

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



Project Label:

PCAP

Plot No: 1307

Date Sampled: 6/18, 6/19

Lead: J. Miller

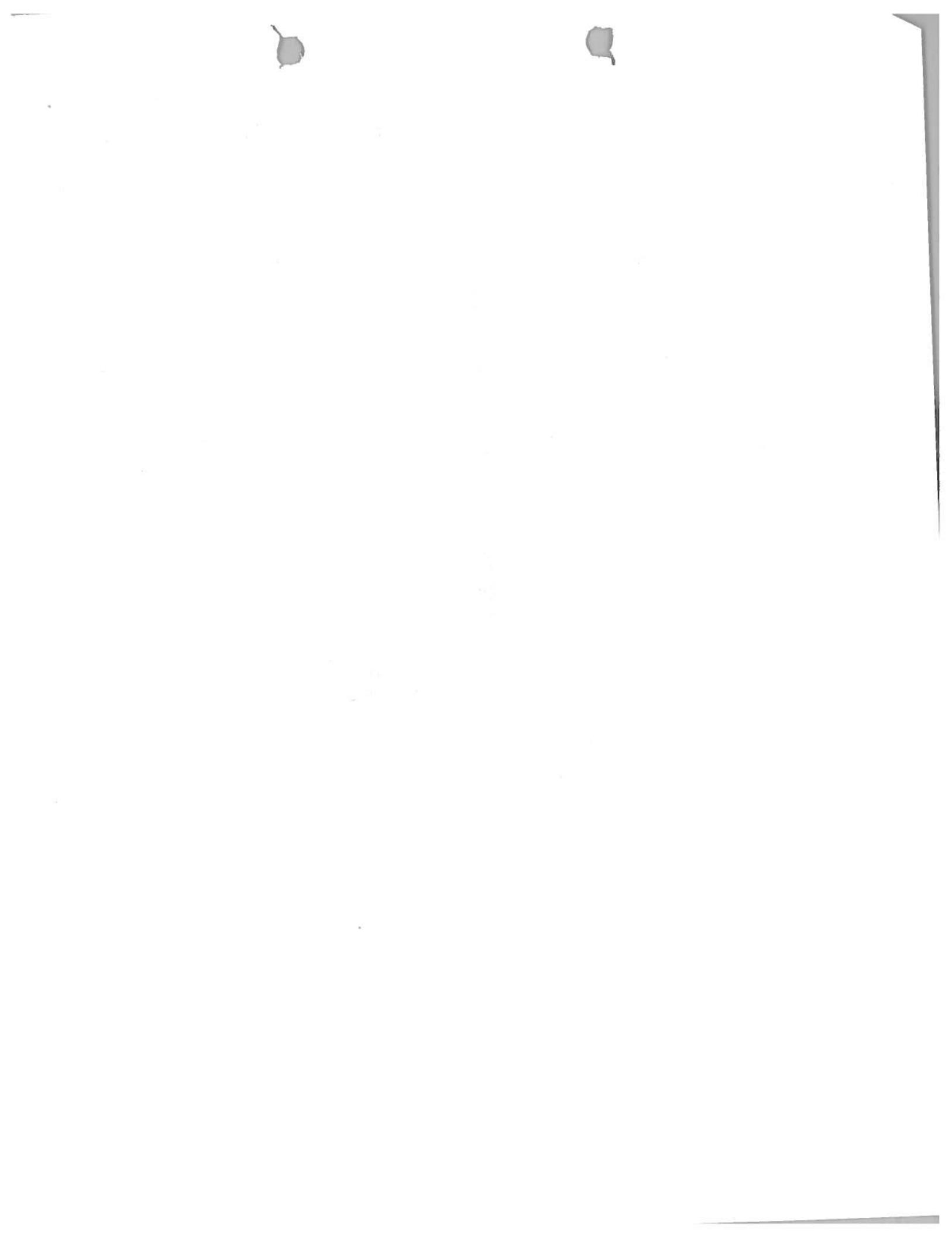
		Comment required if item answer is NO	
Parking/Access outside of Park Boundaries:		Y	N
Field journals completed		Y	N
Site sketch made on 1:3000 map?		Y	N
Check cover page	X-axis Bearing of plot recorded	Y	N
	GPS coords. Recorded	Y	N
	North direction recorded	Y	N
	Photographs taken?	Y	N
Plot No., Date agreement on all pages?		Y	N
Header data completed all pages?		Y	N
Cover classes recorded in all Intensive modules		Y	N
Browse Level By Species		Y	N
Woody stem quality control check		Y	N
Invasive plant quality control check		Y	N
Ash trees mapped		Y	N
Cover by Strata? (confirm cover type)		Y	N
Soil samples collected with matching plot #		Y	N
Vouchers labeled on datasheet with initials and number		Y	N
Vouchers labeled on collection bag		Y	N
Pink flags removed		Y	N
Data sheet QA before leaving site?		Y	N
Common equipment returned to tub.		Y	N
Data sheets scanned?		Enter date to left <i>RC 6/20</i>	
Final data sheets scanned?		Enter date to left	
Buffer Widths measured?		Y	N
Web Soil Survey		Y	N
Voucher Location <i>JAM 018-035</i>	Refrigerator	Y	N
	Press (#)	Y	N
	Drier	Y	N
	Identified	Y	N
	Mounted	Y	N
	Thrown away	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. parkinglot, road)	
<input type="checkbox"/> Unsafe to sample (i.e. steep slope)	
<input type="checkbox"/> Other	

## Additional Comments:

- Bring boots.  
- Not pinned





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

Project Name: 01MS2013

Plot No.: 1307

Page 2 of 2

**MODIFIED NATURERESERVE CLASS\***

CODE (on separate form):  
M03

*(Handwritten note: Contaminated in water to plot)*

Project Label: PCAP

MODIFIED NATURERESERVE CLASS*		DISTURBANCES					
		type*	severity**	yr ago	% of plot	description	
Human	<u>L</u>				100%	One piece of trash (probably from a car to plot)	
Natural	<u>ML</u>				20%	windfall in nestlings	
Fire							
Cut							
Animal	<u>H</u>				100%	Browse - deer + insect	
Other							

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

Current Land Use: CMP

Former Land Use: Unknown

**HYDROLOGIC REGIME\***

		HYDROLOGIC REGIME*					
		□ Upland (seldom flooded)	□ Intermittently flooded	□ Semipermanently flooded	□ Permanently flooded	□ Tidal/Seiche flooded daily	□ Tidal/Seiche flooded monthly
SALINITY*		□ Intermittently/seasonally saturated (seldom flooded)	□ Intermittently flooded	□ Semipermanently flooded	□ Permanently flooded	□ Tidal/Seiche flooded daily	□ Tidal/Seiche flooded monthly
□ Saltwater		□ Permanently/Semipermanent, saturated (dry <1/yr, seldom flooded)	□ Intermittently flooded	□ Semipermanently flooded	□ Permanently flooded	□ Tidal/Seiche flooded daily	□ Tidal/Seiche flooded monthly
□ Brackish		□ Occasionally flooded (<1/yr)	□ Temporarily flooded	□ Intermittently flooded	□ Semipermanently flooded	□ Permanently flooded	□ Tidal/Seiche flooded daily
□ Fresh							□ Tidal/Seiche flooded monthly
□ Upland (n/a)							□ Tidal/Seiche flooded irregular (e.g. wind, storms)
							□ Unknown

(by default unless plot is a wetland)

Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)  
*Water level receded significantly over the course of 2 days (~5 cm.)*

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

Project Label: PCAP

Project name: 01 MS 2013

Plot no.: 1307

Page 1 of 9

Total modules: 10

Intensive modules: 4

Plot configuration: 2x5

Plot area (ha): 0.1



**Cleveland  
Metroparks**

79

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

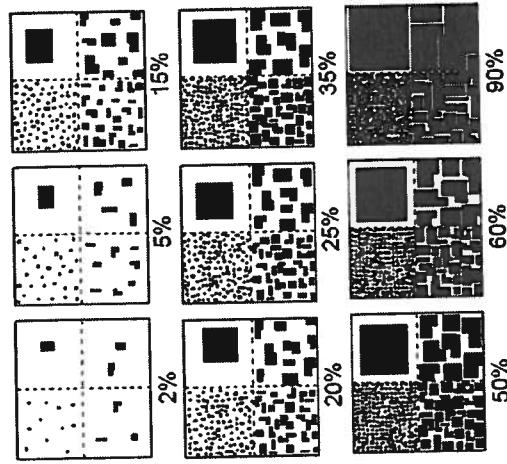
		Estimate for each intensive module:																		
mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	
depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	
1	8	18	1	10	1	9	1	8	1	8	1	8	1	8	1	8	1	8	R	
%unvegetated open water																				R
%unveg. litter (bare soil)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
%unveg. litter (bare soil)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		

Strata - Cov. entire plot

T	S	H	(F)	Br	Species	C	Voucher #	mod	depth	cov	depth								
2	2	X	L	X	<i>Lysimachia nummularia</i>	4	3	3	2	3	2	3	2	3	2	3	2	3	2
5	2	X	F	X	<i>Fraxinus spp. (seedling)</i>	4	2	2	2	2	2	2	2	2	2	2	2	2	2
3	3	X	A	X	<i>Acer saccharinum</i>	4	6	3	1	3	1	3	1	3	1	3	1	3	1
8	1	X	L	X	<i>Lysimachia ciliata</i>	3	1	3	1	3	1	3	1	3	1	3	1	3	1
3	3	X	U	X	<i>Ulmus spp. (seedling)</i>	3	2	3	2	3	2	3	2	3	2	3	2	3	2
2	2	X	U	X	<i>Ulmus spp. (seedling)</i>	3	2	3	2	3	2	3	2	3	2	3	2	3	2
9	2	X	R	X	<i>Rosa multiflora</i>	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1	1	X	T	X	<i>Tilia americana</i>	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4	1	X	B	X	<i>Betula lenta</i>	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1	1	X	B	X	<i>Betula lenta</i>	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1	1	X	C	X	<i>Carpinus caroliniana</i>	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	X	A	X	<i>Acer spp. (seedling)</i>	2	1	2	1	2	1	2	1	2	1	2	1	2	1
3	3	X	C	X	<i>Carex spp. (seedling)</i>	2	2	2	2	2	2	2	2	2	2	2	2	2	2
6	6	X	U	X	<i>Ulmus americana</i>	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5	3	X	F	X	<i>Fraxinus spp.</i>	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5	4	X	M	X	<i>Moss spp.</i>	4	4	4	4	4	4	4	4	4	4	4	4	4	4
2	3	X	A	X	<i>Acer negundo</i>	1	5	2	2	1	2	1	2	1	2	1	2	1	2
5	5	X	A	X	<i>Acer rubrum</i>	1	5	4	5	3	2	3	2	3	2	3	2	3	2
2	2	X	P	X	<i>Polygonum spp.</i>	1	4	3	2	2	1	3	2	1	3	2	1	3	2
2	1	X	C	X	<i>Cataglyphis spp.</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	
2	2	X	P	X	<i>Prenanthes spp.</i>	1	4	4	4	4	4	4	4	4	4	4	4	4	
4	4	X	J	X	<i>Juglans nigra</i>	1	4	4	4	4	4	4	4	4	4	4	4	4	
2	2	X	A	X	<i>Acer nigrum</i>	1	4	2	2	2	2	2	2	2	2	2	2	2	

#### 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.



#### BROWSE RATING NARRATIVE DESCRIPTION

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

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

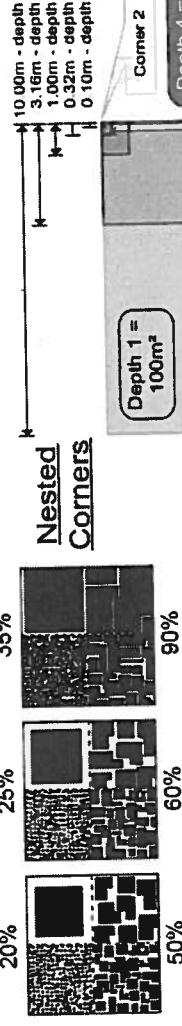
**MEDIUM:** browse affects greater than 10 percent and less than 25 percent of stems in the 1 m<sup>2</sup> nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of preferential browse and/or browse lines for some species of plants.

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

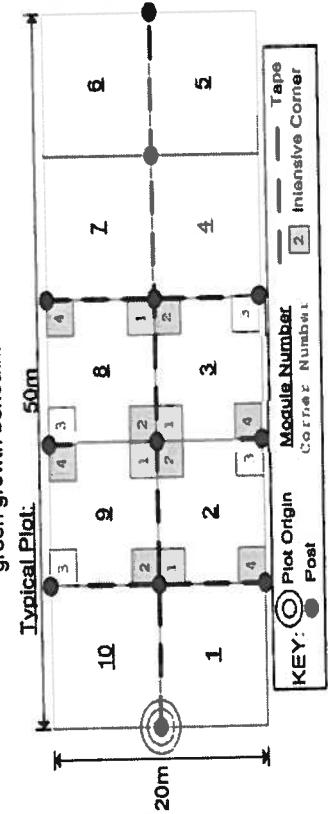
**HIGH:** greater than 25 percent of the stems of plants in the 1 m<sup>2</sup> nested quadrat and intensive module **AND** a browse line is evident.

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

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



Depth 5 = 0.01m<sup>2</sup>



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

Project Label: PCAP

Project name: UIM 2013

Page 2 of 4

Total modules: 10

Intensive modules: 4 Plot configuration: 2x5

Plot area (ha): 0.1



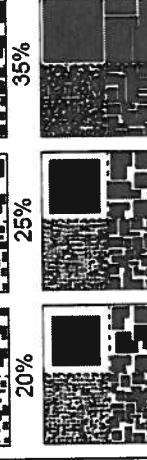
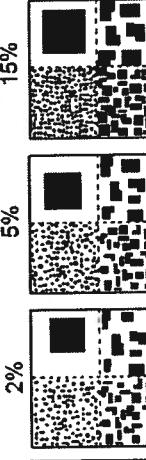
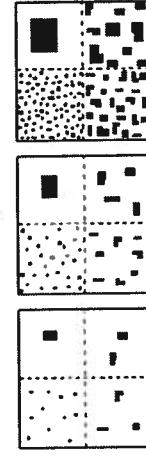
**Cleveland  
Metroparks**

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

T	S	H	(F)	(A)	Br	Species	c	Voucher #	Estimate for each intensive module:														
									mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod		
depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov		
6						<i>Acer saccharum</i>			4	6	4	3	4	3	2	8	2	9	4	9	2		
						<i>Asteraceae spp. #1</i>															R		
2						<i>Unk. dicot #1</i>															R		
1						<i>Unk. dicot #2</i>																	
2	3					<i>Unk. dicot #3</i>																	
3						<i>Burtheniopsis virginiana</i>																	
5						<i>Phragmites australis</i>																	
1						<i>Asteraceae spp. #2</i>																	
4						<i>Alliaria petiolata</i>																	
3						<i>Crataegus spp. Canadense</i>																	
2						<i>Oxalis spp.</i>																	
1						<i>Allium canadense</i>																	
1						<i>Vitis riparia</i>																	
1						<i>Juncus tenuis</i>																	
2						<i>Sisyrinchium spp.</i>																	
3						<i>Hedera virginiana</i>																	
2						<i>Polygonatum pubescens</i>																	
2						<i>Cirsium heterophyllum</i>																	
5	2					<i>Asteraceae spp. #1</i>																	
2						<i>Artemesia tritophyllum var. tritophyllum</i>																	
2						<i>Unk. Carex #4</i>																	
2						<i>Eupatorium rugosum</i>																	
4						<i>Carex Unk. Carex #5</i>																	
1						<i>Viola spp.</i>																	
2						<i>Canna spp. latifolia</i>																	
1						<i>Prunus spp.</i>																	
1						<i>Frangula alnina</i>																	

#### EXAMPLES OF PERCENT OF AREA COVERED

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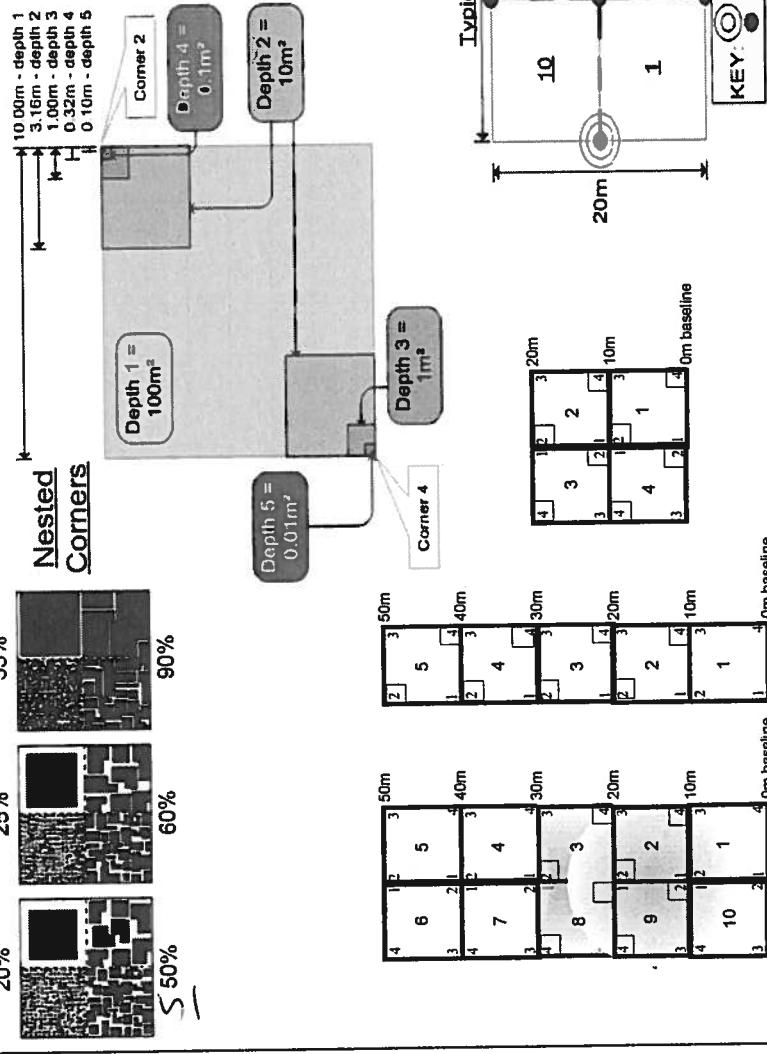
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7	25-50%	0.375
8	50-75%	0.625
9	75-95%	0.850
10	95-100%	0.975



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

Project Label: PCAP

Project name: 01MS 2013

Plot no.: 1307

Page 3 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

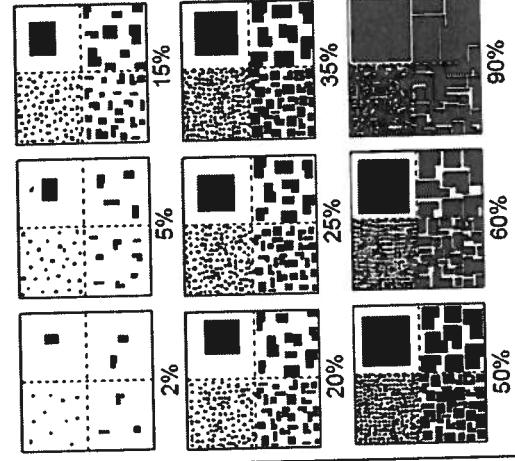
Strata - Cov. entire plot

T	S	H	(F)	(A)	Br	Species	C	Voucher #	mod	corner																	
3	1	1				<i>Tilia americana</i>			2	4	3	2	3	2	9	4	8	2	9	4	9	2	R	R			
3	1	1				<i>Phenax fragula alnus</i>																					
2	1	1				<i>Hydrophyllum spp.</i>																					
2	1	1				<i>Phytolacca sp.</i>																					
2	1	1				<i>Lakothia spp. #3</i>																					
1	1	1				<i>Astyrax #3</i>																					
1	1	1				<i>Artemesia dracunculus</i>																					
1	1	1				<i>Matteuccia struthiopteris</i>																					
1	1	1				<i>Rubus occidentalis</i>																					
1	1	1				<i>Vaccinium corymbosum</i> #3																					
1	1	1				<i>Vaccinium corymbosum</i> #4																					
3	1	1				<i>Platanus occidentalis</i>																					
2	1	1				<i>Impatiens canadensis</i>																					
2	1	1				<i>Franseria</i> #3																					
1	1	1				<i>Sambucus spp.</i>																					
3	1	1				<i>Fagus grandifolia</i>																					
1	1	1				<i>Pinus strobus</i>																					
1	1	1				<i>Lobelia inflata</i> #3																					
1	1	1				<i>Equisetum spp. #3</i>																					
2	1	1				<i>Leersia hexandra</i>																					
2	1	1				<i>Verbesina alternifolia</i>																					
1	1	1				<i>Alliaria officinalis</i> #3																					
2	1	1				<i>Ulmus rubra</i> #4																					

SPR  
42712

#### EXAMPLES OF PERCENT OF AREA COVERED

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#### BROWSE RATING NARRATIVE DESCRIPTION

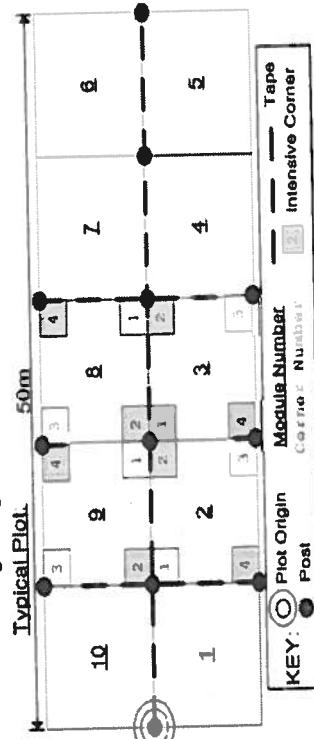
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**HIGH:** greater than 25 percent of the stems of plants in the 1 m<sup>2</sup> nested quadrat and intensive module AND a browse line is evident.



CLEVELAND METROPARKS Plant Community Association

Project Label:  
PCAP

Bracteate *Almeida* 223

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Intensive modules: 4 Plot configuration: 2x5

Plot area (ha): 1.0

Plot no.: 1307

**iii. Browse Level:** use cover classes to describe amount of browse per species over entire plot

Estimate for each intensive module:

row	col	corner	mod	corner														
1	1	4	2	2	3	4	3	4	3	4	8	2	9	9	2	R	R	
1	2	5	3	4	5	6	5	6	5	6	9	5	10	9	5	10	9	
1	3	6	4	5	6	7	6	7	6	7	10	6	11	10	6	11	10	
1	4	7	5	6	7	8	7	8	7	8	11	7	12	11	7	12	11	
1	5	8	6	7	8	9	8	9	8	9	12	8	13	12	8	13	12	
1	6	9	7	8	9	10	9	10	9	10	13	9	14	13	9	14	13	
1	7	10	8	9	10	11	10	11	10	11	14	10	15	14	10	15	14	
1	8	11	9	10	11	12	11	12	11	12	15	11	16	15	11	16	15	
1	9	12	10	11	12	13	12	13	12	13	16	12	17	16	12	17	16	
1	10	13	11	12	13	14	13	14	13	14	17	13	18	17	13	18	17	
1	11	14	12	13	14	15	14	15	14	15	18	14	19	18	14	19	18	
1	12	15	13	14	15	16	15	16	15	16	19	15	20	19	15	20	19	
1	13	16	14	15	16	17	16	17	16	17	20	16	21	20	16	21	20	
1	14	17	15	16	17	18	17	18	17	18	21	17	22	21	17	22	21	
1	15	18	16	17	18	19	18	19	18	19	22	18	23	22	18	23	22	
1	16	19	17	18	19	20	19	20	19	20	23	19	24	23	19	24	23	
1	17	20	18	19	20	21	20	21	20	21	24	20	25	24	20	25	24	
1	18	21	19	20	21	22	21	22	21	22	25	21	26	25	21	26	25	
1	19	22	20	21	22	23	22	23	22	23	26	22	27	26	22	27	26	
1	20	23	21	22	23	24	23	24	23	24	27	23	28	27	23	28	27	
1	21	24	22	23	24	25	24	25	24	25	28	24	29	28	24	29	28	
1	22	25	23	24	25	26	25	26	25	26	29	25	30	29	25	30	29	
1	23	26	24	25	26	27	26	27	26	27	30	26	31	30	26	31	30	
1	24	27	25	26	27	28	27	28	27	28	31	27	32	31	27	32	31	
1	25	28	26	27	28	29	28	29	28	29	32	28	33	32	28	33	32	
1	26	29	27	28	29	30	29	30	29	30	33	29	34	33	29	34	33	
1	27	30	28	29	30	31	30	31	30	31	34	30	35	34	30	35	34	
1	28	31	29	30	31	32	31	32	31	32	35	31	36	35	31	36	35	
1	29	32	30	31	32	33	32	33	32	33	36	32	37	36	32	37	36	
1	30	33	31	32	33	34	33	34	33	34	37	33	38	37	33	38	37	
1	31	34	32	33	34	35	34	35	34	35	38	34	39	38	34	39	38	
1	32	35	33	34	35	36	35	36	35	36	39	35	40	39	35	40	39	
1	33	36	34	35	36	37	36	37	36	37	40	36	41	40	36	41	40	
1	34	37	35	36	37	38	37	38	37	38	41	37	42	41	37	42	41	
1	35	38	36	37	38	39	38	39	38	39	42	38	43	42	38	43	42	
1	36	39	37	38	39	40	39	40	39	40	43	39	44	43	39	44	43	
1	37	40	38	39	40	41	40	41	40	41	44	40	45	44	40	45	44	
1	38	41	39	40	41	42	41	42	41	42	45	41	46	45	41	46	45	
1	39	42	40	41	42	43	42	43	42	43	46	42	47	46	42	47	46	
1	40	43	41	42	43	44	43	44	43	44	47	43	48	47	43	48	47	
1	41	44	42	43	44	45	44	45	44	45	48	44	49	48	44	49	48	
1	42	45	43	44	45	46	45	46	45	46	49	45	50	49	45	50	49	
1	43	46	44	45	46	47	46	47	46	47	50	46	51	50	46	51	50	
1	44	47	45	46	47	48	47	48	47	48	51	47	52	51	47	52	51	
1	45	48	46	47	48	49	48	49	48	49	52	48	53	52	48	53	52	
1	46	49	47	48	49	50	49	50	49	50	53	49	54	53	49	54	53	
1	47	50	48	49	50	51	50	51	50	51	54	50	55	54	50	55	54	
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1	70	73	71	72	73	74	73	74	73	74	77	73	78	77	73	78	77	
1	71	74	72	73	74	75	74	75	74	75	78	74	79	78	74	79	78	
1	72	75	73	74	75	76	75	76	75	76	79	75	80	79	75	80	79	
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1	83	86	84	85	86	87	86	87	86	87	90	86	91	90	86	91	90	
1	84	87	85	86	87	88	87	88	87	88	91	87	92	91	87	92	91	
1	85	88	86	87	88	89	88	89	88	89	92	88	93	92	88	93	92	
1	86	89	87	88	89	90	89	90	89	90	93	89	94	93	89	94	93	
1	87	90	88	89	90	91	90	91	90	91	94	90	95	94	90	95	94	
1	88	91	89	90	91	92	91	92	91	92	95	91	96	95	91	96	95	
1	89	92	90	91	92	93	92	93	92	93	96	92	97	96	92	97	96	
1	90	93	91	92	93	94	93	94	93	94	97	93	98	97	93	98	97	
1	91	94	92															

<u>neto</u>	<u>species</u>
	<u>Virginia</u>
	<u>ensifolius</u>
	<u>Pennsylvanica</u>

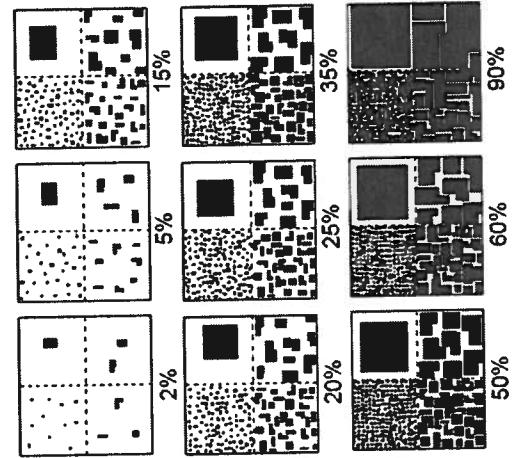
C	%survег litter (bare litter)
C	Voucher #

3	1	cov
	depth	cov
	cov	depth

	depth	dev.	depth	dev.
R	R	Z		
1				

#### EXAMPLES OF PERCENT OF AREA COVERED

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



#### BROWSE RATING NARRATIVE DESCRIPTION

**LOW OR NONE:** there is no measurable browse line AND there are very few or no plants 1-m nested quadrat

and intensive module. In general, low values relate to less than 10 percent, by numbers of stems browsed.

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

**MEDIUM:** browse affects greater than 10 percent and less than 25 percent of stems in the 1 m<sup>2</sup> nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some species of plants.

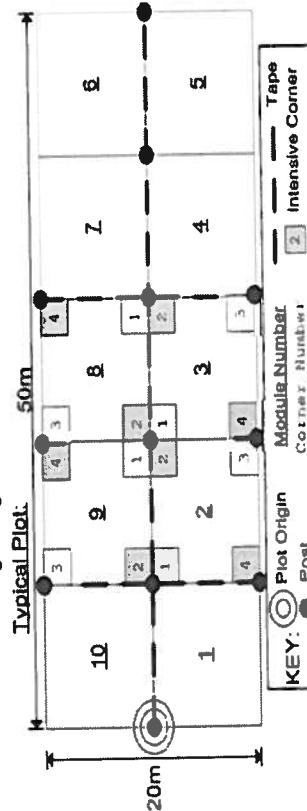
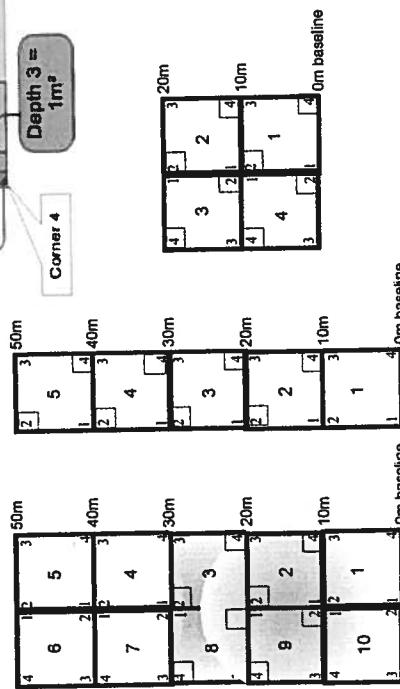
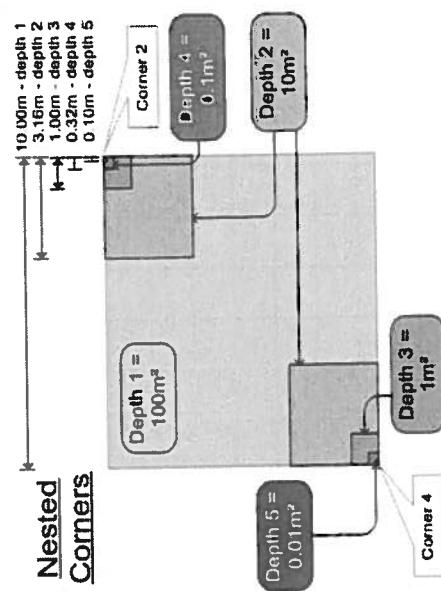
**MEDIUM HIGH** values include evidence of a browse line and 25 percent of stems browsed with very little vegetation regeneration evident. In this rating, for some species of plants, reproduction does not appear to occur or it is very severely limited.

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

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

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: OIMS 2013

Plot No.: 1307

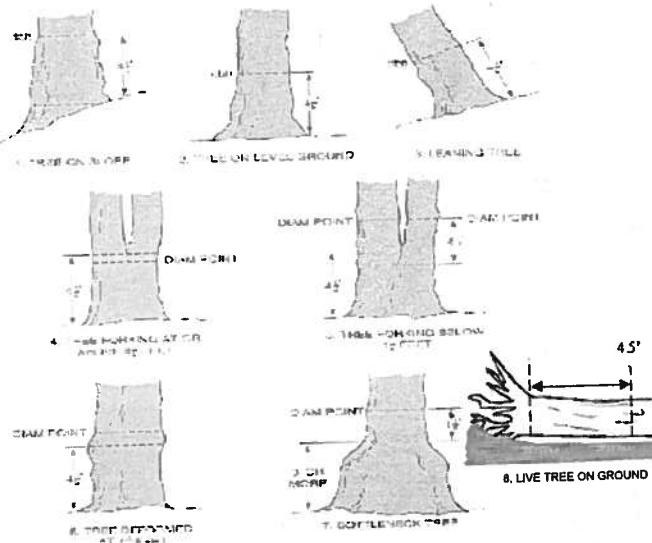
Page: 1 of 4

Cleveland Metroparks

Explain subsample (additional room on back):

mod #	species	c	voucher#	# sub browsed	# shrub sample	size class (cm) woody stems >1.4m	>1.4m															
							0-1.4m	1-2.5	2.5-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	>40 (record each tree)					
1	<i>Ulmus americana</i>	c	c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	<i>Vitis riparia</i>			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	<i>Rosa multiflora</i>	j:		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	Standing dead			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	<i>Prunus</i> sp.			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	<i>Acer saccharinum</i>			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	<i>Rosa multiflora</i>			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	<i>Acer rubrum</i>			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	<i>Fraxinus</i> sp.	j:		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	<i>Ulmus americana</i>	:		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Standing dead			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	<i>Acer negundo</i>			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	<i>Toxicodendron radicans</i>			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Standing dead			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	<i>Ulmus americana</i>	:		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	<i>Fraxinus</i> sp.	:		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	<i>Acer negundo</i>	:		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	<i>Vitis riparia</i>			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Standing dead			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	<i>Fraxinus pennsylvanica</i>	xx		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	<i>Acer negundo</i>	ii		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Standing dead			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	<i>Vitis riparia</i>			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

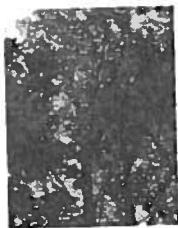
#### DBH Measurement Rules



#### 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: DL MS 2013

Plot No.: 1307

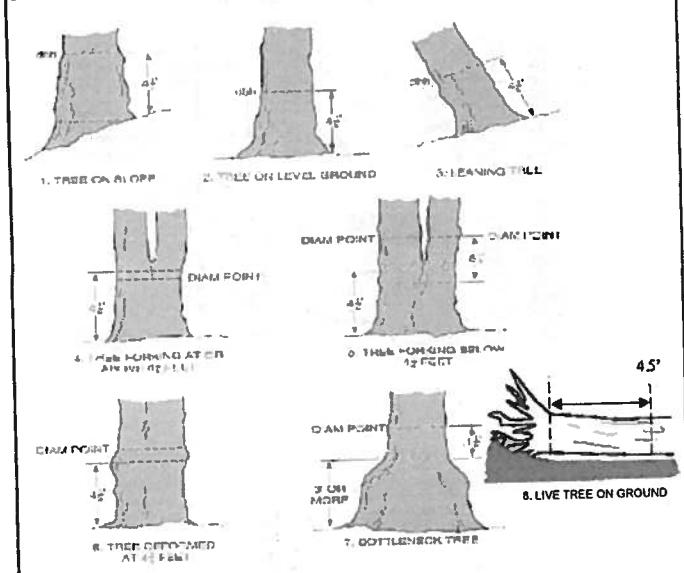
Page: 2 of 4

 Cleveland Metroparks

Explain subsample (additional room on back)

mod #	species	c	voucher#	# stems 0-1.4m browsed	% sub sample	# shrub clumps	size class (cm) woody stems >1.4m										11 >40 (record each tree)
							1	2	3	4	5	6	7	8	9	10	
4	<i>Rosa multiflora</i>			..	..	..											
4	<i>Fraxinus sp.</i>			..	..	..											
5	<i>Carya cordiformis</i>																
5	<i>Vitis riparia</i>																
5	<i>Acer negundo</i>			..													
5	<i>Rosa multiflora</i>					□											
5	<i>Fraxinus pennsylvanica</i>					□											
5	<i>Fraxinus sp.</i>					□											
5	<i>Juglans nigra</i>					..											
5	<i>Prunus pensylvanica</i>			..													
5	<i>Stading dead</i>						..										
5	<i>Lindera benzoin</i>							..									
6	<i>Vitis riparia</i>			..													
6	<i>Fraxinus pensylvanica</i>					□											
6	<i>Acer negundo</i>			..													
6	<i>Ulmus americana</i>			..													
6	<i>Crataegus sp.</i>																
6	<i>Stading dead</i>			..													
6	<i>Fraxinus sp.</i>			..													
6	<i>Rosa multiflora</i>					□											
6	<i>Lindera benzoin</i>			..													
7	<i>Acer negundo</i>			..													
7	<i>Ulmus americana</i>			..													
7	<i>Standing dead</i>																

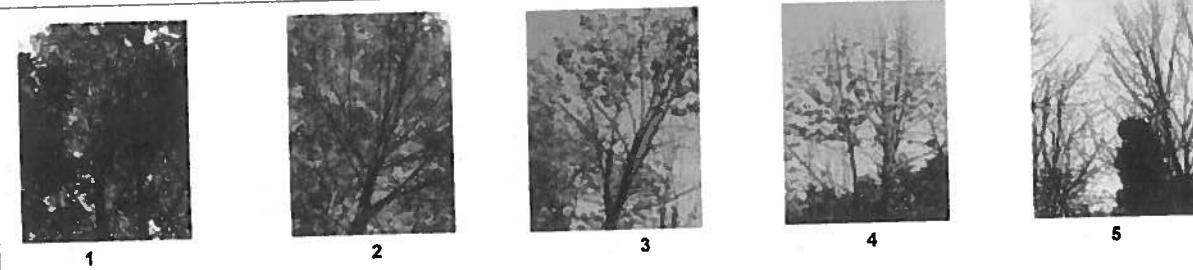
### DBH Measurement Rules



### Woody Stem Deer Browse

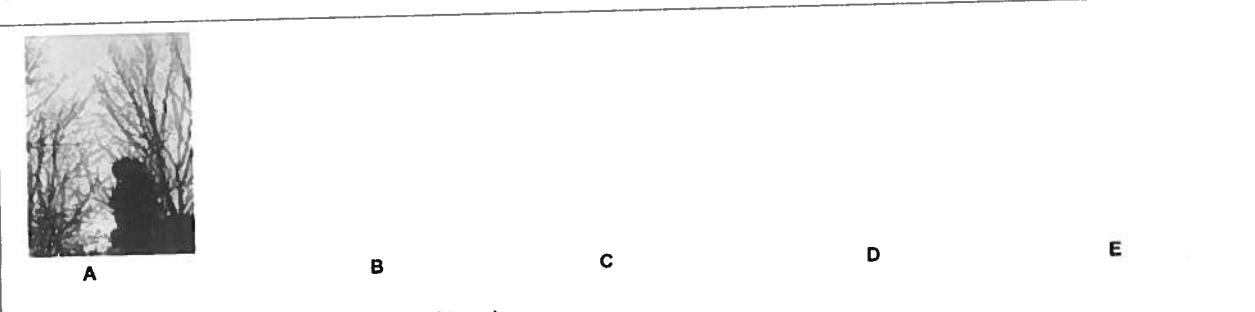
Record the number of stems/plants between 0.5-1.0 meters tall that exhibit evidence of this years deer browse.

Record using the tally system from 1 to 10



### ASH CANOPY CONDITION

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



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

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

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

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

Project Label: PCAP

Project Name: DMS 2013

Plot No.: 1307

Page: 3 of 1

Explain subsample (additional room on back):

© Cleveland Metroparks

mod #	species	c	voucher#	# stems 0.5-1m browsed	% sub sample	# shrub clumps	size class (cm) woody stems >1m											11 >40 (record each tree)
							1	2	3	4	5	6	7	8	9	10		
7	<i>Fraxinus sp.</i>			77														
7	<i>Fraxinus pennsylvanica</i>		91															
8	<i>Fraxinus pennsylvanica</i>		0															
8	Standing dead																	
8	<i>Fraxinus sp.</i>		..															
8	<i>Ulmus americana</i>																	
8	<i>Rosa multiflora</i>		..															
9	<i>Fraxinus sp.</i>																	
9	<i>Ulmus americana</i>																	
9	<i>Acer saccharinum</i>																	
9	<i>Tormodendron sachalin</i>																	
9	Standing dead																	
9	<i>Acer negundo</i>																	
9	<i>Ulmus rubra</i>																	
9	<i>Parthenocissus quinquefolia</i>		..															
9	<i>Rhamnus multiflora</i>																	
10	<i>Acer rubrum</i>																	
10	Standing dead																	
10	<i>Fraxinus sp.</i>																	
10	<i>Ulmus americana</i>																	
10	<i>Ulmus rubra</i>																	
10	<i>Tilia americana</i>																	
10	<i>Acer saccharinum</i>																	
10	<i>Crateagus sp.</i>		0.0															

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

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.

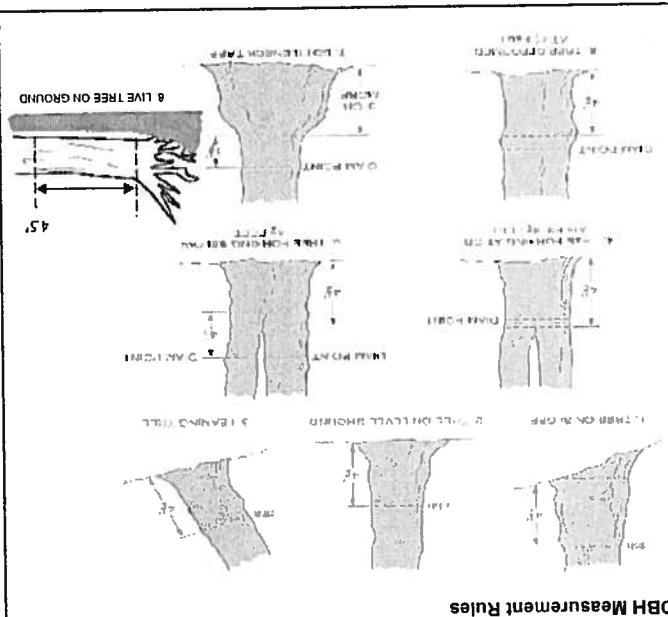
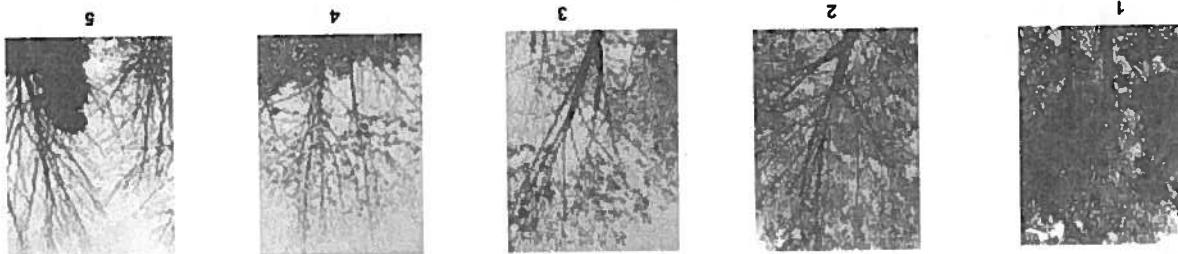
D: Stem still standing and tertiary main branches present.

E: Central stem still standing.



5. Dead canopy: No leaves remain in the canopy portion of the tree. If still counts as a 5 even if there are epiphytic sprouts below the canopy (lowest branch) on the trunk.
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 are 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



	10
Record using the tally system from 1 to 10	
tall that exhibit evidence of this year's deer browse.	
Record the number of stems/plants between 0.5-1.0 meters	
Wood Stem Deer Browse	

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

Project Label: PCAP

Project Name: 01 MS 2013

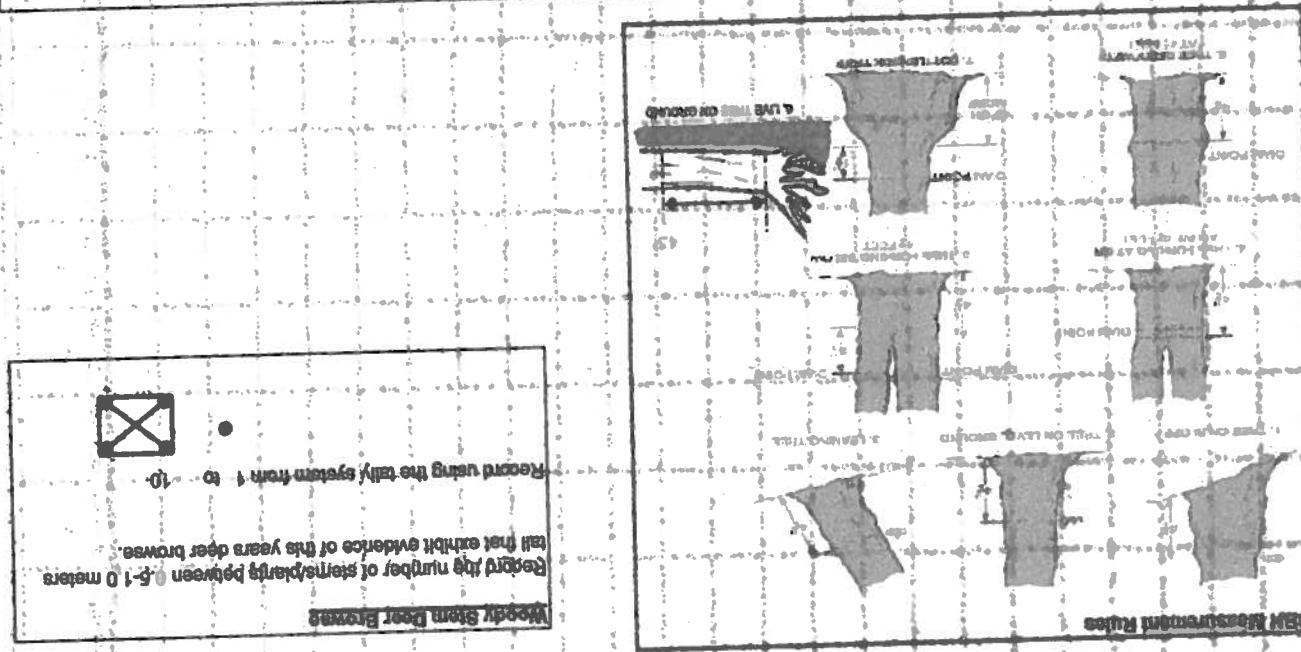
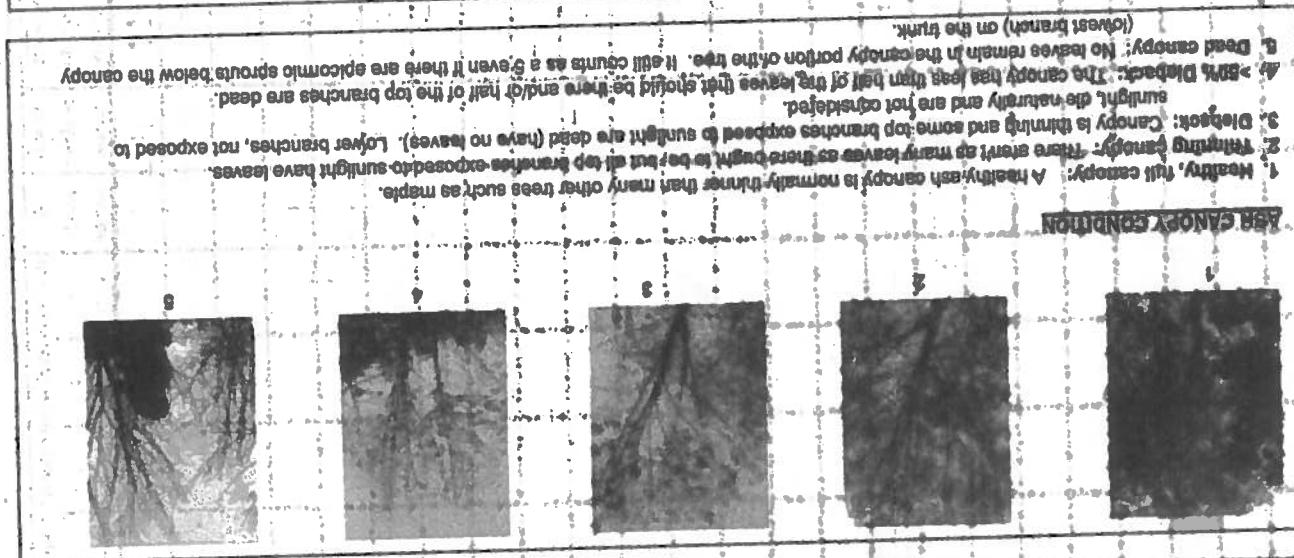
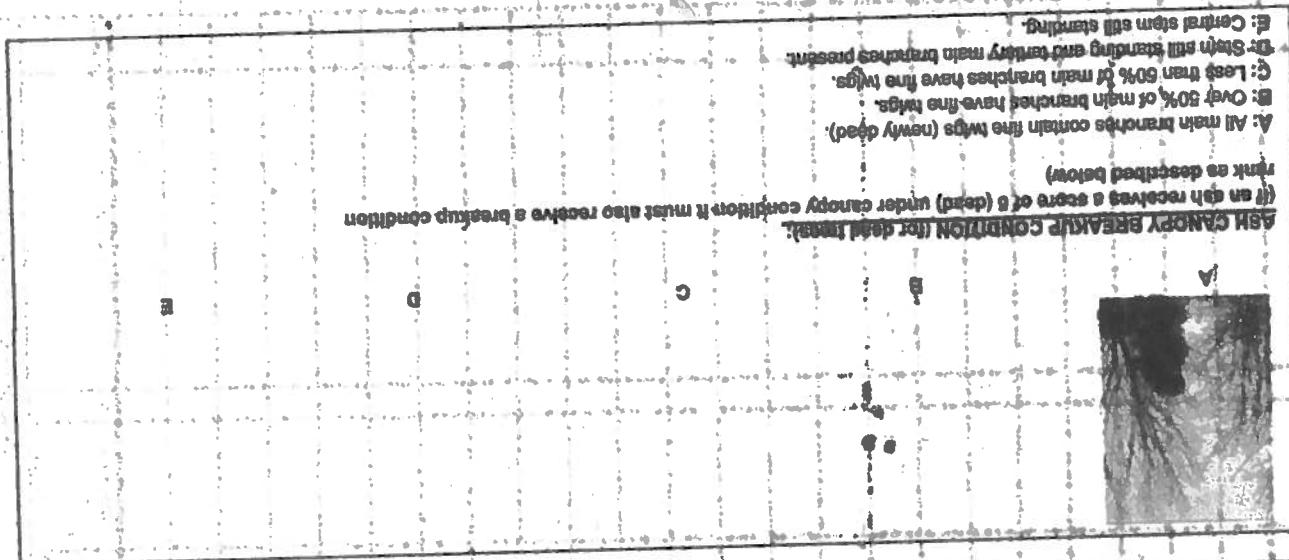
Plot No.: 1307

Page: 4 of 4

Cleveland Metroparks

Explain subsample (additional room on back):

plot #	species	c voucher#	# stems 0-1.4m browsed	% sub sample	# shrub clumps	size class (cm) woody stems	woody stems >1.4m										
							1	2	3	4	5	6	7	8	9	10	11
10	Rosa multiflora																
	H. Viburnum																





CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detection/ Rapid response		Presence				GPS	Presence
		NE	SE	SW	NW		
<i>Microstegium vimineum</i>	Japanese stiltgrass						
<i>Ranunculus ficaria</i>	Lesser Celandine						
<i>Cynanchum louiseae</i> (vine)	Black Swallow-wort						
<i>Butomus umbellatus</i> (wetland)	Flowering Rush						
<i>Heracleum mantegazzianum</i>	Giant Hogweed						
Tier 2: Assess as Needed		# of Plants				comments	# of Plants
		NE	SE	SW	NW		
<i>Acer platanoides</i>	Norway Maple						
<i>Ailanthus altissima</i>	Tree of Heaven						
<i>Lonicera japonica</i> (vine)	Japanese Honeysuckle						
<i>Lythrum salicaria</i> (wetland)	Purple Loosestrife						
<i>Aegopodium podagraria</i> (G-cover)	Bishop's Goutweed						
<i>Celastrus orbiculatus</i> (vine)	Asian Bittersweet						
<i>Torilis</i> sp.	Hedgeparsley						
<i>Conium maculatum</i>	Poison Hemlock						
<i>Rhamnus cathartica</i>	Common Buckthorn (shrub)						
<i>Berberis thunbergii</i>	Japanese Barberry (shrub)						
<i>Alnus glutinosa</i>	European Alder						
<i>Dipsacus laciniatus</i>	Cut-leaf Teasel						
<i>Elaeagnus umbellata</i>	Autumn Olive (shrub)						
<i>Lonicera maackii</i>	Amur Honeysuckle (shrub)						
<i>Euonymus fortunei</i>	Wintercreeper						
Tier 3: Presence is of Interest		# of Plants				comments	# of Plants
		NE	SE	SW	NW		
<i>Convallaria majalis</i> (G-cover)	Lily of the Valley						
<i>Coronilla varia</i> (G-cover)	Crown Vetch						
<i>Eleutherococcus pentaphyllus</i>	Five-leaf Aralia (shrub)						
<i>Pachysandra terminalis</i> (G-cover)	Japanese Pachysandra						
<i>Philadelphus coronarius</i>	Mock Orange (shrub)						
<i>Pulmonaria officinalis</i> (G-cover)	Lungwort						
<i>Rubus phoenicolasius</i>	Wineberry						
<i>Iris pseudacorus</i> (wetland)	Yellow Flag Iris						
<i>Ornithogalum umbellatum</i>	Star of Bethlehem						
<i>Viburnum opulus</i> var. <i>opulus</i>	European Cranberry (shrub)						
<i>Viburnum plicatum</i>	Doublefile Viburnum (shrub)						
Tier 4: Widespread and abundant		Presence				comments	# of Plants
		NE	SE	SW	NW		
<i>Alliaria petiolata</i>	Garlic Mustard	5	3	2	4		
<i>Ligustrum vulgare</i>	Common Privet (shrub)						
<i>L. morrowii</i> , <i>L. tatarica</i>	Bush Honeysuckles (shrub)			1			
<i>Phalaris arundinacea</i>	Reed Canarygrass			2	5		
<i>Phragmites australis</i> (wetland)	Phragmites				2		
<i>Polygonum cuspidatum</i>	Japanese Knotweed						
<i>Frangula alnus</i>	Glossy Buckthorn (shrub)	1	X				
<i>Rosa multiflora</i>	Multiflora Rose (shrub)	4	1	1	4		
<i>Typha angustifolia</i> , <i>T. x. glauca</i>	Cattails (wetland)				5		
<i>Cirsium arvense</i>	Canada thistle						
<i>Dipsacus fullonum</i>	Common Teasel						
<i>Hesperis matronalis</i>	Dame's Rocket				1		
<i>Vinca minor</i> (G-cover)	Periwinkle						

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

CLEVELAND METROPARKS Emerald Ash Borer - *Fraxinus* Sheet

Project Label: PCAP

Project Name: OIMS2013

INTENSIVE MODULES ONLY TREES  $\geq 10\text{cm}$  ONLY

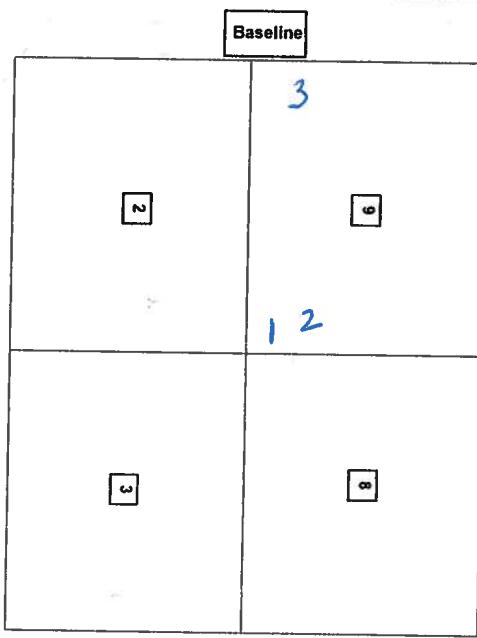
Plot No.: 1307

Date: 4/19/13

Page: 1 of 2

2 of 2  
1307

Module	Tree ID	Species	Dead c	Voucher #	DBH (cm)	H@ DBH	Ash condition	"Dead" condition	ASH ONLY		
									# Exit holes	Epicormic	Woodpecker holes
9	1	<i>Fraxinus sp.</i>			434	3	0	0	0	0	1
9	2	<i>Fraxinus sp.</i>			372	2	0	0	0	0	1
9	3	<i>Fraxinus sp.</i>			377	3	2	1	1	1	1
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
	13										
	14										
	15										
	16										
	17										
	18										
	19										
	20										
	21										
	22										
	23										
	24										
	25										



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

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

- \* If Ash Condition scores 5 (dead) provide breakup score (A-E)
- Count EAB exit holes  $1.25\text{m}^2 \times 21.5\text{m}$
- Woodpecker and epicormic marked present (1) or absent (0)

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detection / Rapid response		Presence				GPS
		NE	SE	SW	NW	
<i>Microstegium vimineum</i>	Japanese stiltgrass					
<i>Ranunculus ficaria</i>	Lesser Celandine					
<i>Cynanchum louiseae</i> (vine)	Black Swallow-wort					
<i>Butomus umbellatus</i> (wetland)	Flowering Rush					
<i>Heracleum mantegazzianum</i>	Giant Hogweed					
Tier 2: Assess as Needed		# of Plants			comments	
		NE	SE	SW	NW	# of Plants
<i>Acer platanoides</i>	Norway Maple					1: 1-10 2: 11-50 3: 51-100 4: 101-1,000 5: >1,000
<i>Ailanthus altissima</i>	Tree of Heaven					
<i>Lonicera japonica</i> (vine)	Japanese Honeysuckle					
<i>Lythrum salicaria</i> (wetland)	Purple Loosestrife					
<i>Aegopodium podagraria</i> (G-cover)	Bishop's Goutweed					
<i>Celastrus orbiculatus</i> (vine)	Asian Bittersweet					
<i>Torilis sp.</i>	Hedgeparsley					
<i>Conium maculatum</i>	Poison Hemlock					
<i>Rhamnus cathartica</i>	Common Buckthorn (shrub)					
<i>Berberis thunbergii</i>	Japanese Barberry (shrub)					
<i>Alnus glutinosa</i>	European Alder					
<i>Dipsacus laciniatus</i>	Cut-leaf Teasel					
<i>Elaeagnus umbellata</i>	Autumn Olive (shrub)					
<i>Lonicera maackii</i>	Amur Honeysuckle (shrub)					
<i>Euonymus fortunei</i>	Wintercreeper					
Tier 3: Presence is of Interest		# of Plants			comments	
		NE	SE	SW	NW	# of Plants
<i>Convallaria majalis</i> (G-cover)	Lily of the Valley					1: 1-10 2: 11-50 3: 51-100 4: 101-1,000 5: >1,000
<i>Coronilla varia</i> (G-cover)	Crown Vetch					
<i>Eleutherococcus pentaphyllus</i>	Five-leaf Aralia (shrub)					
<i>Pachysandra terminalis</i> (G-cover)	Japanese Pachysandra					
<i>Philadelphus coronarius</i>	Mock Orange (shrub)					
<i>Pulmonaria officinalis</i> (G-cover)	Lungwort					
<i>Rubus phoenicolasius</i>	Wineberry					
<i>Iris pseudacorus</i> (wetland)	Yellow Flag Iris					
<i>Ornithogalum umbellatum</i>	Star of Bethlehem					
<i>Viburnum opulus</i> var. <i>opulus</i>	European Cranberry (shrub)					
<i>Viburnum plicatum</i>	Doublefile Viburnum (shrub)					
Tier 4: Widespread and abundant		Presence				comments
		NE	SE	SW	NW	
<i>Alliaria petiolata</i>	Garlic Mustard					X: Yes
<i>Ligustrum vulgare</i>	Common Privet (shrub)					
<i>L. morrowii</i> , <i>L. tatarica</i>	Bush Honeysuckles (shrub)					
<i>Phalaris arundinacea</i>	Reed Canarygrass					
<i>Phragmites australis</i> (wetland)	Phragmites					
<i>Polygonum cuspidatum</i>	Japanese Knotweed					
<i>Frangula alnus</i>	Glossy Buckthorn (shrub)					
<i>Rosa multiflora</i>	Multiflora Rose (shrub)					
<i>Typha angustifolia</i> , <i>T. x. glauca</i>	Cattails (wetland)					
<i>Cirsium arvense</i>	Canada thistle					
<i>Dipsacus fullonum</i>	Common Teasel					
<i>Hesperis matronalis</i>	Dame's Rocket					
<i>Vinca minor</i> (G-cover)	Periwinkle					

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: OLMS 2013

Plot No.: 1307

Page: 1 of 1  
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**STANDING BIOMASS** (required for emergent wetland); collected in 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 #	C1	Corner	Corner

**CLASSIFICATION**

Alt = excellent, F=fit and Confidence

✓ **HYDROSEMANTIC - WETLANDS ONLY:**

✓ **DEPRESSION:**

□ **IMPROVEMENT:** □ Beaver □ Human

□ **RIVERINE:** □ Headwater □ Mainstem □ Channel

□ **SLOPE:** (ground water br. biology or on a physical slope)

□ **FRINGING:** □ Reservoir □ Natural Lake

□ **COASTAL:** (specify sub-class)

□ **BOG:** (strongly, moderately, weakly ombrotrophic)

Fit =

Conf =

#### COVER BY STRATA

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

\*Very tall shrubs are sometimes included in the tree stratum

\*\*Can also include seedlings of shrubs, i.e. all shrubs <0.5m

\*\*\*Tree seedlings are often defined as up to 1.4 m height or as <2.5 cm DBH in which case they would span the herb and shrub layers.

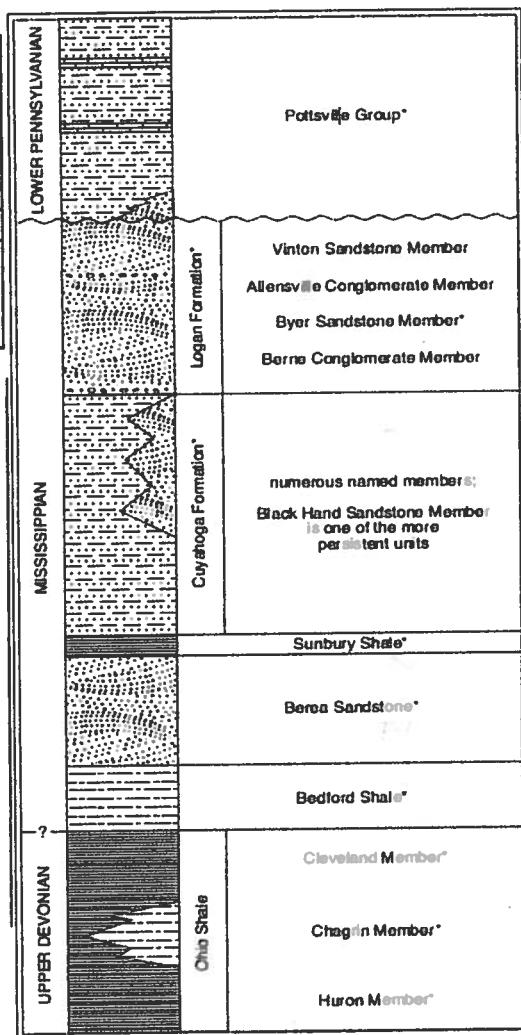
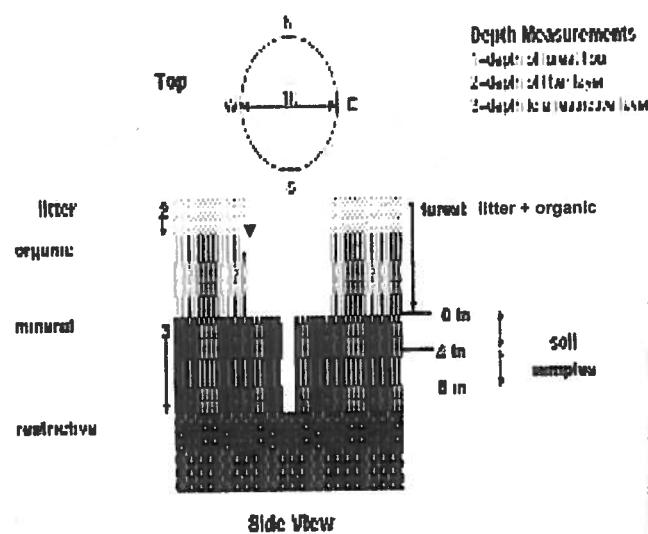


FIGURE 3-20.—Generalized section of Upper Devonian, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses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

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

**SOIL SAMPLES** Standard procedure: collect a soil sample of the top 10 cm of soil from center of each intensive module and composite the sample.

<b>Soil pit module # 2/3 (one per entire plot)</b>	
5 cm	
matrix color	<u>2.5 y 3/3</u>
monile color	<u>N/A</u> <u>5/4</u> <u>6/4-1/3</u>
amoilite	<u>0</u>
oxid roots	<u>Y</u> <u>N</u>
texture*	<u>2</u>
redox features**	<u>Y</u> <u>N</u>
hydr. cond.***	<u>1</u> S M D
20 cm	<u>2.5 y 4/2</u>
matrix color	<u>N/A</u> <u>0</u>
monile color	<u>0</u>
oxic roots	<u>Y</u> <u>N</u>
texture*	<u>2</u>
redox features**	<u>Y</u> <u>N</u>
hydr. cond.***	<u>1</u> S M D
Hydro. cond. *** <u>1</u> S M D	
<b>Soil Collection Module</b> <u>Horizon (A, B, C)</u>	
A	
2,3,8,9 composted	
Web Soil Survey Information:	
Soil Series/Type: <u>Ch - Cheviot Silt loam</u>	
Soil Series/Source: Ohio Soil Survey	
Landform type: <u>Flood Plains</u>	
Depth to rest. Layer: <u>More than 80 in</u> <u>10 in</u>	
Parent Material: <u>Alluvium</u>	
<b>DRAINAGE*</b>	
□ Excessively dr. <input checked="" type="checkbox"/> Well drained	
□ Somewhat poorly dr. <input type="checkbox"/> Very poorly dr.	
□ Impermeable surface	
<b>AC 6/20</b>	
* refer to texture classes on reverse side	
** e.g. hydrogen sulfide odor, gleying, etc.	
*** Circle one: I=undulated S=saturated M=moist D=dry	
Notes: include evidence of earthworms (worms, castings, middens)	

SOIL DEPTH MEASUREMENT: Measure to the nearest 0.1 cm in center of intensive modules. If >30.5 cm, record as >30	
1 litter+ organic depth (cm)	<u>1.0</u>
2 litter depth (cm)	<u>0</u>
water depth (cm)	<u>0</u>
depth sat (cm)	<u>0</u>

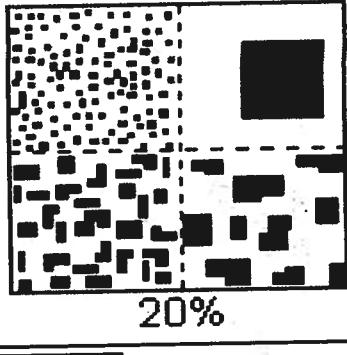
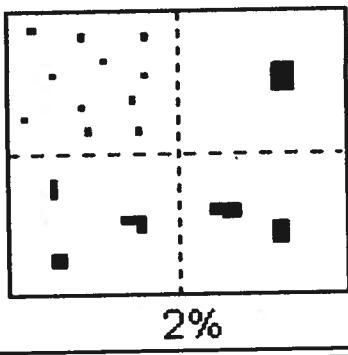
<b>COVER BY STRATA</b> estimate using midpoints of 5,9x3, 8, 13 %	
<b>STRATA</b>	
Tree	Height Range (ft)
	<u>&gt;5m -</u>
Shrub	Total Cover (%)
	<u>43%</u>
Herb	Total Cover (%)
	<u>53%</u>
(Floating)*	Total Cover (%)
	<u>N/A</u>
(Aquatic)*	Total Cover (%)
	<u>N/A</u>

SEE BACK OF PAGE FOR 'TYPICAL' STRATA  
 DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.

<b>TRAIL INFORMATION:</b> record type and cover for each	
Type	% Cover
<input type="checkbox"/> All Purpose	<u>40%</u>
<input type="checkbox"/> Bridle	
<input type="checkbox"/> Hiking sanctioned	
<input type="checkbox"/> Bootleg unsanctioned	
<input type="checkbox"/> Gravel	
<input checked="" type="checkbox"/> Deer	<u>2%</u>
<b>AC 6/20</b>	
SRE 7-30-13	

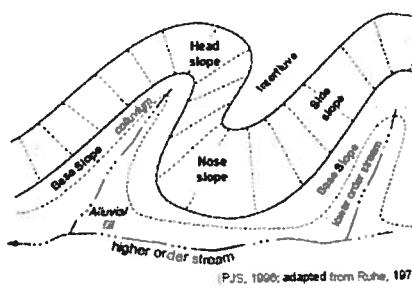
PERCENT MOTTLES (USE CLASS CODES):

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

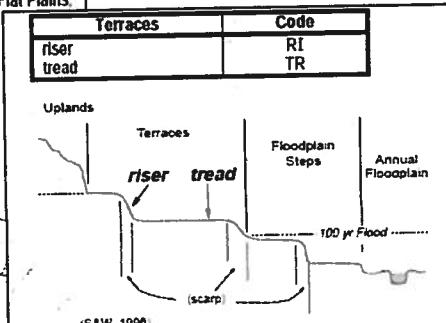


Geomorphic Component - Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains; e.g., (for Hills) nose slope or NS.

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

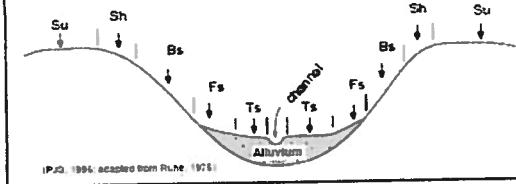


(US, 1990; adapted from Rufe, 1975)



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

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

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

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

**SEMI-PERMANENTLY FLOODED (exposed <1/year):** Surface water persists throughout the growing season in most years. Land surface is normally saturated when water level drops below soil surface. Includes Cowardin's Intermittently Exposed and Semipermanently Flooded modifiers.

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

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

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

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

Site ID: PCAP MS 1307

DATE: 06/19/2013

Location:

● AA Center ON OS OE OW

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

○ Plot 1 ○ Plot 2 ○ Plot 3

## Buffer Natural Cover Strata

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

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

Buffer Plot 1	Canopy Type: <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 type="radio"/> N	Flag	
Big Trees (>0.3m DBH)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Big Trees (>0.3m DBH)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Big Trees (>0.3m DBH)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
Small Trees (<0.3m DBH)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Small Trees (<0.3m DBH)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Small Trees (<0.3m DBH)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input 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 type="radio"/>	<input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input 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 type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input 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 type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
Woody Shrubs, Saplings (<0.5m HIGH)	<input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input 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 type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input 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 type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
Herbs, Forbs and Grasses	<input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Herbs, Forbs and Grasses	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Herbs, Forbs and Grasses	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
Bare ground	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Bare ground	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Bare ground	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
Litter, duff	<input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Litter, duff	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Litter, duff	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
Rock	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Rock	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Rock	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <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 type="radio"/>	<input type="radio"/> <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 type="radio"/>	<input type="radio"/> <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 type="radio"/>	<input type="radio"/> <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 type="radio"/>	<input type="radio"/> <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 type="radio"/>	<input type="radio"/> <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 type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input 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 checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Ditches, Channelization	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Pasture/Hay	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>		
Road - two lane	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Dike/Dam/Road/RR Bed (IMPEDE FLOW)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Range	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>		
Road - four lane	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Water Level Control Structure	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Row Crops	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>		
Parking Lot/Pavement	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excavation, Dredging	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Fallow Field (RECENT-RESTING ROW CROP FIELD)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>		
Golf Course	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Fill/Spoil Banks	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Fallow Field (OLD - GRASS, SHRUBS, TREES)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>		
Lawn/Park	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Freshly Deposited Sediment (UNVEGETATED)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Nursery	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>		
Suburban Residential	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil Loss/Root Exposure	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Dairy	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>		
Urban/Multifamily	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Wall/Riprap	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Orchard	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>		
Landfill	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Inlets, Outlets	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Confined Animal Feeding	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>		
Dumping	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Point Source/Pipe (EFFLUENT OR STORMWATER)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Rural Residential	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>		
Trash	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Impervious surface input (SHEETFLOW)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Gravel Pit	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>		
Other: _____	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Irrigation	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>		
Other: _____	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>		

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



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

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

Site ID: PCAP MS 1307

DATE: 06 / 19 / 2013

Location:  AA Center  N  OS  OE  OW

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

 Plot 1  Plot 2  Plot 3

## Buffer Natural Cover Strata

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

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

Buffer Plot 1	Canopy Type: <input type="radio"/> D <input type="radio"/> E		Absent: <input type="radio"/>	Buffer Plot 2	Canopy Type: <input type="radio"/> D <input type="radio"/> E		Absent: <input type="radio"/>	Buffer Plot 3	Canopy Type: <input type="radio"/> D <input type="radio"/> E		Absent: <input type="radio"/>
	Leaf Type: <input type="radio"/> B <input type="radio"/> N	Flag			Leaf Type: <input type="radio"/> B <input type="radio"/> N	Flag			Leaf Type: <input type="radio"/> B <input type="radio"/> N	Flag	
Big Trees (>0.3m DBH)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Big Trees (>0.3m DBH)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Big Trees (>0.3m DBH)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>
Small Trees (<0.3m DBH)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Small Trees (<0.3m DBH)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Small Trees (<0.3m DBH)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>
Woody Shrubs, Saplings (0.5m-5m HIGH)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Woody Shrubs, Saplings (0.5m-5m HIGH)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Woody Shrubs, Saplings (0.5m-5m HIGH)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>
Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>
Herbs, Forbs and Grasses	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Herbs, Forbs and Grasses	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Herbs, Forbs and Grasses	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>
Bare ground	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Bare ground	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Bare ground	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>
Litter, duff	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Litter, duff	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Litter, duff	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>
Rock	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Rock	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Rock	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>
Water	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Water	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Water	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>
Submerged Vegetation	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Submerged Vegetation	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Submerged Vegetation	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input 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"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Ditches, Channelization	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Pasture/Hay	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Road - two lane	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Dike/Dam/Road/RR Bed (IMPEDE FLOW)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Range	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Road - four lane	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Water Level Control Structure	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Row Crops	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Parking Lot/Pavement	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excavation, Dredging	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Fallow Field (RECENT-RESTING ROW CROP FIELD)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Golf Course	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Fill/Spoil Banks	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Fallow Field (OLD - GRASS, SHRUBS, TREES)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lawn/Park	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Freshly Deposited Sediment (UNVEGETATED)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Nursery	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Suburban Residential	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil Loss/Root Exposure	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Dairy	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Urban/Multifamily	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Wall/Riprap	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Orchard	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Landfill	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Inlets, Outlets	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Confined Animal Feeding	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dumping	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Point Source/Pipe (EFFLUENT OR STORMWATER)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Rural Residential	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Trash	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Impervious surface input (SHEETFLOW)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Gravel Pit	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other: _____	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Irrigation	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other: _____	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Industrial Development Stressors				Habitat/Vegetation Stressors										
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Oil Drilling	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Forest Clear Cut	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Herbicide Use	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gas Wells	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Forest Selective Cut	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Mowing/Shrub Cutting	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mine (surface)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Tree Plantation	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Trails	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mine (underground)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Tree Canopy Herbivory (INSECT)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil Compaction (ANIMAL OR HUMAN)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Military	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Shrub Layer Browsed (WILD OR DOMESTIC)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Offroad vehicle damage	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other: _____	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Highly Grazed Grasses (OVERALL < 3 HIGH)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil erosion (FROM WIND, WATER, OR OVERUSE)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other: _____	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Recently Burned Forest Canopy	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other: _____	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Recently Burned Grassland (BLACKENED)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<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
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Use Decimal Degrees: NAD83

Latitude North 41 32 383 Longitude West 081 80 635

Flag	Location of coordinates (choose one):				
<input type="radio"/> AA CENTER	<input 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)

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

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"/>
Water Hyacinth	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Knotweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Kudzu	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Yellow Flowering Heart	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Japanese Knotweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Multiflora Rose	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Giant Salvinia	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Perennial Pepperweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Buckthorn	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Garlic Mustard	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Giant Reed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Himalayan Blackberry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Poison Hemlock	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Chenopodium	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Tamarisk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mile-A-Minute Weed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Reed Canary Grass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Birdsfoot Trefoil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Reed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Canada Thistle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Leaky Spurge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other	<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: PCAP MS1307 Date: 06/19/2013

Retrieved by (initials):

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

Reviewed by (initial): \_\_\_\_\_

Site ID: PCAP ms 1307

DATE: 06 / 19 / 2013

1

Location:

O AA Center O N O S O E O W

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

O Plot 1 O Plot 2 O Plot 3

## Buffer Natural Cover Strata

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

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

Buffer Plot 1	Canopy Type: D E		Absent: 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-5m HIGH)	0 1 2 3 4	
Woody Shrubs, Saplings (<0.5m HIGH)	0 1 2 3 4		Woody Shrubs, Saplings (<0.5m HIGH)	0 1 2 3 4		Woody Shrubs, Saplings (<0.5m HIGH)	0 1 2 3 4		Woody Shrubs, Saplings (<0.5m HIGH)	0 1 2 3 4	
Herbs, Forbs and Grasses	0 1 2 3 4		Herbs, Forbs and Grasses	0 1 2 3 4		Herbs, Forbs and Grasses	0 1 2 3 4		Herbs, Forbs and Grasses	0 1 2 3 4	
Bare ground	0 1 2 3 4		Bare ground	0 1 2 3 4		Bare ground	0 1 2 3 4		Bare ground	0 1 2 3 4	
Litter, duff	0 1 2 3 4		Litter, duff	0 1 2 3 4		Litter, duff	0 1 2 3 4		Litter, duff	0 1 2 3 4	
Rock	0 1 2 3 4		Rock	0 1 2 3 4		Rock	0 1 2 3 4		Rock	0 1 2 3 4	
Water	0 1 2 3 4		Water	0 1 2 3 4		Water	0 1 2 3 4		Water	0 1 2 3 4	
Submerged Vegetation	0 1 2 3 4		Submerged Vegetation	0 1 2 3 4		Submerged Vegetation	0 1 2 3 4		Submerged Vegetation	0 1 2 3 4	

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

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

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

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

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

2428168304

at ~38m end of Cleve. Metopeurus apparently, beyond pipe line

May 2011

Latitude North **41.32273** Longitude West **081.80561**  
Use Decimal Degrees; NAD83

Flag

Comments

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

Flag placed on the Buffer Transects and the nearest practicable location ALONG THE TRANSCT. 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 will indicate the location of the nearest practicable Buffer Plot.

If Buffer Plot 3 can not be accessed, take the plot coordinates at the center 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.

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.

### PLT COORDINATES

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"/>	<input type="radio"/>	Johnson Grass
Water Hyacinth	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Knotweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Kudzu
Yellow Flagging Heart	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Japanese Knotweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Multiflora Rose
Giant Salvinia	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Pereennial Pepperweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Buckthorn
Garlic Mustard	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Giant Reed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Himalayan Blackberry
Poison Hemlock	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cheatgrass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Mile-A-Minute Weed
Birdsfoot Trefoil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Reed Canary Grass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Reed
Canada Thistle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Leafy Spurge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other

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

Site ID: **PCAP MS 1307** Date: **06/19/2013**

Revised by (initials):

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

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

Site ID: PCAP MS 1307DATE: 06/19/2013

Location:

O AA Center O N O S O E O W

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

O Plot 1 O Plot 2 O Plot 3

## Buffer Natural Cover Strata

Fill in bubbles for all that apply: Canopy Type: D = Deciduous; E = Evergreen. Leaf Type: B = Broadleaf, N = Needle Leaf. Absent: No tree canopy. Strata Section: Fill in appropriate cover class bubble for each strata type for each plot. 0 = Absent; 1 = Sparse(&lt;10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (&gt;75%)

Buffer Plot 1	Canopy Type: (D) (E)		Absent: (0)	Buffer Plot 2	Canopy Type: (D) (E)		Absent: (0)	Buffer Plot 3	Canopy Type: (D) (E)		Absent: (0)
	Leaf Type: (B) (N)	Flag			Leaf Type: (B) (N)	Flag			Leaf Type: (B) (N)	Flag	
Big 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"/>										
Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/>										
Herbs, Forbs and Grasses	<input type="radio"/>										
Bare ground	<input type="radio"/>										
Litter, duff	<input type="radio"/>										
Rock	<input type="radio"/>										
Water	<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: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		

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

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

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

2428168304

PLOT COORDINATES									
Fill bubble if present - Plot 1 2 3 Flag Fill bubble if present - Plot 1 2 3 Flag									
☐ Confirms a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble									
☐ 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"/>
☐ Yellow Flowering 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"/>
☐ 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"/>
☐ 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"/>
☐ Mile-A-Minute Weed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Chenopodium	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tamarisk	<input type="checkbox"/>
☐ Birdfoot Trefoil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Reed Canary Grass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>
☐ Canada Thistle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Common Reed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leary Sedge	<input type="checkbox"/>
☐ AA CENTER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Latitude North	41	32144	Longitude West	081.80626	Use Decimal Degrees; NAD83
Location of coordinates (choose one): <input type="checkbox"/> AA CENTER <input type="checkbox"/> N3 <input type="checkbox"/> S3 <input type="checkbox"/> E3 <input type="checkbox"/> W3 <input type="checkbox"/> Nearest practicable location (flag and comment below)									
Flag <input type="checkbox"/> 130765									
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.									
Plots are centered on the Buffer Transects and the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plot 3 can not be accessed, take the plot coordinates of the center of the Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.									
Plots are centered on the Buffer Transects and the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plot 3 can not be accessed, take the plot coordinates of the center of the Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.									
Flag box and describes 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.									
Flag box and describes 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.									
Flag and comment below the nearest practicable location (flag and comment below)									
Comments Flag									

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

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

Site ID: PCAP MS 1307

DATE: 06 / 19 / 2013

Location:

O AA Center O N O S O E O W

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

O Plot 1 O Plot 2 O Plot 3

## Buffer Natural Cover Strata

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

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

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

Industrial Development Stressors				Habitat/Vegetation Stressors											
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	
Oil Drilling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Forest Clear Cut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Herbicide Use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Gas Wells	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Forest Selective Cut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Mowing/Shrub Cutting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Mine (surface)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Tree Plantation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Trails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Mine (underground)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Tree Canopy Herbivory (INSECT)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Soil Compaction (ANIMAL OR HUMAN)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Military	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Shrub Layer Browsed (WILD OR DOMESTIC)	<input type="radio"/>	<input type="radio"/>	<input checked="" 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

PLOT COORDINATES											
Flag			Flag			Flag			Flag		
<input type="checkbox"/> AA CENTER	<input type="checkbox"/> N3	<input type="checkbox"/> S3	<input type="checkbox"/> E3	<input type="checkbox"/> W3	<input type="checkbox"/> N3	<input type="checkbox"/> S3	<input type="checkbox"/> E3	<input type="checkbox"/> W3	<input type="checkbox"/> AA CENTER	<input type="checkbox"/> N3	<input type="checkbox"/> S3
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.											
If Buffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the flag box, and describe where the coordinates were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.											
Location of coordinates (choose one):											
Latitude North 41.32264      Longitude West 081.80741      Use Decimal Degrees; NAD83											
Flag											
Comments											
FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)											
Site ID: DATE: 06/19/2013											
Reviewed by (initials):											
○ Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble											
Fill bubble if present - Plot 1 2 3 Flag      Fill bubble if present - Plot 1 2 3 Flag      Fill bubble if present - Plot 1 2 3 Flag											
Eurasian Watermilfoil      Purple Loosestrife      Johnson Grass      Johnson Grass      Johnson Grass      Johnson Grass											
Water Hyacinth      Knotweed      Kudzu      Kudzu      Kudzu      Kudzu											
Yellow Floating Heart      Japanese Knotweed      Multiflora Rose      Multiflora Rose      Multiflora Rose      Multiflora Rose											
Giant Salvinia      Perennial Pepperweed      Common Buckthorn      Common Buckthorn      Common Buckthorn      Common Buckthorn											
Garlic Mustard      Giant Reed      Himalayan Blackberry      Himalayan Blackberry      Himalayan Blackberry      Himalayan Blackberry											
Posidonia Hemicock      Chehalis Grass      Tamariisk      Tamariisk      Tamariisk      Tamariisk											
Mile-A-Minute Weed      Reed Canary Grass      Other      Other      Other      Other											
Birdsfoot Trefoil      Common Reed      Other      Other      Other      Other											
Canada Thistle      Leafy Spurge      Other      Other      Other      Other											