

CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form

Project Label:

PCAP

Plot No: 1209

Date Sampled: 6/22/12



Lead: B. Ricker

Comment required if item answer is NO

Parking/Access outside of Park Boundaries:	<input checked="" type="radio"/> Y <input type="radio"/> N	If yes, write details in Comments section below
Field journals completed	<input checked="" type="radio"/> Y <input type="radio"/> N	
Site sketch made on 1:3000 map?	<input checked="" type="radio"/> Y <input type="radio"/> N	
Check cover page	X-axis Bearing of plot recorded	<input checked="" type="radio"/> Y <input type="radio"/> N
	GPS coords. Recorded	<input checked="" type="radio"/> Y <input type="radio"/> N
	North direction recorded	<input checked="" type="radio"/> Y <input type="radio"/> N
	Photographs taken?	<input checked="" type="radio"/> Y <input type="radio"/> N
Plot No., Date agreement on all pages?	<input checked="" type="radio"/> Y <input type="radio"/> N	
Header data completed all pages?	<input checked="" type="radio"/> Y <input type="radio"/> N	
Cover classes recorded in all Intensive modules	<input checked="" type="radio"/> Y <input type="radio"/> N	
Browse Level By Species	<input checked="" type="radio"/> Y <input type="radio"/> N	
Woody stem quality control check	<input checked="" type="radio"/> Y <input type="radio"/> N	
Invasive plant quality control check	<input checked="" type="radio"/> Y <input type="radio"/> N	
Ash trees mapped	<input checked="" type="radio"/> Y <input type="radio"/> N	
Cover by Strata? (confirm cover type)	<input checked="" type="radio"/> Y <input type="radio"/> N	
Soil samples collected with matching plot #.	<input checked="" type="radio"/> Y <input type="radio"/> N	
Vouchers labeled on datasheet with initials and number	<input checked="" type="radio"/> Y <input type="radio"/> N	
Vouchers labeled on collection bag	<input checked="" type="radio"/> Y <input type="radio"/> N	
Pink flags removed	<input checked="" type="radio"/> Y <input type="radio"/> N	
Data sheet QA before leaving site?	<input checked="" type="radio"/> Y <input type="radio"/> N	
Common equipment returned to tub.	<input checked="" type="radio"/> Y <input type="radio"/> N	
Data sheets scanned?	<input checked="" type="radio"/> Y <input type="radio"/> N	6-22-12 Enter date to left <i>N7</i>
Final data sheets scanned?	<input checked="" type="radio"/> Y <input type="radio"/> N	Enter date to left
Buffer Widths measured?	<input checked="" type="radio"/> Y <input type="radio"/> N	<i>JP 6-22-12</i>
Web Soil Survey	<input checked="" type="radio"/> Y <input type="radio"/> N	<i>AY 6-21-2012</i>
Voucher Location	Refrigerator	<input checked="" type="radio"/> Y <input type="radio"/> N
(# vouchers collected)	Press (#)	Enter number to left
<i>6 12015 - RD2020</i>	Drier	<input checked="" type="radio"/> Y <input type="radio"/> N
	Identified	<input checked="" type="radio"/> Y <input type="radio"/> N
	Mounted	<input checked="" type="radio"/> Y <input type="radio"/> N
	Thrown away	<input checked="" type="radio"/> Y <input type="radio"/> N

GRTS point verification: Is plot sampleable?

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

Additional Comments:

Park at Strawberry Pond picnic area. Walk across Buttermilk Phwy to APT and over to the bridle trail

Wheat field
After rain
Wheat field
After rain

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

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Page 1 of 2

GENERAL INFORMATION		LOCATION		
Project Label: PCAP		State: OH County: Cuyahoga		
Project Name: <u>D1152012</u>		Plot Name: <u>Thank God It's Sunday</u>		
Plot No.: <u>1209</u>		Local Place Names: <u>East of Bittermill Creek</u> <u>Hwy near Streamside Pond</u>		
Date (mm/dd/yyyy): <u>06/19/12</u>		Landowner: CM		
End date (if > 1 day): / /		Data Confidentiality: To be determined from plot		
Party	Role**	Check one: <input checked="" type="checkbox"/> Public data <input type="checkbox"/> Private Data		
<u>B. H. Rutter</u>	Plot Leader	<input type="checkbox"/> Fuzz 100m <input type="checkbox"/> Fuzz 250m <input type="checkbox"/> Fuzz 500m		
<u>Mr. Roeth</u>	Plot Ass't	<input type="checkbox"/> Lat/long <input type="checkbox"/> UTM <input type="checkbox"/> StatePlane		
<u>T. Kistler</u>	Field Tech	<input checked="" type="checkbox"/> deg <input type="checkbox"/> deg min		
<u>S. Catello</u>	Field Tech.	<input type="checkbox"/> Other (specify) <input type="checkbox"/> m <input type="checkbox"/> n <input type="checkbox"/>		
		Datum: <input checked="" type="checkbox"/> NAD83/WGS84 <input type="checkbox"/> NAD27		
** Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc.		GPS location in plot x=0 to 5, y=-1,0,+1): x = <u>0</u> y = <u>0</u> (base of plot x=0, y=0)		
PLOT NOT SAMPLED:		<input type="checkbox"/> Other		
□ Perm. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety				
SAMPLING QUALITY*				
Effort Level: <u>Very thorough</u> subjective evaluation of how much effort put into sampling. Hurried plots may still provide good data				
Accuracy: <input type="checkbox"/> Accurate <input type="checkbox"/> Hurred				
TAXONOMIC ACCURACY				
vascul.	high	modera.	low	not suppl
bryo	X		X	n/a
lichen			X	X
TAXONOMIC STANDARD				
Authority:	<u>G&C</u> Pub Date: 1998			

Minimum required fields in Bold and Underlined

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

Reason:
If data not public why?
If data not public why?

Source of coordinates: MAP GPS

Coordinate system: Coord. Units

Lat/long UTM StatePlane

Diagram Key:


 (0,0) point GPS location photo taken, with direction ● location of permanent posts

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

Layout: 2X5

Location: Plot is east of Bridge Apt and in between the Brindle trail and a hiking trail

Rationale: GRTS pt fell at (0,2). Slide plot to stay within the dominant red oak canopy

Plot size for cover data: 0.1 (hectares)

X-axis Bearing of plot: [94] °

Denth: (1-5): 4

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

Camera No.: 3

Photo Nos.: 120-0862

Plot placement: GRTS Representative

Random Stratified Random Transect component

Systematic (grid) Capture specific feature Other

Veg Char: Canopy: Red Oak, Sugar Maple, Basswood, Tulip Tree, Shrub: Beach Sycamore, Honeylocust, Ash, Sassafras, Lindernia, Amelanchier, Serviceberry, Wild Lettuce, Horsetail, Mayapple, Ash seedlings, Wild Lettuce, Quassia, Tree Seedlings, Shrubs

Notes: To be determined from plot
so plot measurements may be off although no accounted for the missing end model piece - due to error

OVER

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Project Label: PCAP

Project Name: CINC 2012

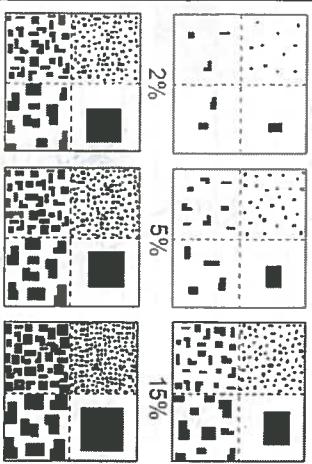
Plot No.: 12009

Page 2 of 2

MODIFIED NATURERESERVE CLASS*		Fit= <input checked="" type="checkbox"/> Conf= <input checked="" type="checkbox"/>	CODE (on separate form): D	
COMMUNITY NAME: Mixed Forest		DISTURBANCES		
		type*	severity**	yrs ago % of plot description
		Human	L	1990 100% Brush
		Natural		28.37% VH
		Fire		
		Cut		28.37% VH
		Animal	ML	200 100% Barse
		Other		
HOMOGENEITY		**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high		
<input checked="" type="checkbox"/> Homogeneous <input type="checkbox"/> Conspicuous inclusions		<input type="checkbox"/> Compositional trend across the plot <input type="checkbox"/> Irregular/pattern mosaic		
HYDROLOGIC REGIME*		Former Land Use: Park		
<input checked="" type="checkbox"/> Upland (seldom flooded) <input type="checkbox"/> Intermittently/seasonally saturated (seidom flooded) <input type="checkbox"/> Permanently/Semipermanent, saturated (dry <1/yr, seldom flooded) <input type="checkbox"/> Occasionally flooded (<1/yr) <input type="checkbox"/> Temporarily flooded <input type="checkbox"/> Unknown		<input type="checkbox"/> Intermittently flooded <input type="checkbox"/> Semipermanently flooded <input type="checkbox"/> Permanently flooded <input type="checkbox"/> Tidal/Seiche flooded daily <input type="checkbox"/> Tidal/Seiche flooded monthly (e.g. wind, storms)		
(by default unless plot is a wetland)				
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)				
<i>There are a few scattered light gaps, but nothing major. The understory in the back焚木 seems to thin with thicker layer of litter.</i>				

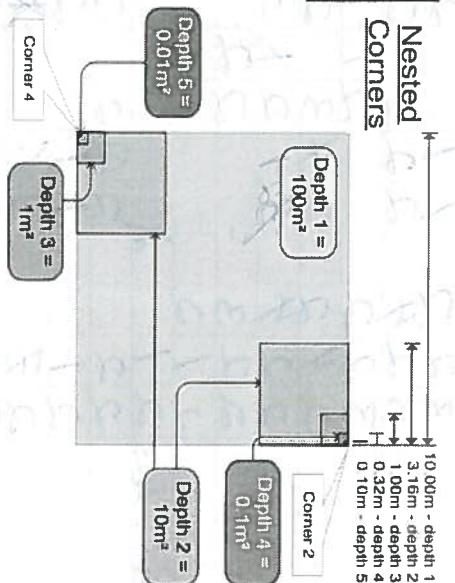
EXAMPLES OF PERCENT OF AREA COVERED

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



cover class	% cover	midpoint
1	solitary or few	0.001
2	0-1%	0.005
3	1-2%	0.015
4	2-5%	0.035
5	5-10%	0.075
6	10-25%	0.175
7	25-50%	0.375
8	50-75%	0.625
9	75-95%	0.850
10	95-100%	0.975

Nested Corners

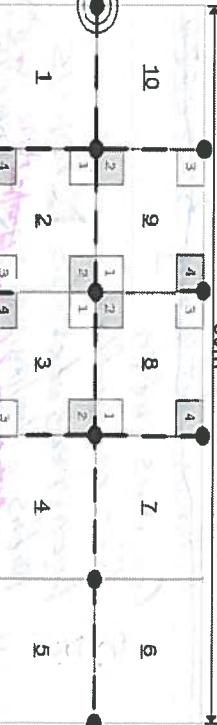


MEDIUM HIGH values include evidence of a browse line and 25 percent of stems browsed with very little vegetation regeneration evident. In this rating, for some species of plants, reproduction does not appear to occur or it is very severely limited.

HIGH: greater than 25 percent of the stems of plants in the 1 m² nested quadrat and intensive module **AND** a browse line is evident.

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

Typical Plot:

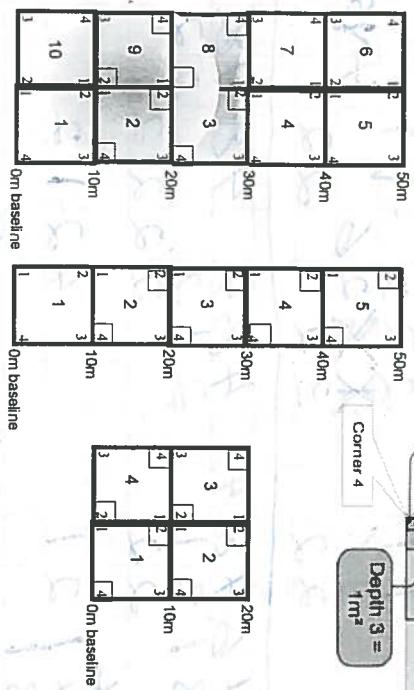


BROWSE RATING NARRATIVE DESCRIPTION

LOW OR NONE: there is no measurable browse line **AND** there are very few or no plants 1-m nested quadrat and intensive module. In general, low values relate to less than 10 percent, by numbers of stems browsed.

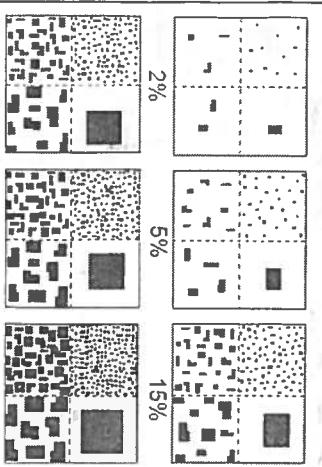
MEDIUM LOW values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse areas.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

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



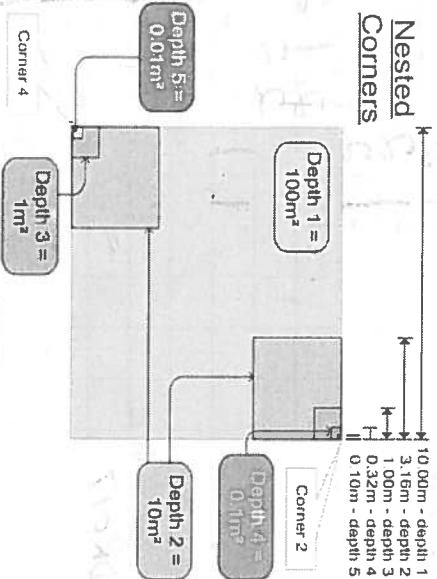
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cover class	% cover	midpoint
1	solitary or few	0.0001
2	0-1%	0.005
3	1-2%	0.015
4	2-5%	0.035
5	5-10%	0.075
6	10-25%	0.175
7	25-50%	0.375
8	50-75%	0.625
9	75-95%	0.850
10	95-100%	0.975

Nested Corners



BROWSE RATING NARRATIVE DESCRIPTION

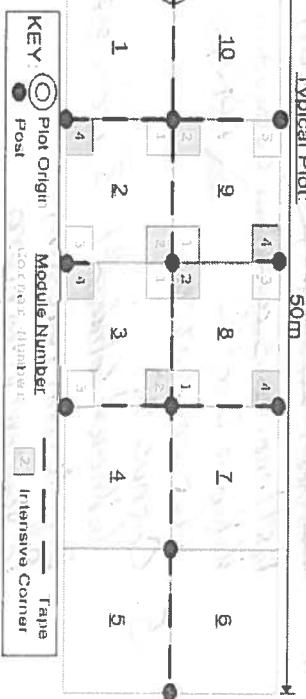
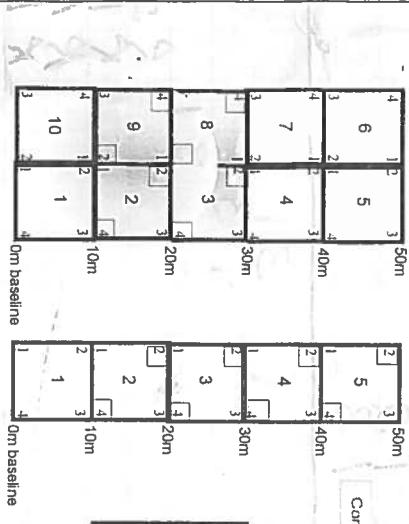
LOW OR NONE: there is no measurable browse line AND there are very few or no plants 1-m nested quadrat and intensive module. In general, low values relate to less than 10 percent, by numbers of stems browsed. **MEDIUM LOW** values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse areas. For example, trilliums may flower and fruit, but jewelweed and arrowwood viburnum exhibit browse.

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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: OINC2012

Plot No.: 1209

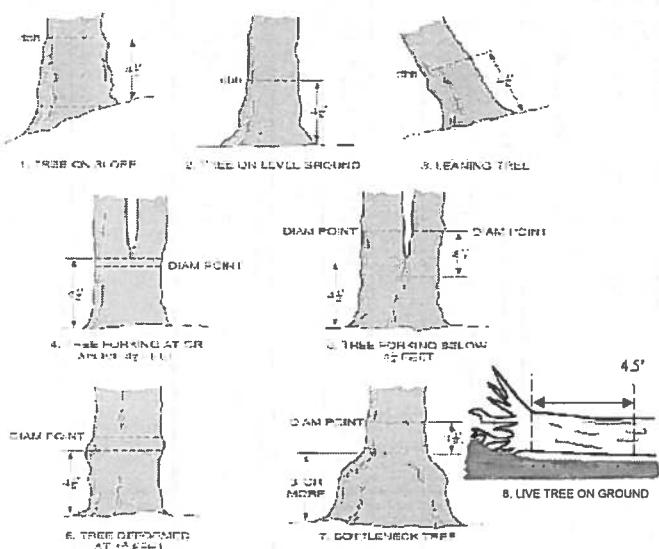
Page: 1 of 3

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Explain subsample (additional room on back):

mod #	species	c	voucher#	browsed sample	# shrub clumps	size class (cm) woody stems >1.4m									>40 (record each tree)	
						1	2	3	4	5	6	7	8	9	10	
✓ 1	<i>Acer saccharum</i>					•	•	•	•	•	•	•	•	•	•	103.9
✓ 1	Standing dead															51.4
✓ 1	<i>Tilia americana</i>															
✓ 1	<i>Fagus grandifolia</i>															
✓ 1	<i>Lindera benzoin</i>			•	5											
✓ 1	<i>Quercus sp.</i>			•												
✓ 1	<i>Fraxinus pennsylvanica</i>			•												
✓ 2	<i>Fraxinus sp.</i>			•												
✓ 2	<i>Acer saccharum</i>			•												
✓ 2	<i>Fagus grandifolia</i>			•												
✓ 2	Standing dead			•												
✓ 2	<i>Prunus pensylvanica</i>			•												49.5
✓ 2	<i>Lindera benzoin</i>			2												
✓ 3	Standing dead			•												54.6
✓ 3	<i>Fagus grandifolia</i>			•												
✓ 3	<i>Acer saccharum</i>			•												
✓ 3	<i>Hamamelis virginiana</i>			•												
✓ 3	<i>Tilia americana</i>			•												
✓ 3	<i>Quercus rubra</i>			•												
✓ 3	<i>Acer rubrum</i>			•												
✓ 3	<i>Smilax rotundifolia</i>		•													85.3
✓ 3	<i>Prunus pensylvanica</i>		•													
✓ 3	<i>Lindera benzoin</i>		1													
✓ 4	<i>Quercus rubra</i>															70.1, 79.1

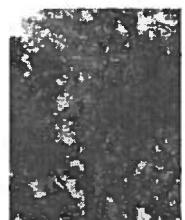
DBH Measurement Rules



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

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



A

B

C

D

E

ASH CANOPY BREAKUP CONDITION (for dead trees):

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

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

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: DINC2012 Plot No.: 1209

Page: 2 of 3

 Cleveland Metroparks

Explain subsample (additional room on back):

mod #	species	c voucher#	# stems 0-1.4m browsed	% sub sample	# shrub clumps	size class (cm) woody stems >1.4m									11 >40 (record each tree)
						1	2	3	4	5	6	7	8	9	
4	<i>Acer saccharum</i>					□	●	●	●	●	●				
4	<i>Amelanchier sp.</i>					●									
5	<i>Quercus rubra</i>														
5	<i>Smilax rotundifolia</i>														
5	<i>Viburnum acerifolium</i>														
5	<i>Acer saccharum</i>					●	●	●	●	●	●	●	●	●	
5	Standing dead					●	●	●	●	●	●	●	●	●	
5	<i>Fagus grandifolia</i>					●	●	●	●	●	●	●	●	●	
5	<i>Carpinus caroliniana</i>					●	●	●	●	●	●	●	●	●	
5	<i>Lindera benzoin</i>					X		1							
6	<i>Acer saccharum</i>					●	●	●	●	●	●	●	●	●	
6	<i>Quercus rubra</i>					●	●	●	●	●	●	●	●	●	
6	<i>Fagus grandifolia</i>					●	●	●	●	●	●	●	●	●	
6	Standing dead					●	●	●	●	●	●	●	●	●	
6	<i>Acer rubrum</i>					●	●	●	●	●	●	●	●	●	
6	<i>Lindera benzoin</i>					X									
6	<i>Prunus serrulata</i>														
7	<i>Quercus rubra</i>														
7	<i>Acer saccharum</i>														
7	Standing dead														
7	<i>Acer rubrum</i>														
7	<i>Lindera benzoin</i>														
7	<i>Fagus grandifolia</i>														
7	<i>Viburnum acerifolium</i>														

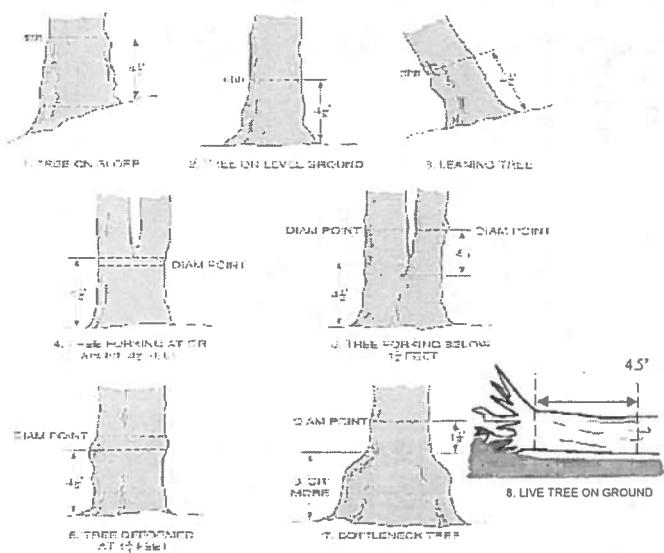
63.8

SPEC-29-12

41.7

77.6

DBH Measurement Rules



Woody Stem Deer Browse

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1



2



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5

ASH CANOPY CONDITION

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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.



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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: DINC 2012

Plot No.: 1209

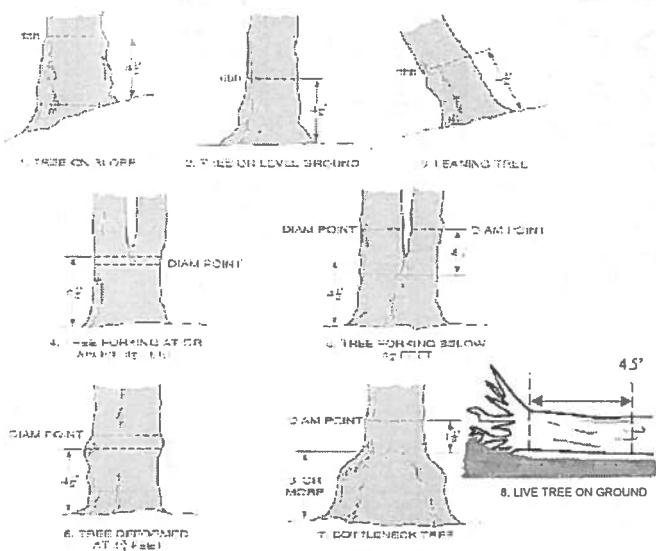
Page: 3 of 3

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Explain subsample (additional room on back):

mod #	species	c voucher#	browsed	# sub shrub	size class (cm) woody stems > 1.4m										>40 (record each tree)
					0-1.4m or super clumps	0-<1	1-<2.5	2	3	4	5	6	7	8	
8	<i>Fagus grandifolia</i>			•	•	•	•	•	•	•	•	•	•	•	
8	<i>Acer saccharum</i>														
8	<i>Quercus rubra</i>														
8	<i>Tilia americana</i>														
8	Standing dead														
8	<i>Viburnum acerifolium</i>														
8	<i>Indigo benzoin</i>														
8	<i>Fraxinus sp.</i>			•											
9	<i>Quercus rubra</i>														
9	<i>Acer saccharum</i>			•	•	•	•	•	•	•	•	•	•	•	
9	Standing dead														
9	<i>Prunus pensylvanica</i>														
9	<i>Fagus grandifolia</i>														
9	<i>Acer rubrum</i>														
9	<i>Lindera benzoin</i>														
10	<i>Fagus grandifolia</i>														
10	<i>Acer saccharum</i>														
10	<i>Acer rubrum</i>														
10	Standing dead														
10	<i>Cornus cordifolia</i>														
10	<i>Lindera benzoin</i>			•	•	•	•	•	•	•	•	•	•	•	
10	<i>Fraxinus pennsylvanica</i>														

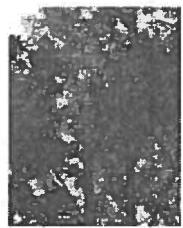
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- D: Stem still standing and tertiary main branches present.
- E: Central stem still standing.

CLEVELAND METROPARKS Emerald Ash Borer - *Fraxinus* Sheet

Project Label: PCAP

Project Name: OINCE2012

INTENSIVE MODULES ONLY TREES $\geq 10\text{cm}$ ONLY Page: 1 of 2

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

Module ID.	Tree ID.	Species	Dead c	Voucher #	DBH (cm)	Ht @ DBH	Ash condition	# Dead DBH	ASH Only		
									Epicormic present	Woodpecker holes	Date
2	1	Fraxinus sp.			49.5		1	N/A	0	0	10/19/12
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
	13										
	14										
	15										
	16										
	17										
	18										
	19										
	20										
	21										
	22										
	23										
	24										
	25										

Baseline		
	9	8
	2	3
1		

*** Change intensive module numbers when necessary

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

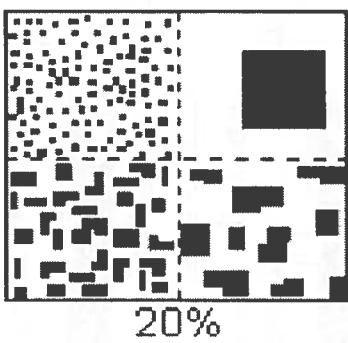
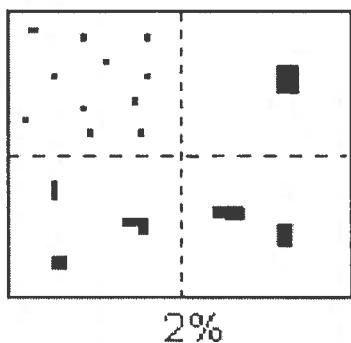
- * If Ash Condition scores 5 (dead) provide breakup score (A-E)

Count EAB exit holes $1.25\text{m}^2 \times 21.5\text{m}$

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

PERCENT MOTTLES (USE CLASS CODES):

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



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

0= Organic

1= Loamy

2= Clayey

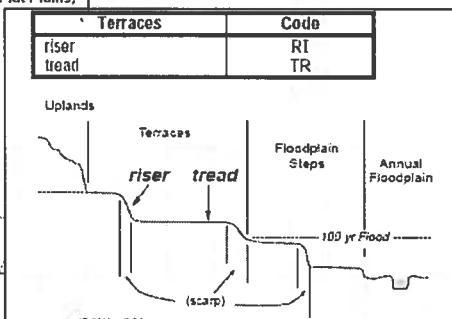
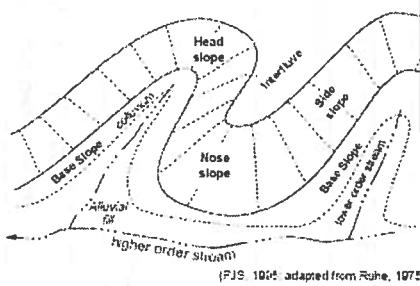
3= Sandy

4= Coarse Sand

9= Not measured - make plot note

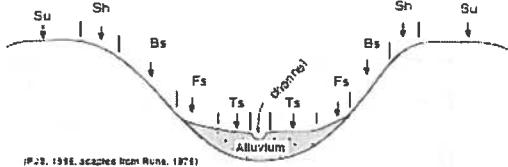
Geomorphic Component - Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains; e.g., (for Hills) nose slope or NS.

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



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

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



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

UPLAND: Not a wetland. Very rarely flooded.

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

PERMANENTLY/SEMIPERMANENTLY 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.

SEMIPERMANENTLY 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: OHINC12042012

Plot No.: 1209

Dwelling Landscaping
Page: 1 of 1

STANDING BIOMASS (required for emergent wetlands) collected

in 1 m clip plots (32x33 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C''=check when collected

Module #	C?	COuter	CInner

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

Ranks for microhabitat features. Select one or select two and average the score. NOTE: If prod sits on a slope automatically gets ranked based on steepness (1-3) to begin + any features present
Slope 1 = slight elevational grade across module (hill) Slope 2 = falls on slope ~20° Slope 3 = maximum steepness that can be safely sampled ~45°

0 feature is absent or functionally absent from the wetland
1 feature is present in the wetland in very small amounts or if more common, of low quality
2 feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality
3 feature is present in the wetland in very small amounts or if more common, of low quality
4 feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality
5 feature is present in moderate amounts and of highest quality

Module #	Corner	(count)	c.w.d. - count for pieces with minimum 1m length						
			no of tufts	no of hummocks	no macro depressions	c.w.d (2-12 cm)	c.w.d (12-40cm)	>40 cm interspers.	microhabitat
2	-	0		1	14	2	0	3	0
3	-	0		2	7	0	0	4	5
8	-	0		0	8	3	0	2	4
9	-	0		1	7	4	0	3	6

NOTE: hummock and hummocks are counted in BOTH nested quadrate corners but counts are aggregated.

McMAB INDICES (degrees) + for up - for down

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

LFI*	TSI**

LFI is angle of plot to the horizon. TSI is angles formed by local slopes. For TSI measure angle from eye of person standing ~10 m away.

CROWN COVER (DENSIMETER) Make 4 readings per module (acing N, S, E, W. Place dot count in corresponding space. (4 dots per grid square)

Module	N	S	E	W
2	3	4	3	6
3	4	3	2	5
8	5	7	4	8
9	2	3	4	1

TSI = Terrain Shape Index (site microtopographic shape)

COVER BY STRATA

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

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

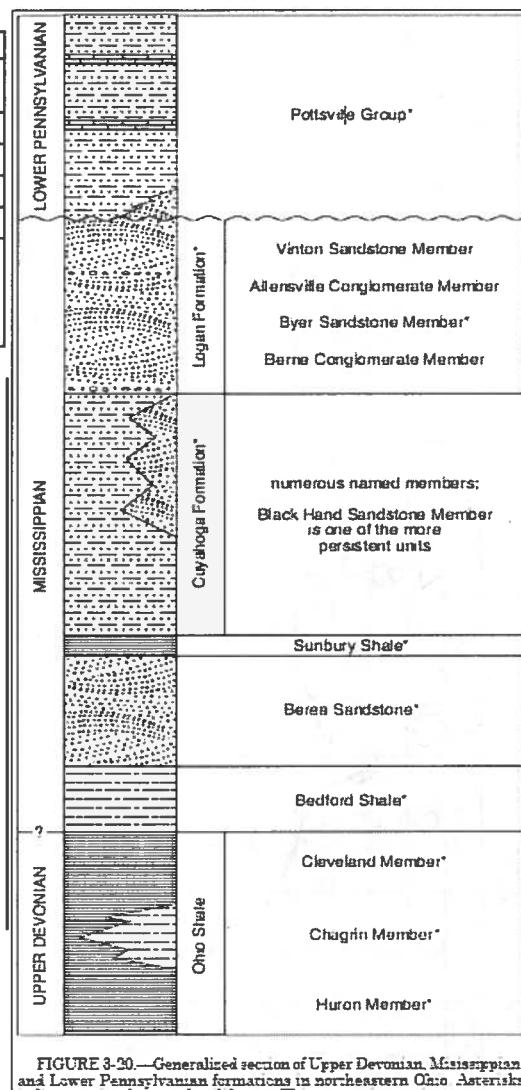
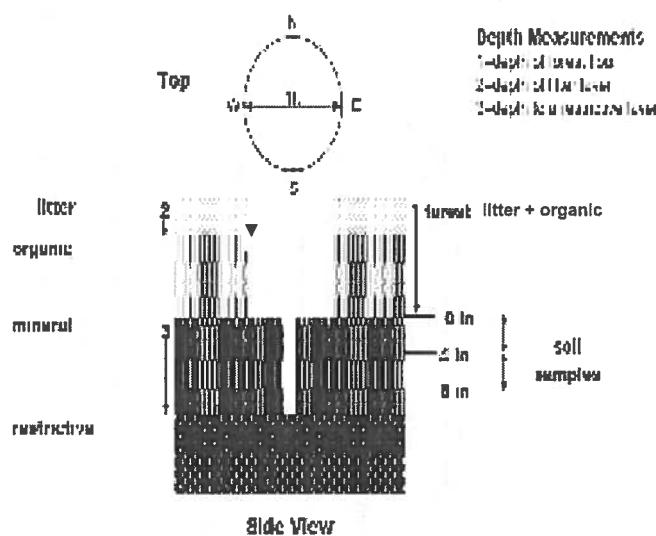


FIGURE 3-20.—Generalized section of Upper Devonian, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Wavy" is used in the older literature to refer to Mississippian rocks in Ohio. Some geologists use the European term "Carboniferous," which encompasses the Mississippian and Pennsylvanian Periods of the U.S. Many units have been named within the Cuyahoga Formation, but most units are local and cannot be traced over great distances. The Black Hand Member is a spectacular massive sandstone that is fairly widespread but discontinuous. See Hyde (1953), Hoover (1960), and Collins (1979) for more information on Mississippian rocks in Ohio. See figure 3-15 for explanation of rock types.

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

Reviewed by (Initial): _____

Site ID: PCAPNC1209

DATE: 06 / 19 / 2012

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

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

PLOT COORDINATES

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

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

Location of coordinates (choose one):

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

Flag

Latitude North 41.57993 Longitude West 0.81.42554

Use Decimal Degrees; NAD83

Flag	Comments

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

Reviewed by (Initial): _____

Site ID: PCAPNC1209DATE: 06/19/2012**(b) Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble**

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

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Location of coordinates (choose one):
 AA CENTER N3 S3 E3 W3 Nearest practicable location (flag and comment below)
Flag Latitude North 41.58120 Longitude West 081.42553

Use Decimal Degrees; NAD83

Flag	Comments
<input checked="" type="radio"/>	gravel bridle trail just South of plot

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

Reviewed by (Initial): _____

Site ID: RCAP NC1209

DATE: 06 / 12 / 2012

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

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

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Location of coordinates (choose one):

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

Flag

Latitude North 41.57848 Longitude West 081.42510

Use Decimal Degrees; NAD83

Flag	Comments
<input checked="" type="radio"/>	Plot 1 falls on bridge + rail

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

Reviewed by (Initial): _____

Site ID: PCAP NC 1209

DATE: 06/19/2012

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

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

PLOT COORDINATES

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

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

Location of coordinates (choose one):

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

Flag

--

Latitude North 41.58008 Longitude West 081.42374

Use Decimal Degrees; NAD83

Flag	Comments
<input checked="" type="radio"/>	Metal pipe sticking out of the ground.
<input checked="" type="radio"/>	Plot falls on bridle trail.

