

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



Project Label: PCAP

Plot No: 3500 Date Sampled: 8/19/13 Lead: J. Miller

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?	11 Aug 13 RSH	Enter date to left
Final data sheets scanned?		Enter date to left
Buffer Widths measured?	<input checked="" type="radio"/> Y <input type="radio"/> N	RSE 29 Aug 2013
Web Soil Survey	<input checked="" type="radio"/> Y <input type="radio"/> N	AB 8/23/13
Voucher Location	Refrigerator	<input checked="" type="radio"/> Y <input type="radio"/> N
(# vouchers collected)	Press (#)	Enter number to left
JAM 222- 224	Drier	<input type="radio"/> Y <input type="radio"/> N
	Identified	<input type="radio"/> Y <input type="radio"/> N
	Mounted	<input type="radio"/> Y <input type="radio"/> N
	Thrown away	<input 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:

Significant encroachments.



CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Page 1 of 2

# CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Page 1 of 2

GENERAL INFORMATION		LOCATION	
Project Label:	PCAP	State:	OH County:淳安县
Project Name:	01 BC 2013	Quadrangle:	
Plot Name:	<u>Encroachment</u> <u>Death Star</u>	Local Place Names:	Fern Hill Picnic Area
Plot No.:	3500	Landowner:	CMF
		Data Confidentiality:	
		Check one: <input checked="" type="checkbox"/> Public data <input type="checkbox"/> Private Data	
		□ Fuzz 100m <input type="checkbox"/> Fuzz 250m <input type="checkbox"/> Fuzz 500m	
		Reason:	
		If data not public why?	
		Source of coordinates	<input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS
		Coordinate system:	<u>Coord. Units</u>
		■ Lat/Long <input type="checkbox"/> UTM <input type="checkbox"/> StatePlane	■ deg <input type="checkbox"/> deg min
		□ Other (specify)	■ m <input type="checkbox"/> ft <input type="checkbox"/>
		Datum:	<input checked="" type="checkbox"/> NAD83/WGS84 <input type="checkbox"/> NAD27
		GPS location in plot x=0 to 5, y=1.0,+1):	x = 0 y = -1 (base of plot x=0, y=0)
		Latitude:	N 41.41165
		Longitude:	W. 81.75536
		Coord. Accuracy:	<input type="checkbox"/> m <input checked="" type="checkbox"/> ft <input type="checkbox"/> + - 1/4
		GPS File Name:	3500A
		Plot size for cover data:	0.05 (hectares)
		X-axis Bearing of plot:	[180] °
		Depth: (1-5):	4
		Intensive modules: 2, 3, 8, 9 <u>4, 5</u> (EDIT IF MODIFIED)	
		Camera No.: <u>C3</u> <u>1702</u> <u>1714</u>	
		Photo Nos.:	
		Plot placement:	<input checked="" type="checkbox"/> GRTS <input type="checkbox"/> Representative
		□ Random <input type="checkbox"/> Stratified Random <input type="checkbox"/> Transect component	
		□ Systematic (grid) <input type="checkbox"/> Capture specific feature <input type="checkbox"/> Other	
TAXONOMIC STANDARD		OVER	
Authority:		G&C Pub Date: 1998	

Minimum required fields in Bold and Underlined

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

## **Minimum required fields in Bold and Underlined**

1aCM PCAP Background Data Sheet Page 1\_ver 3.0.xls last revised 5/29/2012 car

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

Project Label: PCAP

Project Name: 01 BC 2013

Plot No.: 3500

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Page 2 of 2

**MODIFIED NATUREERVE CLASS\***

CODE (on separate form):

A-01-D

*Mixed*

~~Dry mesic~~ ~~Dry forest woodland~~  
~~No white oaks or hickory~~  
~~Wet species such as *Salix* and *Silva* Maple~~

**HOMOGENEITY**

Homogeneous

Compositional trend across the plot

Irregular/pattern mosaic

*↳ clumping; edge of lawn*

**HYDROLOGIC REGIME\***

Upland (seldom flooded)

Intermittently flooded

Intermittently/seasonally saturated (seldom flooded)

Semipermanently flooded

Permanently/Semipermanent saturated (dry <1/yr, seldom flooded)

Permanently flooded

Occasionally flooded (<1/yr)

Tidal/Seiche flooded daily

Temporarily flooded

Tidal/Seiche flooded monthly

Temporarily flooded (e.g. wind, storms)

Unknown

(by default unless plot is a wetland)

Upland (n/a)

*↳ significant encroachment (clumping).*

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

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a

Project Label:

PCAP

Project name: 01 BC 2013

Plot no.: 30

5

intensive modules. 1 Hot configuration.

Plot area (ha): 0.00



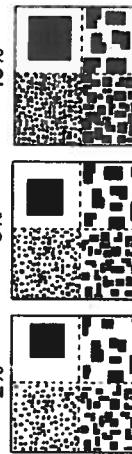
2aCM PCAP Species Cover Data sheet Page 1 of x ver 3.xls last revised 5/29/2012 celh

#### EXAMPLES OF PERCENT OF AREA COVERED

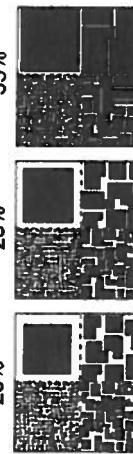
The following graphic can be used for various data elements to convey "Amount" or "Quantity". **NOTE:** Within any given box, each quadrant contains the same total area covered, just different sized objects.



25%



50%



75%



100%

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.

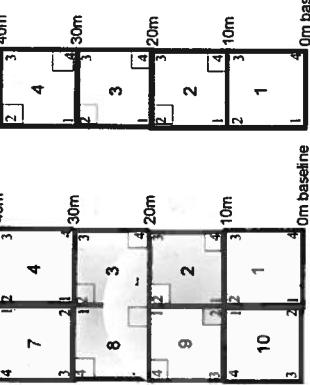
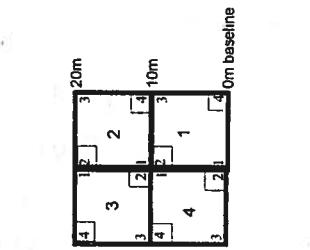
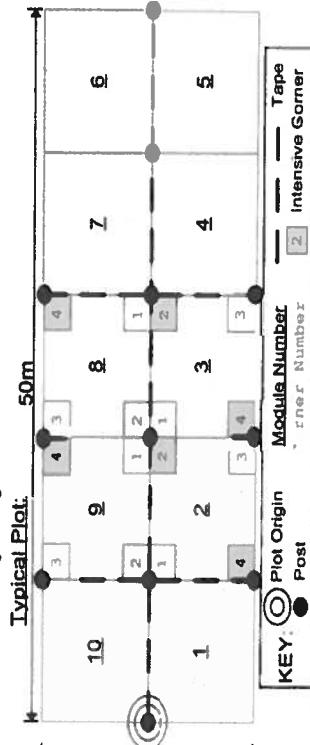
**MEDIUM LOW** values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse 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 Species Cover Data Sheet 2a**

Project Label: PCAP

Project name: 01 BC 2013

Plot no.: 3500

Page 2 of 3

Total modules: 10

Intensive modules: 4 Plot configuration: 1X5

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:	mod	corner																
	depth	cov																
%unvegetated open water	1		1		1		1		1		1		1		1		1	
%unveg. ground (bare soil)	1		1		1		1		1		1		1		1		1	
%unveg. litter (bare litter)	1		1		1		1		1		1		1		1		1	

Strata - Cov. entire plot	T	S	H	(F)	(A)	Br	Species	c	Voucher #	depth	cov	depth	cov	depth	cov	depth	cov	depth			
	2					Potentilla	<i>spp.</i>	1	1	2	2	3	1	2	4	4	2	5	4	5	2
	2					<i>Ulmus</i>	<i>spp.</i> (seedling)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2					<i>Ulmus americana</i>		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1					<i>Eupatorium</i>	<i>sugosum</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2					<i>Ligustrum</i>	<i>vulgare</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2					<i>Syringa</i>	<i>var</i> <i>varia</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2					<i>Vitis</i>	<i>vestita</i>	1	2	3	3	3	3	3	3	3	3	3	3	3	3
	1					<i>Taraxacum</i>	<i>officinale</i>	1	1	2	1	2	1	2	1	2	1	2	1	2	1
	1					<i>Anisaea</i>	<i>triphyllum</i> var <i>triphyllum</i>	1	1	2	1	2	1	2	1	2	1	2	1	2	1
	1					<i>Carex</i>	<i>swanii</i>	1	1	2	1	2	1	2	1	2	1	2	1	2	1
	2					<i>Rhamnus</i>	<i>frangula</i>	1	2	3	3	4	4	4	4	4	4	4	4	4	4
	2					<i>Liquidambar</i>	<i>styraciflua</i>	1	2	3	3	4	4	4	4	4	4	4	4	4	4
	2					<i>Cornus</i>	<i>spp.</i>	1	2	2	2	1	2	2	1	2	2	1	2	2	1
	5					<i>Liriodendron</i>	<i>tulipifera</i>	1	3	6	6	6	6	6	6	6	6	6	6	6	6
	2					<i>Fraxinus</i>	<i>spp.</i> (seedling)	1	2	3	3	4	4	4	4	4	4	4	4	4	4
	2					<i>Acer</i>	<i>saccharinum</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3					<i>Leersia</i>	<i>virginica</i>	1	2	3	3	4	4	4	4	4	4	4	4	4	4
	2					<i>Asteraceae</i>	<i>spp.</i> 2	1	2	3	3	4	4	4	4	4	4	4	4	4	4
	1					<i>Carex</i>	<i>spp.</i> 2	1	2	3	3	4	4	4	4	4	4	4	4	4	4
	2					<i>Polygonum</i>	<i>spp.</i> 2	1	2	3	3	4	4	4	4	4	4	4	4	4	4
	1					<i>Carex</i>	<i>spp.</i> 3	1	2	3	3	4	4	4	4	4	4	4	4	4	4
	2					<i>Asteraceae</i>	<i>spp.</i> 3	1	2	3	3	4	4	4	4	4	4	4	4	4	4
	2					<i>Sisyrinchium</i>	<i>albidum</i>	1	2	3	3	4	4	4	4	4	4	4	4	4	4
	1					<i>Lysimachia</i>	<i>nummularia</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1

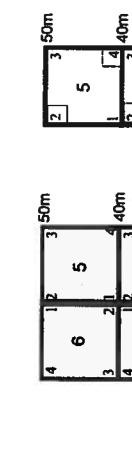
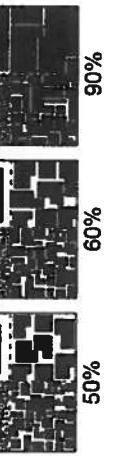
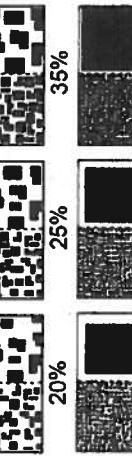
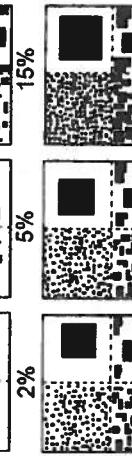
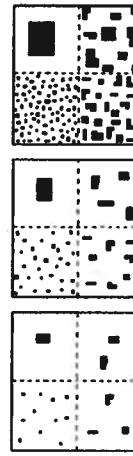
smooth

wide, w/o fruit on culm  
shinier  
lawn grass  
wide, w/o fruit on culm

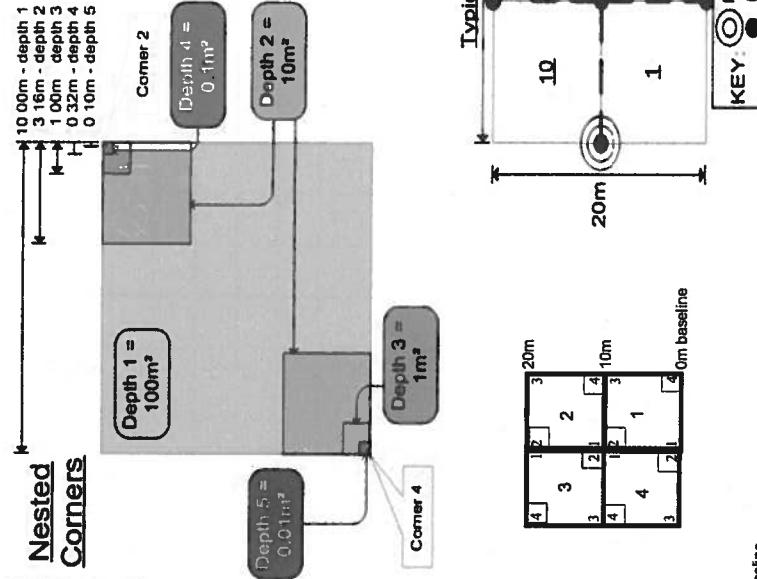


#### EXAMPLES OF PERCENT OF AREA COVERED

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



cover class	% cover	midpoint
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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

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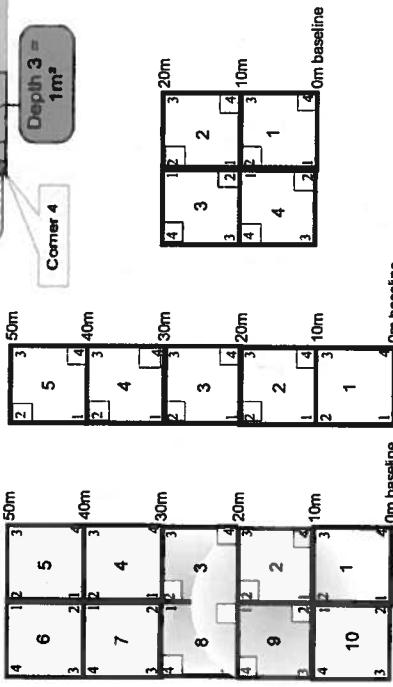
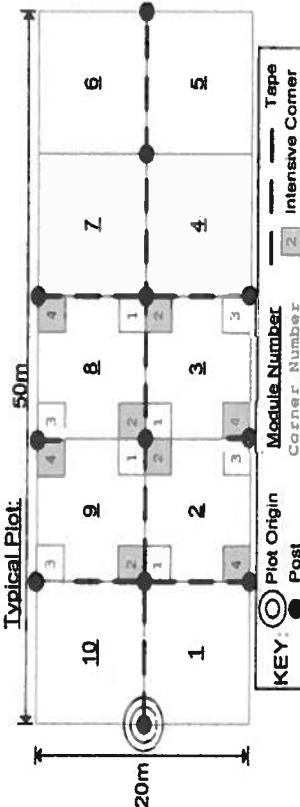
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**CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a**

Project Label: PCAP

Project name: 044-2013C W13

Page 3 of 3

Total modules: 5

Intensive modules: 4

Plot configuration: 1x5

Plot area (ha): 0.05



**Cleveland  
Metroparks**

Strata - Cov. entire plot

Strata - Cov. entire plot

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

%unveg. ground (bare soil)

%unveg. litter (bare litter)

mod corner mod corner

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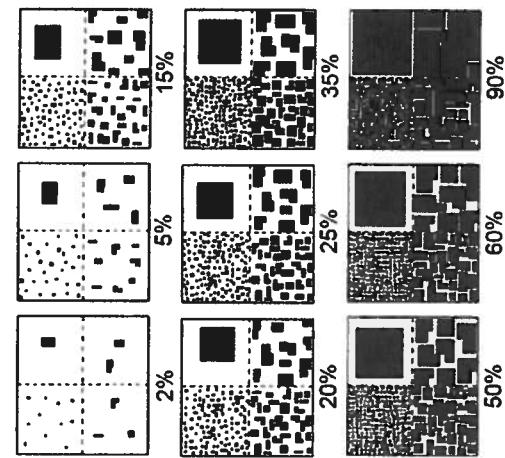
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**LOW OR NONE:** there is no measurable browse line

**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.

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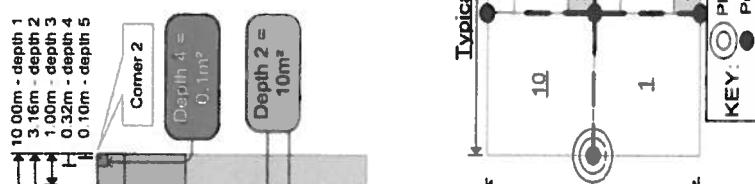
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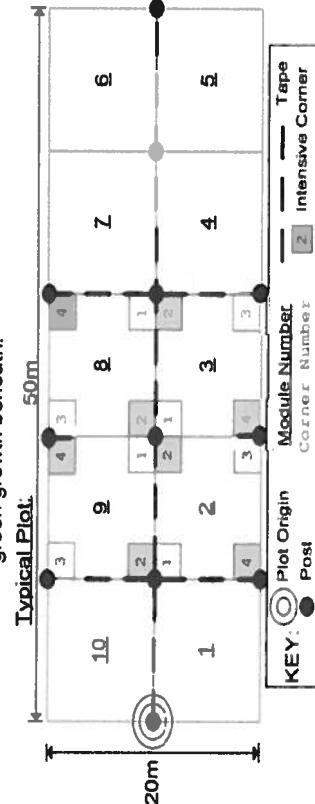
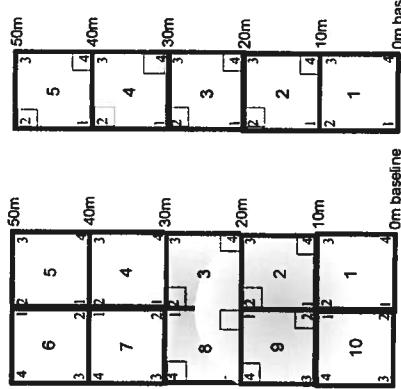
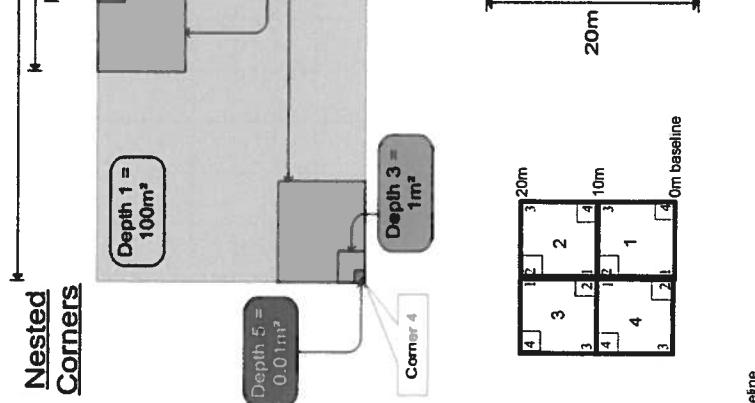
**HIGH:** greater than 25 percent of the stems of plants in the 1 m<sup>2</sup> nested quadrat and intensive module **AND** a browse line is evident.

**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.

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



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

Project Label: PCAP

Project Name: 01BC2013

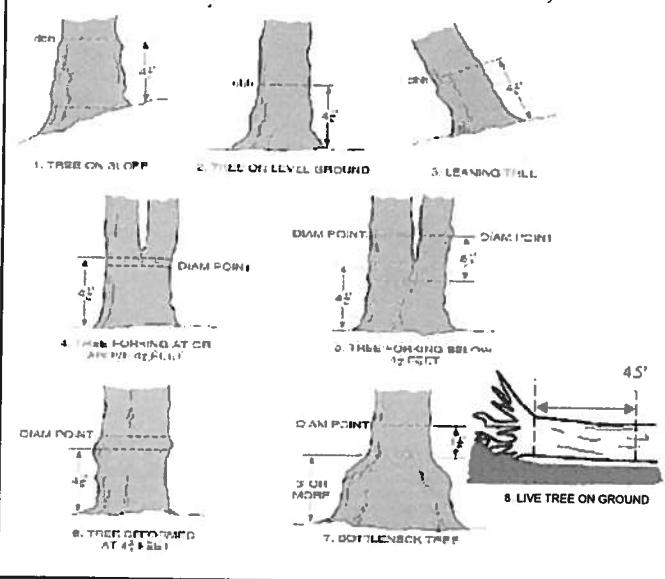
Plot No.: 350

Page: 1 of 3

Explain subsample (additional room on back):

mod #	species	c voucher#	# stems browsed	% sub sample	# shrub clumps	size class (cm) woody stems >1.4m										
						1	2	3	4	5	6	7	8	9	10	11
X	<i>Crataegus</i> sp.					•	•	•	•	•	•					
X	<i>Lindera benzoin</i>	10				•										
X	<i>Acer rubrum</i>									•	•					
X	<i>Rosa multiflora</i>															
X	<i>Quercus palustris</i>															
X	<i>Lonicera morrowii</i>															
X	<i>Fragaria ananassa</i>															
X	<i>Rubus sp.</i>															
X	<i>Lonicera maackii</i>															
X	<i>Faxinus pennsylvanicus</i>															
X	<i>Acer sp.</i>															
Z	<i>Lindera benzoin</i>															
Z	Stunning dead															
Z	<i>Rosa multiflora</i>	11														
Z	<i>Vitis americana</i>															
Z	<i>Acer rubrum</i>															
Z	<i>Prunus serotina</i>															
Z	<i>Crataegus</i> sp.															
Z	<i>Lonicera morrowii</i>															
Z	<i>Rubus pensylvanicus</i> <sup>SP</sup>															
Z	<i>Acer rubrum</i>															
Z	<i>Liquidambar styraciflua</i>															

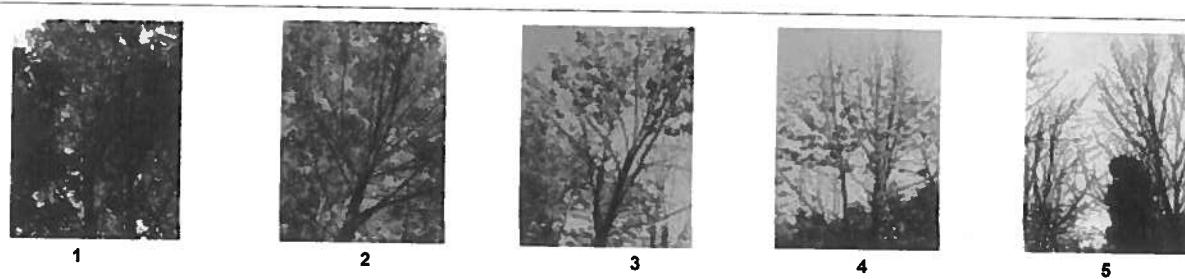
### DBH Measurement Rules



### Woody Stem Deer Browse

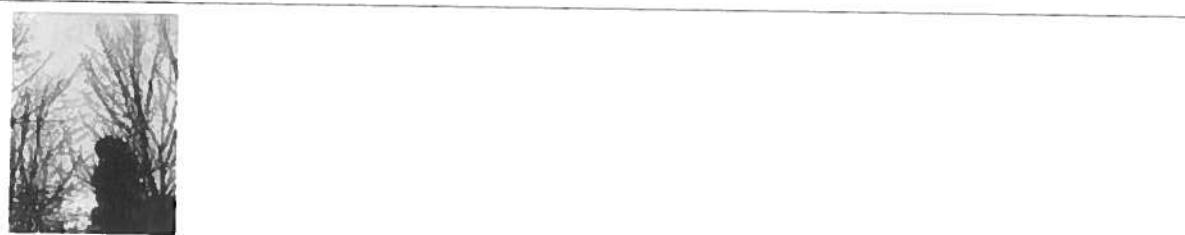
Record the number of stems/plants between 0.5-1.0 meters tall that exhibit evidence of this years deer browse.

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.



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

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

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

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: 01 BC 2013

Plot No.: 3500

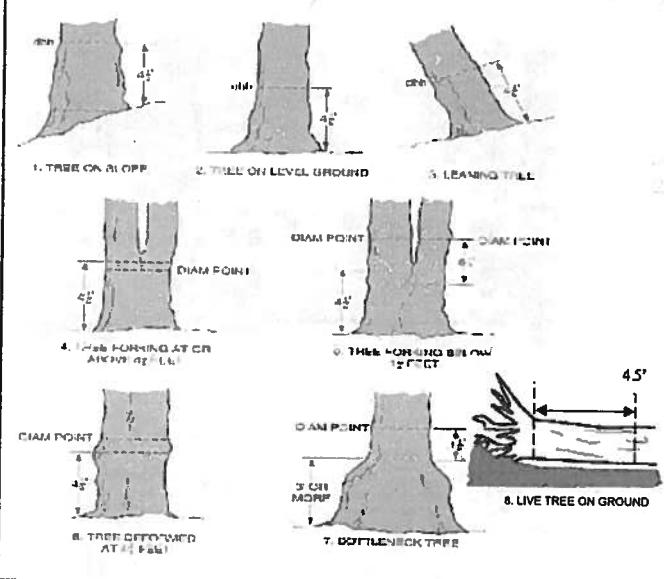
Page: 2 of 3

Cleveland Metroparks

Explain subsample (additional room on back):

mod #	species	c	voucher#	# stems 0-1.4m browsed	% sub or super sample	# shrub clumps	size class (cm) woody stems >1.4m											>40 (record each tree)
							1	2	3	4	5	6	7	8	9	10	11	
3	<i>Fraxinus pennsylvanica</i>			•			•											
3	<i>Liquidambar styraciflua</i>			•														
3	<i>Rhus typhina</i>			••														
3	<i>Quercus rubra</i>																	
3	<i>Crataegus</i> sp.			••														
3	Standing dead						•											
3	<i>Lindera benzoin</i>																	
3	<i>Vitis aestivalis</i>																	
3	<i>Toxicodendron radicans</i>																	
3	<i>Acer saccharum</i>																	
3	<i>Fraxinus</i> sp.																	
3	<i>Ulmus americana</i>																	
3	<i>Frangula alnus</i>																	
3	<i>Rosa multiflora</i>																	
3	<i>Ligustrum vulgare</i>																	
4	<i>Acer rubrum</i>																	
4	<i>Tilia americana</i>																	
4	<i>Acer saccharinum</i>																	
4	<i>Fraxinus penn.</i>																	
4	Standing dead																	
4	<i>Quercus rubra</i>																	
4	<i>Frangula alnus</i>																	
4	<i>Crotalaria</i> sp.																	

### DBH Measurement Rules



### Woody Stem Deer Browse

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

Record using the tally system from 1 to 10



1



2



3



4



5

### ASH CANOPY CONDITION

1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
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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):

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

Project Label: PCAP

Project Name: 01BC2013

Plot No.: 3500

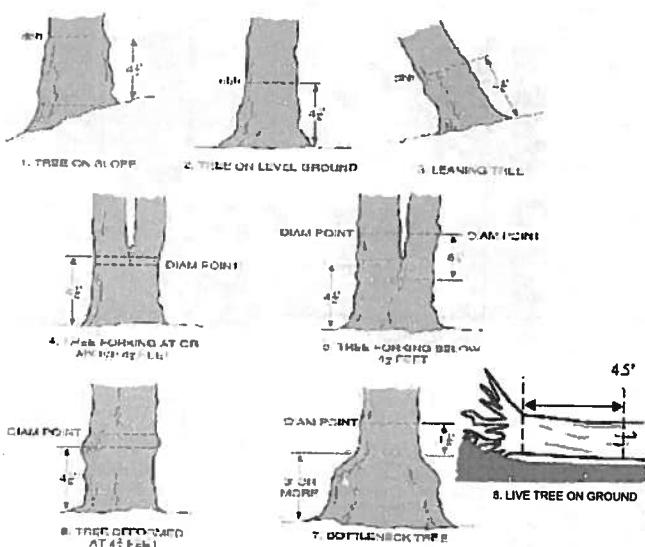
Page: 3 of 3

 Cleveland Metroparks

Explain subsample (additional room on back):

mod #	species	c	voucher#	# stems browsed	# sub or super sample											size class (cm) woody stems >1.4m	1	2	3	4	5	6	7	8	9	10	11
					0-1.4m	1-2.5	2.5-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	>40 (record each tree)												
4	<i>Lonicera morrowii</i>			•																							
4	<i>Liquidambar styracifolia</i>			•																							
4	<i>Lindera benzoin</i>			••																							
4	<i>Rosa multiflora</i>			•																							
5	<i>Styrax obassia</i>																										
5	<i>Acer rubrum</i>				•																						
5	<i>Quercus rubra</i>				•																						
5	<i>Prunus serotina</i>			••																							
5	<i>Citrus aurantium</i>			•																							
5	<i>Fraxinus pennsylvanica</i>			••																							
5	<i>Sassafras albidum</i>			•																							
5	<i>Lindera benzoin</i>			••																							
5	<i>Rosa multiflora</i>			••																							
5	<i>Quercus sp.</i>			•																							
5	<i>Lonicera morrowii</i>			•																							
5	<i>Rubus sp.</i>			••																							
2	<i>Vitis destivalis</i>																										

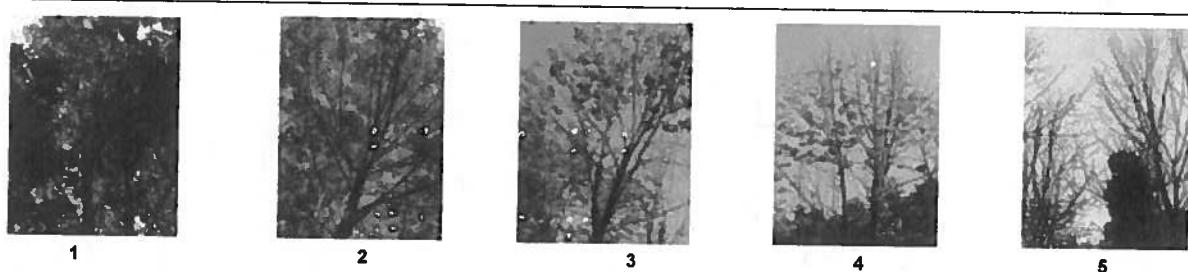
### DBH Measurement Rules



### Woody Stem Deer Browse

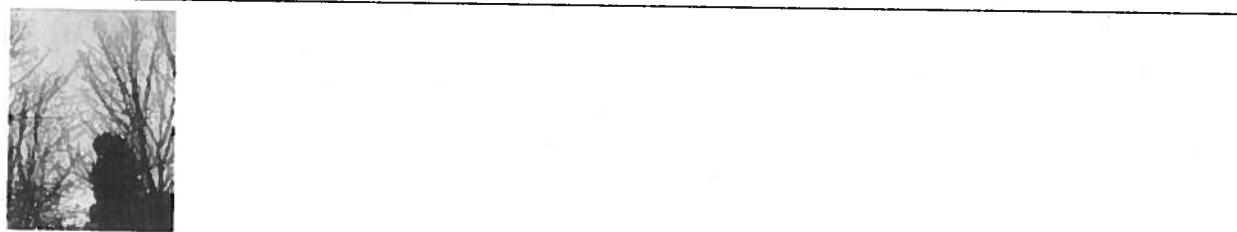
Record the number of stems/plants between 0.5-1.0 meters tall that exhibit evidence of this years deer browse.

Record using the tally system from 1 to 10



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- E: Central stem still standing.

Plot No.: 3500 Date: 8/19/13

Module ID	Tree ID	Species	Dead c	Voucher #	DBH (cm)	Ht @ DBH	Ash condition	ASH Only		
								*Dead holes	#Exit holes	Epicormic present
	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									
	13									
	14									
	15									
	16									
	17									
	18									
	19									
	20									
	21									
	22									
	23									
	24									
	25									

ENOUGH

N

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

Baseline

9

8

2

3

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

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

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detection/ Rapid response

		Presence				GPS
		NE	SE	SW	NW	
Microstegium vimineum	Japanese stiltgrass					
Ranunculus ficaria	Lesser Celandine					
Cynanchum louiseae	(vine) Black Swallow-wort					
Butomus umbellatus	(wetland) Flowering Rush					

Presence  
X: yes

Tier 2: Assess as Needed

		# of Plants				comments
		NE	SE	SW	NW	
Acer platanoides	Norway Maple					
Ailanthus altissima	Tree of Heaven					
Lonicera japonica	(vine) Japanese Honeysuckle					
Lythrum salicaria	(wetland) Purple Loosestrife					
Aegopodium podagraria	(G-cover) Bishop's Goutweed					
Celastrus orbiculatus	(vine) Asian Bittersweet					
Torilis sp.	Hedgeparsley					
Conium maculatum	(wetland) Poison Hemlock					
Rhamnus cathartica	Common Buckthorn (shrub)					
Berberis thunbergii	Japanese Barberry (shrub)	1				
Alnus glutinosa	European Alder					
Dipsacus laciniatus	Cut-leaf Teasel					
Elaeagnus umbellata	Autumn Olive (shrub)					
Lonicera maackii	Amur Honeysuckle (shrub)	1	2			
Euonymus fortunei	Wintercreeper					

# of Plants  
4: 50-100  
5: 100-1,000  
6: >1,000

Tier 3: Presence is of Interest

		# of Plants				comments
		NE	SE	SW	NW	
Convallaria majalis	(G-cover) Lily of the Valley					
Coronilla varia	(G-cover) Crown Vetch					
Eleutherococcus pentaphyllus	Five-leaf Aralia (shrub)					
Pachysandra terminalis	(G-cover) Japanese Pachysandra					
Philadelphus coronarius	Mock Orange (shrub)					
Pulmonaria officinalis	(G-cover) Lungwort					
Rubus phoenicolasius	Wineberry					
Iris pseudacorus	(wetland) Yellow Flag Iris					
Ornithogalum umbellatum	Star of Bethlehem					
Viburnum opulus var. opulus	European Cranberry (shrub)	1	1	1	1	
Viburnum plicatum	Doublefile Viburnum (shrub)					

# of Plants  
1: 1-10  
2: 11-50.  
3: >50

Tier 4: Widespread and abundant

		Presence				comments
		NE	SE	SW	NW	
Alliaria petiolata	Garlic Mustard					
Ligustrum vulgare	Common Privet (shrub)	1	1	1	1	
L. morrowii, L. tatarica	Bush Honeysuckles (shrub)	2	2	2	1	
Phalaris arundinacea	Reed Canarygrass					
Phragmites australis	(wetland) Phragmites					
Polygonum cuspidatum	Japanese Knotweed					
Frangula alnus	Glossy Buckthorn (shrub)	1		1	1	
Rosa multiflora	Multiflora Rose (shrub)	2	2	2	2	
Typha angustifolia, T. x. glauca	Cattails (wetland)					
Cirsium arvense	Canada thistle					
Dipsacus fullonum	Common Teasel					
Hesperis matronalis	Dame's Rocket					
Vinca minor	(G-cover) Periwinkle	3				

Presence  
X: yes

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

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

**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 pit module #** (one per entire plot)

**5 cm**

matrix color **2.5Y4/2**

moisture color **None**

% moisture **0**

oxid. reac. **Y**

texture\* **2**

redox features\*\* **Y**

hydr. cond.\*\*\* **1 S M D**

matrix color **2.5Y4/4**

% moisture **0**

oxid. reac. **Y**

texture\* **2**

redox features\*\* **Y**

hydr. cond.\*\*\* **1 S M D**

matrix color **None**

% moisture **0**

oxid. reac. **Y**

texture\* **2**

redox features\*\* **Y**

hydr. cond.\*\*\* **1 S M D**

matrix color **None**

% moisture **0**

oxid. reac. **Y**

texture\* **2**

redox features\*\* **Y**

hydr. cond.\*\*\* **1 S M D**

matrix color **None**

% moisture **0**

oxid. reac. **Y**

texture\* **2**

redox features\*\* **Y**

hydr. cond. \*\*\* **1 S M D**

matrix color **None**

% moisture **0**

oxid. reac. **Y**

texture\* **2**

redox features\*\* **Y**

hydr. cond. \*\*\* **1 S M D**

matrix color **None**

% moisture **0**

oxid. reac. **Y**

texture\* **2**

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hydr. cond. \*\*\* **1 S M D**

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texture\* **2**

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hydr. cond. \*\*\* **1 S M D**

matrix color **None**

% moisture **0**

oxid. reac. **Y**

texture\* **2**

redox features\*\* **Y**

hydr. cond. \*\*\* **1 S M D**

matrix color **None**

% moisture **0**

oxid. reac. **Y**

texture\* **2**

redox features\*\* **Y**

hydr. cond. \*\*\* **1 S M D**

matrix color **None**

% moisture **0**

oxid. reac. **Y**

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hydr. cond. \*\*\* **1 S M D**

matrix color **None**

% moisture **0**

oxid. reac. **Y**

texture\* **2**

redox features\*\* **Y**

hydr. cond. \*\*\* **1 S M D**

matrix color **None**

% moisture **0**

oxid. reac. **Y**

texture\* **2**

redox features\*\* **Y**

hydr. cond. \*\*\* **1 S M D**

matrix color **None**

% moisture **0**

oxid. reac. **Y**

texture\* **2**

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hydr. cond. \*\*\* **1 S M D**

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matrix color **None**

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oxid. reac. **Y**

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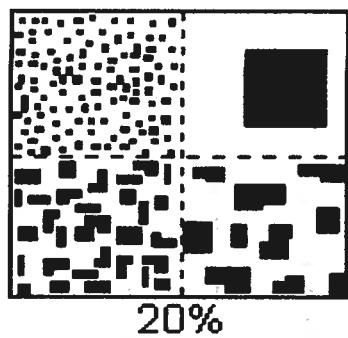
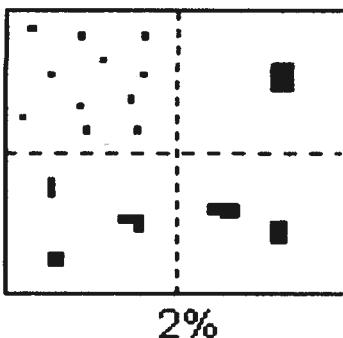
matrix color **None**

% moisture **0**

oxid. reac. **Y</**

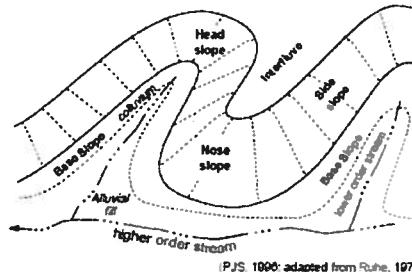
**PERCENT MOTTLES (USE CLASS CODES):**

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

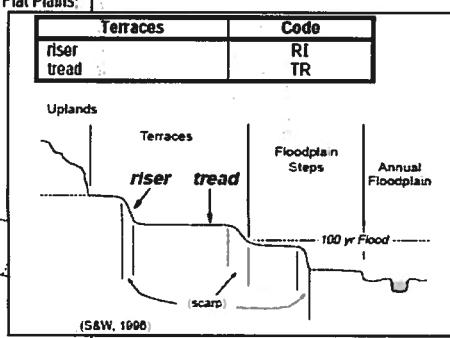


**Geomorphic Component** - Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains; e.g., (for Hills) nose slope or NS.

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

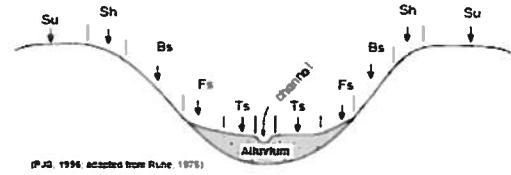


(PJS: 1996; adapted from Riche, 1975)



**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 Plant Community Assessment Program - Plant Cover and Earth Surface

Project Label: PCAP

Project Name: DLBC 2013

Plot No.: 3500

Page: 1 of 1

**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 #	C7	Corner	Corner

**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) to begin + any features present

Slope 1 = slight elevational grade across module (hi)

Slope 2 = falls on slope -20°

Slope 3 = maximum steepness that can be safely sampled ~45°

0 feature is absent or functionally absent from the wetland

3 feature is present in the wetland in very small amounts or if more common, of low quality

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

10 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		microhab interspers.	microhab	LFI*
			(2-12 cm)	(12-40cm)	>40 cm	interspers.			
2	0	0	0	3	2	0	0	0	22
2	0	0	0	3	4	0	0	0	9
3	0	0	0	2	4	0	0	0	11
4	0	0	1	2	4	0	0	0	14
5	0	0	0	3	1	0	0	0	6
				2	0	0	0	0	9
				3	0	0	0	0	10
				3	0	0	0	0	12
				0	0	0	0	0	14

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

MANAB INDICES (degrees) + for up - for down				
<b>[FILLED OUT USING GIS PROGRAM. DO NOT FILL OUT IN FIELD]</b>				
Module	N	S	E	W
2	22	9	11	5
3	11	14	12	19
4	6	9	10	9
5	7	10	12	14

CROWN COVER (DENSIOMETER) Make: 4 readings per module facing N, S, E, W. Place dot count in corners (only space - 4 dots per grid square)				
2	22	9	11	5

#### COVER BY STRATA

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

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

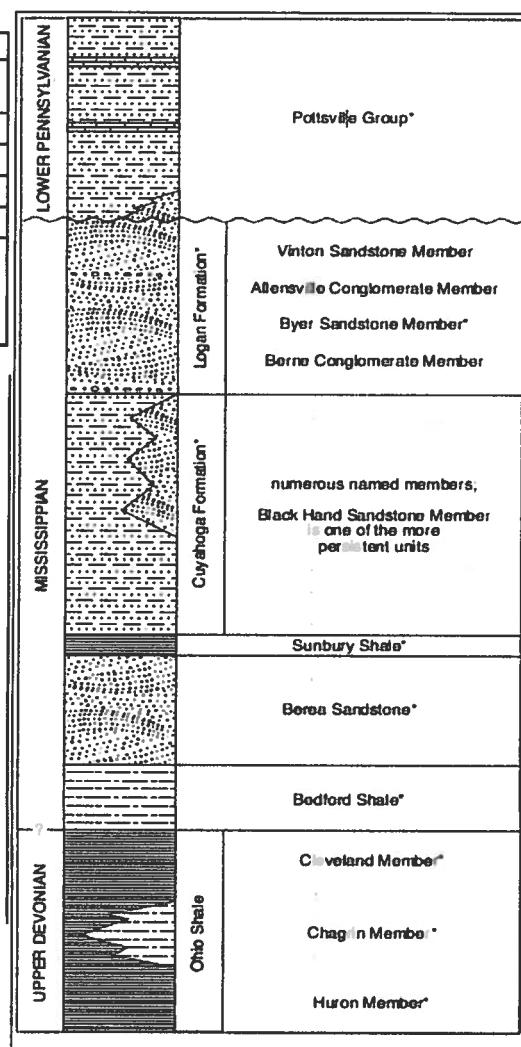
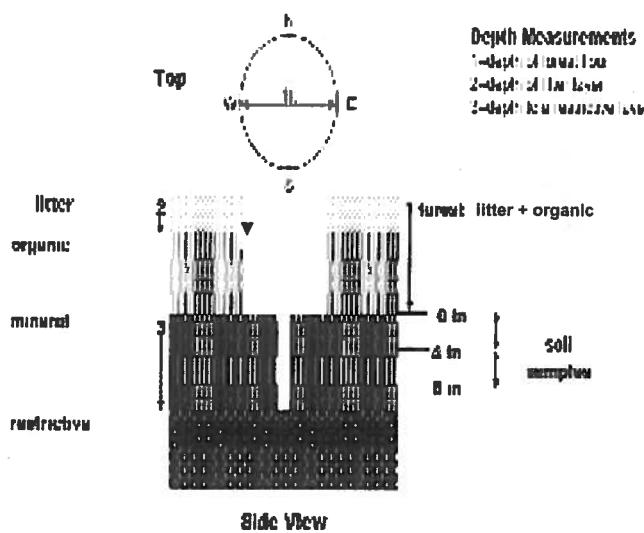


FIGURE 3-20.—Generalized section of Upper Devonian, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses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

## FORM B-1: BUFFER SAMPLE PLOTS (Front)

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

Site ID: PCAPBC3500

DATE: 08/19/2013

Location:

AA Center ON OS OE OW

Fill in bubble(s) if plot(s) could not be sampled and flag →

Plot 1 Plot 2 Plot 3

## Buffer Natural Cover Strata

Fill in bubbles for all that apply: Canopy Type: D = Deciduous; E = Evergreen. Leaf Type: B = Broadleaf, N = Needle Leaf. Absent: No tree canopy.

Strata Section: Fill in appropriate cover class bubble for each strata type for each plot. 0 = Absent; 1 = Sparse(&lt;10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (&gt;75%)

Buffer Plot 1	Canopy Type: D		Absent: 0	Buffer Plot 2	Canopy Type: D		Absent: 0	Buffer Plot 3	Canopy Type: D		Absent: 0		
	Leaf Type: B	N	Flag		Leaf Type: B	N	Flag		Leaf Type: B	N	Flag		
Big Trees (>0.3m DBH)	1	0	2	3	4			Big Trees (>0.3m DBH)	0	1	2	3	4
Small Trees (<0.3m DBH)	0	1	2	1	0	4		Small Trees (<0.3m DBH)	0	1	2	3	4
Woody Shrubs, Saplings (0.5m-5m HIGH)	0	1	4	3	0			Woody Shrubs, Saplings (0.5m-5m HIGH)	0	1	2	3	4
Woody Shrubs, Saplings (<0.5m HIGH)	0	1	2	3	4			Woody Shrubs, Saplings (<0.5m HIGH)	0	1	2	3	4
Herbs, Forbs and Grasses	0	1	2	3	4			Herbs, Forbs and Grasses	0	1	2	3	4
Bare ground	0	1	2	3	1			Bare ground	0	1	2	3	4
Litter, duff	0	1	2	3	4			Litter, duff	0	1	2	3	4
Rock	0	1	2	3	4			Rock	0	1	2	3	4
Water	0	1	2	3	4			Water	0	1	2	3	4
Submerged Vegetation	0	1	2	3	4			Submerged Vegetation	0	1	2	3	4

Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this bubble. 

Residential and Urban Stressors				Hydrology Stressors				Agricultural & Rural Stressors							
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	
Road - gravel	0	0	0		Ditches, Channelization	0	0	0		Pasture/Hay	0	0	0		
Road - two lane	0	0	0		Dike/Dam/Road/RR Bed (IMPEDE FLOW)	0	0	0		Range	0	0	0		
Road - four lane	0	0	0		Water Level Control Structure	0	0	0		Row Crops	0	0	0		
Parking Lot/Pavement	0	0	0		Excavation, Dredging	0	0	0		Fallow Field (RECENT-RESTING ROW CROP FIELD)	0	0	0		
Golf Course	0	0	0		Fill/Spoil Banks	0	0	0		Fallow Field (OLD - GRASS, SHRUBS, TREES)	0	0	0		
Lawn/Park	0	0	0		Freshly Deposited Sediment (UNVEGETATED)	0	0	0		Nursery	0	0	0		
Suburban Residential	0	0	0		Soil Loss/Root Exposure	1	0	0		Dairy	0	0	0		
Urban/Multifamily	0	0	0		Wall/Riprap	0	0	0		Orchard	0	0	0		
Landfill	0	0	0		Inlets, Outlets	0	0	0		Confined Animal Feeding	0	0	0		
Dumping	0	0	0		Point Source/Pipe (EFFLUENT OR STORMWATER)	0	0	0		Rural Residential	0	0	0		
Trash	1	0	0		Impervious surface input (SHEETFLOW)	0	0	0		Gravel Pit	0	0	0		
Other: _____	0	0	0		Other: _____	0	0	0		Irrigation	0	0	0		
Other: _____	0	0	0		Other: _____	0	0	0		Other: _____	0	0	0		

Industrial Development Stressors				Habitat/Vegetation Stressors											
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	
Oil Drilling	0	0	0		Forest Clear Cut	0	0	0		Herbicide Use	1	0	0		
Gas Wells	0	0	0		Forest Selective Cut	0	0	0		Mowing/Shrub Cutting	0	0	0		
Mine (surface)	0	0	0		Tree Plantation	0	0	0		Trails	0	0	0		
Mine (underground)	0	0	0		Tree Canopy Herbivory (INSECT)	0	0	0		Soil Compaction (ANIMAL OR HUMAN)	0	0	0		
Military	0	0	0		Shrub Layer Browsed (WILD OR DOMESTIC)	0	0	0		Offroad vehicle damage	0	0	0		
Other: _____	0	0	0		Highly Grazed Grasses (OVERALL < HIGH)	0	0	0		Soil erosion (FROM WIND, WATER, OR OVERUSE)	1	0	0		
Other: _____	0	0	0		Recently Burned Forest Canopy	0	0	0		Other: _____	0	0	0		
Other: _____	0	0	0		Recently Burned Grassland (BLACKENED)	0	0	0		Other: _____	0	0	0		

Flag codes: K = No measurement made, U = Suspect measurement., F1,F2, etc. = misc. flags assigned by each field crew.

Explain all flags in comment section on the back of this form

2428168304

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

Reviewed by (initials):

Site ID: FCMPK3500

DATE: 08 / 19 / 2013

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

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

## PLOT COORDINATES

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

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

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

### Flag

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

Latitude North 41°41'50"

Longitude West 081.75539

**Use Decimal Degrees: NAD83**

## FORM B-1: BUFFER SAMPLE PLOTS (Front)

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

Site ID:

PCAP BC 3500

DATE: 08/19/2013

Location:

O AA Center O N O S O E O W

Fill in bubble(s) if plot(s) could not be sampled and flag →

O Plot 1 O Plot 2 O Plot 3

## Buffer Natural Cover Strata

Fill in bubbles for all that apply: Canopy Type: D = Deciduous; E = Evergreen. Leaf Type: B = Broadleaf, N = Needle Leaf. Absent: No tree canopy.

Strata Section: Fill in appropriate cover class bubble for each strata type for each plot. 0 = Absent; 1 = Sparse(&lt;10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (&gt;75%)

Buffer Plot 1	Canopy Type: D E		Absent: 0	Buffer Plot 2	Canopy Type: D E		Absent: 0	Buffer Plot 3	Canopy Type: D E		Absent: 0
	Leaf Type: B N	Flag	Leaf Type: B N		Leaf Type: B N	Flag	Leaf Type: B N		Leaf Type: B N	Flag	
Big Trees (>0.3m DBH)	0 1 2 3 4		Big Trees (>0.3m DBH)	0 1 2 3 4		Big Trees (>0.3m DBH)	0 1 2 3 4		Big Trees (>0.3m DBH)	0 1 2 3 4	
Small Trees (<0.3m DBH)	0 1 2 3 4		Small Trees (<0.3m DBH)	0 1 2 3 4		Small Trees (<0.3m DBH)	0 1 2 3 4		Small Trees (<0.3m DBH)	0 1 2 3 4	
Woody Shrubs, Saplings (0.5m-5m HIGH)	0 1 2 3 4		Woody Shrubs, Saplings (0.5m-5m HIGH)	0 1 2 3 4		Woody Shrubs, Saplings (0.5m-5m HIGH)	0 1 2 3 4		Woody Shrubs, Saplings (0.5m-5m HIGH)	0 1 2 3 4	
Woody Shrubs, Saplings (<0.5m HIGH)	0 1 2 3 4		Woody Shrubs, Saplings (<0.5m HIGH)	0 1 2 3 4		Woody Shrubs, Saplings (<0.5m HIGH)	0 1 2 3 4		Woody Shrubs, Saplings (<0.5m HIGH)	0 1 2 3 4	
Herbs, Forbs and Grasses	0 1 2 3 4		Herbs, Forbs and Grasses	0 1 2 3 4		Herbs, Forbs and Grasses	0 1 2 3 4		Herbs, Forbs and Grasses	0 1 2 3 4	
Bare ground	0 1 2 3 4		Bare ground	0 1 2 3 4		Bare ground	0 1 2 3 4		Bare ground	0 1 2 3 4	
Litter, duff	0 1 2 3 4		Litter, duff	0 1 2 3 4		Litter, duff	0 1 2 3 4		Litter, duff	0 1 2 3 4	
Rock	0 1 2 3 4		Rock	0 1 2 3 4		Rock	0 1 2 3 4		Rock	0 1 2 3 4	
Water	0 1 2 3 4		Water	0 1 2 3 4		Water	0 1 2 3 4		Water	0 1 2 3 4	
Submerged Vegetation	0 1 2 3 4		Submerged Vegetation	0 1 2 3 4		Submerged Vegetation	0 1 2 3 4		Submerged Vegetation	0 1 2 3 4	

Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this bubble

Residential and Urban Stressors				Hydrology Stressors				Agricultural & Rural Stressors							
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	
Road - gravel	0	0	0		Ditches, Channelization	0	0	0		Pasture/Hay	0	0	0		
Road - two lane	0	0	0		Dike/Dam/Road/RR Bed (IMPEDE FLOW)	0	0	0		Range	0	0	0		
Road - four lane	0	0	0		Water Level Control Structure	0	0	0		Row Crops	0	0	0		
Parking Lot/Pavement	0	0	0		Excavation, Dredging	0	0	0		Fallow Field (RECENT-RESTING ROW CROP FIELD)	0	0	0		
Golf Course	0	0	0		Fill/Spoil Banks	0	0	0		Fallow Field (OLD - GRASS, SHRUBS, TREES)	0	0	0		
Lawn/Park	0	0	0		Freshly Deposited Sediment (UNVEGETATED)	0	0	0		Nursery	0	0	0		
Suburban Residential	0	0	0	1	Soil Loss/Root Exposure	0	0	0		Dairy	0	0	0		
Urban/Multifamily	0	0	0		Wall/Riprap	0	0	0		Orchard	0	0	0		
Landfill	0	0	0		Inlets, Outlets	0	0	0		Confined Animal Feeding	0	0	0		
Dumping	0	0	0		Point Source/Pipe (EFFLUENT OR STORMWATER)	0	0	0		Rural Residential	0	0	0		
Trash	0	0	0		Impervious surface input (SHEETFLOW)	0	0	0		Gravel Pit	0	0	0		
Other: _____	0	0	0		Other: _____	0	0	0		Irrigation	0	0	0		
Other: _____	0	0	0		Other: _____	0	0	0		Other: _____	0	0	0		

Industrial Development Stressors				Habitat/Vegetation Stressors											
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	
Oil Drilling	0	0	0		Forest Clear Cut	0	0	0		Herbicide Use	0	0	0		
Gas Wells	0	0	0		Forest Selective Cut	0	0	0		Mowing/Shrub Cutting	0	0	0		
Mine (surface)	0	0	0		Tree Plantation	0	0	0		Trails	0	0	0		
Mine (underground)	0	0	0		Tree Canopy Herbivory (INSECT)	0	0	0		Soil Compaction (ANIMAL OR HUMAN)	0	0	0		
Military	0	0	0		Shrub Layer Browsed (WILD OR DOMESTIC)	0	0	0		Offroad vehicle damage	0	0	0		
Other: _____	0	0	0		Highly Grazed Grasses (OVERALL <3" HIGH)	0	0	0		Soil erosion (FROM WIND, WATER, OR OVERUSE)	0	0	0		
Other: _____	0	0	0		Recently Burned Forest Canopy	0	0	0		Other: _____	0	0	0		
Other: _____	0	0	0		Recently Burned Grassland (BLACKENED)	0	0	0		Other: _____	0	0	0		

Flag codes: K = No measurement made, U = Suspect measurement., F1,F2, etc. = misc. flags assigned by each field crew.

Explain all flags in comment section on the back of this form

2428168304

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

Reviewed by (Initials): \_\_\_\_\_

Site ID: PCAP BC 3500

DATE: 08/19/2013

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

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

## **PLOT COORDINATES**

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

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

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

**Flag**

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

Latitude North 41.41261

Longitude West 081.75553

Use Decimal Degrees: NAD83

Buffer Sample Points - Targeted Alien Species 05/27/2011

7966623548

## FORM B-1: BUFFER SAMPLE PLOTS (Front)

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

Site ID: PRAP BC 3500

DATE: 08/19/2013

Location:	Fill in bubble(s) if plot(s) could not be sampled and flag →				
<input type="radio"/> AA Center	<input type="radio"/> N	<input type="radio"/> OS	<input type="radio"/> E	<input type="radio"/> W	<input type="radio"/> Plot 1 <input type="radio"/> Plot 2 <input type="radio"/> Plot 3

## Buffer Natural Cover Strata

Fill in bubbles for all that apply: Canopy Type: D = Deciduous; E = Evergreen. Leaf Type: B = Broadleaf; N = Needle Leaf. Absent: No tree canopy.

Strata Section: Fill in appropriate cover class bubble for each strata type for each plot. 0 = Absent; 1 = Sparse(&lt;10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (&gt;75%)

Buffer Plot 1	Canopy Type: <input type="radio"/> D <input type="radio"/> E		Absent: <input type="radio"/>	Buffer Plot 2	Canopy Type: <input type="radio"/> D <input type="radio"/> E		Absent: <input type="radio"/>	Buffer Plot 3	Canopy Type: <input type="radio"/> D <input type="radio"/> E		Absent: <input type="radio"/>
	Leaf Type: <input type="radio"/> B <input type="radio"/> N		Flag		Leaf Type: <input type="radio"/> B <input type="radio"/> N		Flag		Leaf Type: <input type="radio"/> B <input type="radio"/> N		Flag
Big Trees (>0.3m DBH)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Big Trees (>0.3m DBH)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Big Trees (>0.3m DBH)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4
Small Trees (<0.3m DBH)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> 1 <input type="radio"/> 3 <input type="radio"/> 4	Small Trees (<0.3m DBH)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Small Trees (<0.3m DBH)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> 1 <input type="radio"/> 3 <input type="radio"/> 4
Woody Shrubs, Saplings (0.5m-5m HIGH)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 5 <input type="radio"/> 4	Woody Shrubs, Saplings (0.5m-5m HIGH)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 5 <input type="radio"/> 4	Woody Shrubs, Saplings (0.5m-5m HIGH)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 5 <input type="radio"/> 4
Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4
Herbs, Forbs and Grasses	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Herbs, Forbs and Grasses	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Herbs, Forbs and Grasses	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4
Bare ground	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Bare ground	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Bare ground	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4
Litter, duff	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Litter, duff	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Litter, duff	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4
Rock	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Rock	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Rock	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4
Water	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Water	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Water	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4
Submerged Vegetation	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Submerged Vegetation	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Submerged Vegetation	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4

Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this bubble. 

Residential and Urban Stressors				Hydrology Stressors				Agricultural & Rural Stressors				Flag
Fill bubble if present - Plot	1	2	3	Fill bubble if present - Plot	1	2	3	Fill bubble if present - Plot	1	2	3	Flag
Road - gravel	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Ditches, Channelization	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Pasture/Hay	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Road - two lane	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Dike/Dam/Road/RR Bed (IMPEDE FLOW)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Range	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Road - four lane	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Water Level Control Structure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Row Crops	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Parking Lot/Pavement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excavation, Dredging	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Fallow Field (RECENT RESTING ROW CROP FIELD)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Golf Course	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Fill/Spoil Banks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Fallow Field (OLD - GRASS, SHRUBS, TREES)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Lawn/Park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Freshly Deposited Sediment (UNVEGETATED)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Nursery	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Suburban Residential	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil Loss/Root Exposure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Dairy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Urban/Multifamily	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Wall/Riprap	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Orchard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Landfill	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Inlets, Outlets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Confined Animal Feeding	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Dumping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Point Source/Pipe (EFFLUENT OR STORMWATER)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Rural Residential	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Trash	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Impervious surface input (SHEETFLOW)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Gravel Pit	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Irrigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Industrial Development Stressors				Habitat/Vegetation Stressors								Flag
Fill bubble if present - Plot	1	2	3	Fill bubble if present - Plot	1	2	3	Fill bubble if present - Plot	1	2	3	Flag
Oil Drilling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Forest Clear Cut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Herbicide Use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Gas Wells	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Forest Selective Cut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Mowing/Shrub Cutting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Mine (surface)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Tree Plantation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Trails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Mine (underground)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Tree Canopy Herbivory (INSECT)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil Compaction (ANIMAL OR HUMAN)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Military	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Shrub Layer Browsed (WILD OR DOMESTIC)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Offroad vehicle damage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Highly Grazed Grasses (OVERALL <3" HIGH)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil erosion (FROM WIND, WATER, OR OVERUSE)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Recently Burned Forest Canopy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Recently Burned Grassland (BLACKENED)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Flag codes: K = No measurement made, U = Suspect measurement. F1, F2, etc. = misc. flags assigned by each field crew.

Explain all flags in comment section on the back of this form

2428168304

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

Use Decimal Degrees; NAD83

Latitude North **41 41 19.0** Longitude West **081 75 39.1**

Location of coordinates (choose one):  
 AA CENTER  N3  S3  E3  W3  Nearest practicable location (flag and comment below)

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 either placed as close to 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 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.

## 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
<input type="radio"/> Eurasian Watermilfoil	<input type="radio"/> <input type="radio"/> <input type="radio"/>	Purple Loosestrife	<input type="radio"/> <input type="radio"/> <input type="radio"/>	Johnson Grass	<input type="radio"/> <input type="radio"/> <input type="radio"/>				<input type="radio"/> <input type="radio"/> <input type="radio"/>		
<input type="radio"/> Water Hyacinth	<input type="radio"/> <input type="radio"/> <input type="radio"/>	Knotweed	<input type="radio"/> <input type="radio"/> <input type="radio"/>	Kudzu	<input type="radio"/> <input type="radio"/> <input type="radio"/>				<input type="radio"/> <input type="radio"/> <input type="radio"/>		
<input type="radio"/> 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	<input type="radio"/> <input type="radio"/> <input type="radio"/>				<input type="radio"/> <input type="radio"/> <input type="radio"/>		
<input type="radio"/> Giant Salsina	<input type="radio"/> <input type="radio"/> <input type="radio"/>	Perennial Pepperweed	<input type="radio"/> <input type="radio"/> <input type="radio"/>	Common Buckthorn	<input type="radio"/> <input type="radio"/> <input type="radio"/>				<input type="radio"/> <input type="radio"/> <input type="radio"/>		
<input type="radio"/> Garlic Mustard	<input type="radio"/> <input type="radio"/> <input type="radio"/>	Giant Reed	<input type="radio"/> <input type="radio"/> <input type="radio"/>	Himalayan Blackberry	<input type="radio"/> <input type="radio"/> <input type="radio"/>				<input type="radio"/> <input type="radio"/> <input type="radio"/>		
<input type="radio"/> Pisonia Hemlock	<input type="radio"/> <input type="radio"/> <input type="radio"/>	Chenopodium	<input type="radio"/> <input type="radio"/> <input type="radio"/>	Tamansk	<input type="radio"/> <input type="radio"/> <input type="radio"/>				<input type="radio"/> <input type="radio"/> <input type="radio"/>		
<input type="radio"/> Mile-A-Minute Weed	<input type="radio"/> <input type="radio"/> <input type="radio"/>	Reed Canary Grass	<input type="radio"/> <input type="radio"/> <input type="radio"/>	Other	<input type="radio"/> <input type="radio"/> <input type="radio"/>				<input type="radio"/> <input type="radio"/> <input type="radio"/>		
<input type="radio"/> Birdfoot Trefoil	<input type="radio"/> <input type="radio"/> <input type="radio"/>	Common Reed	<input type="radio"/> <input type="radio"/> <input type="radio"/>	Leather Sphagnum	<input type="radio"/> <input type="radio"/> <input type="radio"/>				<input type="radio"/> <input type="radio"/> <input type="radio"/>		
<input type="radio"/> Canada Thistle	<input type="radio"/> <input type="radio"/> <input type="radio"/>			Other	<input type="radio"/> <input type="radio"/> <input type="radio"/>				<input type="radio"/> <input type="radio"/> <input type="radio"/>		

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

Site ID: **08/19/2013** DATE: **08/19/2013**

Reviewed by (initials):

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

# FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initials): \_\_\_\_\_

Site ID: PCAP RC 3000

DATE: 08/19/2013

Location:

AA Center  N  S  E  W

Fill in bubble(s) if plot(s) could not be sampled and flag →

Plot 1  Plot 2  Plot 3

## Buffer Natural Cover Strata

Fill in bubbles for all that apply: Canopy Type: D = Deciduous; E = Evergreen. Leaf Type: B = Broadleaf; N = Needle Leaf. Absent: No tree canopy.

Strata Section: Fill in appropriate cover class bubble for each strata type for each plot. 0 = Absent; 1 = Sparse(<10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (>75%)

Buffer Plot 1	Canopy Type: <input type="radio"/> D <input type="radio"/> E		Absent: <input type="radio"/>	Buffer Plot 2	Canopy Type: <input type="radio"/> D <input type="radio"/> E		Absent: <input type="radio"/>	Buffer Plot 3	Canopy Type: <input type="radio"/> D <input type="radio"/> E		Absent: <input type="radio"/>			
	Leaf Type: <input type="radio"/> B <input type="radio"/> N				Leaf Type: <input type="radio"/> B <input type="radio"/> N				Leaf Type: <input type="radio"/> B <input type="radio"/> N					
Big Trees (>0.3m DBH)	<input type="radio"/> 0	<input type="radio"/> 1	<input checked="" type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4				Big Trees (>0.3m DBH)	<input type="radio"/> 0	<input type="radio"/> 1	<input checked="" type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4
Small Trees (<0.3m DBH)	<input type="radio"/> 0	<input type="radio"/> 1	<input checked="" type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4				Small Trees (<0.3m DBH)	<input type="radio"/> 0	<input type="radio"/> 1	<input checked="" type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4
Woody Shrubs, Saplings (0.5m-5m HIGH)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4				Woody Shrubs, Saplings (0.5m-5m HIGH)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4
Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4				Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4
Herbs, Forbs and Grasses	<input type="radio"/> 0	<input type="radio"/> 1	<input checked="" type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4				Herbs, Forbs and Grasses	<input type="radio"/> 0	<input type="radio"/> 1	<input checked="" type="radio"/> 2	<input type="radio"/> 3	<input checked="" type="radio"/> 4
Bare ground	<input type="radio"/> 0	<input type="radio"/> 1	<input checked="" type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4				Bare ground	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4
Litter, duff	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4				Litter, duff	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4
Rock	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4				Rock	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4
Water	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4					Water	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4
Submerged Vegetation	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4					Submerged Vegetation	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4

**Stressor Presence/Absence** - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this bubble.

Residential and Urban Stressors				Hydrology Stressors				Agricultural & Rural Stressors							
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	
Road - gravel	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Ditches, Channelization	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Pasture/Hay	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		
Road - two lane	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Dike/Dam/Road/RR Bed (IMPEDE FLOW)	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Range	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		
Road - four lane	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Water Level Control Structure	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Row Crops	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		
Parking Lot/Pavement	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Excavation, Dredging	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Fallow Field (RECENT-RESTING ROW CROP FIELD)	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		
Golf Course	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Fill/Spoil Banks	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Fallow Field (OLD - GRASS, SHRUBS, TREES)	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		
Lawn/Park	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Freshly Deposited Sediment (UNVEGETATED)	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Nursery	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		
Suburban Residential	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3		Soil Loss/Root Exposure	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Dairy	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		
Urban/Multifamily	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Wall/Riprap	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Orchard	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		
Landfill	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Inlets, Outlets	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Confined Animal Feeding	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		
Dumping	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3		Point Source/Pipe (EFFLUENT OR STORMWATER)	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Rural Residential	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		
Trash	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3		Impervious surface input (SHEETFLOW)	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Gravel Pit	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		
Other: _____	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Other: _____	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Irrigation	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		
Other: _____	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Other: _____	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Other: _____	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		

Industrial Development Stressors				Habitat/Vegetation Stressors											
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	
Oil Drilling	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Forest Clear Cut	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Herbicide Use	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		
Gas Wells	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Forest Selective Cut	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Mowing/Shrub Cutting	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		
Mine (surface)	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Tree Plantation	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Trails	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		
Mine (underground)	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Tree Canopy Herbivory (INSECT)	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Soil Compaction (ANIMAL OR HUMAN)	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		
Military	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Shrub Layer Browsed (WILD OR DOMESTIC)	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3		Offroad vehicle damage	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		
Other: _____	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Highly Grazed Grasses (OVERALL <3" HIGH)	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Soil erosion (FROM WIND, WATER, OR OVERUSE)	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		
Other: _____	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Recently Burned Forest Canopy	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Other: _____	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		
Other: _____	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Recently Burned Grassland (BLACKENED)	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		Other: _____	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2		

Flag codes: K = No measurement made, U = Suspect measurement, F1,F2, etc. = misc. flags assigned by each field crew.

Explain all flags in comment section on the back of this form

2428168304



## FORM B-1: BUFFER SAMPLE PLOTS (Front)

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

Site ID: PLAPBC 2013 3500DATE: 08/19/2013

Location:

O AA Center O N O S O E O W

Fill in bubble(s) if plot(s) could not be sampled and flag →

O Plot 1 O Plot 2 O Plot 3

1

## Buffer Natural Cover Strata

Fill in bubbles for all that apply: Canopy Type: D = Deciduous; E = Evergreen. Leaf Type: B = Broadleaf; N = Needle Leaf. Absent: No tree canopy.

Strata Section: Fill in appropriate cover class bubble for each strata type for each plot. 0 = Absent; 1 = Sparse(&lt;10%); 2 = Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (&gt;75%)

Buffer Plot 1	Canopy Type: D E		Absent: <input type="radio"/>	Buffer Plot 2	Canopy Type: D E		Absent: <input type="radio"/>	Buffer Plot 3	Canopy Type: D E		Absent: <input type="radio"/>
	Leaf Type: B	N	Flag		Leaf Type: B	N	Flag		Leaf Type: B	N	Flag
Big Trees (>0.3m DBH)	<input type="radio"/>	<input type="radio"/>	1	<input type="radio"/>	<input type="radio"/>	2	<input type="radio"/>	3	<input type="radio"/>	4	
Small Trees (<0.3m DBH)	<input type="radio"/>	<input type="radio"/>	1	<input type="radio"/>	<input type="radio"/>	2	<input type="radio"/>	3	<input type="radio"/>	4	
Woody Shrubs, Saplings (0.5m-5m HIGH)	<input type="radio"/>	<input type="radio"/>	1	<input type="radio"/>	<input type="radio"/>	2	<input type="radio"/>	3	<input type="radio"/>	4	
Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/>	<input type="radio"/>	1	<input type="radio"/>	<input type="radio"/>	2	<input type="radio"/>	3	<input type="radio"/>	4	
Herbs, Forbs and Grasses	<input type="radio"/>	<input type="radio"/>	1	<input type="radio"/>	<input type="radio"/>	2	<input type="radio"/>	3	<input type="radio"/>	4	
Bare ground	<input type="radio"/>	<input type="radio"/>	1	<input type="radio"/>	<input type="radio"/>	2	<input type="radio"/>	3	<input type="radio"/>	4	
Litter, duff	<input type="radio"/>	<input type="radio"/>	1	<input type="radio"/>	<input type="radio"/>	2	<input type="radio"/>	3	<input type="radio"/>	4	
Rock	<input type="radio"/>	<input type="radio"/>	1	<input type="radio"/>	<input type="radio"/>	2	<input type="radio"/>	3	<input type="radio"/>	4	
Water	<input type="radio"/>	<input type="radio"/>	1	<input type="radio"/>	<input type="radio"/>	2	<input type="radio"/>	3	<input type="radio"/>	4	
Submerged Vegetation	<input type="radio"/>	<input type="radio"/>	1	<input type="radio"/>	<input type="radio"/>	2	<input type="radio"/>	3	<input type="radio"/>	4	
Submerged Vegetation	<input type="radio"/>	<input type="radio"/>	1	<input type="radio"/>	<input type="radio"/>	2	<input type="radio"/>	3	<input type="radio"/>	4	

Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this bubble. 

Residential and Urban Stressors					Hydrology Stressors					Agricultural & Rural Stressors				
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
Road - gravel	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Ditches, Channelization	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Pasture/Hay	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Road - two lane	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Dike/Dam/Road/RR Bed (IMPEDE FLOW)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Range	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Road - four lane	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Water Level Control Structure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Row Crops	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Parking Lot/Pavement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Excavation, Dredging	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Fallow Field (RECENT-RESTING ROW CROP FIELD)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Golf Course	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Fill/Spoil Banks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Fallow Field (OLD - GRASS, SHRUBS, TREES)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Lawn/Park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Freshly Deposited Sediment (UNVEGETATED)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Nursery	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Suburban Residential	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Soil Loss/Root Exposure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Dairy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Urban/Multifamily	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Wall/Riprap	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Orchard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Landfill	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Inlets, Outlets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Confined Animal Feeding	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Dumping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Point Source/Pipe (EFFLUENT OR STORMWATER)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Rural Residential	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Trash	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Impervious surface input (SHEETFLOW)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Gravel Pit	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Irrigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Industrial Development Stressors					Habitat/Vegetation Stressors									
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
Oil Drilling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Forest Clear Cut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Herbicide Use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Gas Wells	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Forest Selective Cut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Mowing/Shrub Cutting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Mine (surface)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Tree Plantation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Trails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Mine (underground)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Tree Canopy Herbivory (INSECT)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Soil Compaction (ANIMAL OR HUMAN)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Military	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Shrub Layer Browsed (WILD OR DOMESTIC)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Offroad vehicle damage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Highly Grazed Grasses (OVERALL <3" HIGH)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Soil erosion (FROM WIND, WATER, OR OVERUSE)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Recently Burned Forest Canopy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Recently Burned Grassland (BLACKENED)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Flag codes: K = No measurement made, U = Suspect measurement, F1,F2, etc. = misc. flags assigned by each field crew.

Explain all flags in comment section on the back of this form

2428168304

Buffer Sample Plots 05/27/2011

rose, pavet, glassy, bushy

