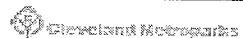


## CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form



Project Label: PCAP

Plot No: 3374 Date Sampled: 8-1-11 Lead: Eysenbach

Comment required if item answer is NO

Parking/Access outside of Park Boundaries.	Y <input checked="" type="radio"/> N <input type="radio"/>	If yes, write details in Comments section below	
Field journals completed	Y <input checked="" type="radio"/> N <input type="radio"/>		
Site sketch made on 1:3000 map?	Y <input checked="" type="radio"/> N <input type="radio"/>		
Check cover page	X-axis Bearing of plot recorded	Y <input checked="" type="radio"/> N <input type="radio"/>	
	GPS coords. Recorded	Y <input checked="" type="radio"/> N <input type="radio"/>	
	North direction recorded	Y <input checked="" type="radio"/> N <input type="radio"/>	
	Photographs taken?	Y <input checked="" type="radio"/> N <input type="radio"/>	
Plot No., Date agreement on all pages?	Y <input checked="" type="radio"/> N <input type="radio"/>		
Header data completed all pages?	Y <input checked="" type="radio"/> N <input type="radio"/>		
Cover classes recorded in all Intensive modules	Y <input checked="" type="radio"/> N <input type="radio"/>		
Browse Level By Species	Y <input checked="" type="radio"/> N <input type="radio"/>		
Woody stem quality control check	Y <input checked="" type="radio"/> N <input type="radio"/>		
Invasive plant quality control check	Y <input checked="" type="radio"/> N <input type="radio"/>		
Ash trees mapped	Y <input checked="" type="radio"/> N <input type="radio"/>	N/A	
Cover by Strata? (confirm cover type)	Y <input checked="" type="radio"/> N <input type="radio"/>		
Soil samples collected with matching plot #	Y <input checked="" type="radio"/> N <input type="radio"/>		
Vouchers labeled on datasheet with initials and number	Y <input checked="" type="radio"/> N <input type="radio"/>		
Vouchers labeled on collection bag	Y <input checked="" type="radio"/> N <input type="radio"/>		
Pink flags removed	Y <input checked="" type="radio"/> N <input type="radio"/>		
Data sheet QA before leaving site?	Y <input checked="" type="radio"/> N <input type="radio"/>		
Common equipment returned to tub.	Y <input checked="" type="radio"/> N <input type="radio"/>		
Data sheets scanned?	Y <input checked="" type="radio"/> N <input type="radio"/>	Enter date to left 8/15/11	
Final data sheets scanned?	Y <input checked="" type="radio"/> N <input type="radio"/>	Enter date to left	
Buffer Widths measured?	Y <input checked="" type="radio"/> N <input type="radio"/>		
Web Soil Survey	Y <input checked="" type="radio"/> N <input type="radio"/>		
Voucher Location	Refrigerator	Y <input checked="" type="radio"/> N <input type="radio"/>	
(# vouchers collected)	Press (#)	Enter number to left	
	Drier	Y <input checked="" type="radio"/> N <input type="radio"/>	
	Identified	Y <input checked="" type="radio"/> N <input type="radio"/>	
	Mounted	Y <input checked="" type="radio"/> N <input type="radio"/>	
	Thrown away	Y <input checked="" type="radio"/> N <input type="radio"/>	

## GRIS point verification: Is plot sampleable?

<input checked="" type="checkbox"/> Yes	Original GRIS point is sampleable
<input type="checkbox"/> No	Original GRIS 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. parkinglot, road)
	<input type="checkbox"/> Unsafe to sample (i.e. steep slope)
	<input type="checkbox"/> Other

## Additional Comments:

--



## CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

 This field is required  
 This field is optional

Page 1 of 2

<b>GENERAL INFORMATION</b>			
<b>Project Label:</b>	PCAP		
<b>Project Name:</b>	<u>113R 021</u>		
<b>Plot Name:</b>	<u>Chewing on Beach Leaves</u>		
<b>Plot No.:</b>	<u>3374</u>		
<input type="checkbox"/> Level 4 (no nested corners sampled) <input checked="" type="checkbox"/> Level 5 (nested corners sampled)			
<b>Date (mm/dd/yyyy):</b>	<u>8 / 1 / 2011</u>		
<b>End date (if &gt; 1 day):</b>	<u>/ /</u>		
<b>Party</b>	<b>Role**</b>		
<u>S. Lutzenbach</u>	Plot leader		
<u>J. Lutzenbach</u>	Plot leader		
<u>C. Collier</u>	Field notes		
<u>J. Murphy</u>	Field notes		
<small>** Roles: Co-leader, Asst. Guide, Owner, Taxonomist, etc.</small>			
<b>PLOT NOT SAMPLED:</b>			
<input type="checkbox"/> Perm. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety			
<b>SAMPLING QUALITY*</b>			
<b>Effort Level:</b> <input checked="" type="checkbox"/> Very thorough <input type="checkbox"/> Accurate <input type="checkbox"/> Hurried			
<small>subjective evaluation of how much effort put into sampling. Hurried plots may still provide good data</small>			
<b>TAXONOMIC ACCURACY</b>			
<input checked="" type="checkbox"/> high	<input type="checkbox"/> moderate	<input type="checkbox"/> low	<input type="checkbox"/> not simpl.
<input checked="" type="checkbox"/> ✓			<input type="checkbox"/> n/a
bryo			
lichen			<input checked="" type="checkbox"/> ✓
<b>TAXONOMIC STANDARD</b>			
<b>Authority:</b>	G&C		
<b>Pub Date:</b>	1998		
<small>Minimum required fields in Bold and Underlined</small>			

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

Plot placement:  
 Representative ~~&RTS~~  Random  Stratified Random  
 Transect component  Systematic (grid)  Capture specific feature  Other  
 Other (specify)  m  ft  mm

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

**Coordinate system:** Coord. Units  
 Lat/Long  UTM  StatePlane  deg  deg minn  
 Other (specify)  m  ft  mm

**Datum:**  NAD83/WGS84  NAD27

**Latitude:** 41.30125  
**Longitude:** 81.69714  
**Coord. Accuracy:**  m  ft  + - 2.7

**GPS File Name:** 3374A  
**Plot size for cover data:** 0.05 (hectares)

Stems not sampled on this plot  Stems absent  
 Stems present Plot size stems: 0.05 (ha)

**Depth:** (1-5): 4  
**Intensive modules:** 2, 3, 4, 1, 2, 3, 4 (EDIT IF MODIFIED)

**Camera No.:** 2  
**Photo Nos.:** C2-1121-1122

**Layout:** 1x5  
**Location:** Park along Valley Parkway  
 Plot is between Valley Parkway  
 and Residential properties  
**Rationale:** LRTS pt  
**Veg Char:** Beach, Sugar Maple, Tupelo, Red Oak  
 Mid: Bergenia, Beach, Maple  
 Under: Dianthus, Deerweed, Understory  
 Lots of Deer poo.  
 Traxinus seedlings, Prunanthus  
 OVER

# CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Project Label: PCAP Project Name: DIBR 2011

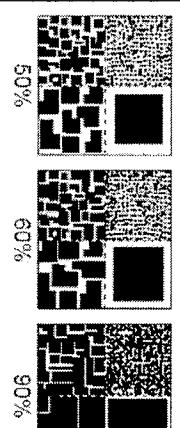
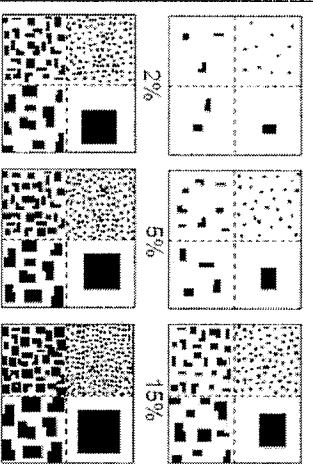
Plot No.: 3374 Page 2 of 2

CLASSIFICATION	STAND SIZE	DISTURBANCES			
		type*	severity**	yrs ago	% of plot
(Fit = excellent, good, fair, poor; CONF = high, med, low)	Fit and Confidence				
<b>Hydrogeomorphic class (WETLANDS ONLY):</b>					
<input type="checkbox"/> DEPRESSION	Fit= _____ Conf= _____	<input type="checkbox"/> >1,000 x plot size			
<input type="checkbox"/> IMPOUNDMENT <input type="checkbox"/> Beaver <input type="checkbox"/> Human	Fit= _____ Conf= _____	<input type="checkbox"/> > 100 x plot size			
<input type="checkbox"/> RIVERINE <input type="checkbox"/> Headwater <input type="checkbox"/> Mainstem <input type="checkbox"/> Channel	Fit= _____ Conf= _____	<input checked="" type="checkbox"/> 10-100 x plot size			
<input type="checkbox"/> SLOPE (ground water hydrology or on a physical slope)	Fit= _____ Conf= _____	<input type="checkbox"/> 3-10 x plot size			
<input type="checkbox"/> FRINGING <input type="checkbox"/> Reservoir <input type="checkbox"/> Natural Lake	Fit= _____ Conf= _____	<input type="checkbox"/> 1-3 x plot size			
<input type="checkbox"/> COASTAL (specify subclass)	Fit= _____ Conf= _____	<input type="checkbox"/> < plot size			
<input type="checkbox"/> BOG (strongly, moderately, weekly ombrotrophic)	Fit= _____ Conf= _____				
<b>Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):</b>					
<input type="checkbox"/> FOREST <input type="checkbox"/> swamp forest <input type="checkbox"/> bog forest <input type="checkbox"/> forest seep	Fit= _____ Conf= _____				
<input type="checkbox"/> EMERGENT <input type="checkbox"/> marsh <input type="checkbox"/> wet meadow <input type="checkbox"/> open bog	Fit= _____ Conf= _____				
<input type="checkbox"/> SHRUB <input type="checkbox"/> shrub swamp <input type="checkbox"/> tall sh. bog <input type="checkbox"/> tall sh. fen	Fit= _____ Conf= _____				
<b>MODIFIED NATURERESERVE CLASS*</b>					
CODE (on separate form): CO2	Fit= <u>good</u> Conf= <u>med</u>				
COMMUNITY NAME:	Beech-Maple (w/some oaks)				
<b>HOMOGENEITY</b>	Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)				
<input checked="" type="checkbox"/> Homogeneous					
<input type="checkbox"/> Compositional trend across the plot					
<input type="checkbox"/> Conspicuous inclusions					
<input type="checkbox"/> Irregular/pattern mosaic					
<p>Plot(s), mostly Beech canopy w/a few Sugar Maples Red Oaks. Beech activity is <del>very</del> high based on past years and this years browser. Very Chapman-like understory. The plot is highly disturbed with some trash. Mod S is residual and the northern portion is more open and wet w/ foul Manna Grass and Spice Bush.</p>					

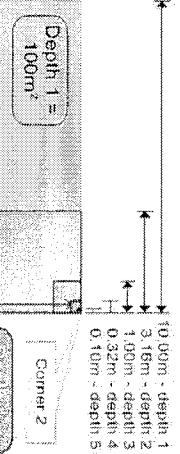


#### EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used for various data elements to convey "amount of coverage". NOTE: Within any given box, each quadrant contains the same total area covered just different sized objects.



#### 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.

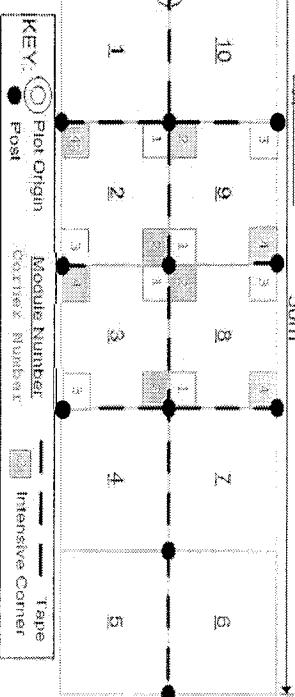
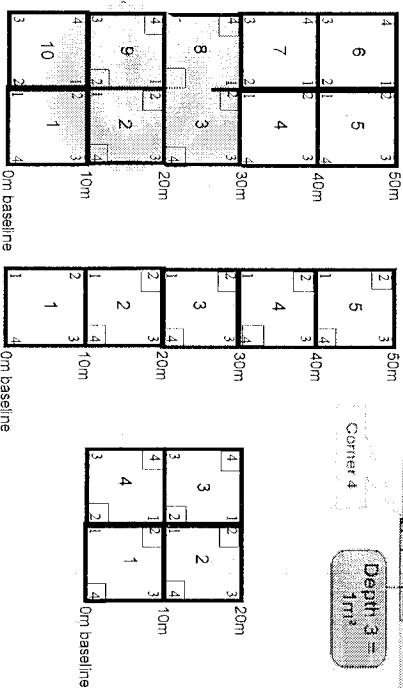
**MEDIUM LOW** values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse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

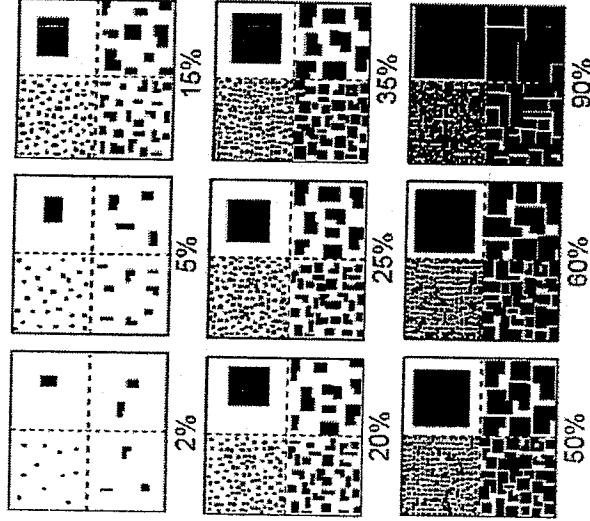
**VERY HIGH** values include extensive browse conditions, where the browse line is very evident AND almost all seedlings and herbs are severely browsed or missing. Browse line may be 5 to 6 feet in height with no or little green growth beneath.





#### 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.



#### 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.

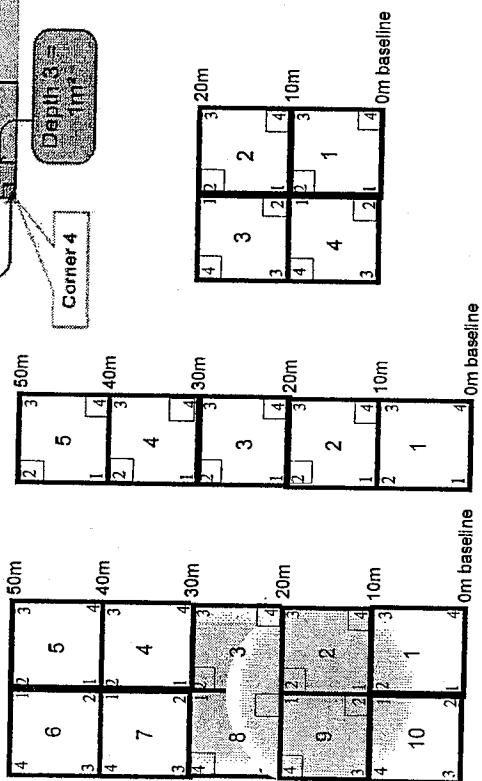
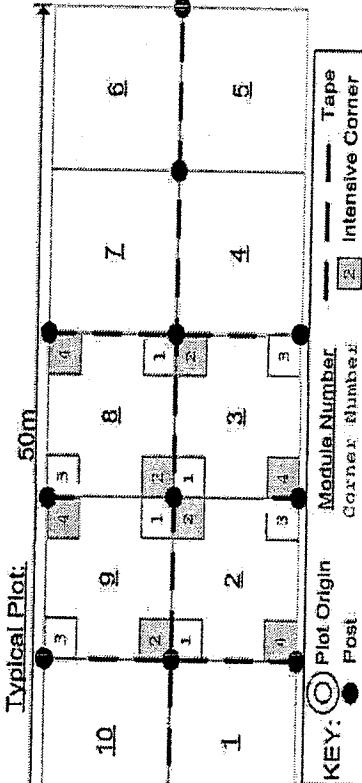
**MEDIUM LOW** values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse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



**CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet**

Page 3 of 3

Project Label: PCAP Project name: 01BB2011 Plot no.: 3374

Total modules: 5 Intensive modules: 4 Plot configuration: 1x5

Visual est. % open water entire site: 0 Visual est. %unveg o.w. entire site: 0

Visual est. %invasives entire site: 0

Plot area (ha): 0.05

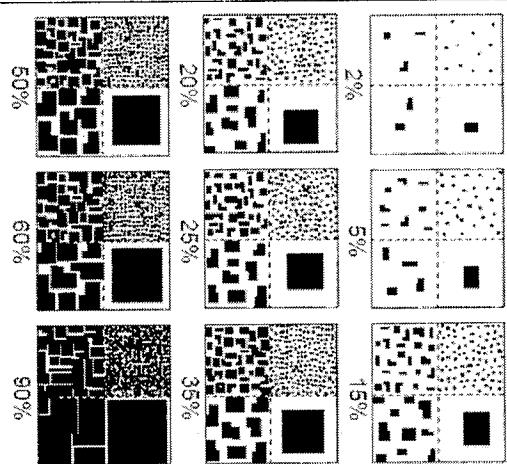


**Cleveland  
Metroparks**  
**Br = Browse Level.** Use cover classes to  
describe amount of browse per species over  
entire plot

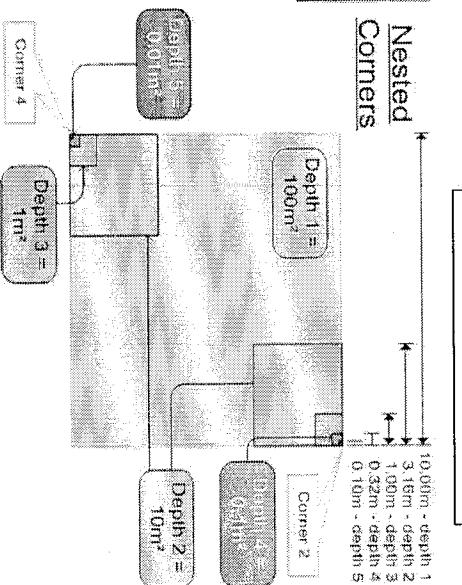
				Estimate for each intensive module:																							
T	S	H	(F)	(A)	Br	Species	C	Voucher #	mod	corner																	
						<i>Polygonatum virginianum</i>			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
						<i>Polygonatum sagittatum</i>			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
						<i>Tilia americana</i>			2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
						<i>Polygonatum pubescens</i>			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

### EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used for various data elements to convey amount of "Coverage". NOTE: Within any given box, each quadrat contains the same total area covered, just different sized objects.



### 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 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.

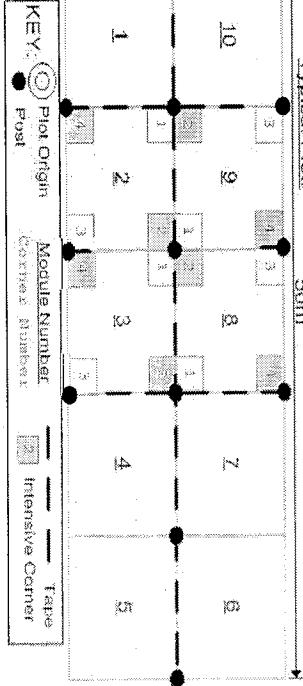
**MEDIUM:** browse affects greater than 10 percent and less than 25 percent of stems in the 1 m<sup>2</sup> nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse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



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

Project Label: PCAP

Project Name: 0113c201

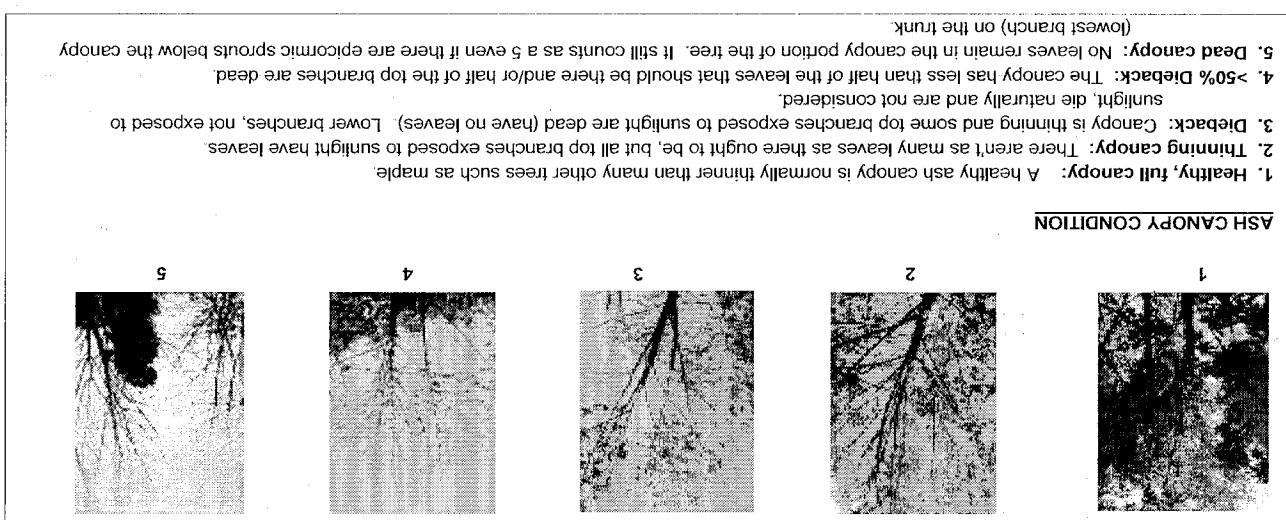
Plot No.: 3374

Page: 1 of 2

Explain subsample (additional room on back):

mod #	species	c voucher#	# stems 0.5-1m browsed	% sub sample	# shrub clumps	size class (cm) woody stems >1m										11 >40 (record each tree)
						1 0-<1	2 1-<2.5	3 2.5-<5	4 5-<10	5 10 - <15	6 15 - <20	7 20 - <25	8 25 - <30	9 30 - <35	10 35 - <40	
-1	Fagus grandifolia		2		•	•	•	11								
-1	Fraxinus americana		2		•											
-1	Prunus pensylvanica															
-1	Ostrya virginiana															
-1	Nyssa sylvatica															
-1	Betula lutea															
-1	Rosa multiflora															
-1	Prunus pensylvanica															
-1	Prunus pensylvanica															
-1	Prunus pensylvanica															
-1	Acer saccharum															
-1	Solidago speciosa															
-1	Ostrya virginiana															
-2	Styrax americanus															
-2	Fagus grandifolia															
-2	Prunus pensylvanica															
-2	Acer saccharum															
-2	Solidago speciosa															
-2	Fraxinus americana															
-3	Fagus grandifolia															
-3	Prunus pensylvanica															
-3	Acer saccharum															
-3	Styrax americanus															
-3	Smilax rotundifolia															
-4	Standring Decid															

ASH CANOPY BREAKUP CONDITION (for dead trees):				
A	B	C	D	E
(rank as described below)				



DBH Measurement Rules	
<p>Record using the tally system from 1 to 10</p> <p>Woodly Stem Deer Browse</p> <p>Record the number of stems/plants between 0.5-1.0 meters tall that exhibit evidence of this years deer browse.</p>	<p>Diagram illustrating DBH measurement rules:</p> <ul style="list-style-type: none"> <li>8 LIVE TREE ON GROUND</li> <li>10 LIVING BRANCHES</li> <li>12 LIVING BRANCHES</li> <li>14 LIVING BRANCHES</li> <li>16 LIVING BRANCHES</li> <li>18 LIVING BRANCHES</li> <li>20 LIVING BRANCHES</li> <li>22 LIVING BRANCHES</li> <li>24 LIVING BRANCHES</li> <li>26 LIVING BRANCHES</li> <li>28 LIVING BRANCHES</li> <li>30 LIVING BRANCHES</li> <li>32 LIVING BRANCHES</li> <li>34 LIVING BRANCHES</li> <li>36 LIVING BRANCHES</li> <li>38 LIVING BRANCHES</li> <li>40 LIVING BRANCHES</li> <li>42 LIVING BRANCHES</li> <li>44 LIVING BRANCHES</li> <li>46 LIVING BRANCHES</li> <li>48 LIVING BRANCHES</li> <li>50 LIVING BRANCHES</li> <li>52 LIVING BRANCHES</li> <li>54 LIVING BRANCHES</li> <li>56 LIVING BRANCHES</li> <li>58 LIVING BRANCHES</li> <li>60 LIVING BRANCHES</li> <li>62 LIVING BRANCHES</li> <li>64 LIVING BRANCHES</li> <li>66 LIVING BRANCHES</li> <li>68 LIVING BRANCHES</li> <li>70 LIVING BRANCHES</li> <li>72 LIVING BRANCHES</li> <li>74 LIVING BRANCHES</li> <li>76 LIVING BRANCHES</li> <li>78 LIVING BRANCHES</li> <li>80 LIVING BRANCHES</li> <li>82 LIVING BRANCHES</li> <li>84 LIVING BRANCHES</li> <li>86 LIVING BRANCHES</li> <li>88 LIVING BRANCHES</li> <li>90 LIVING BRANCHES</li> <li>92 LIVING BRANCHES</li> <li>94 LIVING BRANCHES</li> <li>96 LIVING BRANCHES</li> <li>98 LIVING BRANCHES</li> <li>100 LIVING BRANCHES</li> </ul>



**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).

E

D

C

B

A



- 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.

#### ASH CANOPY CONDITION



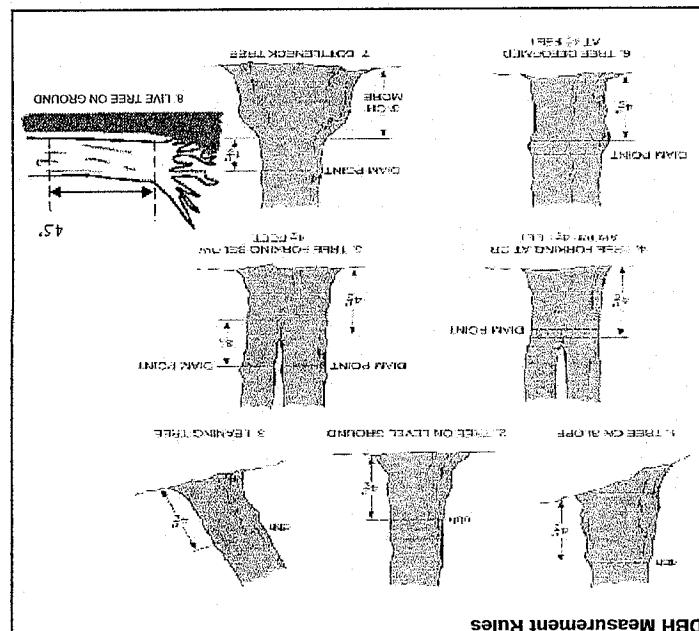
- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
- 2. Thinning canopy: The canopy is thinner as many leaves are ought to be, but all top branches exposed to sunlight have leaves.
- 3. Dieback: Canopy is thinning and some top branches exposed to 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.

10

Record using the tally system from 1 to 10

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

Woody Stem Deer Browse



Tier 1: Early detection/ Rapid response		Presence			GPS		
# of Plants	X: Yes	NE	SE	SW	NW	Presence	
5: >1,000							
4: 101-1,000							
3: 51-100							
2: 11-50.							
1: 1-10							
Tier 2: Assess as Needed		# of Plants			Comments		
Microstegium vimineum	Japanesе slitgrass	NE	SE	SW	NW	Presence	
Ranunculus ficaria	Lesser Celandine					X: Yes	
Cynanchum louiseae	(vine) Black Swallow-wort						
Butomus umbellatus	(wetland) Flowering Rush						
Hedera helix	Giant Hogweed						
Lonicera japonica	(vine) Japanese Honeysuckle						
Ailanthus altissima	Treе of Heaven						
Acer platanoides	Norway Maple						
Tier 3: Presence is of interest		# of Plants			Comments		
Convalaria majalis	(G-cover) Lily of the Valley	NE	SE	SW	NW		
Cornonilla varia	(G-cover) Crown Vetch						
Elutherococcus pentaphyllus	Five-leaf Aralia						
Pachysandra terminalis	(G-cover) Japanese Pachysandra						
Pholidopterus coronarius	Mock Orange						
Pulmonaria officinalis	(G-cover) Lungwort						
Rubus phoenicolasius	Whinberry						
Iris pseudacorus	Yellow Flag Iris						
Orrhagium umbellatum	Star of Bethlehem						
Viburnum opulus var. opulus	European Cranberry (shrub)						
Viburnum plicatum	Doublefile Viburnum (shrub)						
Tier 4: Widespread and abundant		Presence			Comments		
Alliaria petiolata	Garlic Mustard	NE	SE	SW	NW	Presence	
Ligustrum vulgare	Common Privet (shrub)						
L. morrowii, L. tatarica	Bush Honeysuckles (shrub)						
Phragmites australis	Phragmites (wetland)						
Phragmites australis (wetland)	Reed Canarygrass						
Polygonum cuspidatum	Japanese Knotweed						
Franquilia alnus	Glossy Buckthorn (shrub)						
Rosa multiflora	Multiflora Rose (shrub)						
Typha angustifolia, T. x. glauca	Cattails (wetland)						
Cirsium arvense	Canada Thistle						
Dipsacus fullonum	Common Teasel						
Hedysarum occidentale	Dame's Rocklet						
Vicia minor	Periwinkle						

CLEVELAND METROPARKS Emerald Ash Borer - *Fraxinus* Sheet

Project Label: PCAP

Project Name: C10R Revl

INTENSIVE MODULES ONLY TREES  $\geq 10\text{CM}$  ONLY  
Plot No.: 3371 Date: 2/1/11Page: 1 of 2  
© 2011 Metroparks of Cleveland

ASH Only							
Module ID.	Tree Species	Dead c	Voucher #	DBH (cm)	Ht @ DBH condition	Dead condition	# Exit holes
1							
2							
3	NO ASH						
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

Baseline

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

N

9

8

2

3

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

\* If Ash Condition scores 5 (dead) provide breakup score (A-E)

Count EAB exit holes  $1.25\text{m}^2 \times \geq 1.5\text{m}$ 

Woodpecker and epicormic marked present (1) or absent (0)

## CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface

Project Label: PCAP

Project Name: Olbr 2011

Plot No.: 3374

Page: 1 of 1

COVER BY STRATA (% estimate using midpoints of extremes)	
Site	Height Range (in)
5 - X	48
D.S. - S	48
Hrb	13
(Flotsam)*	-
(Aquatic)**	-

EARTH SURFACE & GROUND COVER	
Underlying Earth Surface*	Ground Cover
(Sum = 100%)	percent
Moss	0
Mineral Soil	100
Gravel-Cobble*	0
Boulders**	0
Bedrock	0
• Gravel-Cobble = 1/16 to 10 in	0
• Boulder = > 10 in	0
*** 5 cm in diameter	0
• Water	0
• Bare Soil	13
Road/Trail	0
Other:	0

TRAIL INFORMATION: If trail fails in plot record type and cover for each	
Type	%Cover
E All Purpose	
E Bridge	
E Hitting sanctioned	
E Bridge unsanctioned	
E Gravel	
E Deer	

Remember: in a standard 2x5 plot each module = 10% cover

## MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

Ranks for microhabitat features. Select one or select two and average the score. NOTE: If mod fails on a slope automatically gets ranked based on steepness (1-3).  
Slope 1 = slight elevation grade cross module (hill)  
Slope 2 = falls on slope ~20° Slope 3 = maximum steepness that can be safely sampled ~45°

0 feature is absent or functionally absent (Golf Course Flat)

1 feature is present in very small amounts or if more common, of low quality

2 feature is present in moderate or greater amounts, but not of highest quality, or in small amounts of highest quality

3 feature is present in moderate or greater amounts and of highest quality

c.w.d. - count for pieces with minimum 1m length

no. of tufts	no. of hummocks	no. macro depressions	c.w.d.	c.w.d.	c.w.d.	microhab interspers	microhab
depth 3		(2-12 cm)	>40 cm				
1x1m			(12-40cm)				
depth 2		depth 1	depth 1	depth 1	depth 1	SLOPE	
mod#	corner	(count)	(count)	(count)	(count)	(count)	(count)
1	C	0	1	13	0	1	0
2	O	0	0	8	0	1	0
3	O	0	1	12	1	1	0
4	O	0	1	8	0	1	0

## MCNAB INDICES (degrees) + for up - for down

[FILLED OUT USING GIS PROGRAM. DO NOT FILL OUT IN FIELD]

LFI\* TSI\*\*

LFI*	At aspect	N	E	W
1	2	3	2	2
2	2	1	0	1
3	8	0	0	0
4	2	0	1	0

CROWN COVER DENSITOMETER: Make 4 readings per module facing N, S, E, W Place dot counts in corresponding space (# dots per grid square)

LANDFORM INDEX (position within landscape)

TERRAIN SHAPE INDEX (site microtopographic shape)

NOTE: tussock and hummocks are counted in BOTH nested quadrat corners but counts are aggregated.

macro depressions = microtopographic depressions with module. These may extend into other modules and be counted again.

c.w.d. = coarse woody debris

microhab. Interspers. = overall ranking of plot microtopographic interspersion complexity using scale below

GENERAL FORM		STRATA		COVER BY STRATA	
Tree (generally > 5 m)	Shrub (generally 0.5 to 5 m)	epiphyte	Tree (overtop), very tall shrubs*, liana,	Tree (generally > 5 m)	Shrub (generally 0.5 to 5 m)
Floating	Herb (Field)	Herb, dwarf-shrub**, shrub, liana, epiphyte	Tree (spinning), shrub, liana, epiphyte	Floating	Herb (Field)
Aquatic (submerged)	Aquatic (submerged)	Submerged	epiphyte	Aquatic (submerged)	Aquatic (submerged)
LOWER PENNSYLVANIAN	MISSISSAUGA	Lamination	Lamination	LOWER PENNSYLVANIAN	MISSISSAUGA
Virgin Sandstone Member	numerous sand and silt lenses	Alluvial Conglomerate Member	numerous sand and silt lenses	Virgin Sandstone Member	Alluvial Conglomerate Member
Sandstone	interbedded with silt lenses	Sandstone	interbedded with silt lenses	Sandstone	Sandstone
Mudstone	interbedded with sand lenses	Mudstone	interbedded with sand lenses	Mudstone	Mudstone
Calcareous Mudstone	interbedded with sand lenses	Calcareous Mudstone	interbedded with sand lenses	Calcareous Mudstone	Calcareous Mudstone
Calcareous Shale	interbedded with sand lenses	Calcareous Shale	interbedded with sand lenses	Calcareous Shale	Calcareous Shale
Upper Devonian	Chagrin Member	Clevedon Member	Berea Sandstone	Upper Devonian	Chagrin Member
Olio Shale	Huron Member			Olio Shale	Huron Member

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

\*\*Very tall shrubs are sometimes included in the tree stratum  
\*\*Can also include seedlings of shrubs, i.e. all shrubs < 0.5 m  
\*\*Tree seedlings are often delomed as up to 1.4 m height or as < 2.5 cm DBH in which case they would span the herb and shrub layers.

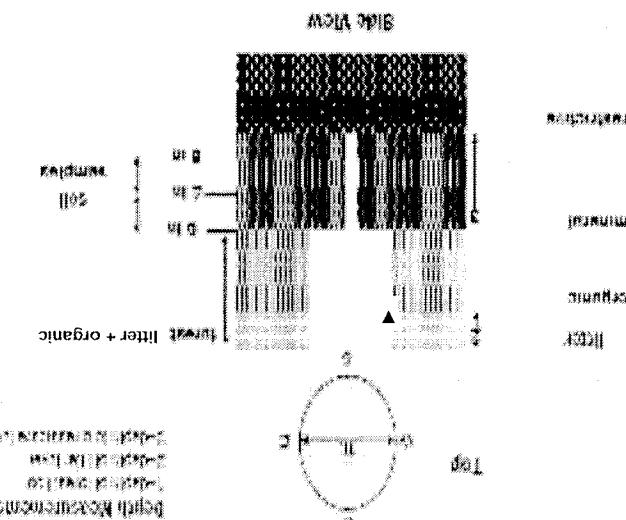


FIGURE 8-20 - Generalized section of Upper Devonian Shales, and Lower Pennsylvanian Shales, showing typical lithology and thicknesses. See Table 8-20 for detailed section of each type.

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet

Project label: PCAP Project Name: C11B1X2011

Plot No.: 337 L

Page: 1 of 1

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

Soil pit module # 3 (one per entire plot)

5 cm	matrix color	10 YR 5/4
	mottle color	—
	%mottle	—
	oxid roots	Y (N)
	texture*	1
	redox features**	Y (N)
	hydrt. cond. ***	I S M (D)
20 cm	matrix color	10 YR 5/6
	mottle color	—
	%mottle	—
	oxid roots	Y (N)
	texture*	1
	redox features**	Y (N)
	hydrt. cond. ***	I S M (D)

**SOIL SAMPLES** Standard procedure: collect a soil sample of the top 10 cm of soil from center of each intensive module and composite the sample

✓

Soil Collection Module	Horizon (A, B, C)
1, 2, 3, 4, composited	A

Soil Description/notes:

**STANDING BIOMASS** (required for emergent wetlands): collected in 0.1 m clip plots (32x32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C? = check when collected

Module #	C?	Corner	Corner

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

mod#	1 litter + organic depth (cm)	2 litter depth(cm)	3 restrict. depth(cm)	water depth (cm)	depth sat. soil (cm)
1	4.0	4.0	11	0	>30
2	3.5	3.5	20	0	>30
3	3.5	3.5	19	0	>30
4	3.0	3.0	23	0	>30

Length of soil probe = 125 cm

\* Use Web Soil Survey for #3 Restrictive layer dept.

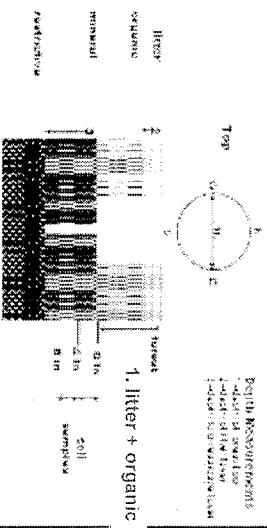
Depth to restrictive  
soil  
ceat.

>80 cm.

Depth to restrictive  
soil  
ceat.

>80 cm.

- Earthworms observed in soil pit
- Cashings larger small & sporadic throughout plot
- middens not observed



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

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

**SEMI-PERMANENTLY 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 Semi-permanently Flooded models.

**INTERMITTENTLY FLOODED**: Substrate is usually exposed to both wetland and non-wetland situations. Equivalent to Cowardin's Intermittently Flooded model.

**SEASONAL PERIODICALLY FLOODED**: Substrate is usually exposed, but surface water can be present for variable periods without detectable flooding. Inundation is not predictable to a given season and is dependent upon highly localized rain storms. This model 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 model can be applied to both wetland and non-wetland situations. Equivalent to Cowardin's Seasonal Periodically Flooded model.

**TEMPORARILY FLOODED**: Surface water characterizes flood-plain levees and lower terraces. Equivalent to Cowardin's Temporarily Flooded model.

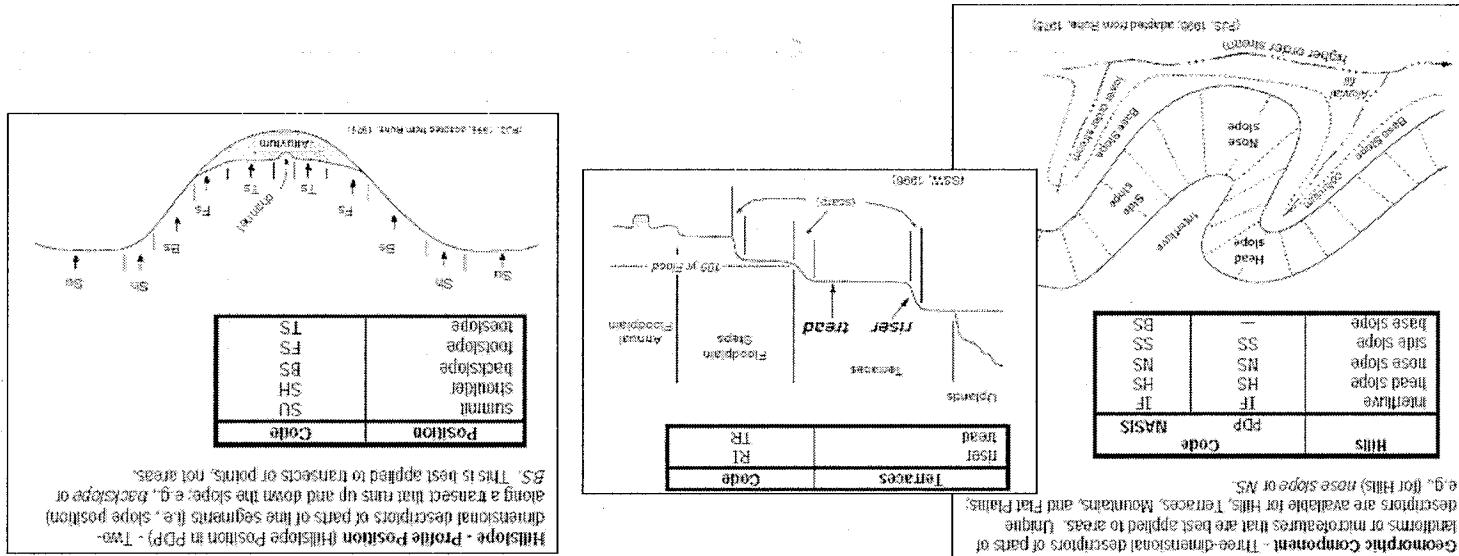
**OCCASIONALLY FLOODED**: Surface water is present for brief periods during growing season, but water table usually lies well below soil surface. Often characterizes flood-plain upper terraces. Equivalent to Cowardin's Occasional Flooded model.

**PERMANENTLY/SEMI-PERMANENTLY SATURATED**: Dy 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 model.

**INTERMITTENTLY/SSEASONALLY SATURATED**: Dy at least 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 Seasonally Saturated model.

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

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



Class	Code	Covr.	NASIS	Surface % of Covered	Center % of Covered	Common	Many
Few	L	#	#	<2	2-10	10-20	20-20
Common	C	#	#	<2	2-10	10-20	20-20
Many	I	#	#	<2	2-10	10-20	20-20
PERCENT MOTTLING (USE CLASS CODES)							
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 both a ball and a ribbon should be coded as clayey, samples and attempt to form a ball and a self-supporting ribbon. Samples which form a ball and a self-supporting ribbon should be coded as loamy which form a ball but not a ribbon should be coded as loamy.						
MOTTLING	Record the code for the motting 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 both a ball and a ribbon should be coded as clayey, samples and attempt to form a ball and a self-supporting ribbon. Samples which form a ball and a self-supporting ribbon should be coded as loamy which form a ball but not a ribbon should be coded as loamy.						



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

Reviewed by (initial): \_\_\_\_\_

Site ID: PCAPBR3374

DATE: 08/01/2011

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 checked="" type="radio"/>	<input 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 1 30.118Longitude West 81 69.862

Use Decimal Degrees: NAD83

Flag	Comments















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

Reviewed by (initial): \_\_\_\_\_

Site ID: PCAP BR 3374

DATE: 08/01/2011

**(\*) 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 checked="" type="radio"/>	<input 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 checked="" 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 

I

Latitude North 41.30.007Longitude West .81 6.9.6.7.3

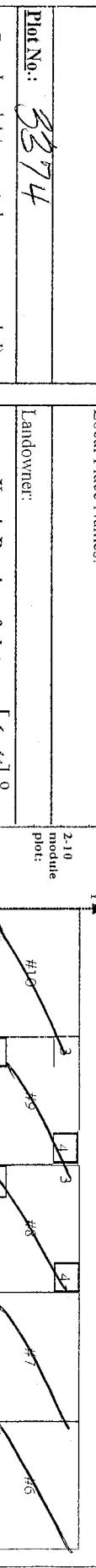
Use Decimal Degrees; NAD83

Flag	Comments
I	S3 falls abt 40 m N of OH Turnpike under powerlines

7966623548

# CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

©clevelandmetroparks  
Page 1 of 2

<b>GENERAL INFORMATION</b>		<b>LOCATION</b>	
<b>Project Label:</b>	PCAP	<b>State:</b>	OH County:
<b>Project Name:</b>		Quadrangle:	
<b>Plot Name:</b>		Local Place Names:	
<b>Plot No.:</b>			
<input type="checkbox"/> Level 4 (no nested corners sampled) <input checked="" type="checkbox"/> Level 5 (nested corners sampled)		<b>X-axis Bearing of plot:</b> <u>104°</u> 0	
<b>Date (mm/dd/yyyy):</b>		Landowner:	
<b>End date (if &gt; 1 day):</b>			
<b>Party</b>	<b>Role**</b>	<input type="checkbox"/> Fuzz 100m <input type="checkbox"/> Fuzz 250m <input type="checkbox"/> Fuzz 500m	
	<b>Plot leader</b>	<b>Reason:</b> If data not public why? Source of coordinates <input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS	
<small>** Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc.</small>		GPS location in plot x=0 to 5, y=-1, 0,+1); $x = \textcircled{0}$ $y = \textcircled{0}$ (base of plot x=0, y=0)	
<b>SAMPLING QUALITY*</b>		<b>Coordinate system:</b> <input type="checkbox"/> Lat/Long <input type="checkbox"/> UTM <input type="checkbox"/> StatePlane <input checked="" type="checkbox"/> deg <input type="checkbox"/> deg min <input type="checkbox"/> Other ( <i>specify</i> ) <input checked="" type="checkbox"/> m <input type="checkbox"/> ft <input type="checkbox"/> _____	
<b>Effort Level:</b> <input type="checkbox"/> Very thorough <input type="checkbox"/> Accurate <input type="checkbox"/> Hurried		<b>PLOT NOT SAMPLED:</b> <input type="checkbox"/> Perm. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety	
<b>TAXONOMIC ACCURACY</b>		<b>Plot placement:</b> <input type="checkbox"/> Representative <input type="checkbox"/> GRTS <input type="checkbox"/> Random <input type="checkbox"/> Stratified Random <input type="checkbox"/> Transect component <input type="checkbox"/> Systematic (grid) <input type="checkbox"/> Capture specific feature <input type="checkbox"/> Other	
<b>LONGITUDE</b> <b>Latitude:</b>		<b>NOTES:</b> Include Layout (any unusual shape details), Location (directions and landscape content), Rationale (why here), and Veg Characterization (description of community dominants, strata, BROWSE). Additional notes in space on back.	
<b>DATUM:</b> <input checked="" type="checkbox"/> NAD83/WGS84 <input type="checkbox"/> NAD27		<b>LOCATION - GRTS</b> pt landed at <u>edge</u> of mowed <del>area</del> area and narrow woodland along <u>Brundage Rd</u> (176), pull off on side of road to access plot.	
<b>Plot size for cover data:</b> <u>(hectares)</u>		<b>RATIONALE</b> - Plot modified to capture narrow strip of beech-maple woods between road and residential area	
<b>Effort Level:</b> <small>subjective evaluation of how much effort put into sampling. Hurried plots may still provide good data</small>		<input type="checkbox"/> Stems not sampled on this plot <input type="checkbox"/> Stems absent <input type="checkbox"/> Stems present <b>Plot size stems:</b> <u>(ha)</u>	
<b>Depth:</b> <u>1.5'</u>		<small>REG. - Regenerating beech-maple woods with some mature successional species (Black cherry)</small>	
<b>Intensive modules:</b> <u>1, 2, 3, 4, 5</u> (EDIT IF MODIFIED)		<b>Camera No.:</b> _____ <b>Photo Nos.:</b> _____	
<b>TAXONOMIC STANDARD</b>		<b>OVER</b>	
<b>Authority:</b> G&C <b>Pub Date:</b> 1998		<small>Minimum required fields in Bold and Underlined</small>	

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

# CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Project Label: \_\_\_\_\_

Project Name: \_\_\_\_\_

Plot No.: \_\_\_\_\_

Page 2 of 2



CLASSIFICATION	STAND SIZE	DISTURBANCES			
		type*	severity**	yrs ago	% of plot
(FIT = excellent, good, fair, poor; CONF = high, med, low)	Fit and Confidence				
<b>Hydrogeomorphic class (WETLANDS ONLY):</b>					
□ DEPRESSION	Fit= _____ Conf= _____	□ >1,000 x plot size	Human		
□ IMPOUNDMENT	Fit= _____ Conf= _____	□ >100 x plot size	Natural		
□ RIVERINE	Fit= _____ Conf= _____	□ 10-100 x plot size	Fire		
□ SLOPE (ground water hydrology or on a physical slope)	Fit= _____ Conf= _____	□ 3-10 x plot size	Cut		
□ FRINGING	Fit= _____ Conf= _____	□ 1-3 x plot size	Animal		
□ COASTAL (specify subclass)	Fit= _____ Conf= _____	□ < plot size	Other		
□ BOG (strongly, moderately, weekly ombrotrophic)	Fit= _____ Conf= _____				**L=low, M=med low, M=med, H=med high, H=high, VH=very high
<b>Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):</b>					
□ FOREST	Fit= _____ Conf= _____				
□ EMERGENT	Fit= _____ Conf= _____				
□ SHRUB	Fit= _____ Conf= _____				
<b>MODIFIED NATURE RESERVE CLASS*</b>					
CODE (on separate form):	Fit= _____ Conf= _____				
COMMUNITY NAME:					
<b>HOMOGENEITY</b>	Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)				
□ Homogeneous					
□ Compositional trend across the plot					
□ Conspicuous inclusions					
□ Irregular/pattern mosaic					