	0	0	0								
✓ 4	Fragaria ananassa						0	0	0	0								

**ASH CANOPY BREAKUP CONDITION (for dead trees):**

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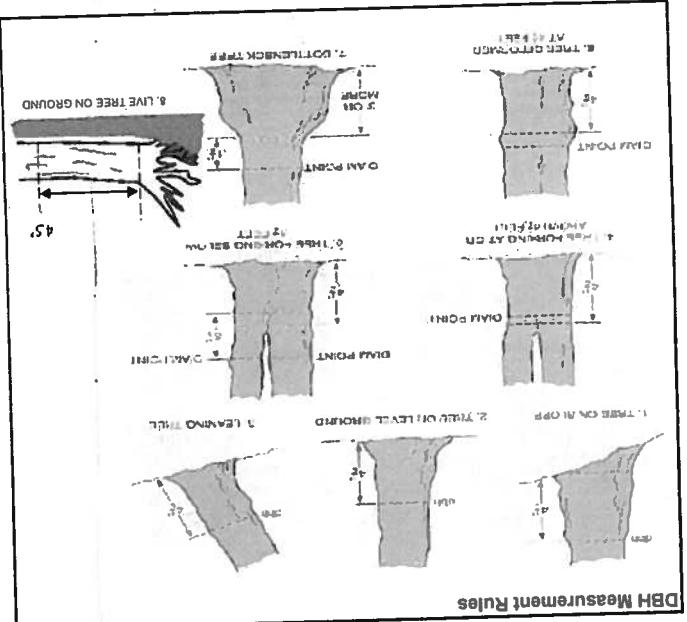
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2. Thinning canopy: The area has many leaves as there ought to be, but all top branches exposed to sunlight have leaves.
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#### ASH CANOPY CONDITION



	•
Record using the tally system from 1 to 10	
Tall thet exhibit evidence of this years deer browse.	
Record the number of stems/plants between 0.5-1.0 meters	

#### Woody Stem Deer Browse



CLEVELAND METROPARKS Emerald Ash Borer - *Fraxinus* Sheet

Project Label: PCAP

Project Name: OIMS2013

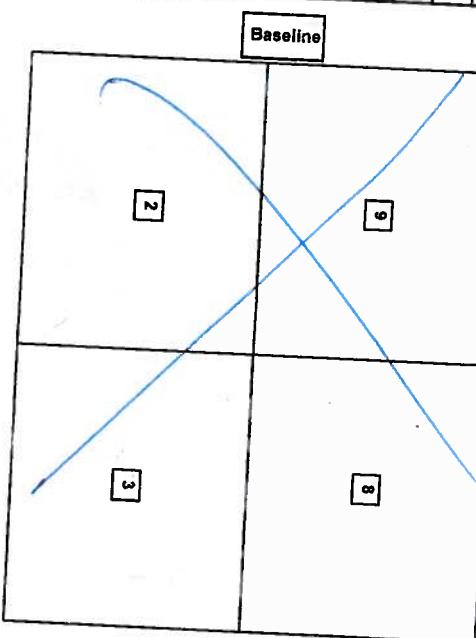
INTENSIVE MODULES ONLY      TREES  $\geq 10\text{cm}$  ONLY  
Plot No.: 1366      Date: 7-22-13

Page: 1 of 2

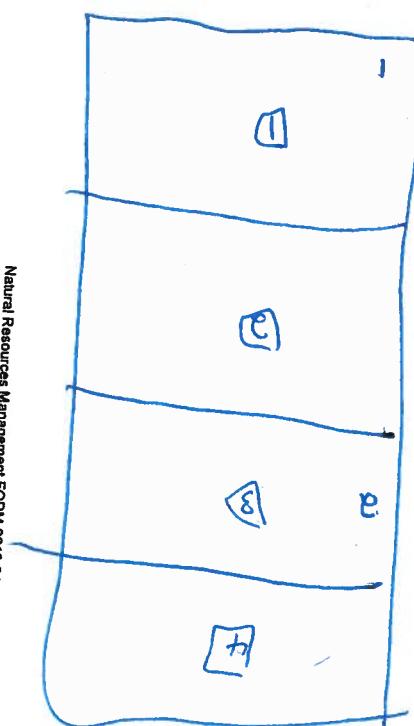
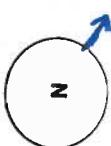
Module	Tree ID.	Species	Dead c	Voucher #	DBH (cm)	Ht @ DBH	Ash condition	ASH ONLY		
								*Dead holes	# Exit holes	Epicormic present
1	1	<i>Fraxinus</i> sp.	50	X	11.8	1	5	0	14	0
2	2	<i>Fraxinus</i> sp.	50	X	11.5	1	5	0	18	1
3	3									
4	4									
5	5									
6	6									
7	7									
8	8									
9	9									
10	10									
11	11									
12	12									
13	13									
14	14									
15	15									
16	16									
17	17									
18	18									
19	19									
20	20									
21	21									
22	22									
23	23									
24	24									
25	25									

- \* If Ash Condition scores 5 (dead) provide breakup score (A-E)
- Count EAB exit holes:  $1.25\text{m}^2 \times 21.5\text{m}$
- Woodpecker and epicormic marked present (1) or absent (0)

Map all ash trees  $\geq 10\text{cm}$  in each module using Tree ID number



\*\*\* Change intensive module numbers when necessary







**COVER BY STRATA**

STRATUM	GENERAL FORM
Tree (generally >5 m)	Tree (overstory), very tall shrubs*, liana, epiphyte
Shrub (generally 0.5 to 5 m)	Tree (sapling), shrub, liana, epiphyte)
Herb (Field)	Herb, dwarf-shrub**, tree (seedling**)
Floating	Floating
Aquatic (submerged)	Submerged

\*Very tall shrubs are sometimes included in the tree stratum

\*\*Can also include seedlings of shrubs, i.e. all shrubs <0.5m

\*\*\*Tree seedlings are often defined as up to 1.4 m height or as <2.5 cm DBH in which case they would span the herb and shrub layers.

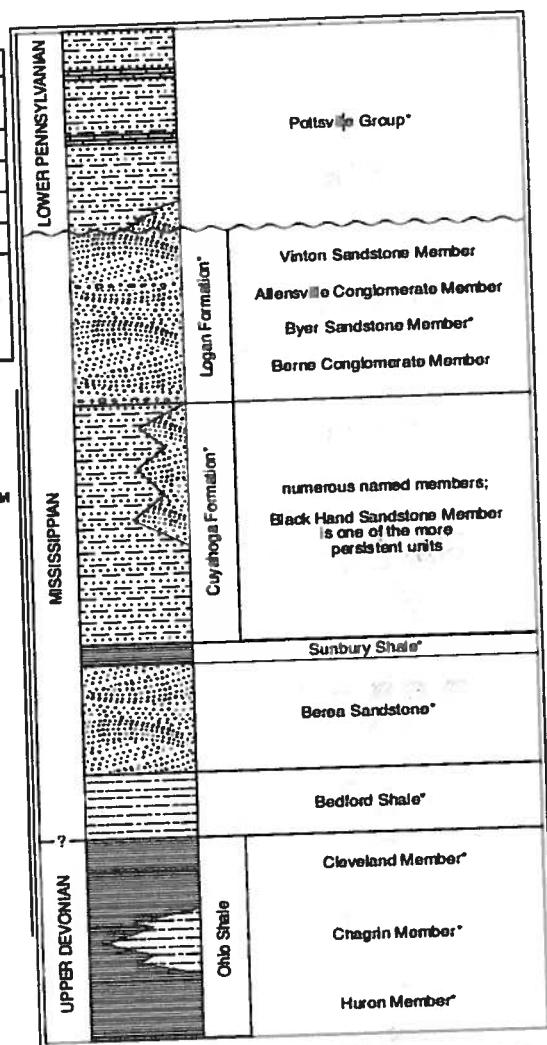
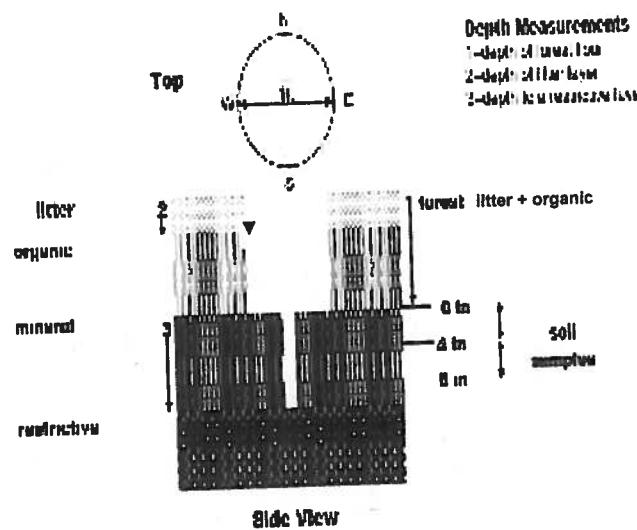


FIGURE 3-20.—Generalized section of Upper Devonian, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Wavy" is used in the older literature to refer to Mississippian rocks in Ohio. Some geologists use the European term "Carboniferous," which encompasses the Mississippian and Pennsylvanian Periods of the U.S. Many units have been named within the Cuyahoga Formation, but most units are local and cannot be traced over great distances. The Black Hand Member is a spectacular massive sandstone that is fairly widespread but discontinuous. See Hyde (1953), Hoover (1960), and Collins (1979) for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of rock types.



P+ - Pits quarry?

**SOIL PIT DESCRIPTION:** Excavate 20 cm plug wih shovel. Describe using Munsell chart, visual exam, texture, and odor.

**SOIL PIT DESCRIPTION:** Excavate 20 cm plug wih shovel. Describe using Munsell chart, visual exam, texture, and odor.

**SOIL SAMPLES** Standard pvc sample of the top 10 cm of soil intensive module and composite

Web Soil Survey does not provide information

Soil pit module # 2 (one per entire plot)		VE & GROUND COVER	
5 cm	matrix color 2.5Y3/3	Surface*	Ground Cover
monitic color	-	(Height < 100%)	percent
% monitic	D	2.3,8,9 composted	
oxid. tools	Y (N)	Web Soil Survey Information:	
texture*	A	Soil Series/Type: PL - PITS (Wetland)	
redox features**	Y (N)	Landform type: N/A	
hydr. cond.***	I S M D	Depth to top layer: N/A	
20 cm	matrix color 2.5Y3/3	Parent Material: N/A	
monitic color	-	DRAINAGE*	
% monitic	D	<input checked="" type="checkbox"/> Excessively dr.	<input type="checkbox"/> Somewhat excessively
oxid. tools	Y (N)	<input type="checkbox"/> Well drained	<input type="checkbox"/> Moderately well dr
texture*	A	<input type="checkbox"/> Somewhat poorly dr.	<input type="checkbox"/> Very poorly dr.
redox features**	Y (N)	<input type="checkbox"/> Impenetrable surface	
hydr. cond. ***	I S M D		

**SOIL DEPTH MEASUREMENT:** Measure to the nearest 0.1 cm in center of intensive modules. If >30.5 cm, record as >30

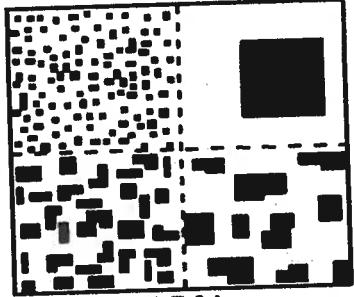
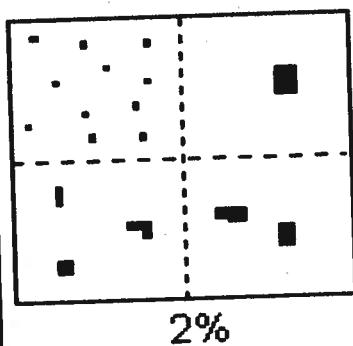
Strata	Height Range (m)	Total Cover (%)
Tree	>5 m	73%
Shrub	0.5 - 5 m	63%
Herb	≤ 0.5 m	68%
Floating*	N/A	N/A
(Aquatic)*	N/A	N/A

COVER BY STRATA estimate using midpoints of 5, ex: 3, 8, 13 %				
Strata	Height Range (m)	Total Cover (%)	STAND SIZE	
Tree	>5 m	73%	<input type="checkbox"/> ~500 x plot size	
Shrub	0.5 - 5 m	63%	<input type="checkbox"/> > 100 x plot size	
Herb	≤ 0.5 m	68%	<input type="checkbox"/> 10-100 x plot size	
Floating*	N/A	N/A	<input type="checkbox"/> 3-10 x plot size	
(Aquatic)*	N/A	N/A	<input type="checkbox"/> 1-3 x plot size	
			<input type="checkbox"/> < plot size	

\* rooted and floating or slightly emersed  
 \*\* submersed, most plant mass below surface  
 SEE BACK OF PAGE FOR "TYPICAL" STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.

**PERCENT MOTTLES (USE CLASS CODES):**

Class	Code	NASIS	Criteria: % of Surface Area Covered
Conv.			
Few	f	#	< 2
Common	c	#	2 to < 20
Many	m	#	≥ 20



**SOIL TEXTURE:** Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but excess water does not freely flow from the sample when squeezed. Attempt to roll the sample into a ball. If the soil will not stay in a ball and has a grainy texture, the texture is either sandy or coarse sandy. If the soil does form a ball, squeeze the sample between your fingers and attempt to form a self-supporting ribbon. Samples which form both a ball and a ribbon should be coded as clayey; samples which form a ball but not a ribbon should be coded as loamy.

0= Organic

1= Loamy

2= Clayey

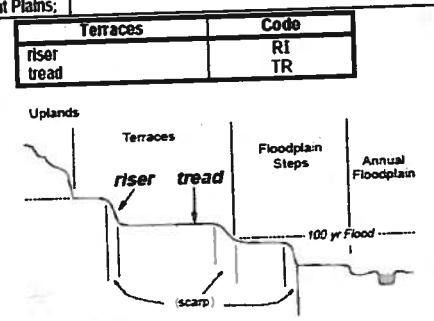
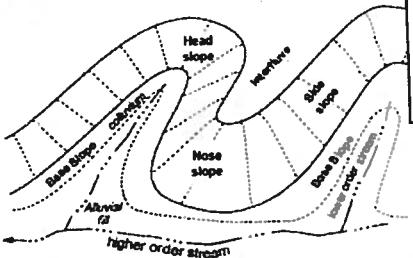
3= Sandy

4= Coarse Sand

9= Not measured - make plot note

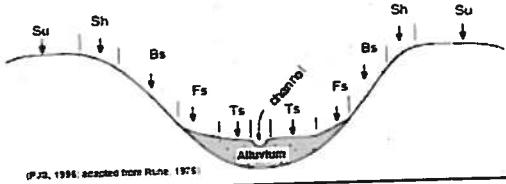
**Geomorphic Component** - Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains; e.g., (for Hills) nose slope or NS.

Hills	Code	NASIS
PDP		
Interfluve	IF	IF
head slope	HS	HS
nose slope	NS	NS
side slope	SS	SS
base slope	--	BS



**Hillside - Profile Position (Hillside Position in PDP)** - Two-dimensional descriptors of parts of line segments (i.e., slope position) along a transect that runs up and down the slope; e.g., backslope or BS. This is best applied to transects or points, not areas.

Position	Code
summit	SU
shoulder	SH
backslope	BS
footslope	FS
toeslope	TS



**HYDROLOGIC REGIME** Modified from Grossman et al 1998. (Frequency and duration of flooding.)

**UPLAND:** Not a wetland. Very rarely flooded.

**INTERMITTENTLY/SEASONALLY SATURATED:** Dry at least once per year. Surface water is seldom present, but substrate is saturated to surface for extended periods during the growing season.

**PERMANENTLY/SEMIOPENANTLY SATURATED:** Dry less than once per year. Surface water is seldom present, but substrate is saturated to surface for extended periods during the growing season. Equivalent to Cowardin's Saturated modifier.

**OCCASIONALLY FLOODED:** Surface water can be present for brief periods during growing season, but not in most years. Often characterizes flood-plain upper terraces.

**TEMPORARILY FLOODED:** Surface water present for brief periods during growing season, but water table usually lies well below soil surface. Often characterizes flood-plain levees and lower terraces. Equivalent to Cowardin's Temporary modifier.

**INTERMITTENTLY FLOODED:** Substrate is usually exposed, but surface water can be present for variable periods without detectable seasonal periodicity. Inundation is not predictable to a given season and is dependent upon highly localized rain storms. This modifier was developed for use in the arid West for water regimes of Playa lakes, intermittent streams, and dry washes but can be used in other parts of the U.S. where appropriate. This modifier can be applied to both wetland and non-wetland situations. Equivalent to Cowardin's Intermittently Flooded modifier.

**SEMIOPENANTLY FLOODED** (exposed <1/year): Surface water persists throughout the growing season in most years. Land surface is normally saturated when water level drops below soil surface. Includes Cowardin's Intermittently Exposed and Semipermanently Flooded modifiers.

**PERMANENTLY FLOODED:** Water covers the land surface at all times of the year in all years. Equivalent to Cowardin's "permanently flooded".

**UNKNOWN:** The hydrologic regime cannot be determined from the available information.



# FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)

Reviewed by (Initial): \_\_\_\_\_

Site ID: PCAP MS 13bb

DATE: 07/24/2013

**(\*) Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble**

Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Eurasian Watermilfoil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Purple Loosestrife	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Johnson Grass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Water hyacinth	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Knotweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Kudzu	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Yellow Floating Heart	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Japanese Knotweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Multiflora Rose	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Giant Salvinia	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Perennial Pepperweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Common Buckthorn	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Garlic Mustard	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		Giant Reed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Himalayan Blackberry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Poison Hemlock	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Cheatgrass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Tamarisk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Mile-A-Minute Weed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Reed Canary Grass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Birdsfoot Trefoil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Common Reed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Canada Thistle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Leafy Spurge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
										Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

### PLOT COORDINATES

Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.

If Buffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the flag box, and describe where the coordinates were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.

Location of coordinates (choose one):

AA CENTER     N3     S3     E3     W3     Nearest practicable location (flag and comment below)

Flag

Latitude North 41.36475      Longitude West 081.85670

Use Decimal Degrees; NAD83

Flag	Comments

7966623548



## FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)

Reviewed by (Initial): \_\_\_\_\_

Site ID: PLAT MS 1366DATE: 07/24/2013

• Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble

Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Eurasian Watermilfoil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Purple Loosestrife	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Johnson Grass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Water hyacinth	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Knotweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Kudzu	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Yellow Floating Heart	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Japanese Knotweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Multiflora Rose	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Giant Salvinia	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Perennial Pepperweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Common Buckthorn	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Garlic Mustard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Giant Reed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Himalayan Blackberry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Poison Hemlock	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Cheatgrass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Tamarisk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Mile-A-Minute Weed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Reed Canary Grass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Birdsfoot Trefoil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Common Reed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Canada Thistle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Leafy Spurge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
										Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

## PLOT COORDINATES

Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.

If Buffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the flag box, and describe where the coordinates were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.

Location of coordinates (choose one):

AA CENTER     N3     S3     E3     W3     Nearest practicable location (flag and comment below)

Flag 

Latitude North

41.36601

Longitude West

081.85664

Use Decimal Degrees; NAD83

Flag	Comments
<input checked="" type="radio"/>	There is a batery frail to the River south of plot 1



## FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)

Reviewed by (Initial): \_\_\_\_\_

Site ID: PCA# MS1366

DATE: 07/24/2013

④ Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble

Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Eurasian Watermilfoil	○	○	○		Purple Loosestrife	○	○	○		Johnson Grass	○	○	○	
Water hyacinth	○	○	○		Knotweed	○	○	○		Kudzu	○	○	○	
Yellow Floating Heart	○	○	○		Japanese Knotweed	○	○	○		Multiflora Rose	○	○	○	
Giant Salvinia	○	○	○		Perennial Pepperweed	○	○	○		Common Buckthorn	○	○	○	
Garlic Mustard	○	○	○		Giant Reed	○	○	○		Himalayan Blackberry	○	○	○	
Poison Hemlock	○	○	○		Cheatgrass	○	○	○		Tamarisk	○	○	○	
Mile-A-Minute Weed	○	○	○		Reed Canary Grass	○	○	○		Other: _____	○	○	○	
Birdsfoot Trefoil	○	○	○		Common Reed	○	○	○		Other: _____	○	○	○	
Canada Thistle	○	○	○		Leafy Spurge	○	○	○		Other: _____	○	○	○	
										Other: _____	○	○	○	

## PLOT COORDINATES

Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.

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Location of coordinates (choose one):

 AA CENTER     N3     S3     E3     Nearest practicable location (flag and comment below)

Flag

1

Latitude North 41.36492      Longitude West 081.85625

Use Decimal Degrees; NAD83

Flag	Comments
1	plots 2 and 3 could not be sampled b/c Rocky River was about 40 m <sup>part</sup> from AA center

L.mackii  
L.moroni

L.vulgaris  
Phalaris (reed canary)

R.multiflora

A.platyrhynchos

E.numbellina

7966623548

R.Frangula



## FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)

Reviewed by (Initial): \_\_\_\_\_

Site ID: PCAP MS 136bDATE: 07 / 24 / 2013

**● Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble**

Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Eurasian Watermilfoil	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		Purple Loosestrife	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		Johnson Grass	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
Water hyacinth	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Knotweed	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Kudzu	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Yellow Floating Heart	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Japanese Knotweed	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Multiflora Rose	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Giant Salvinia	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Perennial Pepperweed	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Common Buckthorn	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Garlic Mustard	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Giant Reed	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Himalayan Blackberry	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Poison Hemlock	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Cheatgrass	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Tamarisk	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Mile-A-Minute Weed	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Reed Canary Grass	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Other:	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Birdsfoot Trefoil	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Common Reed	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Other:	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Canada Thistle	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Leafy Spurge	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Other:	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
										Other:	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	

**PLOT COORDINATES**

Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.

If Buffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the flag box, and describe where the coordinates were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.

**Location of coordinates (choose one):**

AA CENTER     N3     S3     E3     W3     Nearest practicable location (flag and comment below)

Flag Latitude North 41.36366Longitude West 081.85616

Use Decimal Degrees; NAD83

Flag	Comments
1	Valley Pkwy
2	APT



## FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)

Reviewed by (Initial): \_\_\_\_\_

Site ID: PCAP MS 1366

DATE: 07 / 24 / 2013

(Q) Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble

Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Eurasian Watermilfoil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Purple Loosestrife	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Johnson Grass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Water hyacinth	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Knotweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Kudzu	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Yellow Floating Heart	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Japanese Knotweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Multiflora Rose	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Giant Salvinia	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Perennial Pepperweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Common Buckthorn	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Garlic Mustard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Giant Reed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Himalayan Blackberry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Poison Hemlock	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Cheatgrass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Tamarisk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Mile-A-Minute Weed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Reed Canary Grass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Birdsfoot Trefoil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Common Reed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Canada Thistle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Leafy Spurge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
										Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

## PLOT COORDINATES

Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.

If Buffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the flag box, and describe where the coordinates were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.

## Location of coordinates (choose one):

AA CENTER    N3    S3    E3    W3    Nearest practicable location (flag and comment below)

Flag

Latitude North 41.36449   Longitude West 0.8185836

Use Decimal Degrees; NAD83

Flag	Comments
1	Falls in mowed area of N. Quarry Picnic Area
2	Small tributary falls in the plot w/ trail bridge (man made wood)
3	Trail bridge and a trail (dirt/rock) split of two ways

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