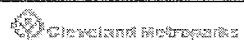


CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form



Project Label: PCAP

Plot No: 1125 Date Sampled: 6-29-11 Lead: Eysenbach

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	Double checked all maples
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?	7/1/11	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 (#)	Enter number to left
SE 383- 392	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

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Page 1 of 2
LAW

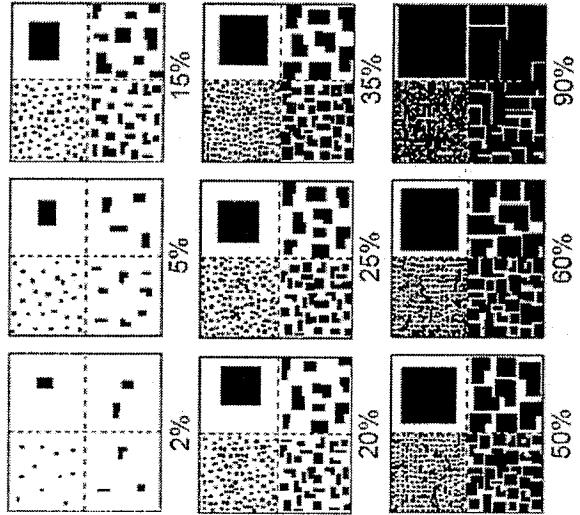
GENERAL INFORMATION	
<u>Project Label:</u>	PCAP
<u>Project Name:</u>	DIBR 201
<u>Plot Name:</u>	Bruce + the Spruce
<u>Plot No.:</u>	1125
<input type="checkbox"/> Level 4 (no nested corners sampled) <input checked="" type="checkbox"/> Level 5 (nested corners sampled)	
Date (mm/dd/yyyy):	6/29/2011
End date (if > 1 day):	/ /
<u>Party</u>	<u>Role**</u>
S. Tyzenbach	Plot leader
J. L. Hammann	Br. Asst.
C. Cestelko	Lead/Soil/Plant
A. Macie	
<small>** Roles: Collector, Assl., Guide, Owner, Taxonomist, etc.</small>	
PLOT NOT SAMPLED:	
<input type="checkbox"/> Perm. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety	
SAMPLING QUALITY*	
Effort Level: <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>	
TAXONOMIC ACCURACY	
high	moder.
moder.	low
low	not simpl.
vascular	<input checked="" type="checkbox"/>
bryo	<input type="checkbox"/>
lichen	<input checked="" type="checkbox"/>
TAXONOMIC STANDARD	
Authority:	G&C Pub Date: 1998

CONNECTED SITE #0-13-11
N. Northfield Botanical Trail

<u>LOCATION</u>	<u>State:</u> OH <u>County/City:</u> Cuyahoga <u>Quadrangle:</u> Neton Meyer Riverfield
<u>Local Place Names:</u> Riverview Rd	
<u>Landowner:</u>	C.M.
<u>X-axis Bearing of plot:</u>	[206]°
<u>Data Confidentiality:</u>	<input type="checkbox"/> Public data <input type="checkbox"/> Private Data
<small>Check one: <input type="checkbox"/> Fuzz 100m <input type="checkbox"/> Fuzz 250m <input type="checkbox"/> Fuzz 500m</small>	
<u>Reason:</u> <small>If data not public why?</small>	
<small>Source of coordinates <input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS</small> <small>GPS location in plot x=0 to 5, y=-1,0,+1): x = 0 y = 0 (base of plot x=0, y=0)</small>	
<u>Coordinate system:</u> <u>Coord. Units</u> <input checked="" type="checkbox"/> Lat/Long <input type="checkbox"/> UTM <input type="checkbox"/> StatePlane <input type="checkbox"/> deg <input type="checkbox"/> deg min <input type="checkbox"/> Other (specify) m <input type="checkbox"/> ft <input type="checkbox"/>	
<u>Datum:</u> <input checked="" type="checkbox"/> NAD83/WGS84 <input type="checkbox"/> NAD27	
<u>Longitude:</u> 81.59442 <u>Coord. Accuracy:</u> ± 1 m <input type="checkbox"/> ft + - 1.9	
<u>Latitude:</u> 41.31428 <u>GPS File Name:</u> 1125A	
<u>Plot size for cover data:</u> D.1 (hectares) <small><input type="checkbox"/> Stems not sampled on this plot <input type="checkbox"/> Stems absent</small>	
<u>Plot outline:</u> 6RTS <small>Veg Char: Norway Spruce, Red Maple, Sugar Maple Shrub: Tulip poplar Ground cover: Sugar maple, Beech, Dogwood Understory: Christmas Fern, Enchanter's Nightshade, Garbanzu stand</small>	
<small>*Definitions and values in CMPCAP FORM v. 1.0 and CVS Field Guide</small>	

EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used for various data elements to convey "Amount of 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.

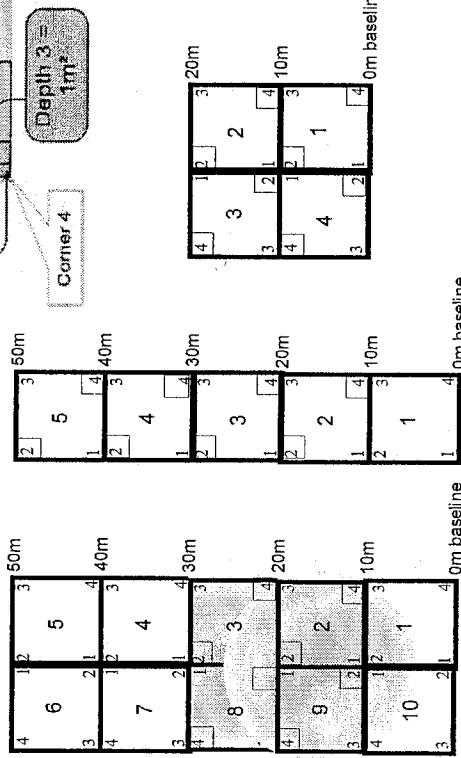
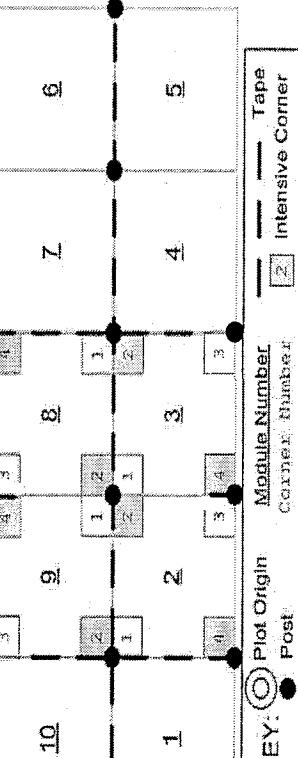
MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m² nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some 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 m² nested quadrat and intensive module **AND** a browse line is evident.

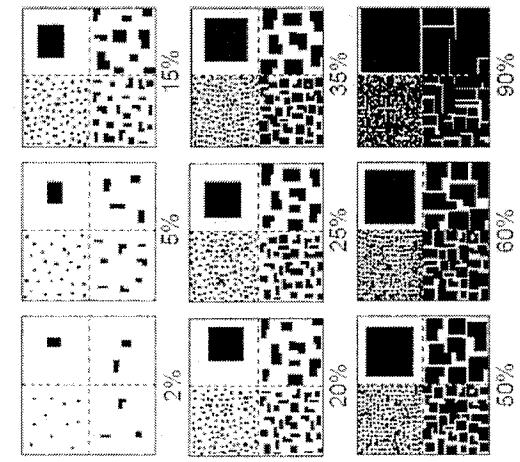
VERY HIGH values include extensive browse conditions, where the browse line is very evident AND almost all seedlings and herbs are severely browsed or missing.

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 of Coverage". 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.

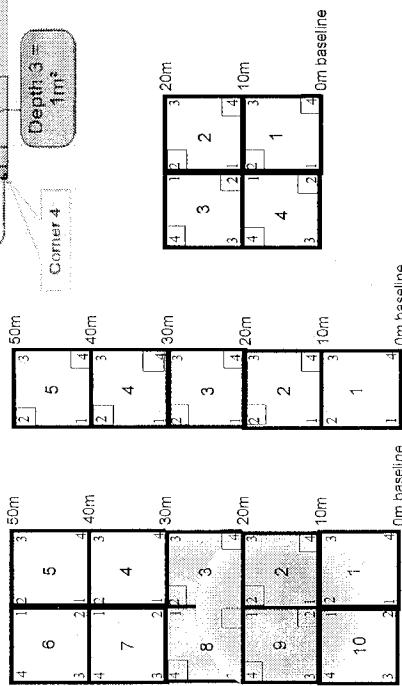
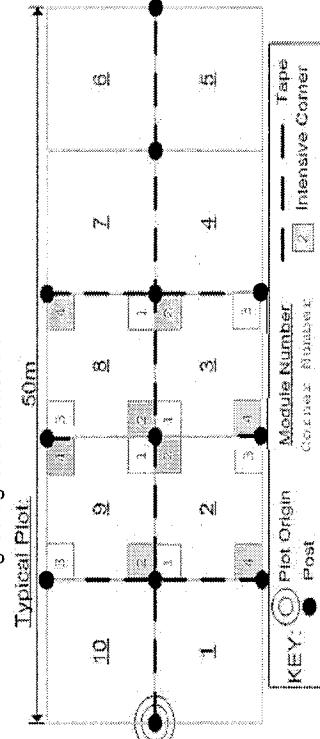
MEDIUM LOW values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse areas. 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 m² 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 m² nested quadrat and intensive module AND a browse line is evident.

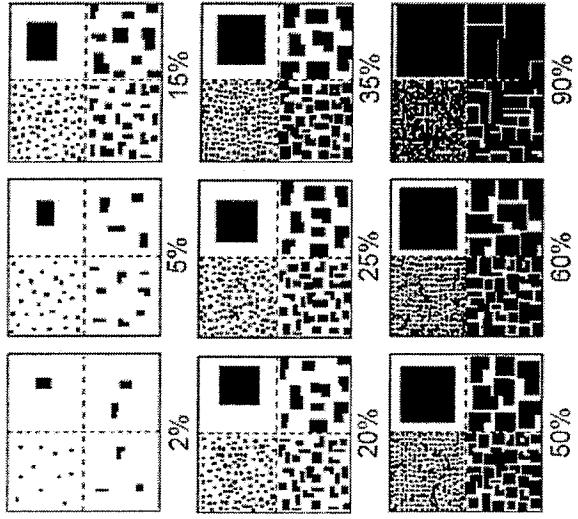
VERY HIGH values include extensive browse conditions, where the browse line is very evident AND almost all seedlings and herbs are severely browsed or missing. Browse line may be 5 to 6 feet in height with no or little green growth beneath.



cover class	% cover	midpoint
1	solitary or few	0.001
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

EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used for various data elements to convey "Quantity" 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.

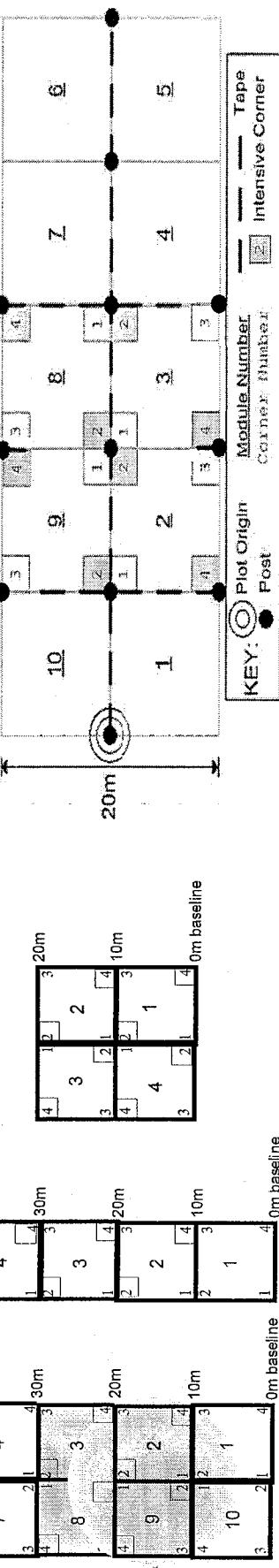
MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m² nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some 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 m² 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: 01 Br 2011

Plot No.: 1125

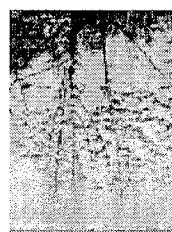
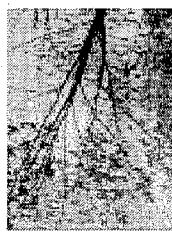
Page: 1 of 2

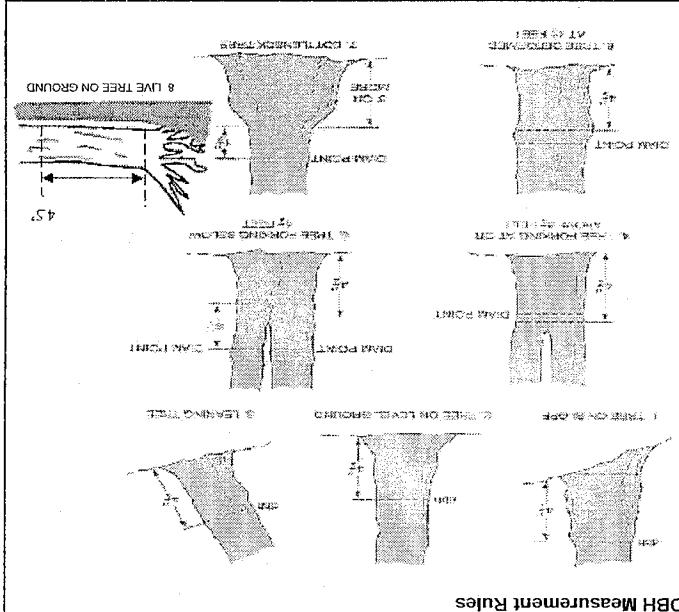
© Cleveland Metroparks

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)
							0-1	1-2.5	2.5-5	5-10	10 - <15	15 - <20	20 - <25	25 - <30	30 - <35	35 - <40	
-1	Picea abies																11
-1	Acer nigrum																53.0
-1	Acer Saccharum																X
-1	Populus tremuloides																
-2	Picea abies																46.7
-2	Liriodendron tulipifera																44.4
-2	Standing dead																66.0, 81.5
-2	Acer saccharum																
-3	Fraxinus americana																
-4	Fraxinus americana																
-4	Picea abies																44.5
-4	Berberis thunbergii																
-5	Picea abies																2
-5	Ulmus americana																
-5	Standing dead																
-5	Acer rubrum																
-5	Fagus grandifolia																
-5	Prunus pensylvanica																
-5	Berberis thunbergii																
-6	Fagus grandifolia																56.8
-6	Standing dead																60.2
-6	Acer nigrum																
-6	Acer saccharum																

<p align="right">ASH CANOPY BREAKUP CONDITION (for dead trees):</p> <p align="center">(if an ash receives a score of 5 (dead) under canopy condition it must also receive a breakup condition rank as described below)</p> <p align="center">A B C D E</p> 				
<p>A: All main branches contain fine twigs (newly dead)</p> <p>B: Over 50% of main branches have fine twigs.</p> <p>C: Less than 50% of main branches have fine twigs.</p> <p>D: Stem still standing and tertiary main branches present</p> <p>E: Central stem still standing.</p>				

<p align="right">ASH CANOPY CONDITION</p> <p align="center">1 2 3 4 5</p>     				
<p>1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.</p> <p>2. Thinning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.</p> <p>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.</p> <p>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.</p> <p>5. Dead canopy: No leaves remain in the canopy portion of the tree. If still counts as a 5 even if there are epicomic sprouts below the canopy (lowest branch) on the trunk</p>				

 WOODY STEM DEER BROWSE	 <p>DBH MEASUREMENT RULES</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>Record using the tally system from 1 to 10</p>	

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

 Project Label: PCAP

 Project Name: Olive Dell

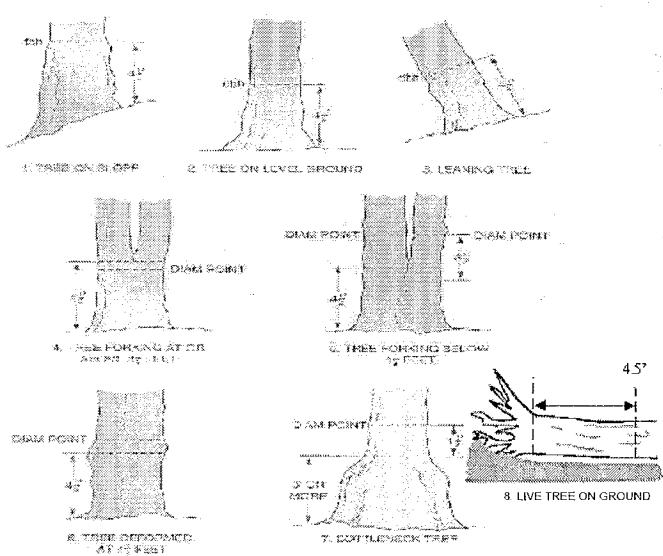
 Plot No.: 1125

 Page: 2 of 2


Explain subsample (additional room on back):

mod #	species	c voucher#	# stems 0-5.1m browsed	% sub sample	# shrub	size class (cm) woody stems > 7m									
						1	2	3	4	5	6	7	8	9	10
1	Acer rubrum														
6	Picea glauca														
6	Liriodendron tulipifera														
6	Berberis thunbergii														
7	Acer saccharum														
7	Fagus grandifolia														
7	Stenocarpus dielsianus														
7	Acer rubrum														
8	Acer saccharum														
8	Cornus florida														
8	Acer rubrum														
8	Acer saccharum														
8	Fagus grandifolia														
8	Berberis thunbergii														
8	Rosa multiflora		1	1											
9	Picea glauca														
9	Acer saccharum														
9	Acer rubrum														
9	Fraxinus americana														
9	Acer saccharinum														
10	Picea glauca														
10	Acer saccharum														
10	Berberis thunbergii														
10	Rubus multiflora														

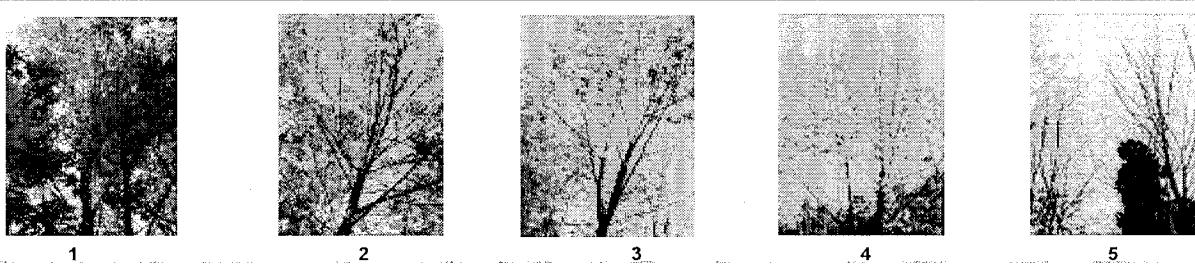
DBH Measurement Rules



Woody Stem Deer Browse

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

Record using the tally system from 1 to 10



ASH CANOPY CONDITION

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



A



B



C



D



E

ASH CANOPY BREAKUP CONDITION (for dead trees):

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

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

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

Project Label: PCAP

Project Name: Glen Lor...

Plot No.: 1125

Page: 1 of 1

COVER BY STRATA (% estimate using midpoints of 5 ext. & 13. (5%)

Strata	Height Range	Total Cover (%)
Tree	5' - 7'	98 %
Shrub	6.5' - 8'	8%
Herb	0' - 6.5'	48%
(Emergent)*	-	-
(Aquatic)**	-	-
*rooted and floating or slightly emersed		
**submersed, most plant mass below surface		
SEE BACK OF PAGE FOR "TYPICAL"		
STRATA DESCRIPTIONS, STRATA		
CAN VARY BY COVER TYPE.		

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

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

Rank for microtopographic 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 across 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 amounts, but not of highest quality, or in small amounts of highest quality

3 feature is present in greater amounts and of highest quality

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

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

6 feature is present in greater amounts and of highest quality

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

8 feature is present in greater amounts and of highest quality

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

10 feature is present in greater amounts and of highest quality

no. of tussocks	no. of hummocks	no. macro depressions	C.W.D. - count for pieces with minimum 1m length						
			c.w.d	c.w.d	c.w.d	c.w.d	microhab.	microhab.	microhab.
depth 3	depth 2	depth 1	(2-12 cm)	(12-40 cm)	>40 cm	interspers.			
1xm	1xm	1xm	10xm	10xm	10xm	depth 1	SLOPE		
mod#	cover	(count)	(count)	(count)	(count)	depth 1	10xm	10xm	
2	O	O	12	2	O	2	1		
3	O	O	1	8	O	2	1		
8	O	O	0	8	1	O	1	2	
9	O	O	0	10	X	0	0	1	

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

COVER BY STRATA

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

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

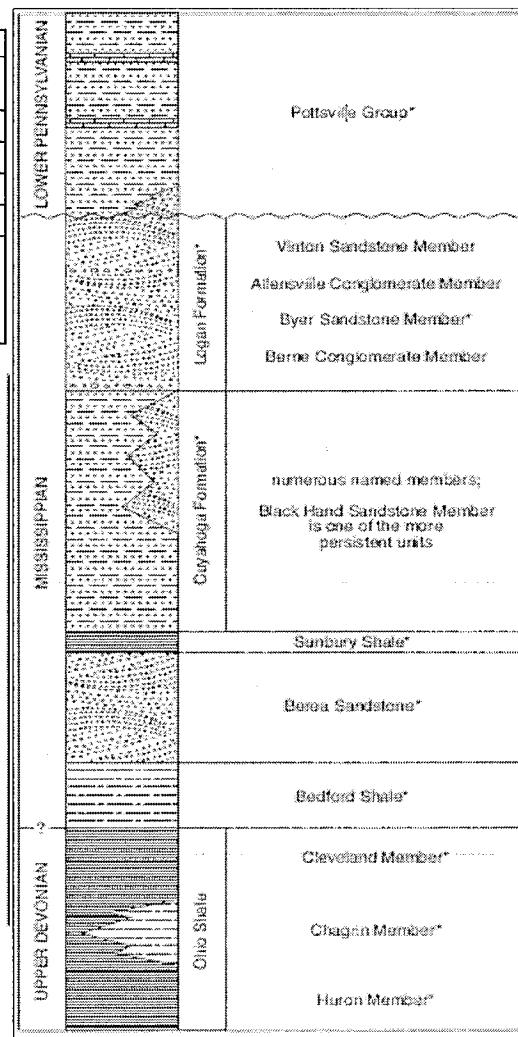
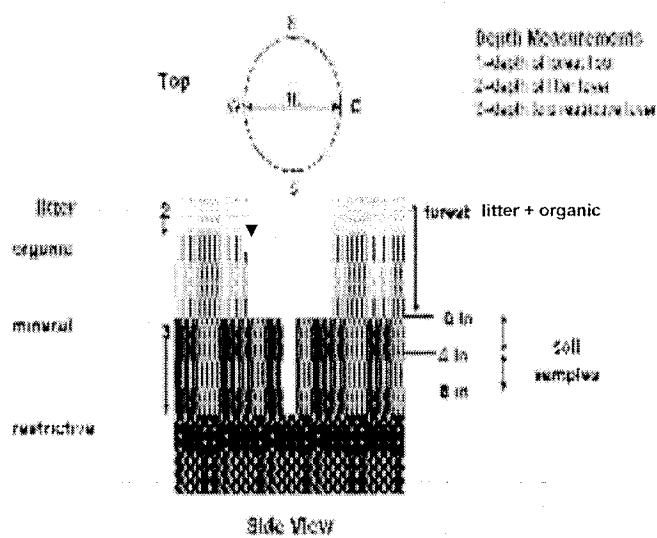
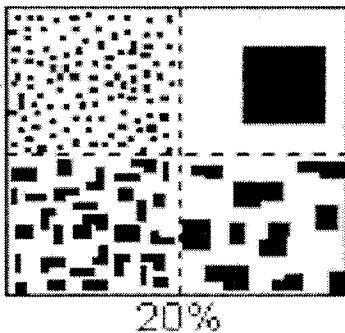
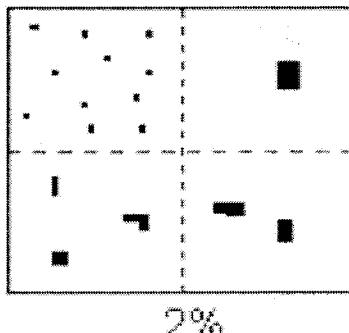


FIGURE 3-20.—Generalized section of Upper Devonian, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the chickwedges indicate relative proportionality. The term "Waverly" is used in the older literature to refer to Mississippian rocks in Ohio. Some geologists use the European term "Carboniferous," which encompasses the Mississippian and Pennsylvanian Periods of the U.S. Many units have been named within the Cuyahoga Formation, but most units are local and cannot be traced over great distances. The Black Hand Member is a spectacular massive sandstone that is fairly widespread but discontinuous. See Hyde (1955), Hoover (1960), and Collins (1979; for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of rock types.

PERCENT MOTTLES (USE CLASS CODES):

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



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

0= Organic

1= Loamy

2= Clayey

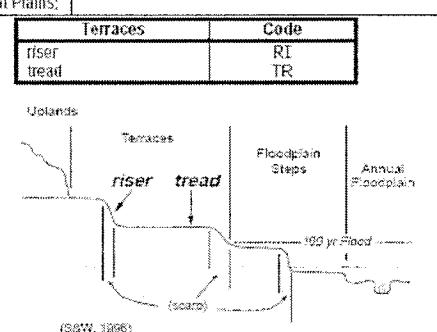
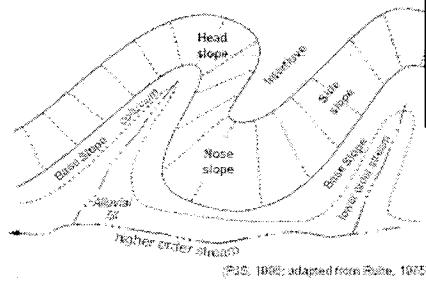
3= Sandy

4= Coarse Sand

9= Not measured - make plot note

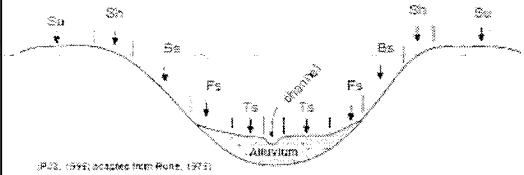
Geomorphic Component - Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains; e.g., for Hills) nose slope or NS.

Hills	Code PDP	Code NASIS
interfluve	IF	IF
head slope	HS	HS
nose slope	NS	NS
side slope	SS	SS
base slope	—	BS



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

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



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

UPLAND: Not a wetland. Very rarely flooded.

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

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

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

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

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

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 Semipermanently Flooded modifiers.

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

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

CLEVELAND METROPARKS Emerald Ash Borer - *Fraxinus* Sheet

Project Label: PCAP

Project Name: 01-BRBSI

INTENSIVE MODULES ONLY TREES \geq 10CM ONLY

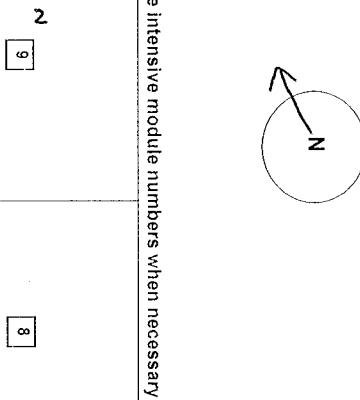
Plot No.: 1125

Date: 6-29-2011

Page: 1 of 2

Tree Module ID.	Species	Dead c	Voucher #	DBH (cm)	H ¹ @ DBH	Ash condition	Dead holes	# Erit	Epicormic present	Woodpecker holes
3	<i>Fraxinus americana</i>			37.4	3	3	0	0	0	0
9	<i>Fraxinus americana</i>			43.6	4	0	0	0		
3										
4										
5										
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25										

Baseline



*** Change intensive module numbers when necessary

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

- * If Ash Condition scores 5 (dead) provide breakup score (A-E)
- Count EAB exit holes $1.25\text{m}^2 \times \geq 1.5\text{in}$
- Woodpecker and epicormic marked present (1) or absent (0)

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

Site ID:	PAC Br 1125			DATE:	06/29/2011																					
Reviewed by (initials):																										
Fill bubble if present - Plot 1	<input type="checkbox"/>	<input checked="" type="checkbox"/> Flag	<input type="checkbox"/> Fill bubble if present - Plot 1	<input type="checkbox"/>	<input checked="" type="checkbox"/> Flag	<input type="checkbox"/> Fill bubble if present - Plot 1	<input type="checkbox"/>	<input checked="" type="checkbox"/> Flag																		
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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 type="checkbox"/>																		
Giant Sallowia	<input type="checkbox"/>	<input type="checkbox"/>	Ferninal Pepperweed	<input type="checkbox"/>	<input type="checkbox"/>	Common Buckthorn	<input type="checkbox"/>	<input type="checkbox"/>																		
Garlic Mustard	<input type="checkbox"/>	<input checked="" 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"/>	Chelgrass	<input type="checkbox"/>	<input type="checkbox"/>	Tamnisk	<input type="checkbox"/>	<input type="checkbox"/>																		
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Birdsfoot Trefoil	<input type="checkbox"/>	<input type="checkbox"/>	Common Reed	<input type="checkbox"/>	<input type="checkbox"/>	Leaky Spurge	<input type="checkbox"/>	<input type="checkbox"/>																		
Canada Thistle	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>																		
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Flag	Comments																									
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Comments												Flag

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<p>Site ID: PCAB BR-1125 DATE: 06/25/2011</p> <p>④ Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble</p> <table border="1"> <thead> <tr> <th>Fill bubble if present - Plot 1</th> <th>2</th> <th>3</th> <th>Flag</th> <th>Fill bubble if present - Plot 1</th> <th>2</th> <th>3</th> <th>Flag</th> <th>Fill bubble if present - Plot 1</th> <th>2</th> <th>3</th> <th>Flag</th> </tr> </thead> <tbody> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Purple Loosestrife</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Johnson Grass</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>Knotweed</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Kudzu</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Japanese Knotweed</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Multiflora Rose</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Pennant Pepperweed</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Common Buckthorn</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td></td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Giant Reed</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Himalayan Blackberry</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Cheatgrass</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Tamask</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Mile-A-Minute Weed</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Reed Canary Grass</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Birdsfoot Trefoil</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Common Reed</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Canada Thistle</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Leary Spurge</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td></td></tr> <tr><td colspan="12"> <p>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 A CENTER. 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Flag	Comments
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Use Decimal Degrees; NAD83

Latitude North 4 1 . 3 1 . 3 8 . 8 Longitude West 0 8 1 . 5 9 . 9 5 1

- Ⓐ AA CENTER Ⓛ N3 Ⓜ S3 Ⓝ E3 Ⓞ W3 Ⓟ Nearest practicable location (flag and comment below)
- Location of coordinates (choose one):

Flag

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 Buffer Transects were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed on the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.

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.

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	Fill bubble if present - Plot 1	2	3	Flag	
Eurasian Watermilfoil	Ⓐ	Ⓐ	Ⓐ	Purple Loosestrife	Ⓐ	Ⓐ	Ⓐ	Johnson Grass	Ⓐ	Ⓐ	Ⓐ	Water Hyacinth	Ⓐ	Ⓐ	Ⓐ	Knotweed
Yellow Floating Heart	Ⓐ	Ⓐ	Ⓐ	Japanese Knotweed	Ⓐ	Ⓐ	Ⓐ	Multiflora Rose	Ⓐ	Ⓐ	Ⓐ	Giant Saurina	Ⓐ	Ⓐ	Ⓐ	Pennisetum Pappiferoid
Garlic Mustard	Ⓐ	Ⓐ	Ⓐ	Giant Reed	Ⓐ	Ⓐ	Ⓐ	Himalayan Blackberry	Ⓐ	Ⓐ	Ⓐ	Poison Hemlock	Ⓐ	Ⓐ	Ⓐ	Reed Canary Grass
Mile-A-Minute Weed	Ⓐ	Ⓐ	Ⓐ	Common Reed	Ⓐ	Ⓐ	Ⓐ	Tamansk	Ⓐ	Ⓐ	Ⓐ	Birdsfoot Trefoil	Ⓐ	Ⓐ	Ⓐ	Leaky Spurge
Canada Thistle	Ⓐ	Ⓐ	Ⓐ	Common Reed	Ⓐ	Ⓐ	Ⓐ	Other	Ⓐ	Ⓐ	Ⓐ	AA CENTER	Ⓐ	Ⓐ	Ⓐ	Nearst practicable location (flag and comment below)

- Ⓐ Confirms a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble

Site ID:	PCAP B1 1125	Date:	06/29/2011
Reviewed by (initials):			
FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (BACK)			

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:	<u>Plot No.:</u> 1125	Local Place Names:	
		Landowner:	
		X-axis Bearing of plot:	306°
Date (mm/dd/yyyy):	/ /	Data Confidentiality:	
End date (if > 1 day):	/ /	Check one: <input type="checkbox"/> Public data <input type="checkbox"/> Private Data	
Party	Role**	<input type="checkbox"/> Fuzz 100m <input type="checkbox"/> Fuzz 250m <input type="checkbox"/> Fuzz 500m	
	Plot leader		Reason:
		If data not public why?	
		Source of coordinates	<input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS
		GPS location in plot x=0 to 5, y=1,0,+1):	x = 0 y = 0 (base of plot x=0, y=0)
		Coordinate system:	<u>Coord. Units</u>
PLOT NOT SAMPLED:	<input type="checkbox"/> Other	<input type="checkbox"/> Lat/Long <input type="checkbox"/> UTM <input type="checkbox"/> StatePlane	<input type="checkbox"/> deg <input type="checkbox"/> deg min <input type="checkbox"/> m <input type="checkbox"/> ft <input type="checkbox"/> c
□ Perm. water	<input type="checkbox"/> Paved	<input type="checkbox"/> Slope	<input type="checkbox"/> NAD83/WGS84 <input type="checkbox"/> NAD27
SAMPLING QUALITY*			
Effort Level:	subjective evaluation of how much effort put into sampling. Hurned plots may still provide good data		
Very thorough			
Accurate			
Hurried			
TAXONOMIC ACCURACY			
high	modera.	low	not samp!
vascular			n/a
bryo			
lichen			
TAXONOMIC STANDARD			
Authority:	G&C	Pub Date:	1998
Minimum required fields in Bold and Underlined			
<p>*Definitions and values in CMPCAP FORM v. 1.0 and CVS Field Guide * No leaves, hard to ID</p> <p style="text-align: center;">OVER</p>			

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Project Label: PCAP

Project Name: _____

Plot No.: _____

Page 2 of 2

CLASSIFICATION

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

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, weekly ombrotrophic)
 - SWAMP (moderately, weekly, weekly mesotrophic)
 - FOREST (moderately, weekly, weekly mesotrophic)
 - emergent (moderately, weekly, weekly mesotrophic)
 - shrub swamp (moderately, weekly, weekly mesotrophic)
 - tall sh. bog (moderately, weekly, weekly mesotrophic)
 - tall sh. fen (moderately, weekly, weekly mesotrophic)

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

MODIFIED NATURE RESERVE CLASS*:

CODE (on separate form):

COMMUNITY NAME:

LANDFORM TYPE*:

Fit= Conf=

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.)

Slope plots three at depth perception

After we finished laying out we realized that most 5-10 weren't as representative of the community as 1-5. May need to make this plot a bit more intensive - Ask Connie

Park at pull off on Riverview Rd. (see 1:1800 map) and
hike in

