

CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form

Project Label:

PCAP

Plot No: 1306

Date Sampled: 6/12, 6/14, 6/17



Lead: J. Miller

		Comment required if item answer is NO	
		If yes, write details in Comments section below	
Parking/Access outside of Park Boundaries:		<input checked="" type="radio"/> Y	N
Field journals completed		<input checked="" type="radio"/> Y	N
Site sketch made on 1:3000 map?		<input checked="" type="radio"/> Y	N
Check cover page	X-axis Bearing of plot recorded	<input checked="" type="radio"/> Y	N
	GPS coords Recorded	<input checked="" type="radio"/> Y	N
	North direction recorded	<input checked="" type="radio"/> Y	N
	Photographs taken?	<input checked="" type="radio"/> Y	N
Plot No., Date agreement on all pages?		<input checked="" type="radio"/> Y	N
Header data completed all pages?		<input checked="" type="radio"/> Y	N
Cover classes recorded in all Intensive modules		<input checked="" type="radio"/> Y	N
Browse Level By Species		<input checked="" type="radio"/> Y	N
Woody stem quality control check		<input checked="" type="radio"/> Y	N
Invasive plant quality control check		<input checked="" type="radio"/> Y	N
Ash trees mapped		<input checked="" type="radio"/> Y	N
Cover by Strata? (confirm cover type)		<input checked="" type="radio"/> Y	N
Soil samples collected with matching plot #.		<input checked="" type="radio"/> Y	N
Vouchers labeled on datasheet with initials and number		<input checked="" type="radio"/> Y	N
Vouchers labeled on collection bag		<input checked="" type="radio"/> Y	N
Pink flags removed		<input checked="" type="radio"/> Y	N
Data sheet QA before leaving site?		<input checked="" type="radio"/> Y	N
Common equipment returned to tub.		<input checked="" type="radio"/> Y	N
Data sheets scanned?		Enter date to left PC 6/20	
Final data sheets scanned?		Enter date to left	
Buffer Widths measured?		<input checked="" type="radio"/> Y	N
Web Soil Survey		<input checked="" type="radio"/> Y	N
Voucher Location (# vouchers collected) JAM 009-017	Refrigerator	<input checked="" type="radio"/> Y	N
	Press (#)	<input checked="" type="radio"/> Y	N
	Drier	<input checked="" type="radio"/> Y	N
	Identified	<input checked="" type="radio"/> Y	N
	Mounted	<input checked="" type="radio"/> Y	N
	Thrown away	<input checked="" type="radio"/> Y	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. parking lot, road)	
<input type="checkbox"/> Unsafe to sample (i.e. steep slope)	
<input type="checkbox"/> Other	

Additional Comments:

- Parked on Oakwood cul-de-sac



CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

** Bring Pins * Mark car before leaving to plot*

GENERAL INFORMATION

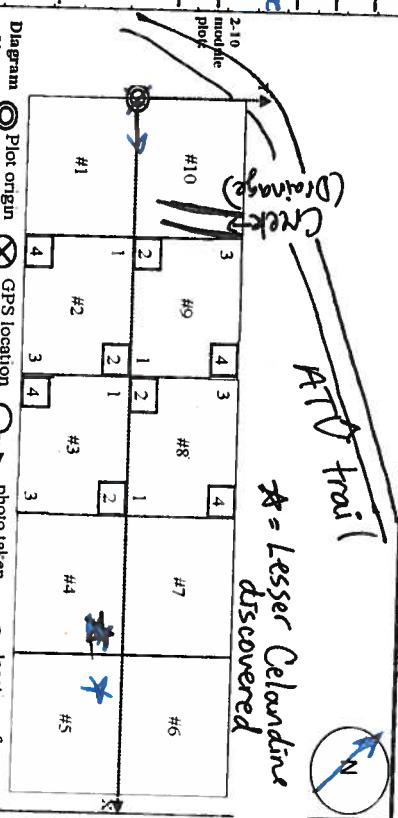
Project Label:	PCAP	LOCATION
Project Name:	01 Bw 2013	State: OH County: Cuyahoga
Plot Name:	Mosquito Vineyard	Quadrangle:
Plot No.:	1306	Local Place Names: Oakwood Drive estate cul-de-sac
Date (mm/dd/yyyy):	6 / 12 / 2013	Landowner: CMP
End date (if > 1 day):	6 / 17 / 2013	Data Confidentiality:
Party	Role**	<input type="checkbox"/> Public data <input type="checkbox"/> Private Data
J. Miller	Plot leader	<input type="checkbox"/> Fuzz 100m <input type="checkbox"/> Fuzz 250m <input type="checkbox"/> Fuzz 500m
R. Ballou Eagle	Bot. Assist.	<input type="checkbox"/> Other (specify) <input type="checkbox"/> m. <input type="checkbox"/> ft.
R. Chelsea	Tech	<input type="checkbox"/> Lat/Long <input type="checkbox"/> UTM <input type="checkbox"/> StatePlane
C. DeVono	Tech	<input type="checkbox"/> deg <input type="checkbox"/> deg min
** Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc.		Datum: <input type="checkbox"/> NAD83/WGS84 <input type="checkbox"/> NAD27

PLOT NOT SAMPLED:	<input type="checkbox"/> Other	Source of coordinates: <input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS
<input type="checkbox"/> Perm. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety		Coordinate system: <input type="checkbox"/> Coord. Units
GPS location in plot x=0 to 5, y=-1,0,+1): x = 0 y = 0 (base of plot x=0, y=0)		
Latitude: N 41,40 34 2		
Longitude: W 081,45 30 6		
Plot size for cover data: 0.1 (hectares)		
X-axis Bearing of plot: [144] °		
Depth: (1-5): 4		
Intensive modules: 2, 3, 8, 9 (EDIT IF MODIFIED)		
Camera No.: C3		
Photo Nos.: 1221		
Plot placement: <input checked="" type="checkbox"/> GRTS <input type="checkbox"/> Representative		
<input type="checkbox"/> Random <input type="checkbox"/> Stratified Random <input type="checkbox"/> Transect component		
<input type="checkbox"/> Systematic (grid) <input type="checkbox"/> Capture specific feature <input type="checkbox"/> Other		

Minimum required fields in Bold and Underlined

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

OVER



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 - Park on Oakwood Cliff Bradley Rd.
Walked southeast 700 m.

Veg. Characteristics - Old Vineyard/rows
-Rationale - GRTS point

Mostly Acer Saccharinum, Acer Rubrum (probably some hybridizing) w/ Quercus palustris. One large Quercus in plot, others around. Lower canopy Elm (American). Fagus (mostly pennsylvanica). Lots of prairie.

MINIMUM REQUIRED FIELDS IN BOLD AND UNDERLINED

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Plot No.: 1306

Page 2 of 2

Project Name: 01_BW2013

Project Label: PCAP

MODIFIED NATUREERVE CLASS*

CODE (on separate form):
M 06

Fl= Conf=

COMMUNITY NAME: (use sample data to determine)
Wet Flatwoods - Oak - Maple SwampHOMOGENEITY
 Homogeneous
 Conspicuous inclusionsHYDROLOGIC REGIME*
 Upland (seldom flooded)
 Intermittently/seasonally saturated (seldom flooded)
 Permanently/Semipermanent saturated (dry <1/yr, seldom flooded)
 Occasionally flooded (<1/yr)
 Temporarily flooded

(b) default unless plot is a wetland)

SALINITY*

 Saltwater
 Fresh
 Upland (n/a)SF 15
1.30.15

		DISTURBANCES				
		type*	severity**	yrs ago	% of plot	description
	Human	MH	0	100	trash	
	Natural					
	Fire					
	Cut	H	0	100%	deer browse	
	Animal					
	Other					

**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high

Current Land Use:	CMP
Former Land Use:	Vineyard

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

Multiple canopy layers; lots of Frax seedlings, sporadic elm, maple, Cornus, Sassafras, Prunus, Salic seedlings, and ~~small~~ ~~small~~ young Ven close to park / houses; ATV trail just north west of plot origin. Old and apparent clump sites around / outside of plot

young Vitis. Lots of browse. Trash throughout w/ some older

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

Project Label: PCAP

Project name: 01BW2013

Page 1 of 4

Plot no.: 1306

Total modules:

10

METROPARKS CANTON 30

Intensive modules: 4

Plot configuration: 2x5

Plot area (ha): 0.1



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

Strata - Cov entire plot

T S H (F)(A) Br

Species

c Voucher #

depth cov depth cov depth cov depth cov depth cov depth cov depth cov

Estimate for each intensive module:

depth cov depth cov depth cov depth cov depth cov depth cov depth cov

%unvegetated open water

1 0 1 0 1 0 1 0 1 0

%unveg. ground (bare soil)

1 1 1 1 1 1 1 1 1 1

%unveg. litter (bare litter)

1 6 1 6 1 6 1 6 1 6

%unveg. ground (bare soil)

1 1 1 1 1 1 1 1 1 1

%unveg. litter (bare litter)

1 1 1 1 1 1 1 1 1 1

%unveg. ground (bare soil)

1 1 1 1 1 1 1 1 1 1

%unveg. litter (bare litter)

1 1 1 1 1 1 1 1 1 1

%unveg. ground (bare soil)

1 1 1 1 1 1 1 1 1 1

%unveg. litter (bare litter)

1 1 1 1 1 1 1 1 1 1

%unveg. ground (bare soil)

1 1 1 1 1 1 1 1 1 1

%unveg. litter (bare litter)

1 1 1 1 1 1 1 1 1 1

%unveg. ground (bare soil)

1 1 1 1 1 1 1 1 1 1

%unveg. litter (bare litter)

1 1 1 1 1 1 1 1 1 1

%unveg. ground (bare soil)

1 1 1 1 1 1 1 1 1 1

%unveg. litter (bare litter)

1 1 1 1 1 1 1 1 1 1

%unveg. ground (bare soil)

1 1 1 1 1 1 1 1 1 1

%unveg. litter (bare litter)

1 1 1 1 1 1 1 1 1 1

%unveg. ground (bare soil)

1 1 1 1 1 1 1 1 1 1

%unveg. litter (bare litter)

1 1 1 1 1 1 1 1 1 1

%unveg. ground (bare soil)

1 1 1 1 1 1 1 1 1 1

%unveg. litter (bare litter)

%unveg. ground (bare soil)

1 1 1 1 1 1 1 1 1 1

%unveg. litter (bare litter)

1 1 1 1 1 1 1 1 1 1

%unveg. ground (bare soil)

1 1 1 1 1 1 1 1 1 1

%unveg. litter (bare litter)

1 1 1 1 1 1 1 1 1 1

%unveg. ground (bare soil)

1 1 1 1 1 1 1 1 1 1

%unveg. litter (bare litter)

1 1 1 1 1 1 1 1 1 1

%unveg. ground (bare soil)

1 1 1 1 1 1 1 1 1 1

%unveg. litter (bare litter)

1 1 1 1 1 1 1 1 1 1

%unveg. ground (bare soil)

1 1 1 1 1 1 1 1 1 1

%unveg. litter (bare litter)

1 1 1 1 1 1 1 1 1 1

%unveg. ground (bare soil)

1 1 1 1 1 1 1 1 1 1

%unveg. litter (bare litter)

1 1 1 1 1 1 1 1 1 1

%unveg. ground (bare soil)

1 1 1 1 1 1 1 1 1 1

%unveg. litter (bare litter)

1 1 1 1 1 1 1 1 1 1

%unveg. ground (bare soil)

1 1 1 1 1 1 1 1 1 1

%unveg. litter (bare litter)

1 1 1 1 1 1 1 1 1 1

%unveg. ground (bare soil)

1 1 1 1 1 1 1 1 1 1

%unveg. litter (bare litter)

1 1 1 1 1 1 1 1 1 1

%unveg. ground (bare soil)

1 1 1 1 1 1 1 1 1 1

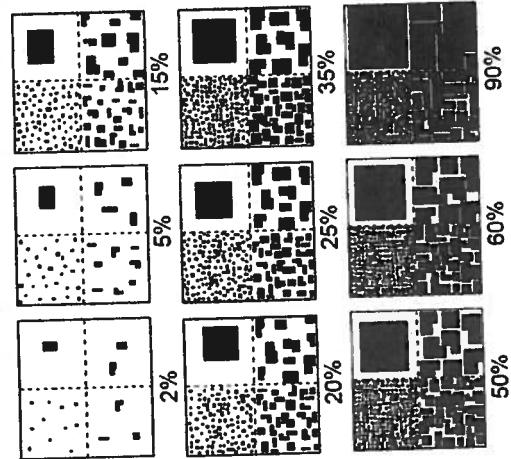
%unveg. litter (bare litter)

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

SRR 10-31-13

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 initial area covered, just different sized objects.



BROWSE RATING NARRATIVE DESCRIPTION

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

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

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

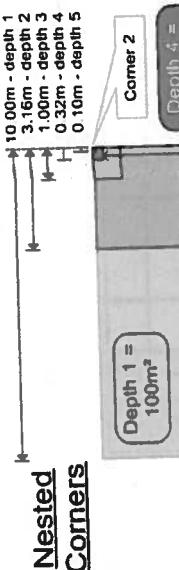
MEDIUM HIGH values include evidence of a browse line and 25 percent of stems browsed with very little vegetation regeneration evident. In this rating, for some species of plants, reproduction does not appear to occur or it is very severely limited.

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

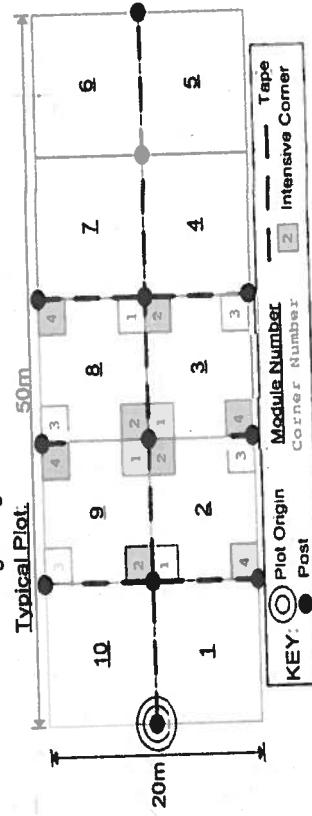
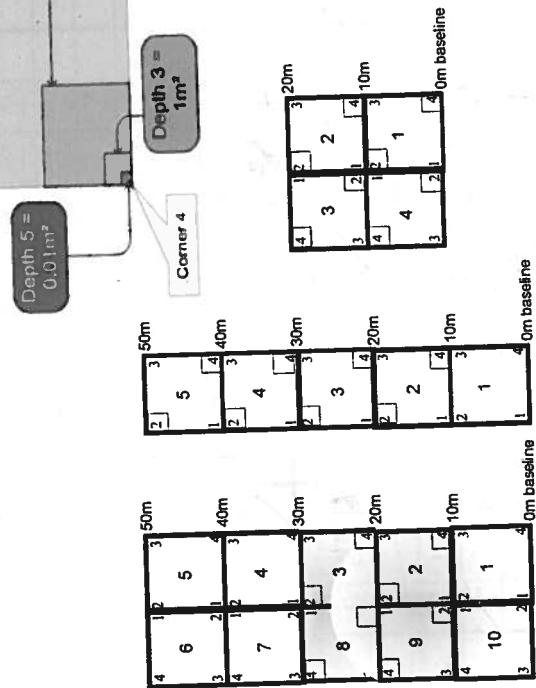
VERY HIGH values include extensive browse conditions, where the browse line is very evident AND almost all seedlings and herbs are severely browsed or missing.

Browse line may be 5 to 6 feet in height with no or little green growth beneath.

cover class	% cover	midpoint
1	solitary or few	0.0001
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



50m
30m
20m
10m
0m baseline



CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a
 Project Label: _____ Project name: 01-BN2013 Plot no.: 1306 Page 2 of 4

Total modules: 10 Intensive modules: 4 Plot configuration: 2x5 Plot area (ha): 0.1



Cleveland
Metroparks

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

Strata - Cov. entire plot

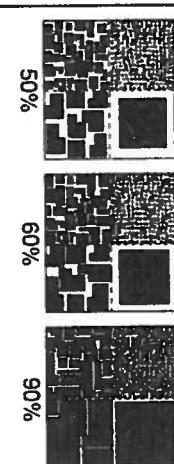
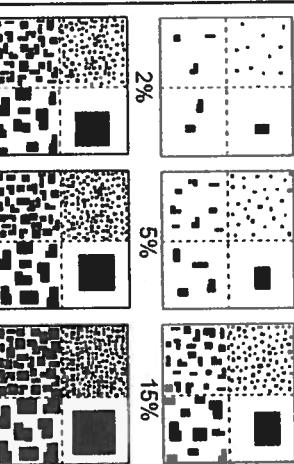
T	S	H	(E)	(A)	Br	Species	c	Voucher #	Estimate for each intensive module:											
									mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner
2	2	10	L	i	L	Ligustrum vulgare			2	3	2	8	4	8	2	9	4	9	2	R
2	2	4	N	i	N	Nitrus spp. aestivalis			SR 4 37-13	1	1	1	1	1	1	1	1	1	1	
2	2	1	B	4	B	Buxus dioct #4			SR 4 37-13	1	1	1	1	1	1	1	1	1	1	
2	2	9	G	1	G	Geum spp. #3			C3-1235,124	1	1	1	1	1	1	1	1	1	1	
2	2	7	R	7	R	Rhamnus frangula alnus			C3-1235,124	1	1	1	1	1	1	1	1	1	1	
2	2	7	C	1	C	Cornus spp.			3	2	3	1	2	1	2	1	3	2	1	
2	2	1	V	1	V	Viburnum opulus var. opulus			C3-1225,124	2	2	1	1	1	1	1	1	1	1	
2	2	1	P	1	P	Parthenocissus quinquefolia			SR 4 37-13	1	1	1	1	1	1	1	1	1	1	
2	2	1	A	1	A	Acer spicatum			SR 4 37-13	1	1	1	1	1	1	1	1	1	1	
2	2	9	Q	1	Q	Quercus spp. (seedling)			SR 4 37-13	1	1	2	1	2	1	2	1	2	1	
2	2	1	R	1	R	Rubus hispida			SR 4 37-13	1	1	2	1	2	1	2	1	2	1	
2	2	1	I	1	I	Verbena spp. (spadellina)			SR 4 37-13	1	1	2	1	2	1	2	1	2	1	
2	2	1	P	1	P	Polygonum virginianum			SR 4 37-13	1	1	2	1	2	1	2	1	2	1	
2	2	1	P	1	P	Potentilla spp.			SR 4 37-13	1	1	2	1	2	1	2	1	2	1	
2	2	0	U	0	U	Ulmus americana			SR 4 37-13	1	1	2	1	2	1	2	1	2	1	
1	1	10	D	4	D	Drimocarpus pubescens			SR 4 37-13	1	1	2	1	2	1	2	1	2	1	
2	2	7	A	1	A	Asteraceae spp. #1			SR 4 37-13	1	1	2	1	2	1	3	1	2	1	
2	2	1	U	1	U	Unknown dicot #6			SR 4 37-13	1	1	2	1	2	1	3	1	2	1	
2	2	2	C	2	C	Carex #2			JAM 004	1	1	2	1	2	1	3	1	2	1	
2	2	0	L	0	L	Lindern benzoin			JAM 006	1	1	2	1	2	1	3	1	2	1	
1	1	1	C	3	C	Carex #3 (caixa gracillima)			JAM 006	1	1	2	1	2	1	3	1	2	1	

SR 4 37-13
C3-1241-1243
C3-1223
C3-1240
JAM 004
JAM 006

10
Unknown dicot #5
Asteraceae spp. #1
Unknown dicot #6
Carex #2
Lindern benzoin
Carex #3 (caixa gracillima)

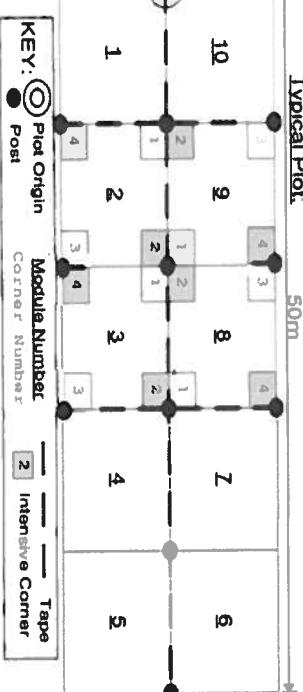
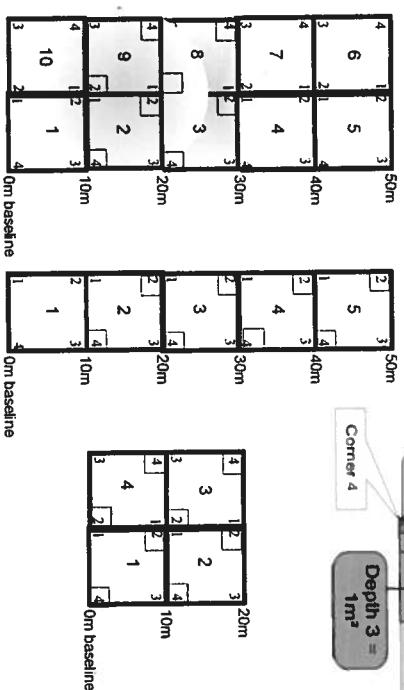
EXAMPLES OF PERCENT OF AREA COVERED

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



Nested Corners

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



Typical Plot

VERY HIGH values include evidence of a browse line 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.

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.

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.

BROWSE RATING NARRATIVE DESCRIPTION

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a
 Project Label: PCAP
 Project name: 01Bw 2013

Page 3 of 4

Plot configuration: 2x5

Plot no.: 1306

Total modules: 10

Strata - Cov. entire plot

Intensive modules: 4

Plot area (ha): 0.1



Cleveland
Metroparks

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

mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner
2	4	2	2	3	4	3	2	8	4	8	3	9	4	9	2
depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov
1				1		1		1		1		1		1	
%unvegetated open water															
1															
%unveg. ground (bare soil)															
1															
%unveg. litter (bare litter)															
1															

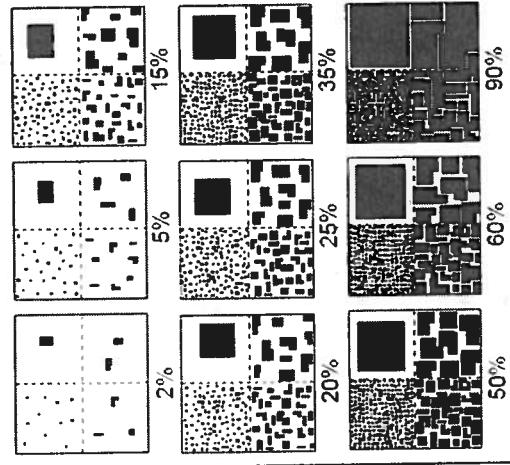
mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner
2	4	2	2	3	4	3	2	8	4	8	3	9	4	9	2
depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov
1				1		1		1		1		1		1	
%unvegetated open water															
1															
%unveg. ground (bare soil)															
1															
%unveg. litter (bare litter)															
1															

SRE
9-27-13

T	S	H	(F)	(A)	Br	Species	C	Voucher #	depth	cov	depth	cov	depth	cov	depth	cov
						Ulmus spp. (seedling)	C3	1233-35	1	1						
						Peegee Spp. (Unknown)	2	JAM07	1	2						
						Unknown rush (juncoid)	2	JAM08	2	1						
						Trifolium spp. (seedling)	1	JAM09	2	1						
						Unknown dicot #7 (Unknown)	2	JAM10	2	1						
						Duchesnea indica	2	JAM11	2	1						
						Impatiens capensis	2	JAM12	2	1						
						Alliaria petiolata	1	JAM13	3	1						
						Unk. Dicot #9	C3	(1249-52)	4	2						
						Dicot species (Unknown)	2	JAM14	2	1						
						Waldsteinia fragarioides	1	JAM15	2	1						
						Unknown Poaceae #2 (Unknown)	2	JAM16	2	1						
						Unknown poaceae #2 (Unknown)	2	JAM17	2	1						
						Dryopteris carthusiana	1	JAM18	2	1						
						Oxalis spp.	1	JAM19	2	1						
						Unk. fern #1 (Unknown)	1	JAM20	2	1						
						Unk. fern #1 (Unknown)	1	JAM21	2	1						
						Asteraceae #2 (Unknown)	2	JAM22	2	1						
						Pinus strobus	1	JAM23	2	1						
						Unk. dixer #5 (Unknown)	1	JAM24	2	1						
						Unk. poaceae #3 (Unknown)	1	JAM25	2	1						
						Asteraceae #4 (Unknown)	1	JAM26	2	1						
						Lysimachia nummularia	1	JAM27	2	1						
						Unk. poaceae #5 (Unknown)	1	JAM28	2	1						

EXAMPLES OF PERCENT OF AREA COVERED

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BROWSE RATING NARRATIVE DESCRIPTION

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

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

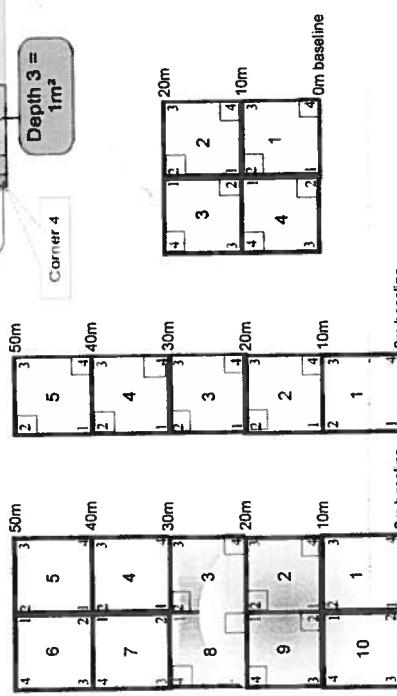
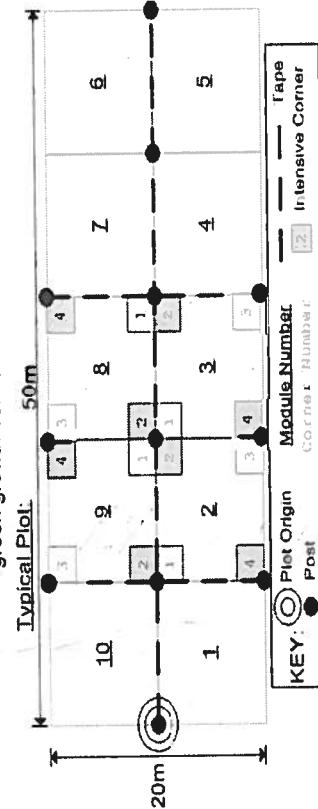
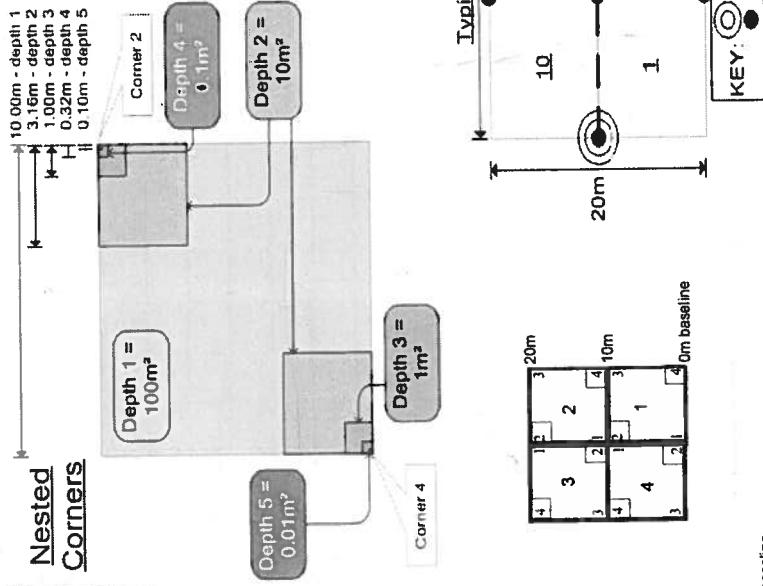
MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m² nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some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

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

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

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

cover class	% cover	midpoint
1	solidary 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



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

Project Label: PCAP

Project name: 01Bw2013

Page 4 of 4

Total modules: 10

Intensive modules: 4

Plot configuration: 2x5

Plot area (ha): 0.1



Cleveland
Metroparks

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

Strata - Cov. entire plot

T S H (F)(A) Br

Species

c

Voucher #

mod corner mod corner

mod cov depth cov

mod cov depth cov

mod cov depth cov

mod cov depth cov depth cov depth cov depth cov depth cov depth cov

mod cov depth cov depth cov depth cov depth cov depth cov depth cov

mod cov depth cov depth cov depth cov depth cov depth cov

mod cov depth cov depth cov depth cov depth cov depth cov

mod cov depth cov depth cov depth cov depth cov depth cov

mod cov depth cov depth cov depth cov depth cov depth cov

mod cov depth cov depth cov depth cov depth cov depth cov

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mod cov depth cov depth cov depth cov depth cov depth cov

mod cov depth cov depth cov depth cov depth cov depth cov

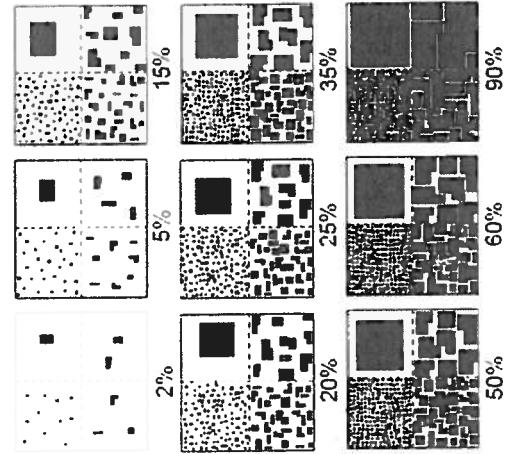
mod cov depth cov depth cov depth cov depth cov depth cov

mod cov depth cov depth cov depth cov depth cov depth cov

mod cov depth cov depth cov depth cov depth cov depth cov

EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used for various data elements to compare "Amount of Quantity". NOTE: Within any given 1m² each quadrat contains the same total area covered just different sized objects.



BROWSE RATING NARRATIVE DESCRIPTION

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

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

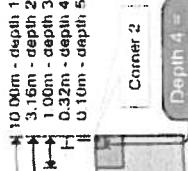
MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m² nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some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

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

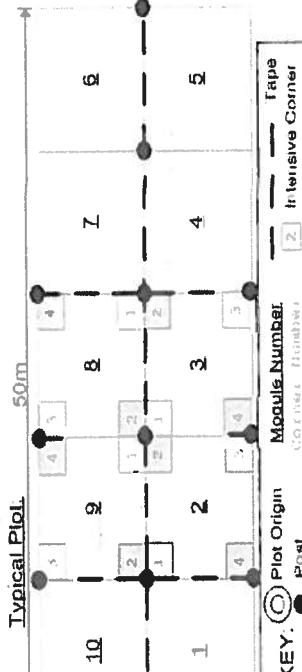
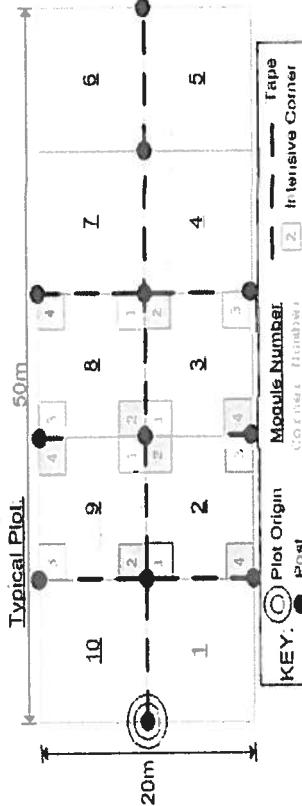
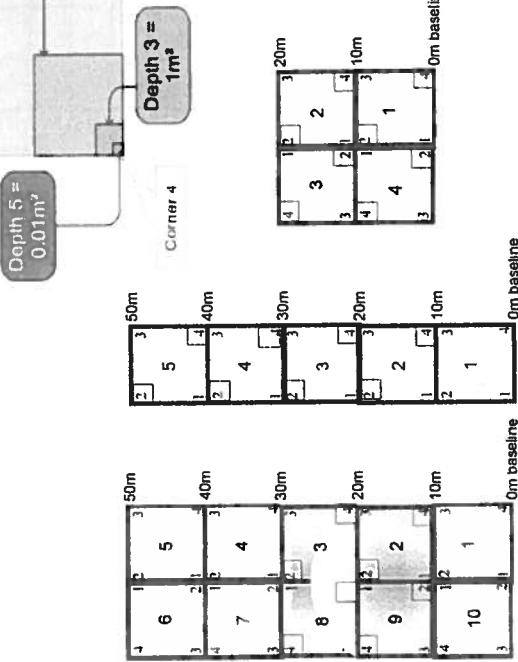
HIGH: greater than 25 percent of the stems of plants in the 1 m² nested quadrat and intensive module AND a browse line is evident.

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

cover class	% cover	midpoint
1	solitary or few	0.0001
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: OlBn 2013

Plot No.: 1306

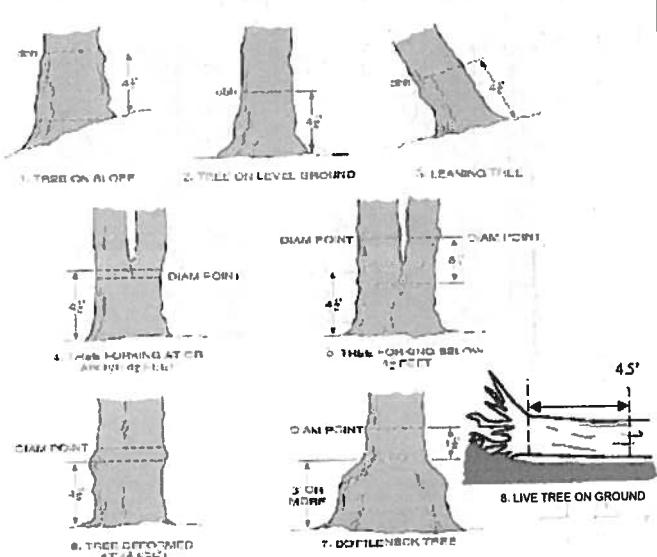
Page: 1 of 1



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										>40 (record each tree)
							1 0-<1	2 1-2.5	3 2.5-<5	4 5-<10	5 10-<15	6 15-<20	7 20-<25	8 25-<30	9 30-<35	10 35-<40	
✓ 1	Acer rubrum									○							53.2
✓ 1	Acer Saccharinum																
✓ 1	Drimys americana																
✓ 1	Standing dead																
✓ 1	Vitis cordifolia																
✓ 2	Acer saccharinum																
✓ 2	Standing dead																
✓ 1	Fraxinus sp.																63.1
✓ 1	Parthenocissus quinquefolia																
✓ 1	Toxicodendron radicans																
✓ 1	Amelanchier																
✓ 1	Rosa multiflora						•										
✓ 1	Viburnum dentatum						•										
✓ 1	Lindera benzoin						•										
✓ 1	Lonicera morrowii						•										
✓ 1	Ligustrum vulgare						•										
✓ 1	Prunus serotina						•										
✓ 1	Fraxinus americana						•										
✓ 1	Fraxinus pennsylvanica						•	•									
✓ 2	Acer saccharinum						•	•	•	•	•	•	•	•	•	•	63.1
✓ 2	Standing dead						•	•	•	•	•	•	•	•	•	•	
✓ 2	Acer rubrum																61.0
✓ 2	Ligustrum vulgare																
✓ 2	Fraxinus 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.
2. Thinning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.
3. Dieback: Canopy is thinning and some top branches exposed to sunlight are dead (have no leaves). Lower branches, not exposed to sunlight, die naturally and are not considered.
4. >50% Dieback: The canopy has less than half of the leaves that should be there and/or half of the top branches are dead.
5. Dead canopy: No leaves remain in the canopy portion of the tree. It still counts as a 5 even if there are epicormic sprouts below the canopy (lowest branch) on the trunk.



A

B

C

D

E

ASH CANOPY BREAKUP CONDITION (for dead trees):

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

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

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: OIBWN2013

Plot No.: 1304

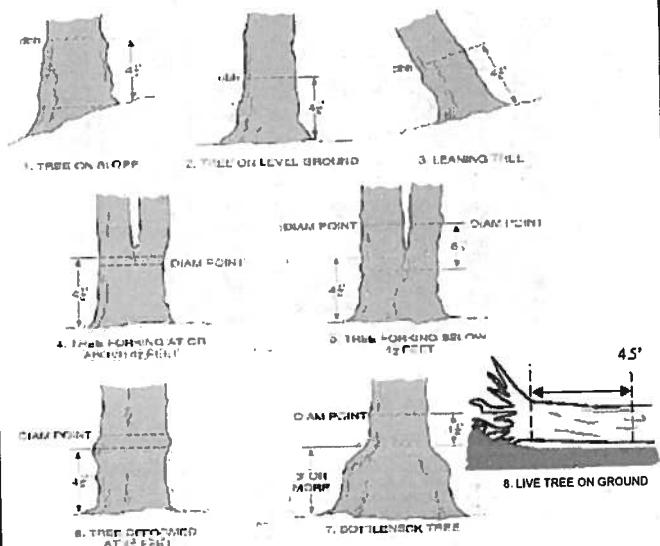
Page: 2 of 6

© Cleveland Metroparks

Explain subsample (additional room on back):

med #	species	c	voucher#	# stems 0-1.4m browsed	% sub sample	# shrub clumps	size class (cm) woody stems >1.4m										>40 (record each tree)
							1	2	3	4	5	6	7	8	9	10	
✓2	<i>Fraxinus pennsylvanica</i>			•													
✓2	<i>Parthenocissus quinquefolia</i>																
✓2	<i>Toxicodendron radicans</i>																
✓2	<i>Vitis aestivalis</i>			..													
✓2	<i>Acer rubrum</i> spp.																
✓2	<i>Lonicera morrowii</i>																
✓2	<i>Cornus sp.</i>																
✓2	<i>Rubus sp. ponsivorus</i>																
✓2	<i>Rhamnus frangula</i>																
✓2	<i>Acer rubrum</i>																
✓3	<i>Acer saccharinum</i>																
✓3	<i>Ligustrum vulgare</i> (narrow)																
✓3	<i>Ulmus americana</i>																
✓3	<i>Betula nigra</i>																
✓3	<i>Betula lutea</i>																
✓3	<i>Betula alleghaniensis</i>																
✓3	<i>Prunus pensylvanica</i>																
✓3	<i>Fraxinus sp.</i>																
✓3	<i>Prunus serotina</i>																
✓3	<i>Rosa multiflora</i>																
✓3	<i>Rubus - sp. ponsivorus</i>																
✓3	<i>Acer rubrum</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



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



A

B

C

D

E

ASH CANOPY BREAKUP CONDITION (for dead trees):

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

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

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: 016ON2013

Plot No.: 1306

Page: 3

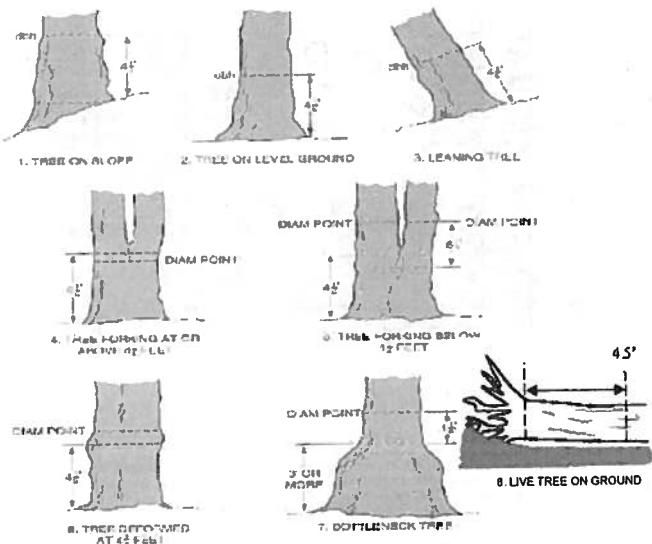
of 6

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										
							1	2	3	4	5	6	7	8	9	10	11
3	CORNS SP.																
4	ULMUS AMERICANA																
4	Acer rubrum																
4	Standing dead																
4	Acer saccharinum																
4	Lingonstrom vulgare																
4	Fraxinus pennsylvanica																
4	Betula nigra																
4	Fraxinus sp.																
4	Toxicodendron radicans																
4	Prunus Serotina																
4	Rubus sp. Pensylvanicus																
5	Acer rubrum																
5	Vitis aestivalis																
5	Ulmus americana																
5	Acer saccharinum																
5	Fraxinus pennsylvanica																
5	Rosa multiflora																
5	Toxicodendron radicans																
5	Fraxinus sp.																
5	Hamelia																
5	Viburnum opulus																
5	Rubus sp. Pensylvanicus																
5	Ligustrum vulgare																

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



A

B

C

D

E

ASH CANOPY BREAKUP CONDITION (for dead trees):

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

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

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: OBW 2013

Plot No.: 1306

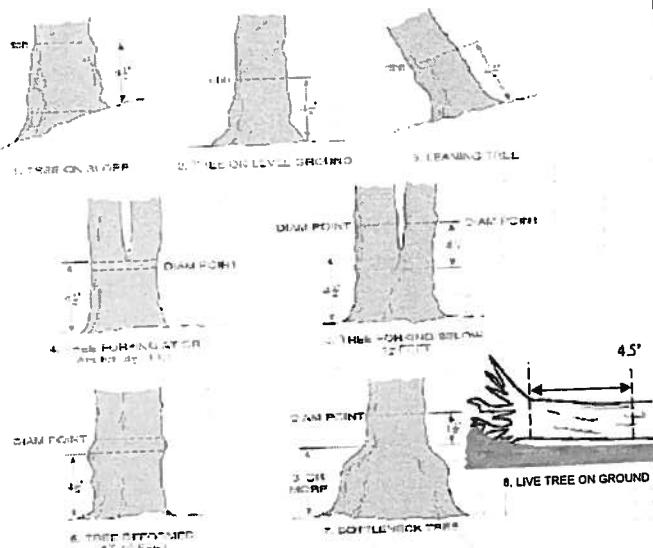
Page: 4 of 10

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											# stems woody stems > 1.4m > 40 (record each tree)
							1	2	3	4	5	6	7	8	9	10	11	
✓ 5	<i>Parthenocissus quinquefolia</i>	“	“	“	“	“	1	1-<2.5	2.5-<5	5-<10	10-<15	15-<20	20-<25	25-<30	30-<35	35-<40	>40	49.2, 46.9
✓ 5	<i>Cornus sp.</i>	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“
✓ 5	<i>Prunus serotina</i>	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“
✓ 5	<i>Berberis thunbergii</i>	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“
✓ 6	<i>Acer saccharum</i>	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“
✓ 6	<i>Prunus virginiana</i>	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“
✓ 6	<i>Lindera benzoin</i> (indigo wine)	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“
✓ 6	Shading dead	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“
✓ 6	<i>Fraxinus americana</i>	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“
✓ 6	<i>Fraxinus pennsylvanica</i>	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“
✓ 6	<i>Berberis thunbergii</i>	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“
✓ 6	<i>Fraxinus sp.</i>	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“
✓ 6	<i>Rubus sp. DENSIVIRGINUS</i>	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“
✓ 6	<i>Prunus pensylvanica</i>	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“
✓ 6	<i>Rosa multiflora</i>	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“
✓ 6	<i>Cornus sp.</i>	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“
✓ 6	<i>Toxicodendron radicans</i>	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“
✓ 7	<i>Ligustrum vulgare</i> (privet)	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“
✓ 7	<i>Fraxinus pennsylvanica</i>	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“
✓ 7	Standing dead	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“
✓ 7	<i>Fraxinus sp.</i>	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“
✓ 7	<i>Rubus sp. DENSIVIRGINUS</i>	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“
✓ 7	<i>Rosa multiflora</i>	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“	“
✓ 7	<i>Toxicodendron radicans</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



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



A

B

C

D

E

ASH CANOPY BREAKUP CONDITION (for dead trees):

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

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

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: O1 BN 2013

Plot No.: 1306

Page: 5

of 6
Cleveland Metroparks

Explain subsample (additional room on back)

mod #	species	c	voucher#	# stems 0-1.4m browsed	% sub shrub or super sample	# clumps	size class (cm) woody stems >1.4m										>40 (record each tree)
							1	2	3	4	5	6	7	8	9	10	
7	Betula nigra ssp. lutea		"	..													
8	Standing dead			..													
8	Acer rubrum			..													
8	Acer saccharinum																
8	Quercus rubra																
8	Fraxinus pennsylvanica																
8	Fraxinus sp.																
8	Toxicodendron radicans																
8	Gleditsia triacanthos																
8	Prunus serotina			10													
8	Bucataphenissis glandulifolia		"														
8	#10 Dioclea morowii		T.														
9	Standing dead																
9	Liquidambar styraciflua																
9	Fragaria ananassa																
9	Prunus serotina			..													
9	Vitis cordata																
9	Quercus palustris																
9	Pather nigrissus glaucophylla		T.														
9	Toxicodendron radicans		T.														
9	Fraxinus sp.		D														
9	Fraxinus pennsylvanica		D														
9	Acer rubrum ssp. rubrum		..														
9	Cornus sp.		..														

53.8,6.8

E: Central stem still standing.

D: Stem still standing and tertiary main branches present.

C: Less than 50% of main branches have fine twigs.

B: Over 50% of main branches have fine twigs (newly dead).

A: All main branches contain fine twigs (newly dead).

(rank as described below)

ASH CANOPY BREAKUP CONDITION (for dead trees):

E

D

C

B

A



(lowest branch) on the trunk.

5. Dead canopy: No leaves remain in the canopy portion of the tree. If still counts as 5 even if there are epicormic sprouts below the canopy >50% Dieback:

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.

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.

2. Thinning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.

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

ASH CANOPY CONDITION

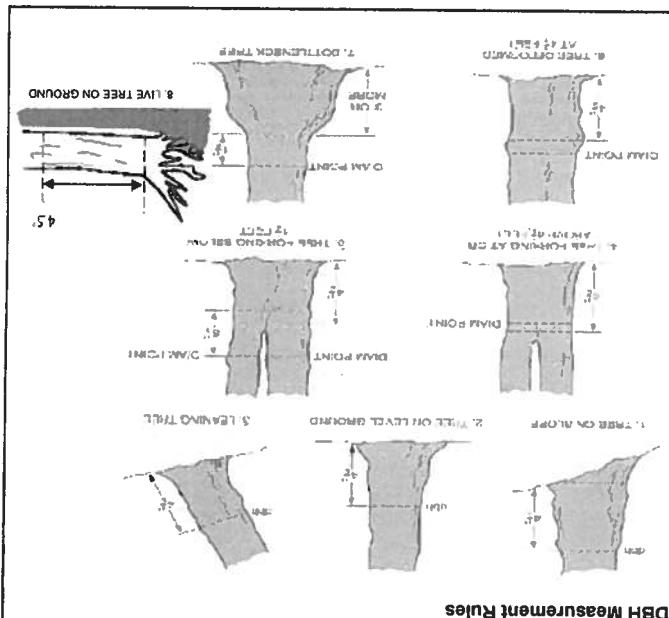
5

4

3

2

1



10

Record using the tally system from 1 to 10

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

Woody Stem Deer Browse



CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: 01B1N3013

Plot No.: 1306

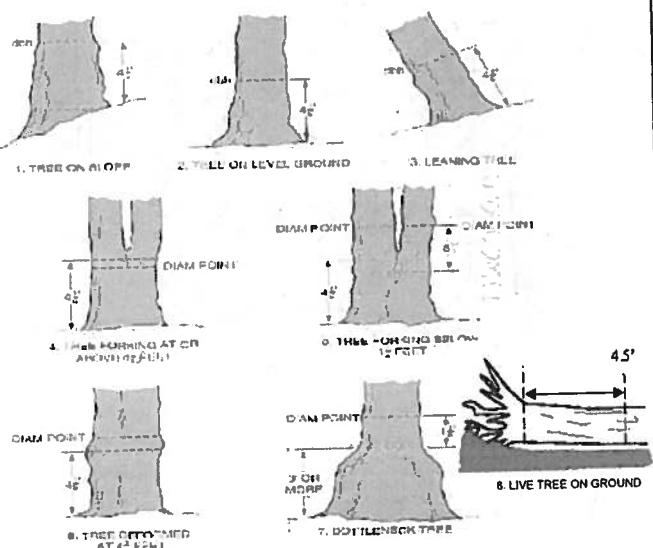
Page: 6

of 6 Cleveland Metroparks

Explain subsample (additional room on back):

mod #	species	c voucher#	browsed	sample	# shrub clumps	size class (cm) woody stems >1.4m										11
						0-1	2	3	4	5	6	7	8	9	10	
✓9	Rosa Multiflora		..													
✓9	Rubus sp. ^{PENNSYLVANICUS}		•													
✓9	Ligustrum vulgare		•													
✓10	Fraxinus pennsylvanica		•													
✓10	Styrax obassia		•													
✓10	Vitis cordata		•													
✓10	Lonicera periclymenum		•													
✓10	Prunus serotina		•													
✓10	Fraxinus sp.		•													
✓10	Lindera benzoin		•													
✓10	Betula lutea		•													
✓10	Betula nigra		•													
✓10	Rubus sp. ^{PENNSYLVANICUS}		☒													
✓10	Ligustrum vulgare		-													

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



A

B

C

D

E

ASH CANOPY BREAKUP CONDITION (for dead trees):

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

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

CLEVELAND METROPARKS Emerald Ash Borer - *Fraxinus* SheetProject Label: PCAPProject Name: 01Bw2013INTENSIVE MODULES ONLY TREES $\geq 10\text{cm}$ ONLY

Page: 1 of 2

Plot No.: 305Date: 5/12

Baseline

*** Change intensive module numbers when necessary

9823

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

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

Count EAB exit holes $1.25\text{cm}^2 \times \geq 1.5\text{mm}$
Woodpecker and epicormic marked present (1) or absent (0)Map all ash trees $\geq 10\text{cm}$ in each module using Tree ID number

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		X			
Ranunculus ficaria	Lesser Celandine		X			N 41.40342/W 81.85800
Cynanchum louiseae (vine)	Black Swallow-wort					
Butomus umbellatus (wetland)	Flowering Rush					
Heracleum mantegazzianum	Giant Hogweed					

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	Poison Hemlock					
Rhamnus cathartica	Common Buckthorn (shrub)					
Berberis thunbergii	Japanese Barberry (shrub)				2	
Alnus glutinosa	European Alder			1		
Dipsacus laciniatus	Cut-leaf Teasel					
Elaeagnus umbellata	Autumn Olive (shrub)					
Lonicera maackii	Amur Honeysuckle (shrub)					
Euonymus fortunei	Wintercreeper					

of Plants
1: 1-10
2: 11-50
3: 51-100
4: 101-1,000
5: >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	
Viburnum plicatum	Doublefile Viburnum (shrub)					

of Plants
1: 1-10
2: 11-50
3: 51-100
4: 101-1,000
5: >1,000

Tier 4: Widespread and abundant		Presence				comments
		NE	SE	SW	NW	
Alliaria petiolata	Garlic Mustard	5	6		5	
Ligustrum vulgare	Common Privet (shrub)	3	2	2	1	
L. morrowii, L. tatarica	Bush Honeysuckles (shrub)	4	4	3	3	
Phalaris arundinacea	Reed Canarygrass					
Phragmites australis (wetland)	Phragmites					
Polygonum cuspidatum	Japanese Knotweed					
Frangula alnus	Glossy Buckthorn (shrub)	1	2	1	1	
Rosa multiflora	Multiflora Rose (shrub)	3	1	1	4	
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					

of Plants
1: 1-10
2: 11-50
3: 51-100
4: 101-1,000
5: >1,000

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

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

Project Label: PCAP

Project Name: 01 Bin 203

Plot No.: 1308

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

Module #	C?	Corner	Corner

CLASSIFICATION

SPF 11-18-13

Hedgerow/Hummock class (WETLANDS ONLY)

WETLANDS

- DEPRESSION
- IMPOUNDMENT Beaver Human
- RIVERINE Headwater Mainstem Channel
- SLOPE (ground water hydrology) or on a physical slope*
- FRINGING Reservoir Natural Lake
- COASTAL (specify subclass)
- BOG (strongly, moderately, weakly ombrotrophic)
- Ohio EA VIBI Plant Community Class (WETLANDS ONLY):
- FOREST swamp forest bog forest forest swamp
- EMERGENT marsh wet meadow open bog
- SHRUB shrub swamp tall sh. bog tall sh. fen

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 elevation grade across module (mod)

Slope 2 = falls on slope ~20°

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

1 feature is absent or functionally absent from the wetland

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

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

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

C.W.D. - Count for pieces with minimum 1m length

Module	N	S	E	W
2	29	20	31	18
3	27	17	21	20
8	15	13	12	12
9	21	18	20	22
2 - 27	30	31	17	
32	17	37	28	18
3 - 27	18	16	16	
32	16	26	24	
8 - 10	10	11	9	
16	16	13	14	

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

mod#	corner	(count)											
2	Q	5	29	6	6	4	4	4	4	4	4	4	4
3	Q	5	20	4	4	4	4	4	4	4	4	4	4
8	Q	6	29	35	1	4	4	4	4	4	4	4	4
9	Q	5	35	37	1	4	4	4	4	4	4	4	4

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

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.

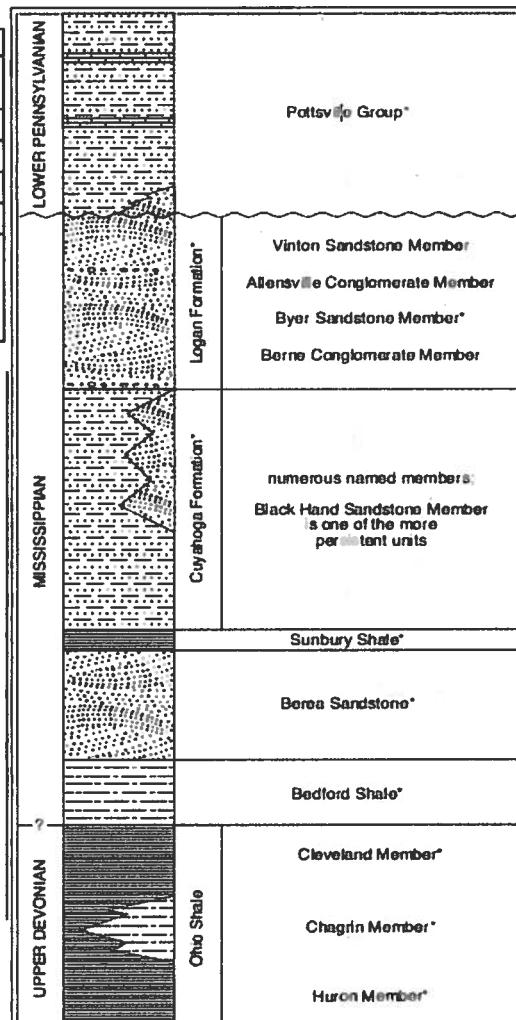
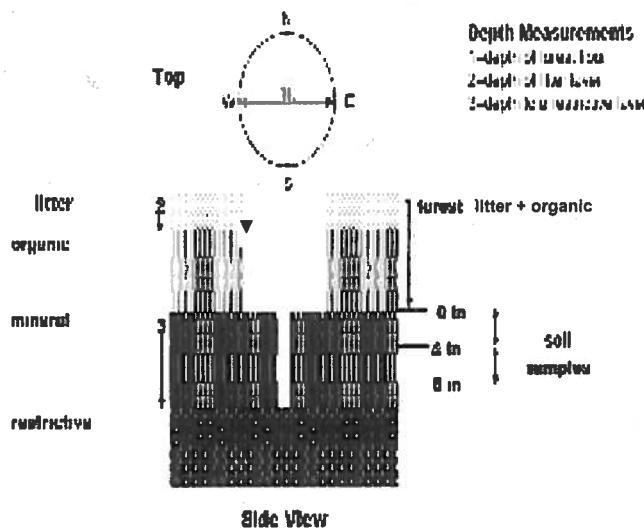


FIGURE 3-20.—Generalized section of Upper Devonian, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Wavyly" 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 3-16 for explanation of rock types.

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

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	10ye 2/1
	moisture color	Y/A
% sand		Q
oxid. reac.	Y	N
texture*	1	
redox features**	Y	N
hydr. cond. ***	I S M D	
20 cm	matrix color	10ye 2/1
	moisture color	N/A
% sand	Q	
oxid. reac.	Y	N
texture*	1	
redox features**	Y	N
hydr. cond. ***	I S M D	

* refer to texture classes on reverse side
** e.g. hydrogen sulfide odor, gleying, etc.
*** Circle one:
I=indurated S=saturated M=moist D=dry

Notes: include evidence of earthworms (worms, casings, middens)

Worms present - small worms, \leq 5 mm in size, ~ 4-5 cm

RC 6/20

EARTH SURFACE & GROUND COVER	
Underlying Earth Surface*	Ground Cover
(Sum = 100%)	percent ($\beta_{act} \leq 100\%$)
Hilstosol	0% Coarse Woody Debris***
Mineral Soil	98% Fine Woody Debris***
Gravel-Cobble*	2% Litter
Boulder**	0% Duff (Fern + Humus)
Bedrock	0% Bryophyte-Lichen
* Gravel-Cobble = 1/16-10"	Water
** Boulder = > 10 in	Bare Soil
*** >5 cm in diameter	Rod/Final
Other:	0%

- Depth to rest. Layer: **More than 80 in.** 101
- Parent Material: **Till**
- DRAINAGE***
- Excessively dr.
 - Somewhat excessively
 - Well drained
 - Moderately well dr.
 - Somewhat poorly dr.
 - Very poorly dr.
 - Impermeable surface

RC 6/20

COVER BY STRATA

estimate using midpoints of 5, ex. 3, 8, 13 %

STAND SIZE

Missing

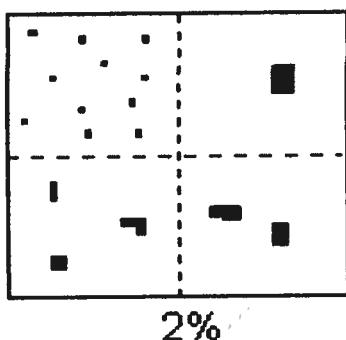
Strata	Height Range (m)	Total Cover (%)	Stand Size
Tree	> 5m	63%	<input type="checkbox"/> > 100 x plot size
Shrub	0.5 - 5m	13%	<input type="checkbox"/> > 100 x plot size
Herb	< 0.5m	58%	<input type="checkbox"/> 10-100 x plot size
(Floating)*	N/A		<input type="checkbox"/> 3-10 x plot size
(Aquatic)*	N/A		<input type="checkbox"/> 1-3 x plot size
			<input type="checkbox"/> < plot size

boiled and floating or slightly emersed

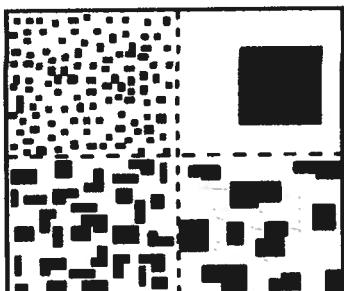
.. submersed, most plant mass below surface
SEE BACK OF PAGE FOR "TYPICAL" STRATA DESCRITIONS. STRATA CAN VARY BY COVER TYPE.

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



2%



20%

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

0= Organic

1= Loamy

2= Clayey

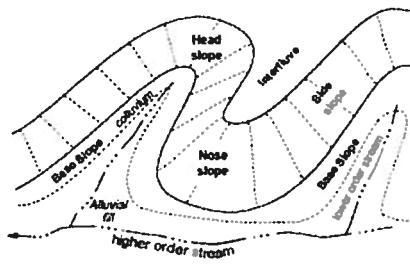
3= Sandy

4= Coarse Sand

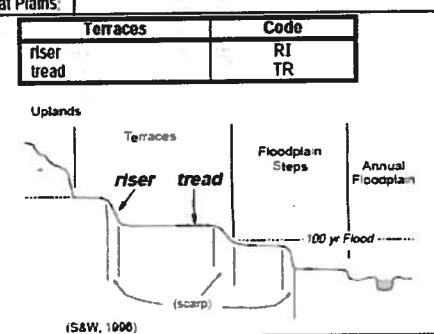
9= Not measured - make plot note

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

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

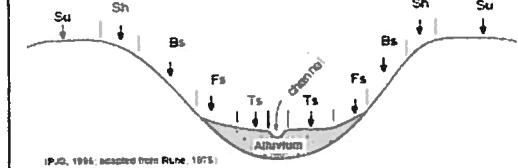


(PJS, 1990; adapted from Rufe, 1975)



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/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.

SEMPERMANENTLY 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.

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAPBW1306

DATE: 06 / 14 / 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(<10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (>75%)

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

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 checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> 1	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 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: <i>Former Vineyard</i>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	1	

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

Former Vinyard-Channde mudlands bubble

Flag	Comments
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Use Decimal Degrees; NAD83

Latitude North 41 37'9.2" Longitude West 081 51H82L

AA CENTER O 3N O 3S O E3 O W3 O Nearest practicable location (flag and comment below)

Flag

Location of coordinates (choose one):
 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 at the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.
 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 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 far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.

PLOT COORDINATES

Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
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"/>
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"/>
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"/>	<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"/>	<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"/>
Posidon Hemlock	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cheatgrass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Tamarsk	<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"/>
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"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Canada Thistle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Leaky Spurge	<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: PCP BW136 Date: 06/14/2013

Reviewed by (initials):

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

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP BW 1306

DATE: 06 / 14 / 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
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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:		Absent:	Buffer Plot 2	Canopy Type:		Absent:	Buffer Plot 3	Canopy Type:		Absent:
	D	E			B	N			Leaf Type:	Flag	
Big Trees (>0.3m DBH)	0	1	2	3	4	0	1	2	3	4	0
Small Trees (<0.3m DBH)	0	1	2	3	4	0	1	2	3	4	0
Woody Shrubs, Saplings (0.5m-5m HIGH)	0	1	2	3	4	0	1	2	3	4	0
Woody Shrubs, Saplings (<0.5m HIGH)	0	1	2	3	4	0	1	2	3	4	0
Herbs, Forbs and Grasses	0	1	2	3	4	0	1	2	3	4	0
Bare ground	0	1	2	3	4	0	1	2	3	4	0
Litter, duff	0	1	2	3	4	0	1	2	3	4	0
Rock	0	1	2	3	4	0	1	2	3	4	0
Water	0	1	2	3	4	0	1	2	3	4	0
Submerged Vegetation	0	1	2	3	4	0	1	2	3	4	0

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

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	○	○	○		Forest Clear Cut	○	○	○		Herbicide Use	○	○	○	
Gas Wells	○	○	○		Forest Selective Cut	○	○	○		Mowing/Shrub Cutting	○	○	○	
Mine (surface)	○	○	○		Tree Plantation	○	○	○		Trails	○	○	○	2
Mine (underground)	○	○	○		Tree Canopy Herbivory (INSECT)	○	○	○		Soil Compaction (ANIMAL OR HUMAN)	○	○	○	
Military	○	○	○		Shrub Layer browsed (WILD OR DOMESTIC)	○	●	○		Offroad vehicle damage	○	○	○	
Other: _____	○	○	○		Highly Grazed Grasses (OVERALL <3' HIGH)	○	○	○		Soil erosion (FROM WIND, WATER, OR OVERUSE)	○	○	○	
Other: _____	○	○	○		Recently Burned Forest Canopy	○	○	○		Other: _____	○	○	○	
Other: _____	○	○	○		Recently Burned Grassland (BLACKENED)	○	○	○		Other: _____	○	○	○	

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

PLOT COORDINATES											
Flag			Flag			Flag			Flag		
1	2	3	1	2	3	1	2	3	1	2	3
Fill bubble if present - Plot	Eurasian Watermilfoil	Water hyacinth	Yellow Floating Heart	Giant Salvinia	Garlic Mustard	Poison Hemlock	Milk-A-Minute Weed	Birdsfoot Trefoil	Canada Thistle	Buffalo	
Fill bubble if present	Purple Loosestrife	Knotweed	Japanese Knotweed	Perennial Pepperweed	Giant Reed	Cheatgrass	Reed Canary Grass	Common Reed	Oval Leaf Sedge	Other	
Fill bubble if present	Johnsongrass	Kudzu	Multiflora Rose	Common Buckthorn	Himalayan Blackberry	Tamarike	Common Glasswort	Common Reed	Common Reed	Other	
Fill bubble if present	Flag	Flag	Flag	Flag	Flag	Flag	Flag	Flag	Flag	Flag	
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 nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centred on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the flag box, and describe where the coordinates were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed so 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 <input checked="" type="radio"/> N3 <input type="radio"/> S3 <input type="radio"/> E3 <input type="radio"/> W3 <input type="radio"/> Nearest practicable location (flag and comment below)											
Latitude North 41 14 46.3 Longitude West 081 45 805 Use Decimal Degrees: NAD83											
Comments											
3 Former Vaca yard irrigation channel 2 5m south of base - ATV trail - crossed over ATV trail between buffer plots 2 & 3											

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAPPBW1306

DATE: 06 / 14 / 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 →

4

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

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 checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	1	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 checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	1	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 checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	2	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 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: Old Vinyard	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	5	

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 checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	3	
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 checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		Offroad vehicle damage	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	3	
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
1	~20 m from park boundary - Houses and park area, mowed.
2	pieces of old boat
3	ATV trail nearby
4	in ~20 M, off park property going west
5	whole area w/ ditches + roads from old vinyl road

Plot Coordinates												
Latitude North				Longitude West				Use Decimal Degrees: NAD83				
41 40 31.8 081.95848												
<input checked="" type="checkbox"/> AA CENTER	<input type="checkbox"/> S3	<input type="checkbox"/> E3	<input type="checkbox"/> W3	<input checked="" type="checkbox"/> Nearest practicable location (flag and comment below)								
Location of coordinates (choose one):												
Flag												
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.												
<input type="checkbox"/> AA CENTER <input type="checkbox"/> S3 <input type="checkbox"/> E3 <input type="checkbox"/> W3 <input checked="" type="checkbox"/> Nearest practicable location (flag and comment below)												

PLOT COORDINATES

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

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

Site ID: PCAP BL 1306 DATE: 06/14/2013

Renewed by (initials):

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

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP BW 1306

DATE: 06 / 14 / 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(<10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (>75%)

Buffer Plot 1	Canopy Type: D E		Absent: O	Buffer Plot 2	Canopy Type: D E		Absent: O	Buffer Plot 3	Canopy Type: D E		Absent: O
	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 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		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	○ ○ ○				Ditches, Channelization	○ ○ ○				Pasture/Hay	○ ○ ○				
Road - two lane	○ ○ ○				Dike/Dam/Road/RR Bed (IMPEDE FLOW)	○ ○ ○				Range	○ ○ ○				
Road - four lane	○ ○ ○				Water Level Control Structure	○ ○ ○				Row Crops	○ ○ ○				
Parking Lot/Pavement	○ ○ ○				Excavation, Dredging	○ ○ ○				Fallow Field (RECENT-RESTING ROW CROP FIELD)	○ ○ ○				
Golf Course	○ ○ ○				Fill/Spoil Banks	○ ○ ○				Fallow Field (OLD - GRASS, SHRUBS, TREES)	○ ○ ○				
Lawn/Park	○ ○ ○				Freshly Deposited Sediment (UNVEGETATED)	○ ○ ○				Nursery	○ ○ ○				
Suburban Residential	○ ○ ○				Soil Loss/Root Exposure	○ ○ ○				Dairy	○ ○ ○				
Urban/Multifamily	○ ○ ○				Wall/Riprap	○ ○ ○				Orchard	○ ○ ○				
Landfill	○ ○ ○				Inlets, Outlets	○ ○ ○				Confined Animal Feeding	○ ○ ○				
Dumping	○ ○ ○	1			Point Source/Pipe (EFFLUENT OR STORMWATER)	○ ○ ○				Rural Residential	○ ○ ○				
Trash	○ ○ ○				Impervious surface input (SHEETFLOW)	○ ○ ○				Gravel Pit	○ ○ ○				
Other:	○ ○ ○				Other:	○ ○ ○				Irrigation	○ ○ ○				
Other:	○ ○ ○				Other:	○ ○ ○				Other:	○ ○ ○				

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

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

PLOT COORDINATES											
Flag			Flag			Flag			Flag		
<input type="checkbox"/> AA CENTER	<input type="checkbox"/> O N3	<input type="checkbox"/> O S3	<input checked="" type="checkbox"/> E3	<input type="checkbox"/> O W3	<input type="checkbox"/> O Nearest practicable location (flag and comment below)	<input type="checkbox"/> O AA CENTER	<input type="checkbox"/> O N3	<input type="checkbox"/> O S3	<input checked="" type="checkbox"/> E3	<input type="checkbox"/> O W3	<input type="checkbox"/> O Nearest practicable location (flag and comment below)
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 of 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 on the Buffer Transects or at the center of Plot 3 as possible.											
If Buffer Plot 3 can not be accessed, take the coordinates of the nearest practicable location ALONG THE TRANSECT and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.											
Latitude North A 1 . 40 352 Longitude West 081 . 95 634 Use Decimal Degrees; NAD83											
Location of coordinates (choose one):											
<input type="checkbox"/> AA CENTER <input type="checkbox"/> O N3 <input type="checkbox"/> O S3 <input checked="" type="checkbox"/> E3 <input type="checkbox"/> O W3 <input type="checkbox"/> O Nearest practicable location (flag and comment below)											
Flag											
1 <i>Draynag facing SW, trash can w/soil, weathered Ca, chwi, poss. bk growing</i>											
Flag Comments											
Buffer Sample Points - Targeted Alien Species 05/27/2011											

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP BW 1306

DATE: 06/14/2013

2

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(<10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (>75%)

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

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"/>		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: Vineyard	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>			1

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 checked="" 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

2 SH11 SEC 11 Irrigation channels from irrigation system
Walled to edge of creek and most banks appear dry - probably have sinks in it
backyards of neighbors

Flag Comments

Latitude North 41.40276 Longitude West 081.95779 Use Decimal Degrees: NAD83

2

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

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 nearest practicable 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.

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.

LOT COORDINATES

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

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

Site ID: PAP BW 1326 Date: 06/14/2013

Revised by (initials):

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