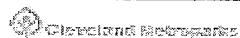


## CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form



Project Label: PCAP Plot No: 1161 Date Sampled: 7/18/11 Lead: DS

Comment required if item answer is NO

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

## 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. 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

Page 1 of 2

<b>GENERAL INFORMATION</b>		<b>LOCATION</b>	
<b>Project Label:</b> PCAP		<b>State:</b> OH <b>County:</b> LAKES	
<b>Project Name:</b> <u>CIVIC 2011</u>		<b>Quadrangle:</b> <del>SHILOH HEIGHTS</del>	
<b>Plot Name:</b> "BERRY'S FIRST PLOT"		<b>Local Place Names:</b> STRAWBERRY LAKE	
<b>Plot No.:</b> 1161		<b>Landowner:</b> CLE METRO	
<input type="checkbox"/> Level 4 (no nested corners sampled)		<input checked="" type="checkbox"/> Level 5 (nested corners sampled)	
<b>Date (mm/dd/yyyy):</b> 07/18/2011		<b>X-axis Bearing of plot:</b> [44] °	
<b>End date (if &gt; 1 day):</b> / /		<input type="checkbox"/> Fuzz 100m <input type="checkbox"/> Fuzz 250m <input type="checkbox"/> Fuzz 500m	
<b>Party</b>		<b>Reason:</b> if data not public why?	
<b>X STEVENS</b>		<b>Plot leader:</b> <u>BUTTERFIELD</u>	
<b>J LANUTERMAN</b>		<b>Source of coordinates:</b> <input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS	
<b>J MURPHY</b>		<b>GPS location in plot (x=0 to 5, y=-1,0,+1):</b> x = 0 y = 0 (base of plot x=0, y=0)	
<b>C CONRAD</b>		<b>Coordinate system:</b> <u>Lat/Long</u> <input type="checkbox"/> UTM <input type="checkbox"/> StatePlane <input checked="" type="checkbox"/> deg <input type="checkbox"/> deg min <input type="checkbox"/> Other (specify) <input checked="" type="checkbox"/> m <input type="checkbox"/> ft	
<b>SAMPLING QUALITY*</b>		<b>PLOT NOT SAMPLED:</b> <input type="checkbox"/> Other	
<input checked="" type="checkbox"/> Very thorough		<input type="checkbox"/> Perm. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety	
<input type="checkbox"/> Accurate		<input type="checkbox"/> Hurned	
<b>TAXONOMIC ACCURACY</b>		<b>Plot size for cover data:</b> 0.1 (hectares)	
<input checked="" type="checkbox"/> High		<input type="checkbox"/> Stems present <b>Plot size stems:</b> 0.1 (ha)	
<input checked="" type="checkbox"/> Moderate		<input type="checkbox"/> Stems absent	
<input type="checkbox"/> Low		<input type="checkbox"/> Vascular	
<input type="checkbox"/> Not sampled		<input type="checkbox"/> Bryo	
<input type="checkbox"/> n/a		<input type="checkbox"/> Lichen	
<b>TAXONOMIC STANDARD</b>		<b>Intensive modules:</b> 2, 3, 8, 9 (EDIT IF MODIFIED)	
<b>Authority:</b> G&C		<b>Pub Date:</b> 1998	

**Plot Layout - 2x5**

**LOCATION:** ca. 400m E of intersection of SORN CENTER RD. (91) & STRAWBERRY LN. Plot is just S of STRAWBERRY LN along Bridge trail. Park at small parking area E of plot just W of small pond.

**RATIONALE:** Agree with layout, original GRTS pt. @ (0,0).

**VEG:** - Red maple thicket (subcanopy-canopy) in old pinus plantation. Shrub layer sparse (scattered dying # fragaria), herb layer depauperate. Beech and sugar maple shrub layer/subcanopy; this is likely a regenerating beech-maple woods. Browse medium with tree sprouts showing highest density

**OVER**

\*Definitions and values in CMPCAP FORM v. 1.0 and CVS Field Guide

Minimum required fields in Bold and Underlined

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

Project Label: PCAP      Project Name: OMEZUL      Plot No.: 1161      Page 2 of 2

**CLASSIFICATION**

(FIT = excellent, good, fair, poor; CONF = high, med, low)

Fit and Confidence

**Hydrogeomorphic class (WETLANDS ONLY):**

- DEPRESSION
- IMPOUNDMENT  Beaver  Human
- RIVERINE  Headwater  Mainstem  Channel
- SLOPE (ground water hydrology or on a physical slope)
- FRINGING  Reservoir  Natural Lake
- COASTAL (specify subclass)
- BOG (strongly, moderately, weakly ombrotrophic)

Fit= Conf=

Fit= Conf=

Fit= Conf=

Fit= Conf=

Fit= Conf=

Fit= Conf=

**Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):**

- FOREST  swamp forest  bog forest  forest seep
- EMERGENT  marsh  wet meadow  open bog
- SHRUB  shrub swamp  tall sh. bog  tall sh. fen

Fit= Conf=

Fit= Conf=

Fit= Conf=

Fit= Conf=

Fit= Conf=

Fit= Conf=

Former Land Use: PRECLEAR (PARCERD)

Current Land Use:

UNKNOWN (PARCERD)

**HYDROLOGIC REGIME\***

- |                  |  |   |
|------------------|--|---|
| <b>SALINITY*</b> | <input type="checkbox"/> Saltwater                           | <input type="checkbox"/> Fresh                        |
|                  | <input type="checkbox"/> Openland (seldom flooded)           | <input type="checkbox"/> Brackish                     |
|                  | <input type="checkbox"/> Intermittently/seasonally saturated | <input type="checkbox"/> (seldom flooded)             |
|                  | <input type="checkbox"/> Temporarily flooded                 | <input type="checkbox"/> Permanently flooded          |
|                  | <input type="checkbox"/> Occasionally flooded (<1/yr)        | <input type="checkbox"/> Semi-permanently flooded     |
|                  | <input type="checkbox"/> (e.g. wind, storms)                 | <input type="checkbox"/> Tidal/Seiche flooded daily   |
|                  | <input type="checkbox"/> Unknown                             | <input type="checkbox"/> Tidal/Seiche flooded monthly |

COMMUNITY NAME:

*Red Maple Thicket/Woodland*

**HOMOGENEITY**

Homogeneous

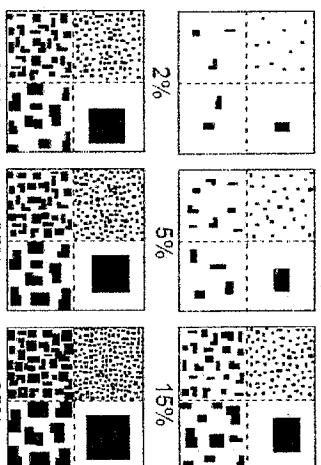
- Compositional trend across the plot
- Conspicuous inclusions
- Irregular/pattern mosaic

Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)



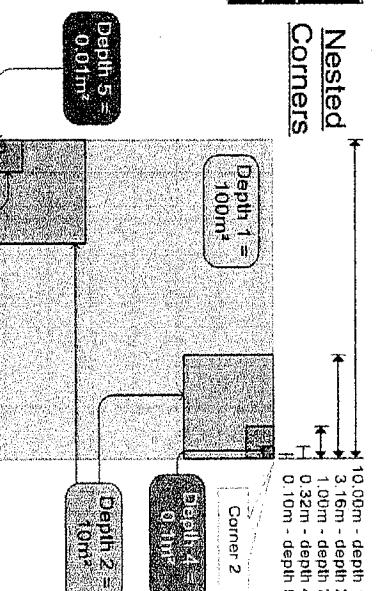
### EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used for various data elements to convey "Amount or Quantity". **NOTE:** Within any given box, each quadrat 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

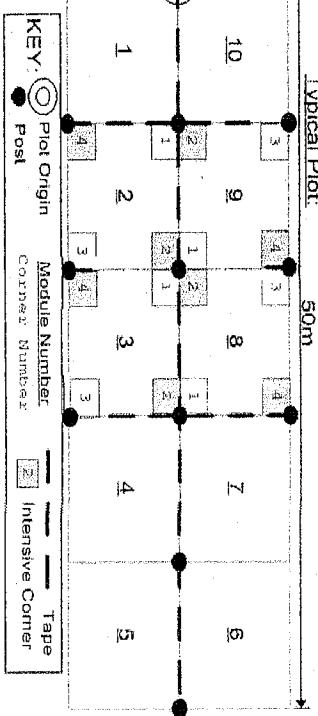
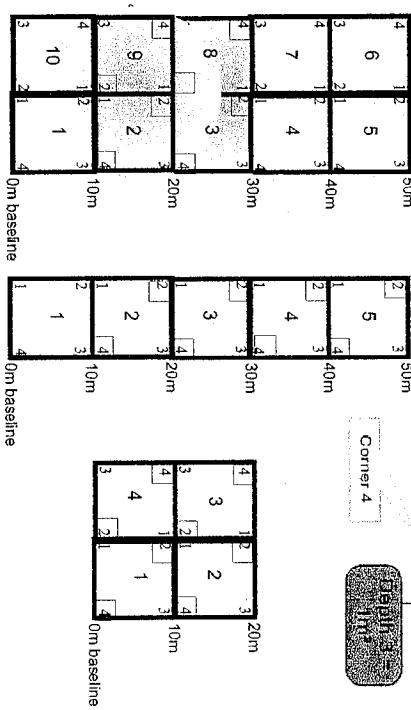


Typical Plot:

**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.



### 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.

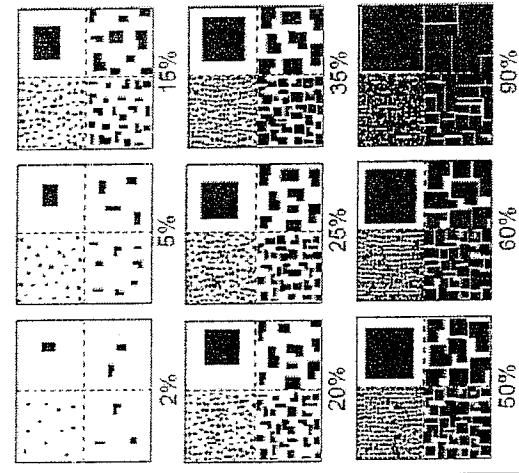
**MEDIUM LOW** values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse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



#### EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used for various data elements to convey 'Amount' or 'Quality'. **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.

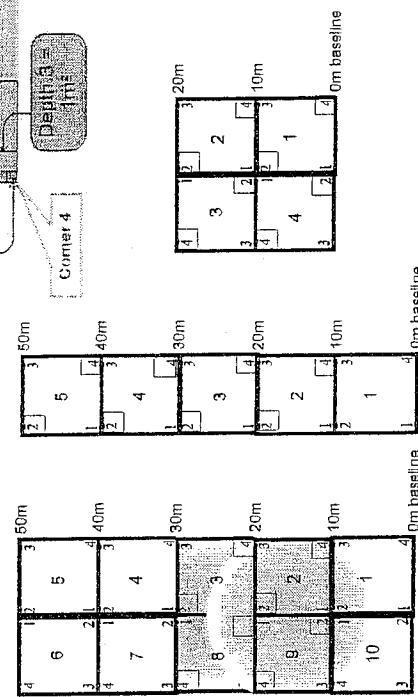
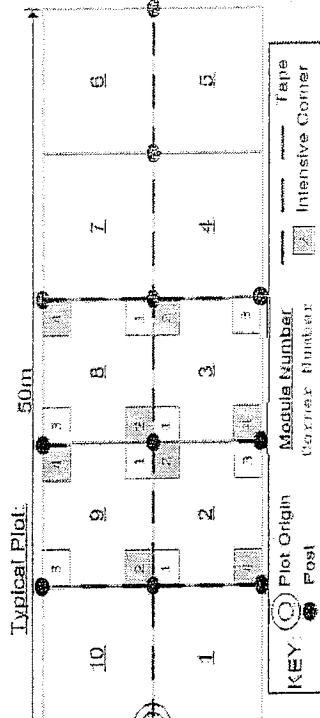
**MEDIUM LOW** values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse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

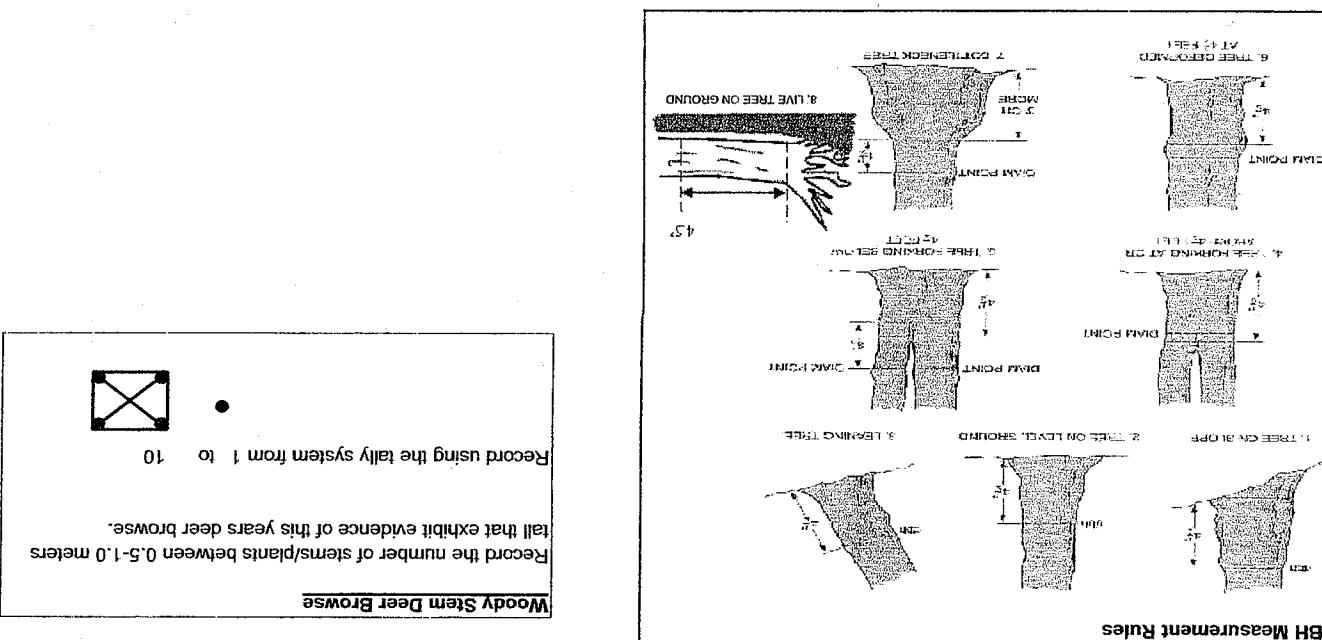
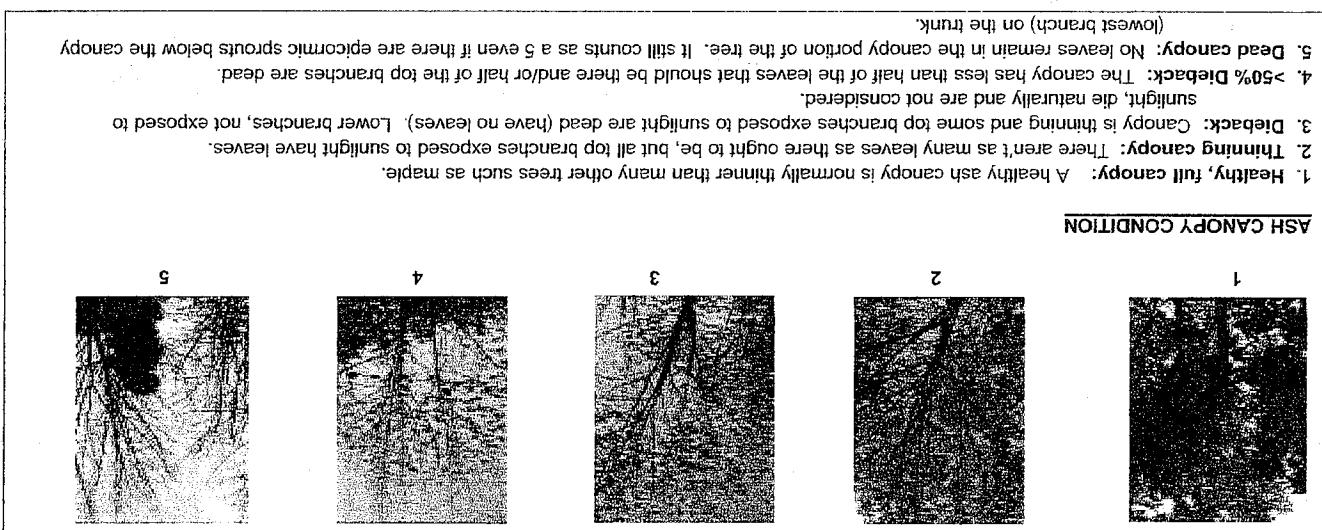
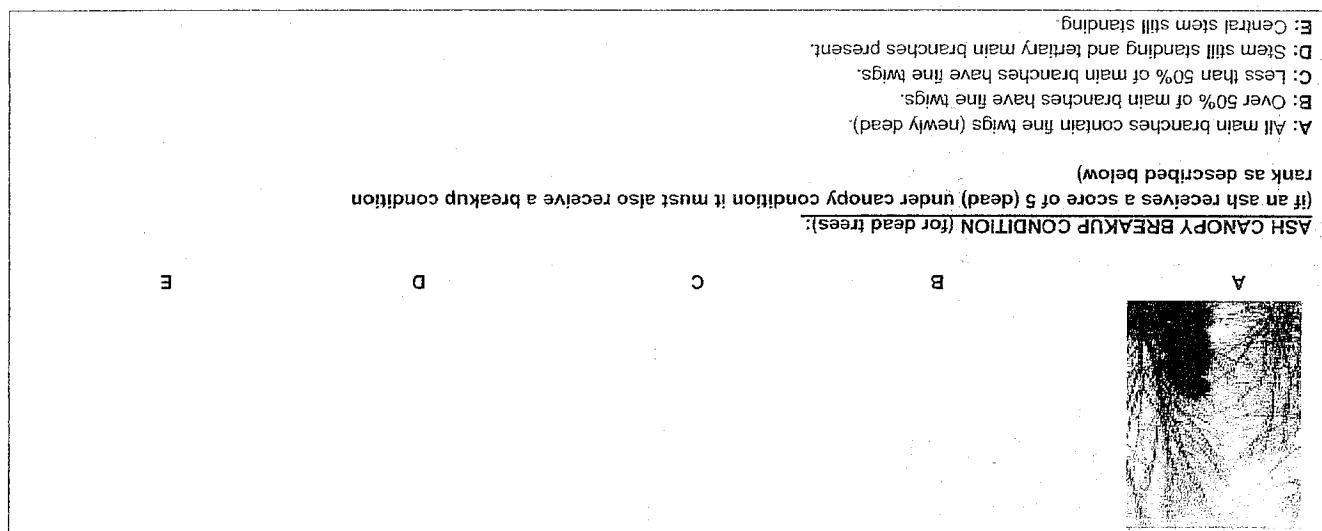
**MEDIUM HIGH** values include evidence of a browse line and 25 percent of stems browsed with very little vegetation regeneration evident. In this rating, for some species of plants, reproduction does not appear to occur or it is very severely limited.

**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

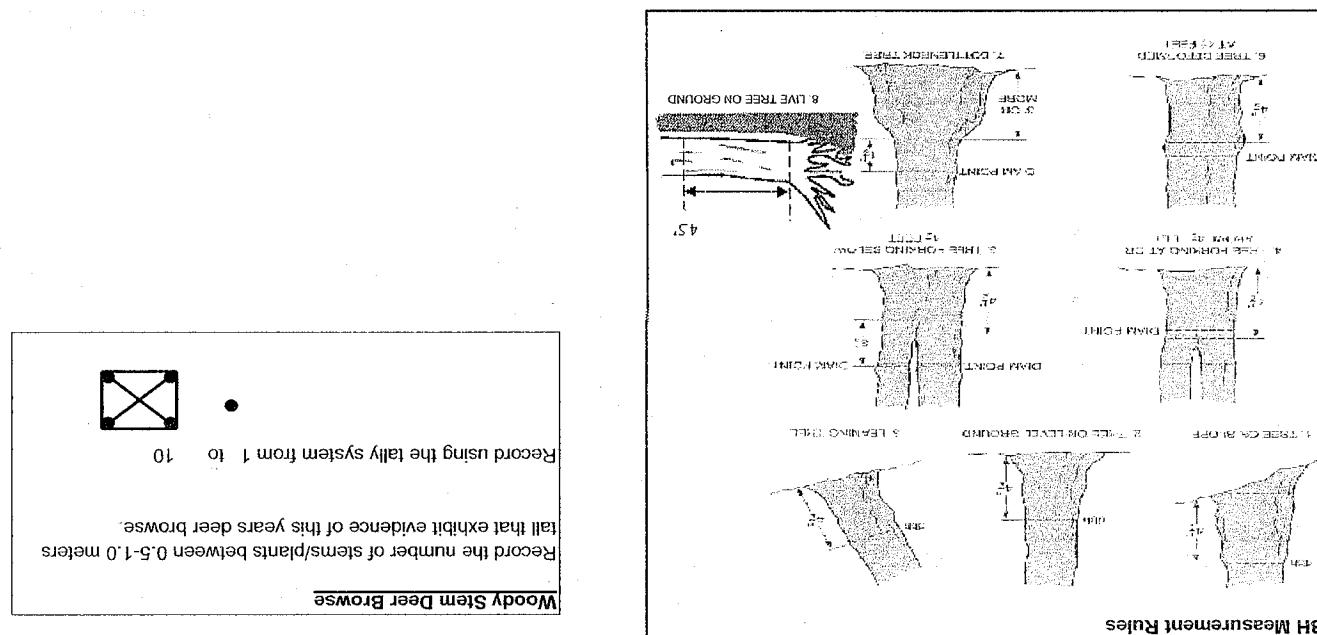
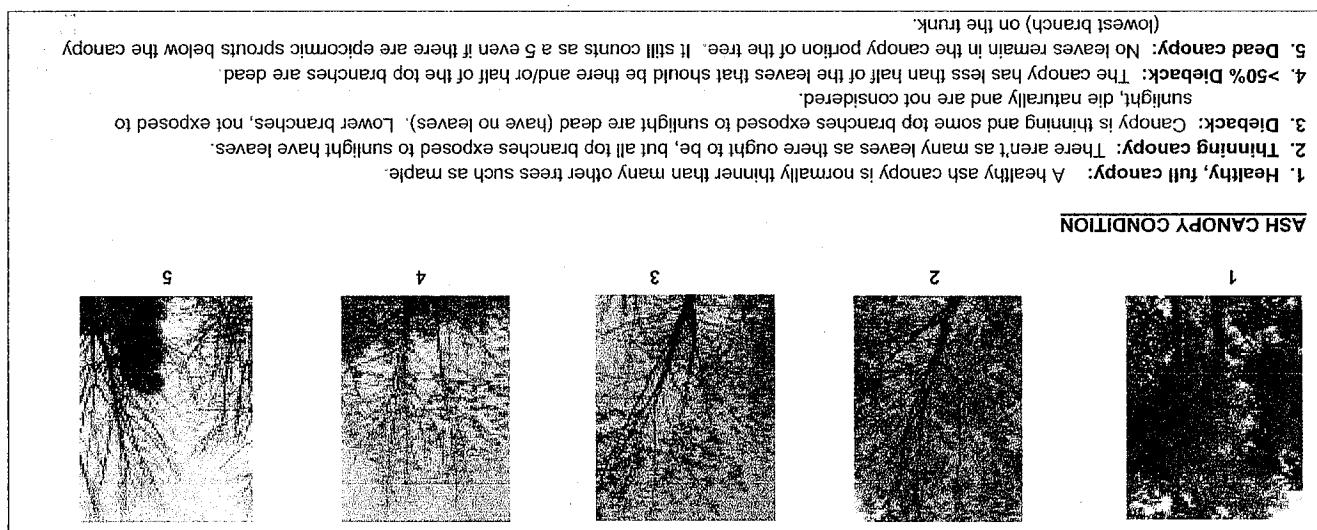
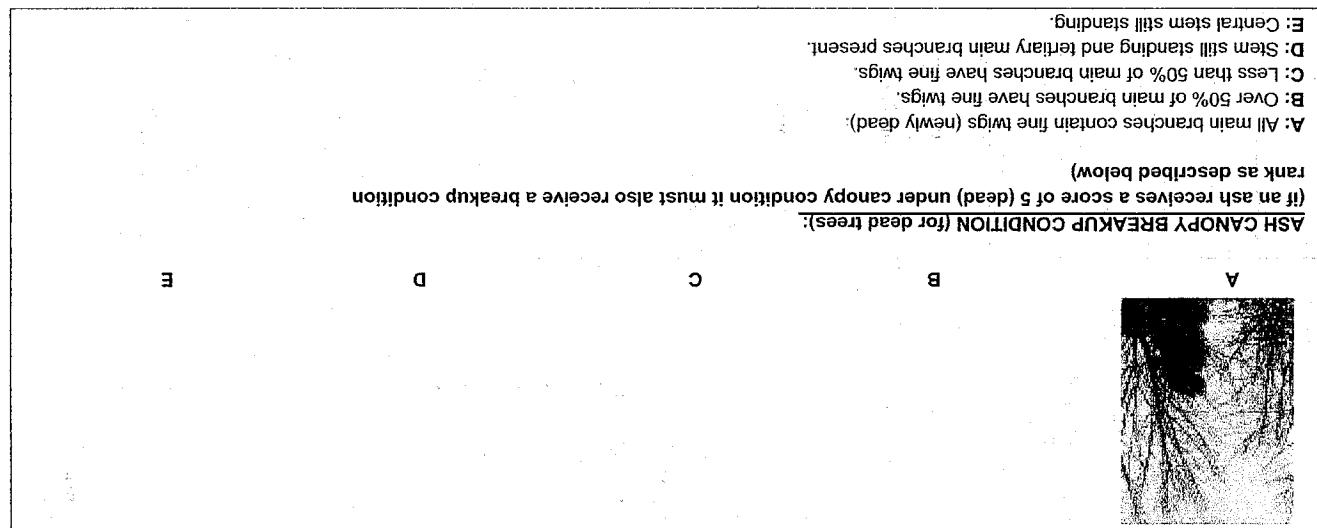
Project Name: OJNC2011

Plot No.: 1161

Page: 2 of 3

Explain subsample (additional room on back):

mod #	species	c voucher#	# stems 0.5-1m browsed	% sub sample	# shrub dumps	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	
4	Fagus grandifolia				5	•	•									
4	Fransele alnus															
5	Acer rubrum									•						
5	Pinus nigra									•						56.8
5	Standing Dead															
5	Fagus grandifolia															
6	Pinus nigra															
6	Acer saccharum															
6	Acer rubrum															
6	Fagus grandifolia															443, 49.2
7	Standing Dead															
7	Acer rubrum															
7	Prunus serotina															
7	Fagus grandifolia															
7	Acer saccharum															
7	Pinus sylvestris															
7	Lindera benzoin															
7	Fragaria ananassa		••		1											40.1
8	Acer rubrum		••			••	•	••	•							
8	Standing Dead															
8	Pinus nigra															43.2, 42.4
8	Acer saccharum															
8	Ulmus americana															



CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: 61NC 2&11

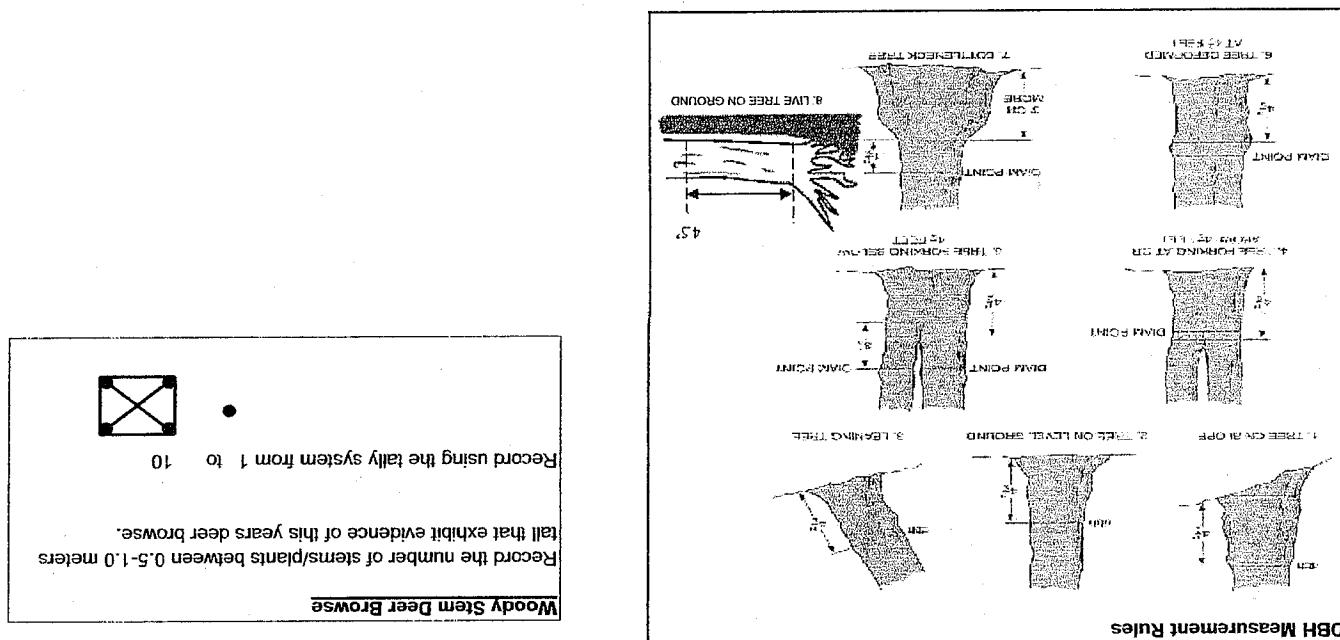
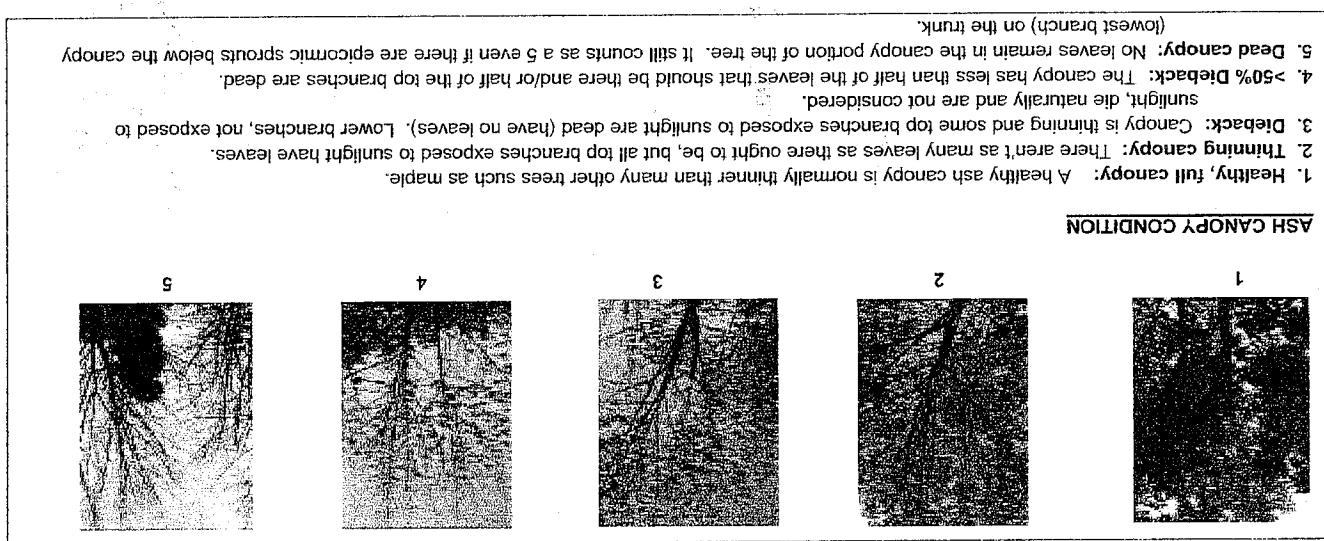
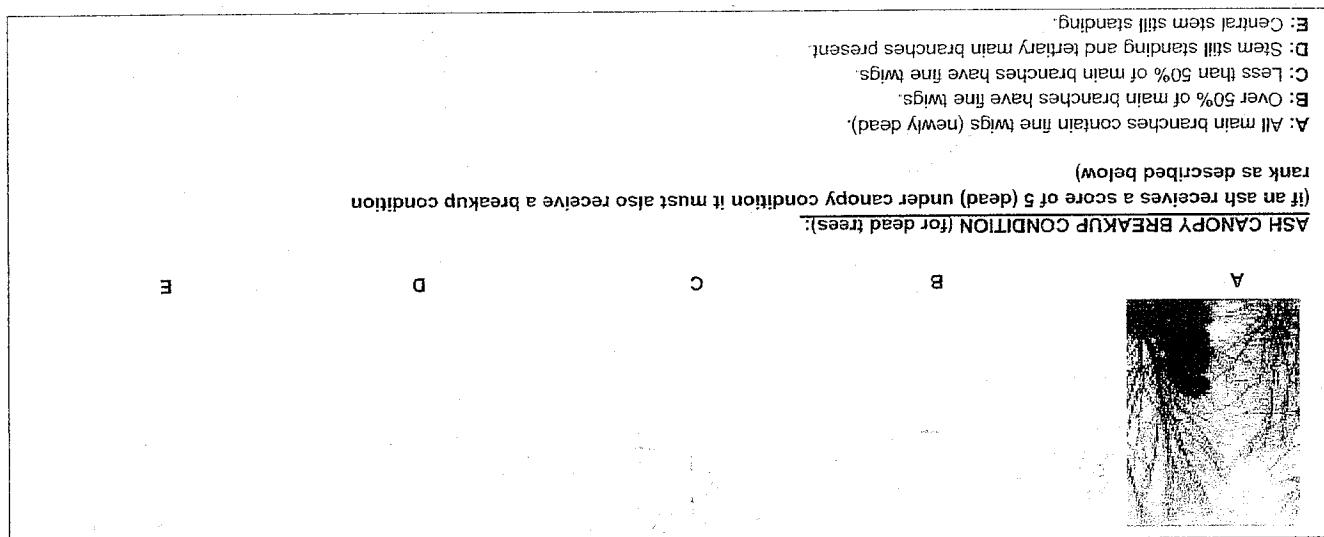
Plot No.: 1161

Page: 3 of 3

 Cleveland Metroparks

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										>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	
8	<i>Prunus pensylvanica</i>									•							
8	<i>Fraxinus americana</i>									•							
9	<i>Pinus nigra</i>																
9	<i>Prunus Serotina</i>									•							
9	<i>Acer rubrum</i>						•	•	•	•	•	•	•				
4	<i>Nyssa sylvatica</i>																
9	<i>Fagus grandifolia</i>						•	•	•	•	•	•	•				
9	<i>Acer saccharum</i>						•	•	•	•	•	•	•				
9	<i>Stenocarpus sinuatus</i>																
9	<i>Ulmus americana</i>						•	•	•	•	•	•	•				
9	<i>Fraxinus alnus</i>						•	•	•	•	•	•	•				
10	<i>Prunus Serotina</i>																
10	<i>Stenocarpus sinuatus</i>																
10	<i>Acer rubrum</i>																
10	<i>Pinus nigra</i>																
10	<i>Fagus grandifolia</i>																
10	<i>Frangula alnus</i>			•	•	11											



## CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet

Project Label: PCAP

Project Name: DANCING

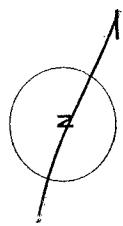
INTENSIVE MODULES ONLY TREES ≥ 10CM ONLY  
Plot No.: 1111 Date: 10/18/11

Page: 1 of 2

Module	Tree ID.	Species	Dead c	Voucher #	DBH (cm)	Ht @ DBH condition	Ash condition	ASH Only		
								Dead holes	# Exit present	Epicormic holes
3	1	<i>Fraxinus americana</i>			13.7	1.37	1	0	0	0
	2									
	3									
	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



9

8

9

8

2

3

1

Map all ash trees ≥ 10cm in each module using Tree ID number

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

Count EAB exit holes 1.25m² x 21.5m  
Woodpecker and epicormic marked present (1) or absent (0)

Presence	GPS	Presence	GPS	# of Plants
----------	-----	----------	-----	-------------

Presence	GPS	Presence	GPS	# of Plants
----------	-----	----------	-----	-------------

# of Plants	NE	SE	SW	NW	Comments
-------------	----	----	----	----	----------

Comments	Presence	NE	SE	SW	NW
----------	----------	----	----	----	----

Comments	Presence	NE	SE	SW	NW
----------	----------	----	----	----	----

Comments	Presence	NE	SE	SW	NW
----------	----------	----	----	----	----

Comments	Presence	NE	SE	SW	NW
----------	----------	----	----	----	----

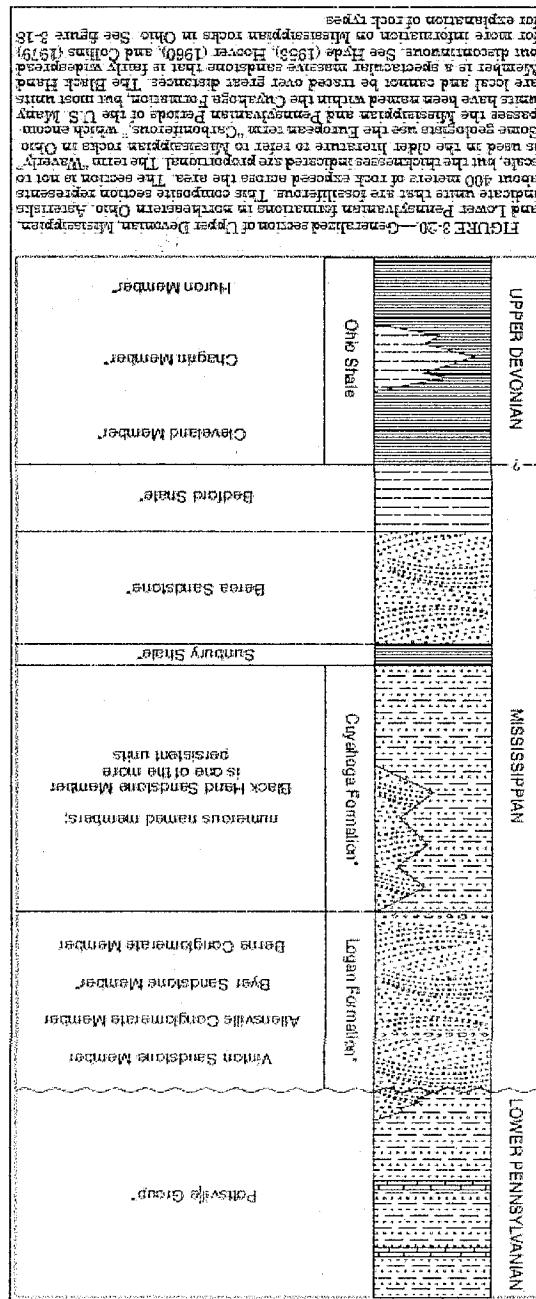
Comments	Presence	NE	SE	SW	NW
----------	----------	----	----	----	----

Comments	Presence	NE	SE	SW	NW
----------	----------	----	----	----	----

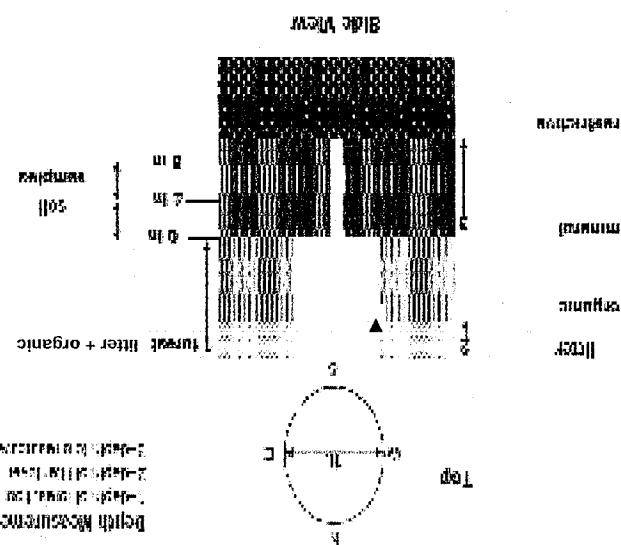
ABC M CAP invasive species database last revised 6/23/2011 ceh	Natural Resources
--	-------------------

Note: For ground-cover "stem #" but in comment field describe # of colonies and patch size (S,M,L)





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



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

Project label: PCAP Project Name: O'NC ZD 11

Plot No.: 1161

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 #	<u>29</u> (one per entire plot)
5 cm	
matrix color	<u>D YE 4/2</u>
mottle color	<u>—</u>
%mottle	<u>—</u>
oxid roots	<u>Y</u>
texture*	<u>I</u>
redox features**	<u>Y</u>
hydr. cond.***	<u>I S M D</u>
20 cm	
matrix color	<u>I0 YE 4/3</u>
mottle color	<u>—</u>
%mottle	<u>—</u>
oxid roots	<u>Y</u>
texture*	<u>I</u>
redox features**	<u>Y N</u>
hydro. cond. ***	<u>I S M D</u>

**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)
2,3,8,9 composted	A

Soil Description/notes:

**STANDING BIOMASS** (required for emergent wetlands): collected in 0.1m 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

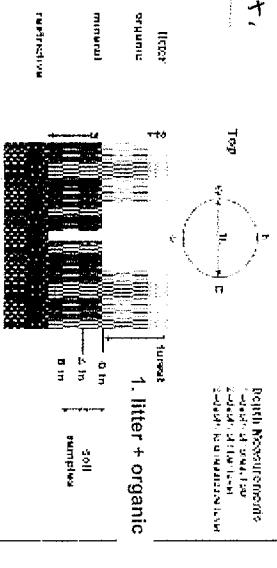
mod#	1 litter + organic depth (cm)	2 litter depth(cm)	3 restrict. depth (cm)	water depth (cm)	depth sat soil (cm)
2	3.4	2.4	57*	0	>30
3	6.9	1.8	45*	0	>30
8	4.2	1.5	36*	0	>30
9	7.2	3.1	73*	0	>30

\* Del. nat  
hit restrictive  
depth - soi  
too compacted

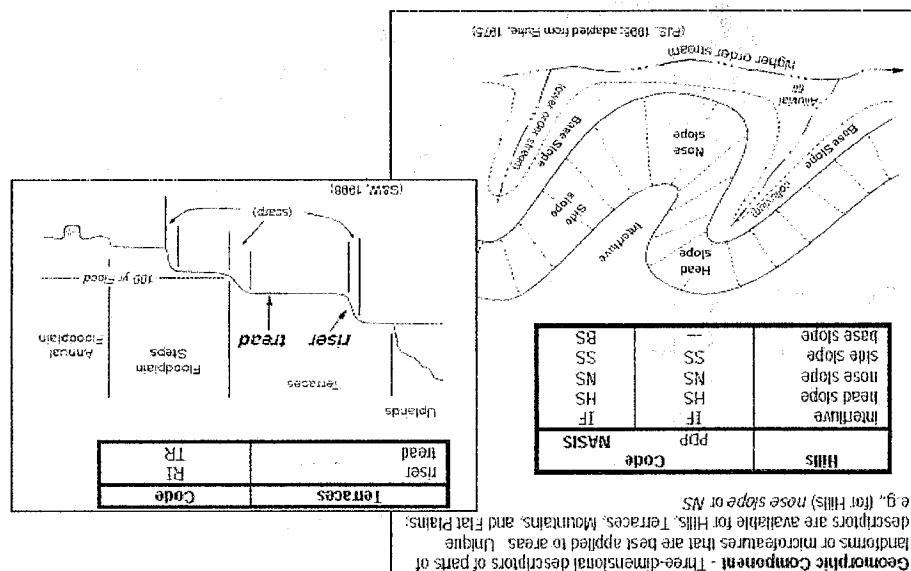
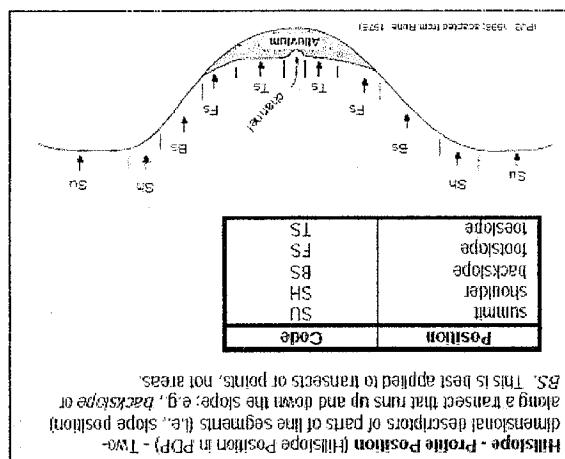
Length of soil probe = 125 cm

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

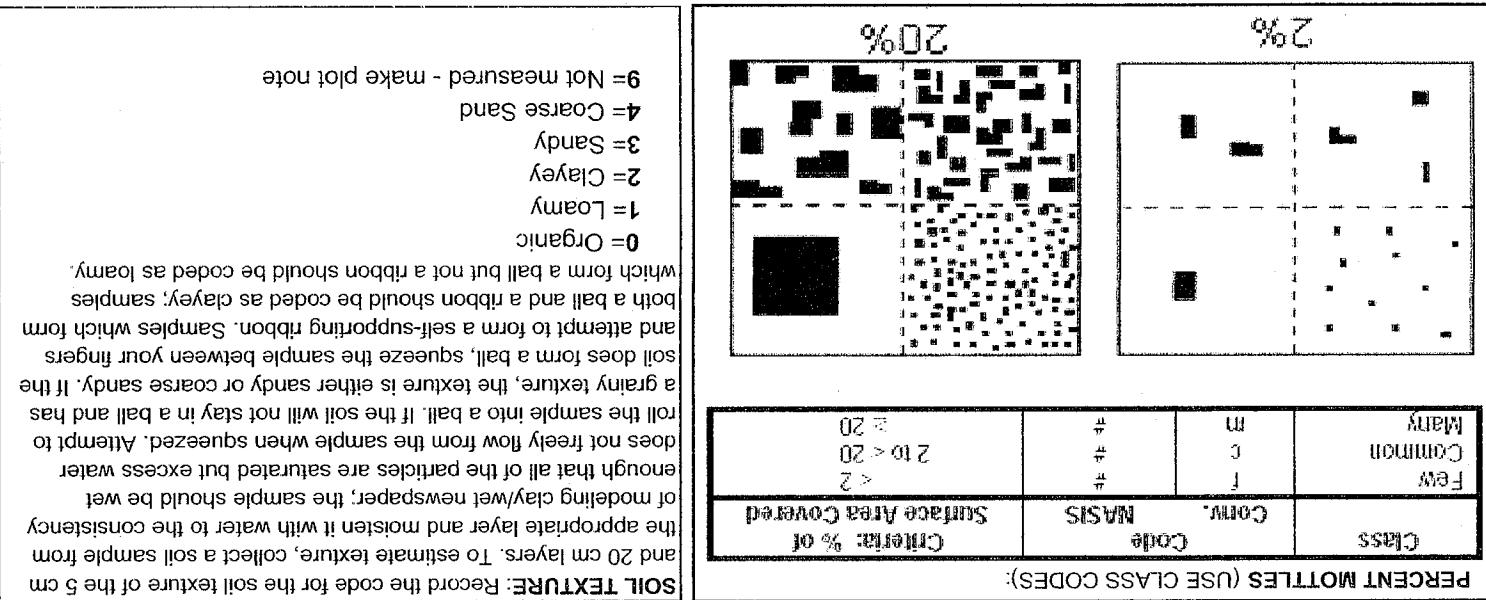
- 1=indundated S=saturated M=moist D=dry
- Notes: include evidence of earthworms (worms, castings, middens)
- Earthworms not present in pit
- Castings/middens not observed
- Organic layer ~3.5cm



<b>PERMANENTLY FLOODED</b> : Water covers the land surface at all times of the year in all years. Equivalent to Cowardin's "permanently flooded".	is normally saturated when water level drops below soil surface. Includes Cowardin's Intermittently Exposed and Semipermanently Flooded modifiers.
<b>SEMIPERMANENTLY FLOODED</b> ( $<1/\text{year}$ ): Surface water persists throughout the growing season in most years. Land surface is intermittently saturated when water level drops below soil surface. Includes Cowardin's Intermittently Flooded modifier.	is normally saturated when water level drops below soil surface. Includes Cowardin's Intermittently Exposed and Semipermanently Flooded modifiers.
<b>INTERMITTENTLY FLOODED</b> : Substrate is usually exposed, but surface can be present for variable periods without detectable surface. Often characterizes floodplain levees and lower terraces. Equivalent to Cowardin's Temporally modified.	the U.S. where applicable. This modifier can be applied to both wetland and non-wetland situations. Equivalent to Cowardin's Intermittent Periodically. 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 seasonal periodically. 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 applicable. This modifier can be applied to both wetland and non-wetland situations. Equivalent to Cowardin's Intermittent Periodically.
<b>TEMPORARILY FLOODED</b> : Surface water is present for brief periods during growing season, but water table usually lies well below soil characterizes floodplain uppers.	surface. Often characterizes floodplain levees and lower terraces. Equivalent to Cowardin's Temporally modified.
<b>OCASIONALLY FLOODED</b> : Surface water can be present for brief periods during growing season, but not in most years. Often saturated to surface for extended periods during the growing season. Equivalent to Cowardin's Saturated modifier.	surface. Often characterizes floodplain levees and lower terraces. Equivalent to Cowardin's Temporally modified.
<b>PERMANENTLY/SEMI-PERMANENTLY SATURATED</b> : 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.	to surface for extended periods during the growing season.
<b>UPLAND</b> : Not a wetland. Very rarely flooded.	to surface for extended periods during the growing season.

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

Geomorphic Components - Three-dimensional descriptions of parts of landscapes or microcatchments that are best applied to areas where descriptives are available for hills, terraces, mountainous, and flat plains: e.g., slope position of hills, slope position of terraces, slope position of head, middle, and base slopes of hills, etc.





7966623548

Flag	Comments
------	----------

Latitude North    41 51 57.858    Longitude West    81 43.465	
Use Decimal Degrees; NAD83	
Flag	

Location of coordinates (choose one):	
<input type="checkbox"/> AA CENTER	<input checked="" type="checkbox"/> N3
<input type="checkbox"/> S3	<input type="checkbox"/> W3
<input type="checkbox"/> Nearest practicable location (flag and comment below)	

PLOT COORDINATES											
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="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Purple Loosestrife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Johnson Grass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water Hyacinth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rudzu	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Yellow Floating Heart	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Japanese Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Multiflora Rose	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Giant Salvinia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Peternail Pepperweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Gommon Buckthorn	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Giant Mustard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Giant Reed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Himalayan Blackberry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Poison Hemlock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Chenopass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tamansk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mile-A-Minute Weed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Reed Canary Grass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Frangula Alnus	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Birdsfoot Trefoil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Common Reed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Canadian Thistle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leafy Spurge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

© Confirm a filled bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble.
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Site ID:    1    1    1
Date:    5/27/2011
Reviewed by (initials):
FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)



FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)									
Site ID: I I I DATE:									
Revised by (initials):									
<input checked="" type="checkbox"/> 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 Eurasian Watermilfoil <input type="radio"/> <input type="radio"/> <input type="radio"/> Purple Loosestrife <input type="radio"/> <input type="radio"/> <input type="radio"/> Knotweed <input type="radio"/> <input type="radio"/> <input type="radio"/> Kudzu Yellow Flowering Heart <input type="radio"/> <input type="radio"/> <input type="radio"/> Japanese Knotweed <input type="radio"/> <input type="radio"/> <input type="radio"/> Multiflora Rose Water Hyacinth <input type="radio"/> <input type="radio"/> <input type="radio"/> Giant Reed <input type="radio"/> <input type="radio"/> <input type="radio"/> Himalayan Blackberry Garlic Mustard <input type="radio"/> <input type="radio"/> <input type="radio"/> Perennial Pepperweed <input type="radio"/> <input type="radio"/> <input type="radio"/> Common Buckthorn Poison Hemlock <input type="radio"/> <input type="radio"/> <input type="radio"/> Cheatgrass <input type="radio"/> <input type="radio"/> <input type="radio"/> Tamisk 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 <i>Fragaria ananassa</i> Birdfoot Trefoil <input type="radio"/> <input type="radio"/> <input type="radio"/> Common Reed <input type="radio"/> <input type="radio"/> <input type="radio"/> Other Canada Thistle <input type="radio"/> <input type="radio"/> <input type="radio"/> Leafy Spurge <input type="radio"/> <input type="radio"/> <input type="radio"/> Other									
Provide GPS coordinates at the center of the Buffer Plot (#3) at the rear 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. 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 centred 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 centre of Plot 3 as possible or at the centre of the last accessible Buffer Plot.									
Location of Coordinates (choose one): Flag      AA CENTER      N3      S3      E3      W3      ● Nearest Practicable location (flag and comment below)									
Latitude North      41.58065      Longitude West      -81.43479      Use Decimal Degrees; NAD83									
1      Plat 3 fall on private property. GPS pt. taken in middle of Plot 3									
Flag      Comments									
Buffer Sample Points - Targeted Ali									
Dates      05/27/2011      7966623548									



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

Site ID: DATE: / /

Reviewed by (initials):

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

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="checkbox"/>	<input type="checkbox"/>	Purple Loosestrife	<input type="checkbox"/>	<input type="checkbox"/>	Johnson Grass	<input type="checkbox"/>	<input type="checkbox"/>			
Water Hyacinth	<input type="checkbox"/>	<input type="checkbox"/>	Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	Kudzu	<input type="checkbox"/>	<input type="checkbox"/>			
Yellow Floating Heart	<input type="checkbox"/>	<input type="checkbox"/>	Japanese Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	Multiflora Rose	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Giant Salvinia	<input type="checkbox"/>	<input type="checkbox"/>	Permian Pepperweed	<input type="checkbox"/>	<input type="checkbox"/>	Common Buckthorn	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
Giant Mustard	<input type="checkbox"/>	<input type="checkbox"/>	Giant Reed	<input type="checkbox"/>	<input type="checkbox"/>	Himalayan Blackberry	<input type="checkbox"/>	<input type="checkbox"/>			
Poison Hemlock	<input type="checkbox"/>	<input type="checkbox"/>	Cheatgrass	<input type="checkbox"/>	<input type="checkbox"/>	Tamansk	<input type="checkbox"/>	<input type="checkbox"/>			
Milk-A-Minute Weed	<input type="checkbox"/>	<input type="checkbox"/>	Rabbit-Clary Grass	<input type="checkbox"/>	<input type="checkbox"/>	Other <i>Fragaria ananassa</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Birdsfoot Trefoil	<input type="checkbox"/>	<input type="checkbox"/>	Common Reed	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>			
Canada Thistle	<input type="checkbox"/>	<input type="checkbox"/>	Lairy Spurge	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>			
AA CENTER	<input type="radio"/>	<input type="radio"/>	WS3	<input type="radio"/>	<input type="radio"/>	NE3	<input type="radio"/>	<input type="radio"/>			
Flag	Location of coordinates (choose one):										
Latitude North	41 58.003			Longitude West							
	Use Decimal Degrees; NAD83										
Comments:											
3rd Plot fails at RHD Trail											



FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (BACK)									
<input checked="" type="checkbox"/> 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 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"/> Flag Yellow Floating Heart <input type="radio"/> <input type="radio"/> <input type="radio"/> Japanese Knotweed <input type="radio"/> <input type="radio"/> <input type="radio"/> Kudzu <input type="radio"/> <input type="radio"/> Flag Water Hyacinth <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"/> Flag Poison Hemlock <input type="radio"/> <input type="radio"/> <input type="radio"/> Cheatgrass <input type="radio"/> <input type="radio"/> <input type="radio"/> Tansy <input type="radio"/> <input type="radio"/> Flag Mill-A-Minute Weeds <input type="radio"/> <input type="radio"/> <input type="radio"/> Reed Canary Grass <input type="radio"/> <input type="radio"/> <input type="radio"/> Other <i>(Handwritten: Tansyula Albus)</i> <input checked="" type="radio"/> <input type="radio"/> Flag Birdfoot 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"/> Flag 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"/> Flag AA CENTER <input type="radio"/> <input type="radio"/> <input type="radio"/> NEAREST PRACTICABLE LOCATION (Flag and comment below)									
Latitude North      41 57.973      Longitude West      81 43.475      Use Decimal Degrees; NAD83									
Location of coordinates (choose one): <input type="checkbox"/> AA CENTER <input type="radio"/> N3 <input type="radio"/> S3 <input type="radio"/> E3 <input type="radio"/> W3 <input type="checkbox"/> NEAREST PRACTICABLE LOCATION (Flag and comment below)									
Flag      Comments									
Buffer Sample Points - Targeted Alien Species      05/27/2011      7966623548									



FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (BACK)											
<input checked="" type="checkbox"/> 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="checkbox"/>	<input type="checkbox"/>	Purple Loosestrife	<input type="checkbox"/>	<input type="checkbox"/>	Johnson Grass	<input type="checkbox"/>	<input type="checkbox"/>	Kudzu	<input type="checkbox"/>	<input type="checkbox"/>
Water Hyacinth	<input type="checkbox"/>	<input type="checkbox"/>	Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	Muliflora Rose	<input type="checkbox"/>	<input type="checkbox"/>	Common Buckthorn	<input type="checkbox"/>	<input type="checkbox"/>
Yellow Flowering Heart	<input type="checkbox"/>	<input type="checkbox"/>	Japanese Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	Perennial Pepperweed	<input type="checkbox"/>	<input type="checkbox"/>	Giant Reed	<input type="checkbox"/>	<input type="checkbox"/>
Giant Swertia	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	Cheaggrass	<input type="checkbox"/>	<input type="checkbox"/>	Mille-A-Minute Weed	<input type="checkbox"/>	<input type="checkbox"/>
Poison Hemlock	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	Reed Canary Grass	<input type="checkbox"/>	<input type="checkbox"/>	Birdsfoot Trefoil	<input type="checkbox"/>	<input type="checkbox"/>
Mile-A-Minute Weed	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	Common Reed	<input type="checkbox"/>	<input type="checkbox"/>	Canadian Thistle	<input type="checkbox"/>	<input type="checkbox"/>
Prickly Mustard	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	Himalayan Blackberry	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Giant Sallow	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	Lambsquarters	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Poison Hemlock	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	Reed Canary Grass	<input type="checkbox"/>	<input type="checkbox"/>	Mile-A-Minute Weed	<input type="checkbox"/>	<input type="checkbox"/>
Birdsfoot Trefoil	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	Common Reed	<input type="checkbox"/>	<input type="checkbox"/>	Birdsfoot Trefoil	<input type="checkbox"/>	<input type="checkbox"/>
Prickly Mustard	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	Canadian Thistle	<input type="checkbox"/>	<input type="checkbox"/>	Prickly Mustard	<input type="checkbox"/>	<input type="checkbox"/>
Giant Sallow	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<b>PLOT COORDINATES</b>											
Provide GPS coordinates at the center of the Buffer Plot (#2) 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 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 <input type="radio"/> N3 <input type="radio"/> S3 <input type="radio"/> E3 <input checked="" type="radio"/> W3 <input type="checkbox"/> Nearest practicable location (flag and comment below)											
Latitude North <b>41 57 45.3</b> Longitude West <b>81 43 62.1</b>											
Use Decimal Degrees; NAD83											
Flag											
Comments											
Buffer Sample Points - Targeted Ali											
7966623548											
05/27/2011											
ECECS											

# CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Cleveland Metroparks  
Page 1 of 2

GENERAL INFORMATION		LOCATION	
Project Label:	PCAP	State:	OH County:
Project Name:		Quadrangle:	
Plot Name:		Local Place Names:	
Plot No.:	<u>1161</u>	Landowner:	
<input type="checkbox"/> Level 4 (no nested corners sampled) <input checked="" type="checkbox"/> Level 5 (nested corners sampled)			
Date (mm/dd/yyyy):	/ /		
End date (if > 1 day):	/ /		
Party	Role**		
	Plot leader		
<small>** Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc.</small>			
<b>PLOT NOT SAMPLED:</b> <input type="checkbox"/> Other <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 type="checkbox"/> Very thorough <input type="checkbox"/> Accurate <input type="checkbox"/> Hurried			
<b>TAXONOMIC ACCURACY</b>			
high	modera.	low	not samp!
vascul.			n/a
bryo			
lichen			
<b>TAXONOMIC STANDARD</b>			
<b>Authority:</b> G&C    Pub Date: 1998			
<small>Minimum required fields in Bold and Underlined</small>			
<small>* Definitions and values in CMPCAP FOM v. 1.0 and CVS Field Guide</small>			
<span style="border: 1px solid black; padding: 2px;">OVER</span>			

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



Project Label: PCAP

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

Page 2 of 2

CLASSIFICATION	(FIT = excellent, good, fair, poor; CONF = high, med, low)	Fit and Confidence	STAND SIZE	DISTURBANCES		
				type*	severity**	yrs ago
<b>Hydrogeomorphic class (WETLANDS ONLY):</b>				<input type="checkbox"/> >1,000 x plot size		
□ DEPRESSION	Fit= <u>  </u> Conf= <u>  </u>			<input type="checkbox"/> >100 x plot size		
□ IMPOUNDMENT □ Beaver □ Human	Fit= <u>  </u> Conf= <u>  </u>			<input type="checkbox"/> 10-100 x plot size		
□ RIVERINE □ Headwater □ Mainstem □ Channel	Fit= <u>  </u> Conf= <u>  </u>			<input type="checkbox"/> 3-10 x plot size		
□ SLOPE (ground water hydrology or on a physical slope)	Fit= <u>  </u> Conf= <u>  </u>			<input type="checkbox"/> 1-3 x plot size		
□ FRINGING □ Reservoir □ Natural Lake	Fit= <u>  </u> Conf= <u>  </u>			<input type="checkbox"/> < plot size		
□ COASTAL (specify subclass)	Fit= <u>  </u> Conf= <u>  </u>					
□ BOG (strongly, moderately, weekly, ombrotrophic)	Fit= <u>  </u> Conf= <u>  </u>					
□ FOREST □ swamp forest □ bog forest □ forest seep	Fit= <u>  </u> Conf= <u>  </u>					
□ EMERGENT □ marsh □ wet meadow □ open bog	Fit= <u>  </u> Conf= <u>  </u>					
□ SHRUB □ shrub swamp □ tall sh. bog □ tall sh. fen	Fit= <u>  </u> Conf= <u>  </u>					
<b>MODIFIED NATURESERVE CLASS*:</b>						
CODE (on separate form):	Fit= <u>  </u> Conf= <u>  </u>					
COMMUNITY NAME:						
<b>LANDFORM TYPE*:</b>						
<b>HOMOGENEITY</b>	Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)					
	<input type="checkbox"/> Homogeneous <input type="checkbox"/> Compositional trend across the plot <input type="checkbox"/> Conspicuous inclusions <input type="checkbox"/> Irregular/pattern mosaic					

Park on pull off on Shrubbery lane on West side of lake

