

CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form



Project Label: PCAP

Plot No: 1196 Date Sampled: 8-17-11 Lead: Eyerenbach

Comment required if item answer is NO

Parking/Access outside of Park Boundaries:	Y <input checked="" type="radio"/> N <input type="radio"/>	If yes, write details in Comments section below
Field journals completed	Y <input type="radio"/> N <input checked="" type="radio"/>	
Site sketch made on 1:3000 map?	<input checked="" type="radio"/> N	
Check cover page	X-axis Bearing of plot recorded <input checked="" type="radio"/>	N <input type="radio"/>
	GPS coords. Recorded <input checked="" type="radio"/>	N <input type="radio"/>
	North direction recorded <input checked="" type="radio"/>	N <input type="radio"/>
	Photographs taken? <input checked="" type="radio"/>	N <input type="radio"/>
Plot No., Date agreement on all pages?	<input checked="" type="radio"/> N	
Header data completed all pages?	<input checked="" type="radio"/> N	
Cover classes recorded in all intensive modules	<input checked="" type="radio"/> N	
Browse Level By Species	<input checked="" type="radio"/> N	
Woody stem quality control check	<input checked="" type="radio"/> N	
Invasive plant quality control check	<input checked="" type="radio"/> N	
Ash trees mapped	<input checked="" type="radio"/> N	
Cover by Strata? (confirm cover type)	<input checked="" type="radio"/> N	
Soil samples collected with matching plot #	<input checked="" type="radio"/> N	
Vouchers labeled on datasheet with initials and number	<input checked="" type="radio"/> N	
Vouchers labeled on collection bag	<input checked="" type="radio"/> N	
Pink flags removed	<input checked="" type="radio"/> N	
Data sheet QA before leaving site?	<input checked="" type="radio"/> N	
Common equipment returned to tub.	Y <input type="radio"/> N <input checked="" type="radio"/>	
Data sheets scanned?	8-23-11	Enter date to left 8-23-11
Final data sheets scanned?	9-2-11	Enter date to left
Buffer Widths measured?	<input checked="" type="radio"/> N	
Web Soil Survey	<input checked="" type="radio"/> N	
Voucher Location	Refrigerator	Y <input type="radio"/> N <input checked="" type="radio"/>
(# vouchers collected)	Press (#)	Enter number to left
	Drier	Y <input type="radio"/> N <input checked="" type="radio"/>
	Identified	Y <input type="radio"/> N <input checked="" type="radio"/>
	Mounted	Y <input type="radio"/> N <input checked="" type="radio"/>
	Thrown away	Y <input type="radio"/> N <input checked="" type="radio"/>

GRIS point verification: Is plot sampleable?

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

Additional Comments:

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Project Label: PCAP

Plot No.: 1196 Page 2 of 2

Project Name: Q1B62011

CLASSIFICATION		STAND SIZE		DISTURBANCES				
(FIT = excellent, good, fair, poor, CONF = high, med, low)		Fit and Confidence		type*	severity**	yrs ago	% of plot	description
Hydrogeomorphic class (WETLANDS ONLY):				<input type="checkbox"/> >1,000 x plot size	Human			<u>Deer browse</u>
<input type="checkbox"/> DEPRESSION		Fit= <u>Conf=</u>		<input type="checkbox"/> > 100 x plot size	Natural			
<input type="checkbox"/> IMPOUNDMENT		Fit= <u>Conf=</u>		<input type="checkbox"/> 10-100 x plot size	Fire			
<input type="checkbox"/> RIVERINE		Fit= <u>Conf=</u>		<input type="checkbox"/> 3-10 x plot size	Cut			
<input type="checkbox"/> SLOPE (ground water hydrology or on a physical slope)		Fit= <u>Conf=</u>		<input checked="" type="checkbox"/> 1-3 x plot size	Animal	<u>H</u>	<u>100</u>	<u>Deer Browse</u>
<input type="checkbox"/> FRINGING		Fit= <u>Conf=</u>		<input type="checkbox"/> < plot size	Other			
<input type="checkbox"/> COASTAL (specify subclass)		Fit= <u>Conf=</u>						
<input type="checkbox"/> BOG (strongly, moderately, weekly ombrotrophic)		Fit= <u>Conf=</u>						
Ohio EPAYBI Plant Community Class (WETLANDS ONLY):		Former Land Use: <u>Golf Course</u>						
<input type="checkbox"/> FOREST		Fit= <u>Conf=</u>						
<input type="checkbox"/> SWAMP FOREST		Fit= <u>Conf=</u>						
<input type="checkbox"/> FOREST		Fit= <u>Conf=</u>						
<input type="checkbox"/> EMERGENT		Fit= <u>Conf=</u>						
<input type="checkbox"/> MARSH		Fit= <u>Conf=</u>						
<input type="checkbox"/> SHRUB SWAMP		Fit= <u>Conf=</u>						
<input type="checkbox"/> TALL SH. BOG		Fit= <u>Conf=</u>						
MODIFIED NATURESERVE CLASS*		Fit= <u>Conf=</u>						
CODE (on separate form): <u>D</u>								
COMMUNITY NAME: <u>Mixed Forest</u>								
HOMOGENEITY				Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.) Plot was located in a wooded area between 2 golf fairways. Plot was highly vegetated on the western side and gradually depauperates as you move east. Lots of golf balls were hit into the wooded area. Interesting mix of vegetation due to the disturbance of the golf course. Browse was high with an evident deer trail in plot and a browse line.				
<input type="checkbox"/> Homogeneous								
<input type="checkbox"/> Compositional trend across the plot								
<input type="checkbox"/> Conspicuous inclusions								
<input type="checkbox"/> Irregular/pattern mosaic								

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

Project Label: PCAP

Project name: 01852011

Plot no.: 1196

Plot area (ha): 0.04

Range 1 or 3

Total modules: 4

Visual est. % open water entire site: 0

Intensive modules: 4

Plot configuration: 1x4

Visual est. % Invasives entire site: 25

Cleveland
Metroparks

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

%unveg. ground (bare soil)

%unveg. litter(bare litter)

Strata - Cov. entire plot:

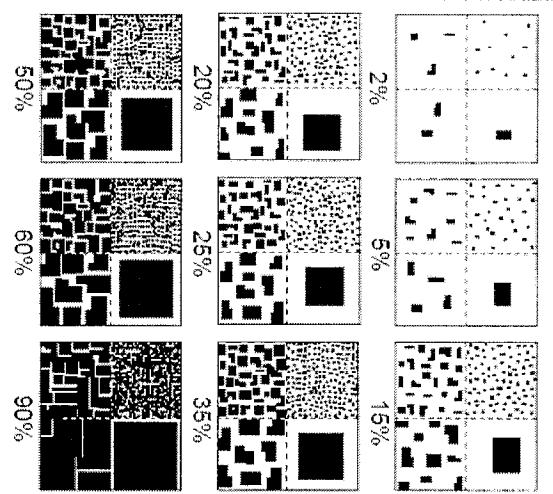
Visual est. %unveg. o.w. entire site:

Visual est. %Invasives entire site:

T	S	H	(F)	(A)	Br	Species	Estimate for each intensive module:													
							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	depth
7	2	Fraxinus	sp.	altissima	3	Seedlings	3	2	4	4	2	4	2	4	2	2	2	1	2	35
2	2	Agave	sp.	attenuata	4	2	4	2	2	5	3	3	4	2	2	2	2	2	2	2
2	2	Smilax	rotundifolia	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
5	2	Symplocarpus	foetidus	lutea	5	SRE 499	2	4	2	3	4	2	3	3	2	2	2	3	2	2
6	2	Osmunda	claytoni	cinnamomea	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
6	2	Tilia	americana	cordata	4	8	4	1	4	2	1	2	1	2	1	2	1	2	1	2
2	2	Critagia	sp.	quinquefolia	3	5	3	3	5	4	1	3	2	1	2	1	2	1	2	1
2	2	Panthousus	sp.	petiolarata	3	2	4	3	2	2	4	2	3	2	2	3	2	2	3	2
2	2	Solidago	canescens	canescens	2	2	2	1	2	2	1	2	1	2	1	2	1	2	1	2
2	2	Acer	spicatum	spicatum	2	1	2	4	2	3	2	2	1	2	1	2	1	2	1	2
2	2	Ulmus	sp.	sempervirens	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	3	Saururus	chinesis	sp.	1	4	1	3	2	4	5	4	5	4	5	4	5	4	5	4
4	2	Quercus	coerulea	coerulea	2	7	4	5	5	4	5	4	5	4	5	4	5	4	5	4
2	3	Frangula	alnus	sp.	3	1	3	2	3	1	3	2	2	1	3	2	1	3	2	1
2	2	Vitis	vinifera	sp.	3	1	3	2	3	1	3	2	2	1	3	2	1	3	2	1
1	1	Taraxacum	officinale	sp.	2	1	3	2	2	1	1	1	1	1	1	1	1	1	1	1
2	2	Toxicodendron	radicans	radicans	2	1	3	2	2	1	1	1	1	1	1	1	1	1	1	1
1	2	Arisaema	trifoliatum	sp.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	2	Barberis	thunbergii	sp.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	2	Rosa	multiflora	sp.	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	Oxalis	stricta	sp.	1	2	2	2	2	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 given box, each quadrant



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

BROWSE RATING NARRATIVE DESCRIPTION

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

and intensive module. In general, low values relate to less than 10 percent, by numbers of stems browsed. **MEDIUM LOW** values include evidence of browse at

about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-

normal in comparison to low browse areas. For example, trilliums may flower and fruit, but jewelweed and arrowwood viburnum exhibit browse.

MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m² nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of

of plants. 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.

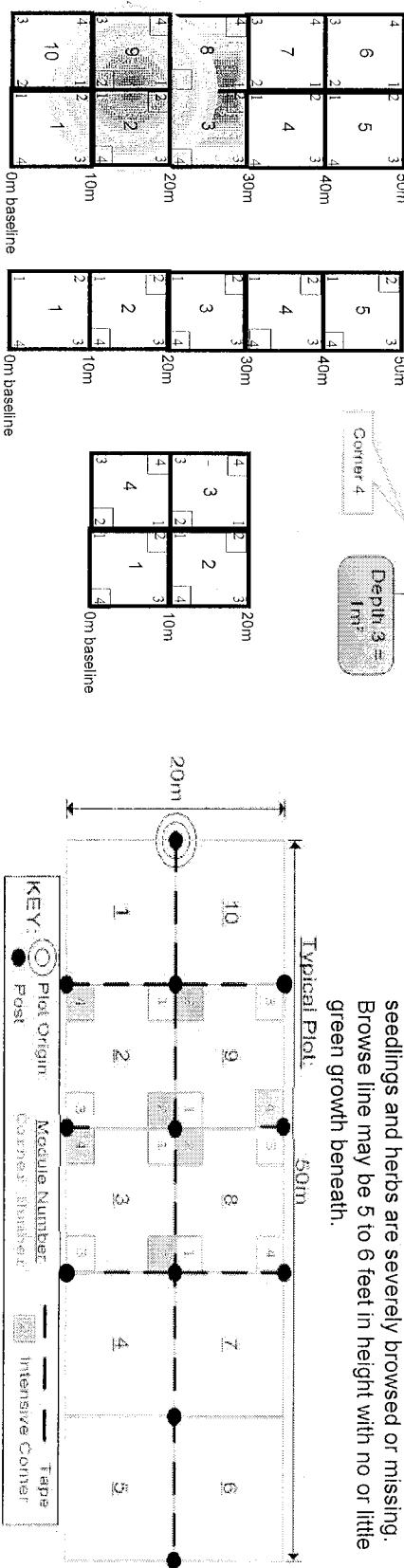
MEDIUM HIGH values include evidence of a browse line and 25 percent of stems browsed with very little vegetation regeneration evident. In this rating, for some

species of plants, reproduction does not appear to occur or it is very severely limited.

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

VERY HIGH values include extensive browse conditions where the browse line is very evident AND almost all browse line is evident.

seedlings and herbs are severely browsed or missing. Browse line may be 5 to 6 feet in height with no or little green growth beneath.



CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

Project Label:

PCA
4

Project name: C

Plot no.: 119

Blatt 2002 (b) 1: 04

Visual est. % open water entire site

Visual est. %unveg.o.w. entire site:

Visual est. %invasives entire site: _____

111

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

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

EXAMPLES OF PERCENT OF AREA COVERED

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

EXAMPLES OF PERCENT OF AREA COVERED

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

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

BROWSE RATING NARRATIVE DESCRIPTION

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

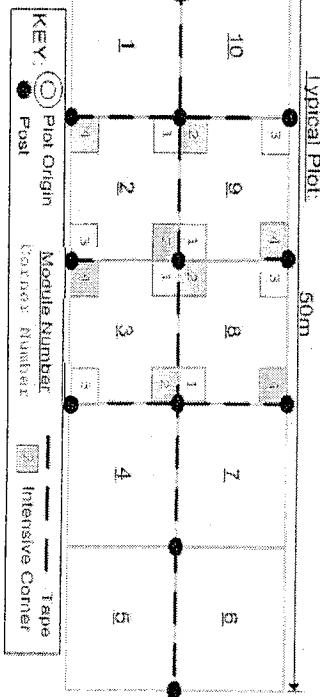
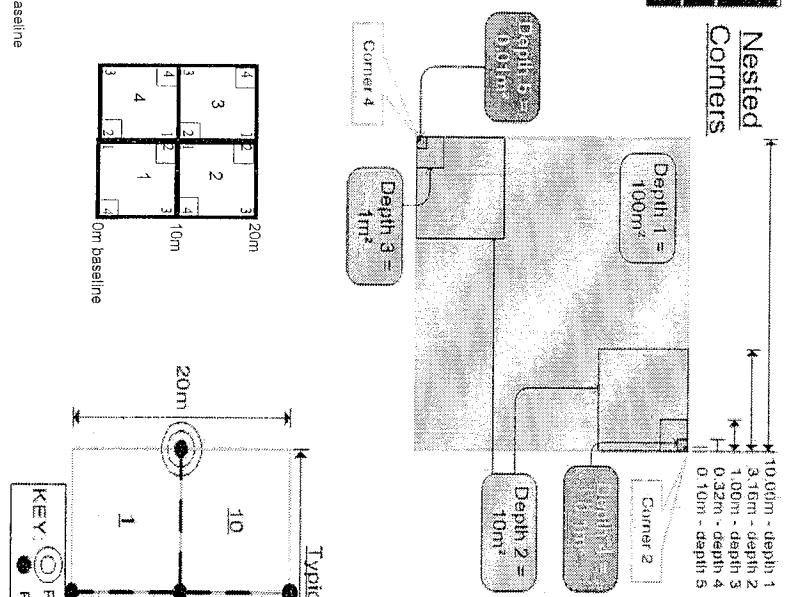
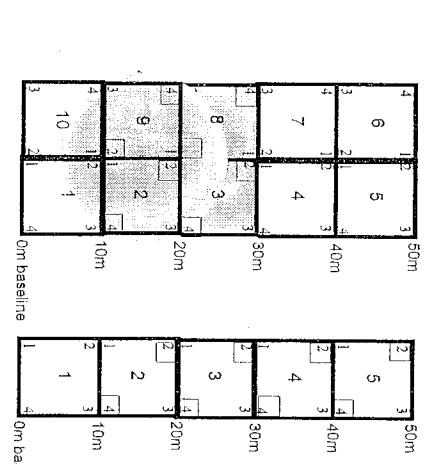
MEDIUM LOW values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-

success than 25 percent of stems in the 112 nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some species of plants.

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

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

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



CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

Project Label

PCAP

Project name: (C)

四

Page 3 of 3

Total modules: 1 Intensive modules: 1
Visual est. % open water entire site: 1 Visual est. % unreg. o. w. entire site: 1

configuration: 1X4
Visual est. %invasives entire site: _____

Plot area (ha): 0.04

Glenn
Matthew

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

Estimate
intensive
%unvegetat

ach rule:	mod	corner
depth	cov	
1	1	
1		
1		
1		

center	mid	current
COV	Depth	COV
2	2	4
1	1	1
1	1	1

corner	mod	corner
cov	depth	cov
2	3	4
1	1	
1		
1		

corner	mod	corner	mod
cov	depth	cov	depth
2	4	4	4
1	1	1	1
1	1	1	1

corner	mod
corner	R
depth	R

Strata - Cov. entire plot				
T	S	H	(F)	(A)
				B

Species

○

veg. litter (bare litter)

cov	depth	cov
1.00	1.00	1.00

CDV	depth	CDV	depth
1	1	1	1

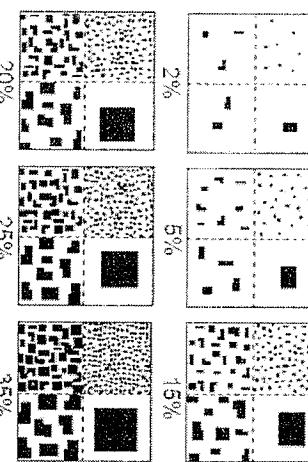
cov depth cov depth

depth cov depth

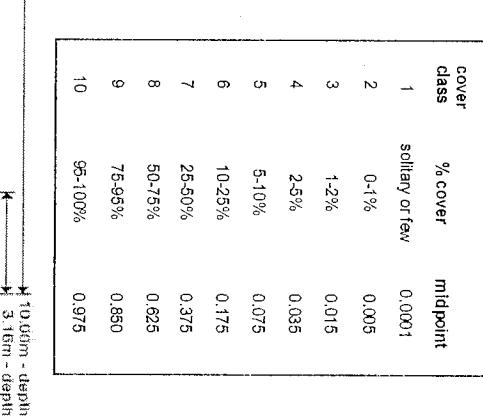
1	<i>Marus</i> sp.	1	1	1	1	1	1
1	<i>Carix</i> sp.	1	1	1	1	1	1
2	<i>Veronica officinalis</i>	1	1	1	1	1	1
4	<i>Lorsia virginica</i>	1	1	1	1	1	1
2	<i>Lorsia vulgaris</i>	1	1	1	1	1	1
3	<i>Lorsia vulgaris</i> (wickl)	1	1	1	1	1	1
1	<i>Daviesa cicutaria</i>	1	1	1	1	1	1
2	<i>Lonicera morrowii</i>	1	1	1	1	1	1
5	<i>Prunus cerasus</i>	1	1	1	1	1	1
2	<i>Viburnum dentatum</i>	1	1	1	1	1	1
1	<i>Hackelia virginiana</i> see <i>Scrophularia</i> FDL	1	1	1	1	1	1
1	<i>Scrophularia virginiana</i> see <i>Hackelia</i> FDL	1	1	1	1	1	1
1	<i>Gaura cernua</i>	1	1	1	1	1	1

EXAMPLES OF PERCENT OF AREA COVERED

The following graphic chart has been used for various data elements to convey "Amount of Coverage". NOTE: Within any given box, each quadrant contains the same data area covered, just different sized objects.

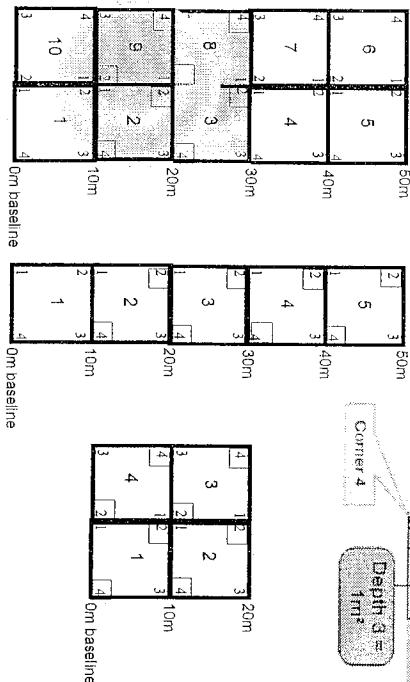


Nested Corners



Nested Corners

50% 60% 90%



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.

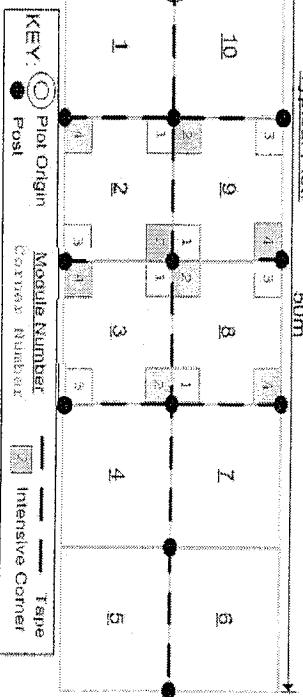
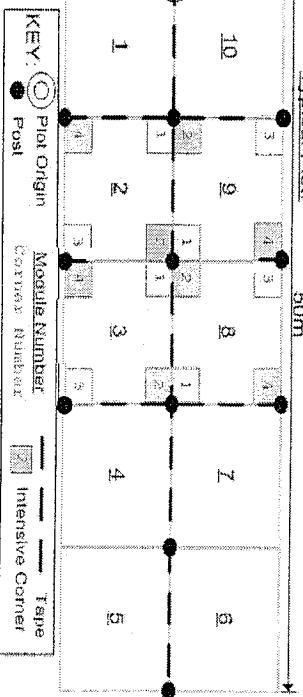
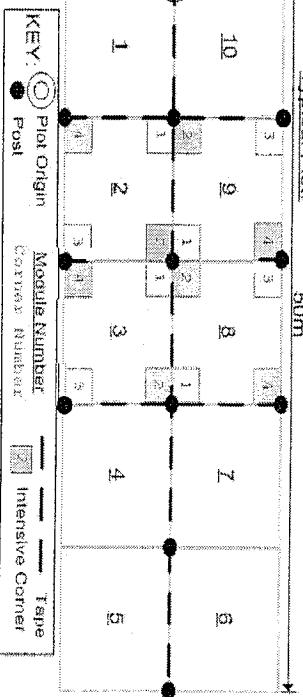
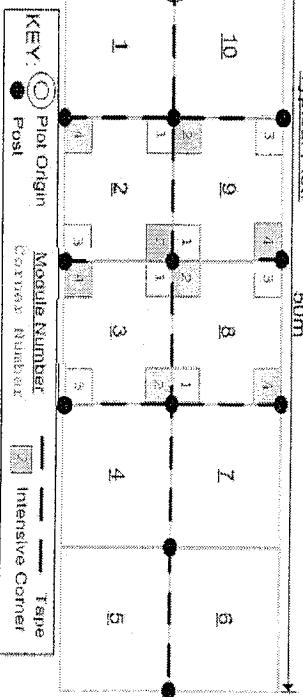
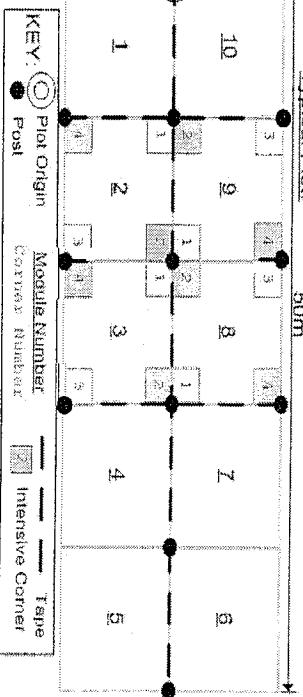
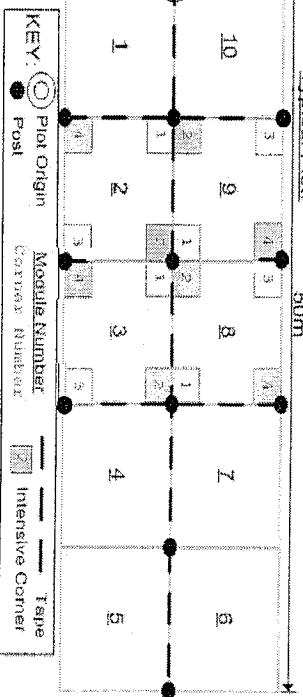
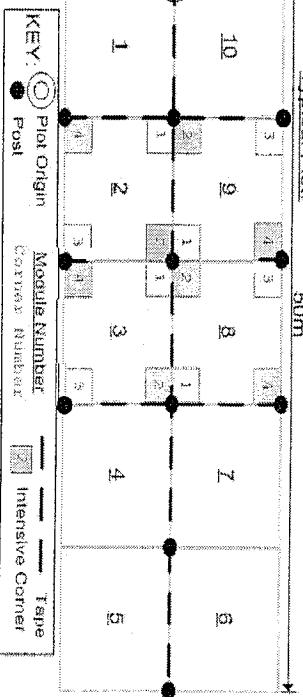
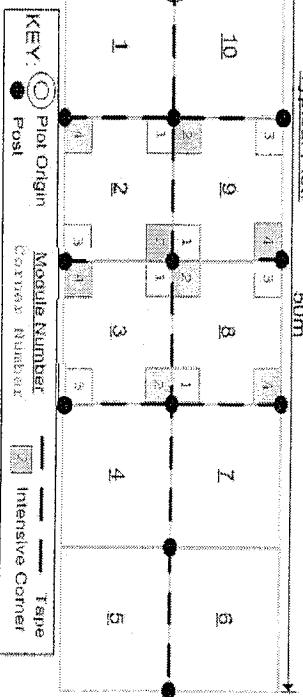
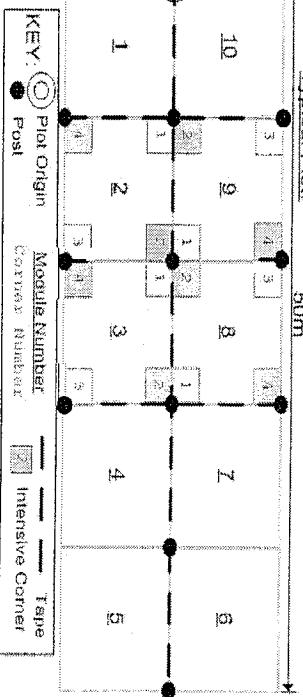
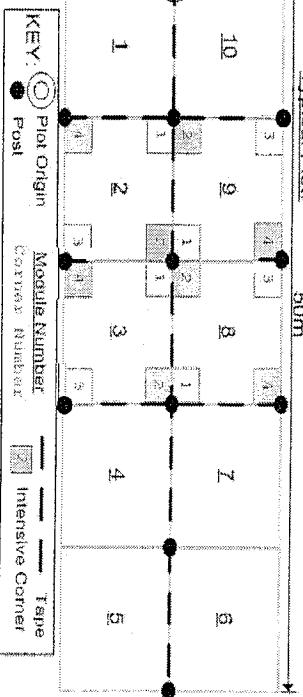
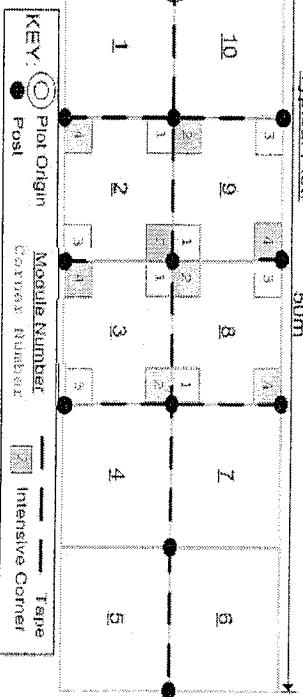
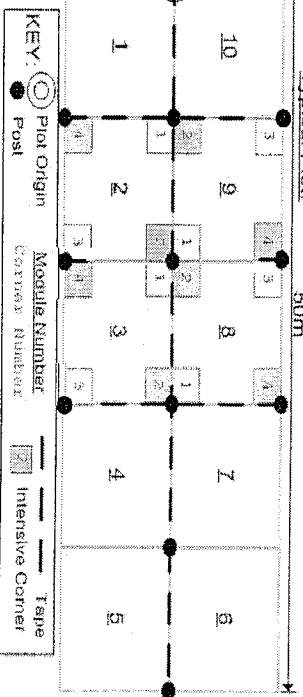
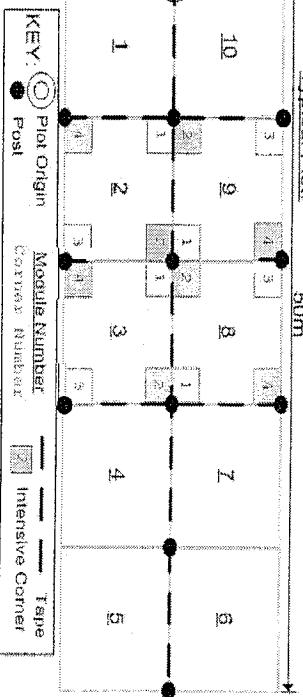
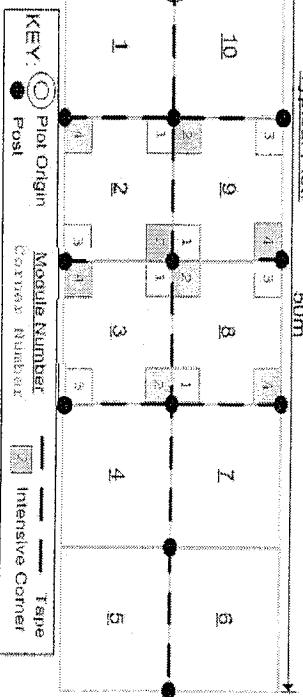
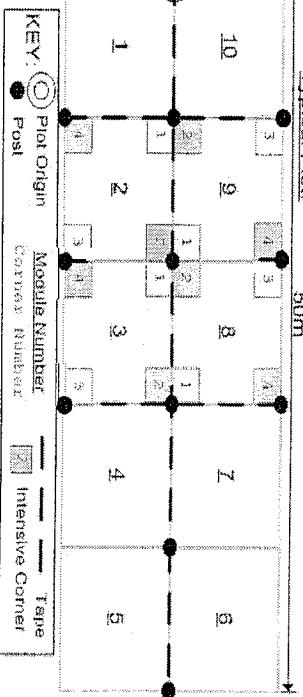
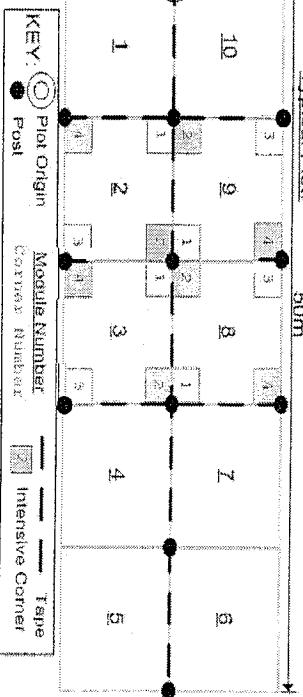
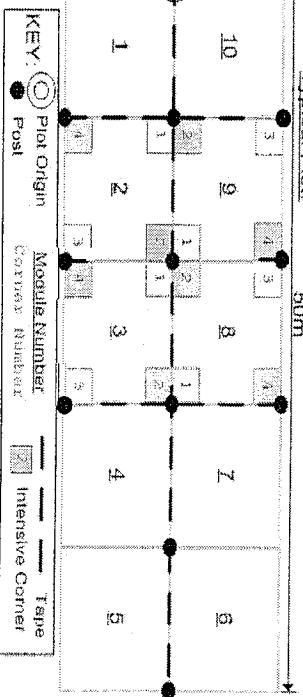
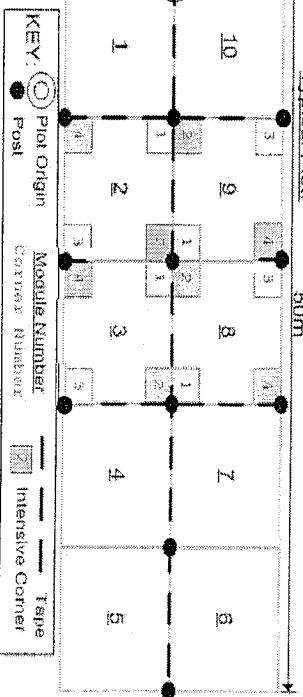
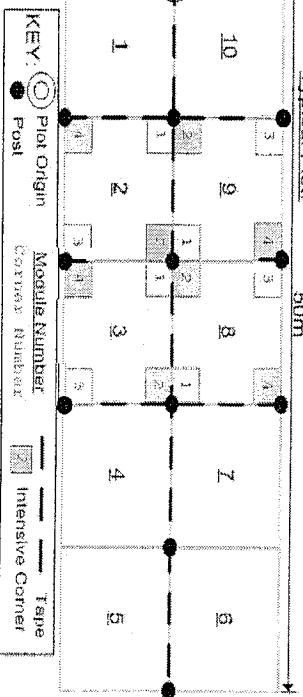
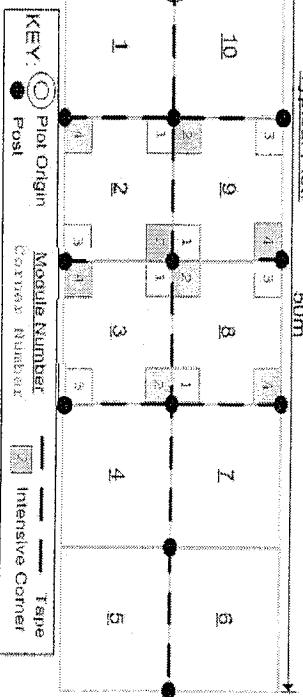
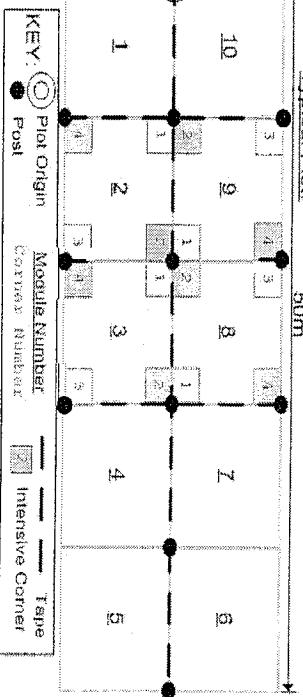
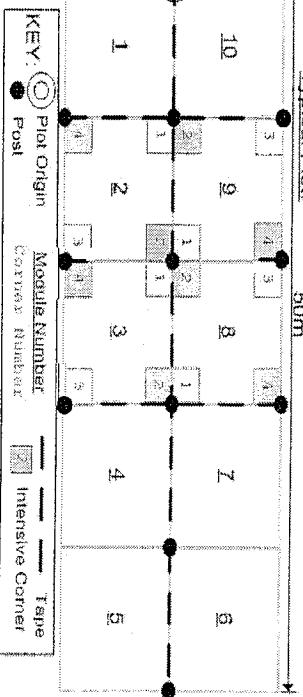
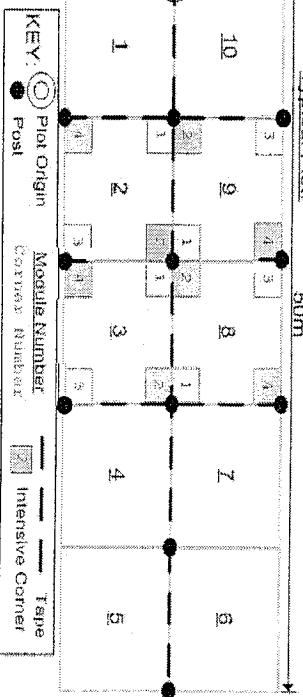
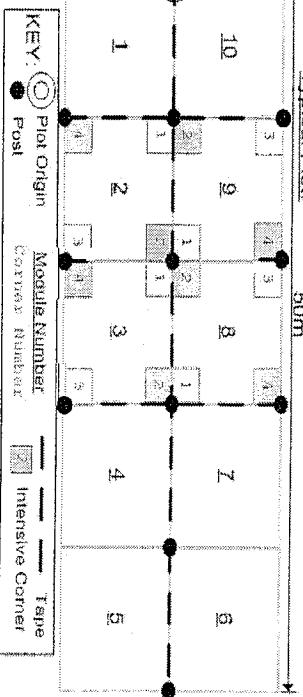
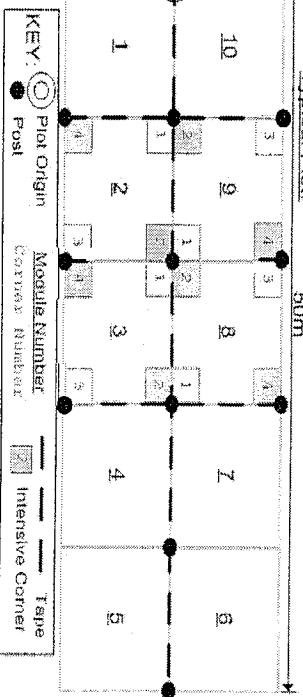
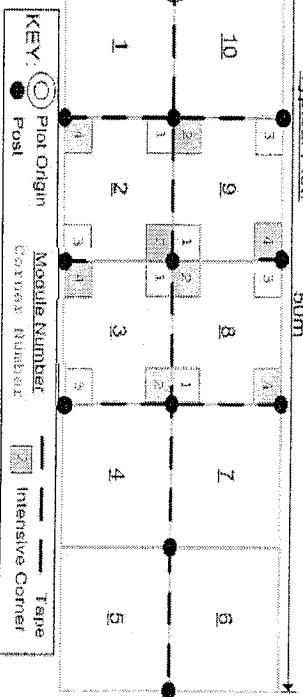
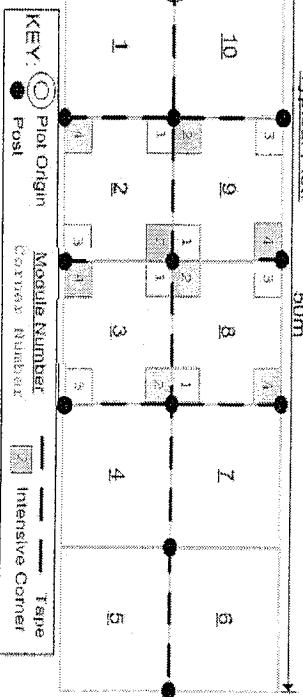
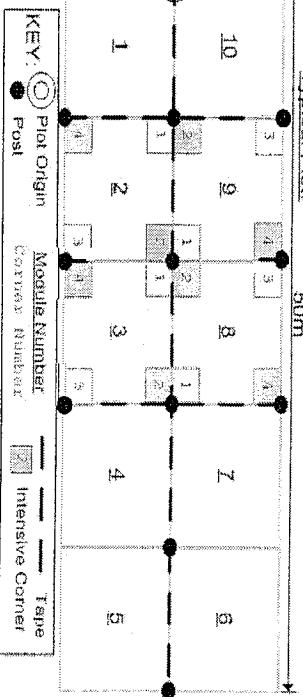
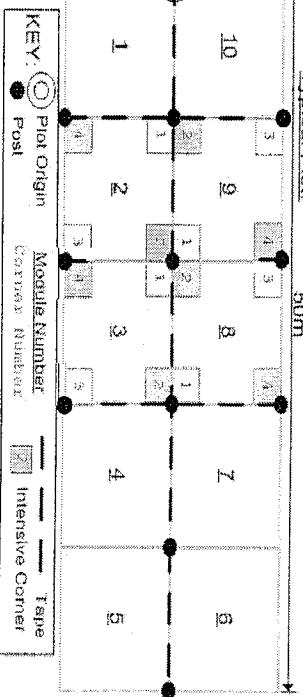
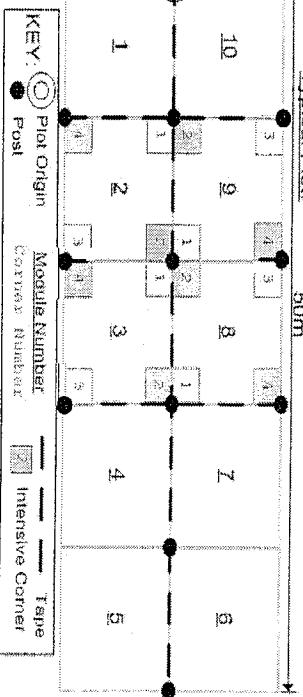
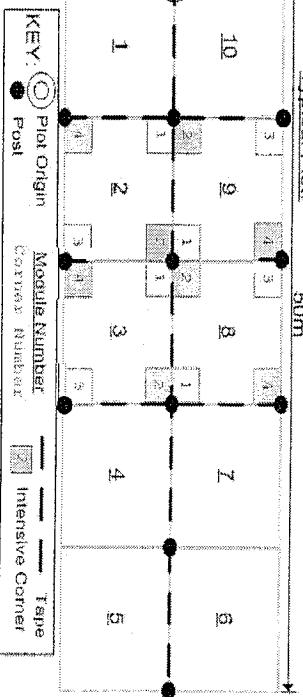
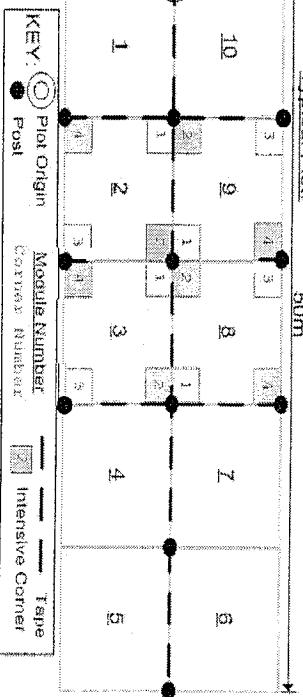
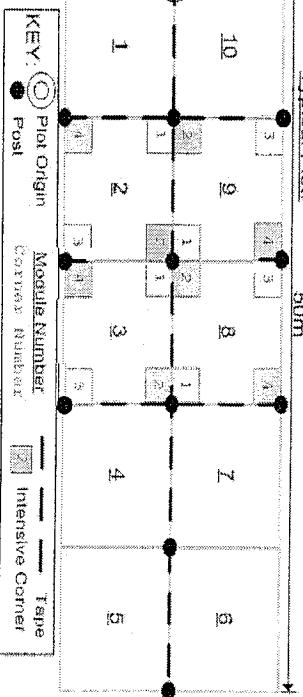
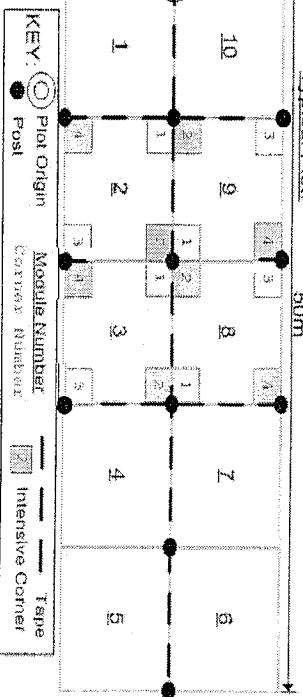
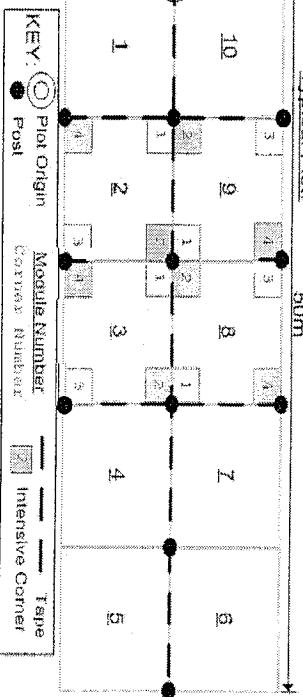
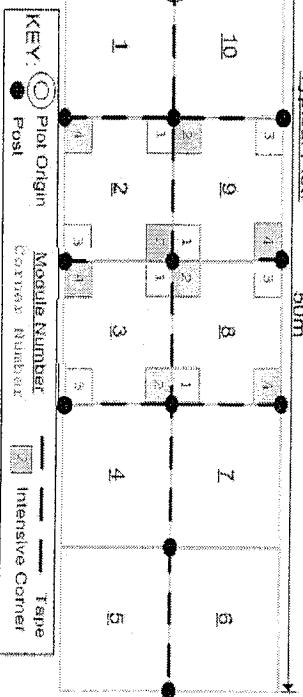
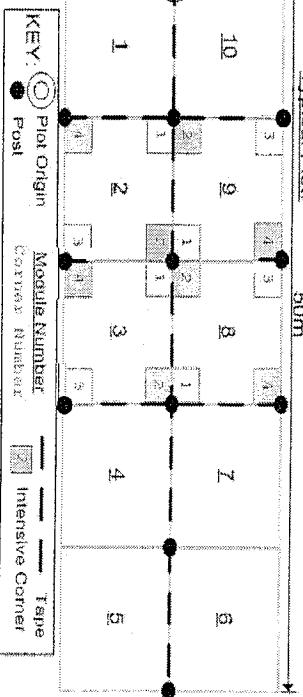
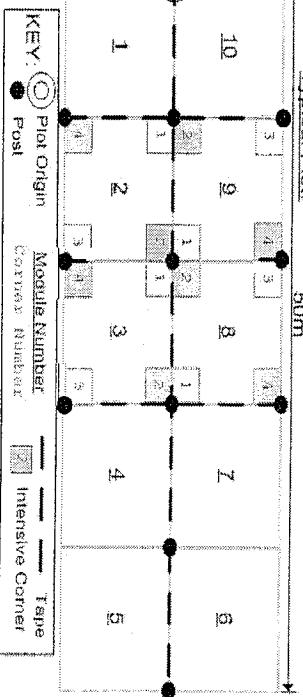
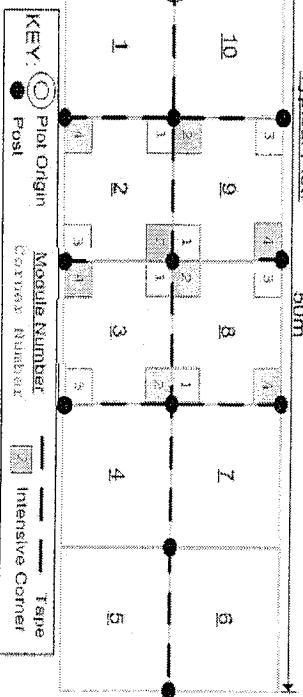
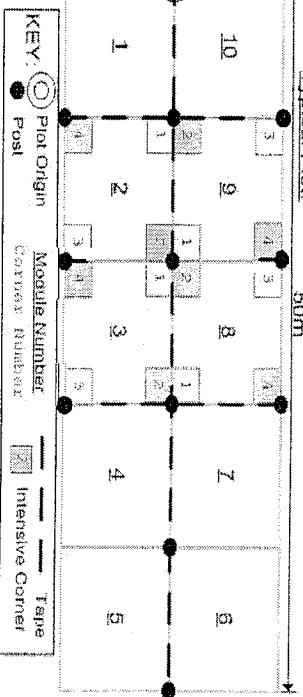
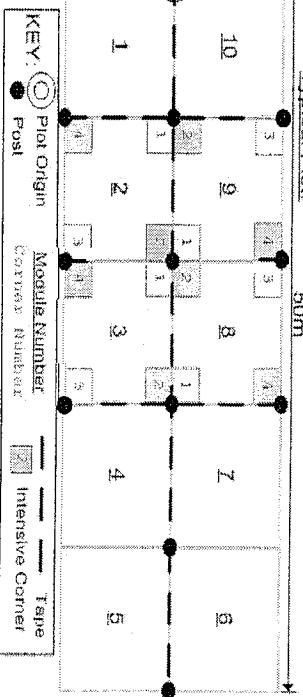
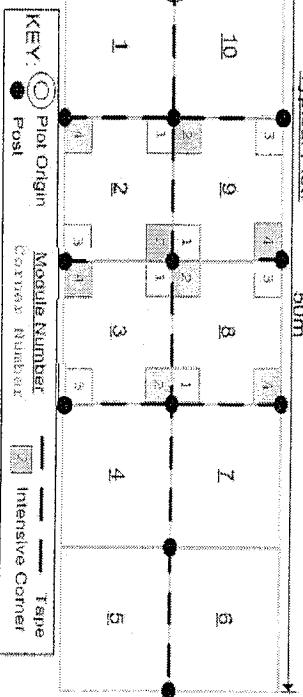
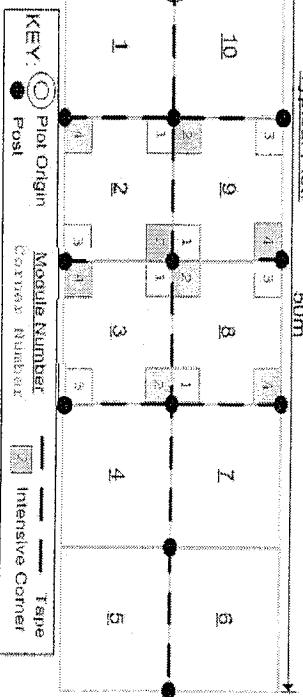
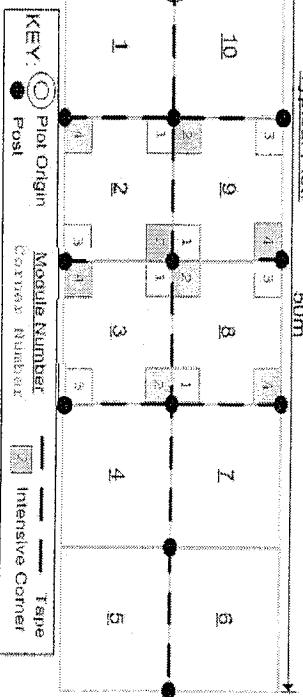
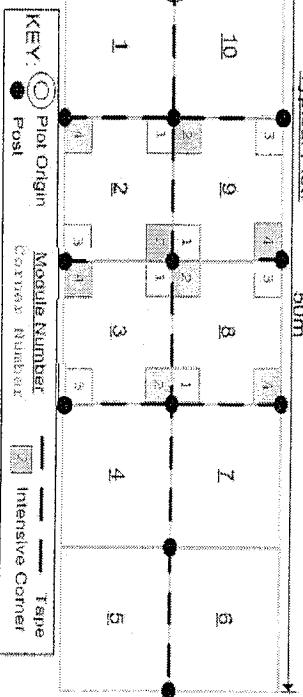
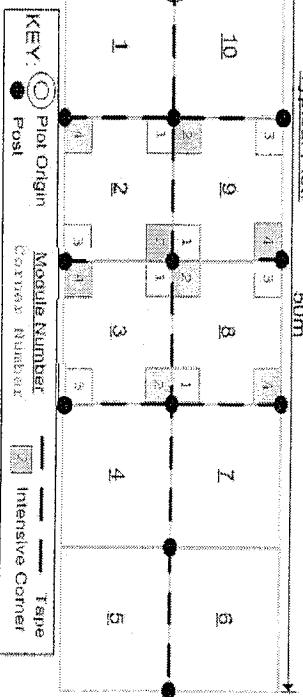
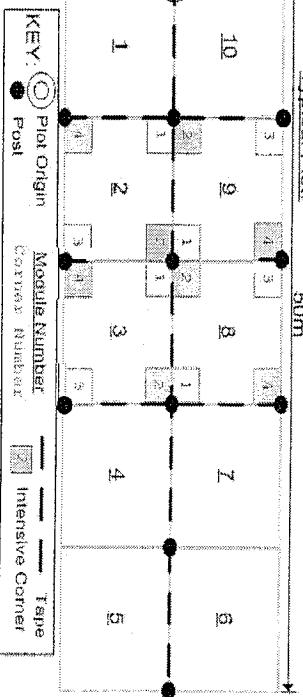
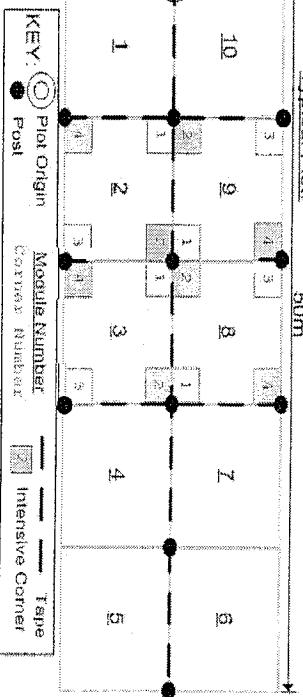
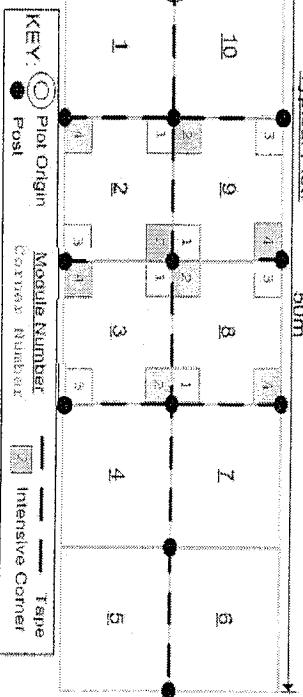
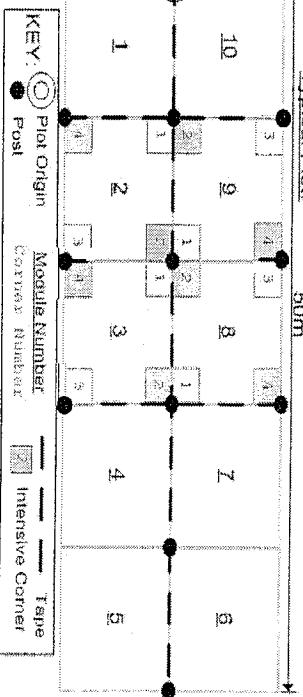
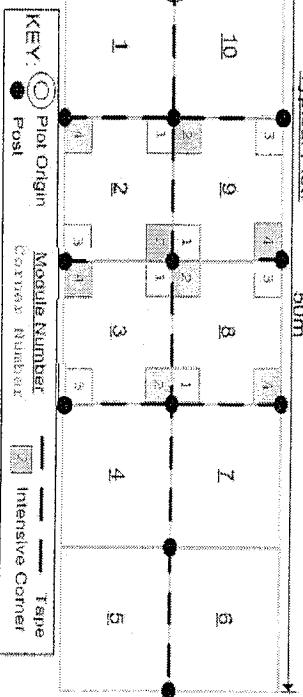
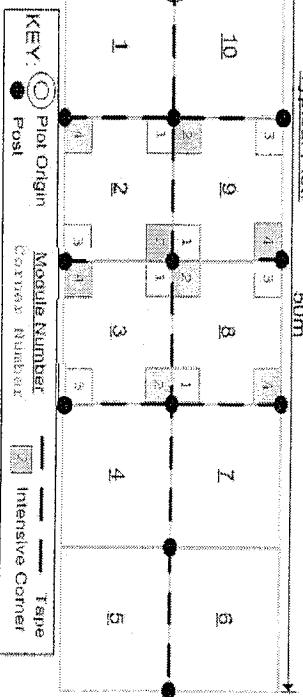
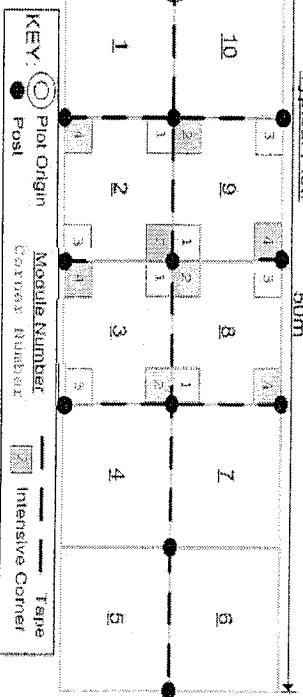
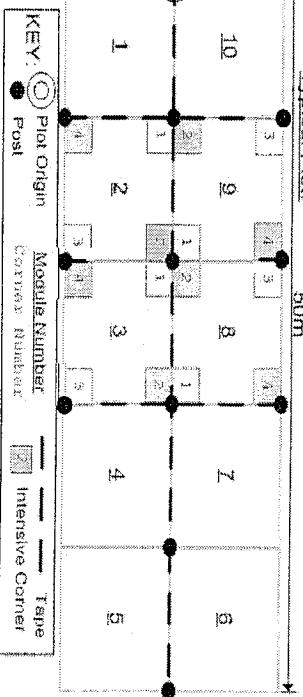
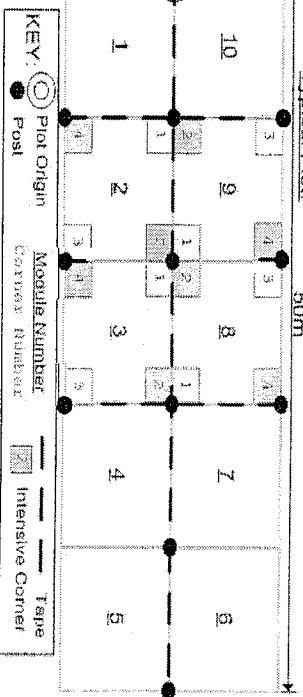
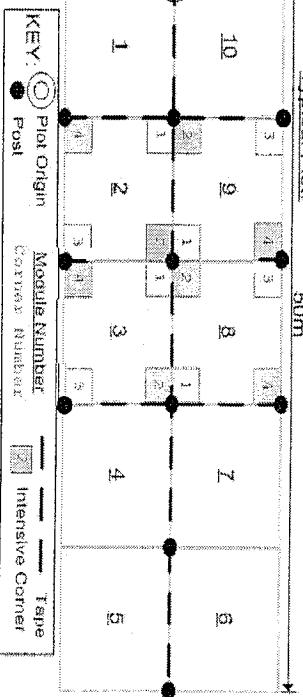
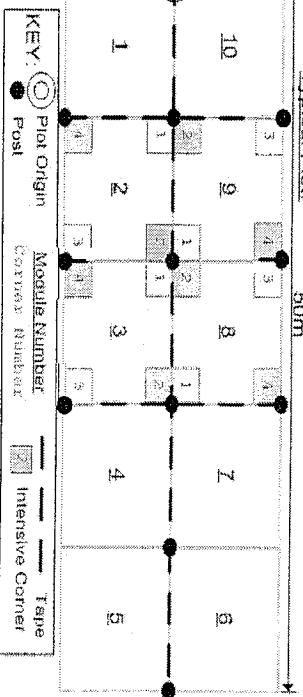
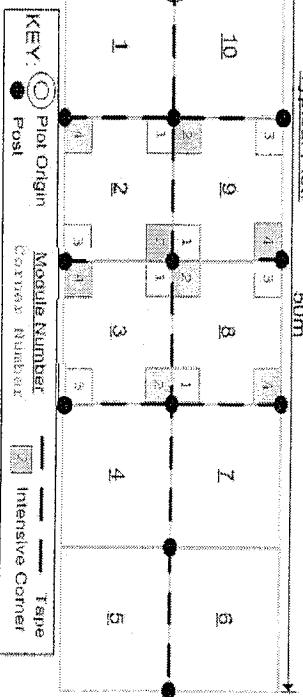
MEDIUM LOW values include evidence of browse about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse areas.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

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

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

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

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



Project Label: PCAP

Project Name: OlBe2011

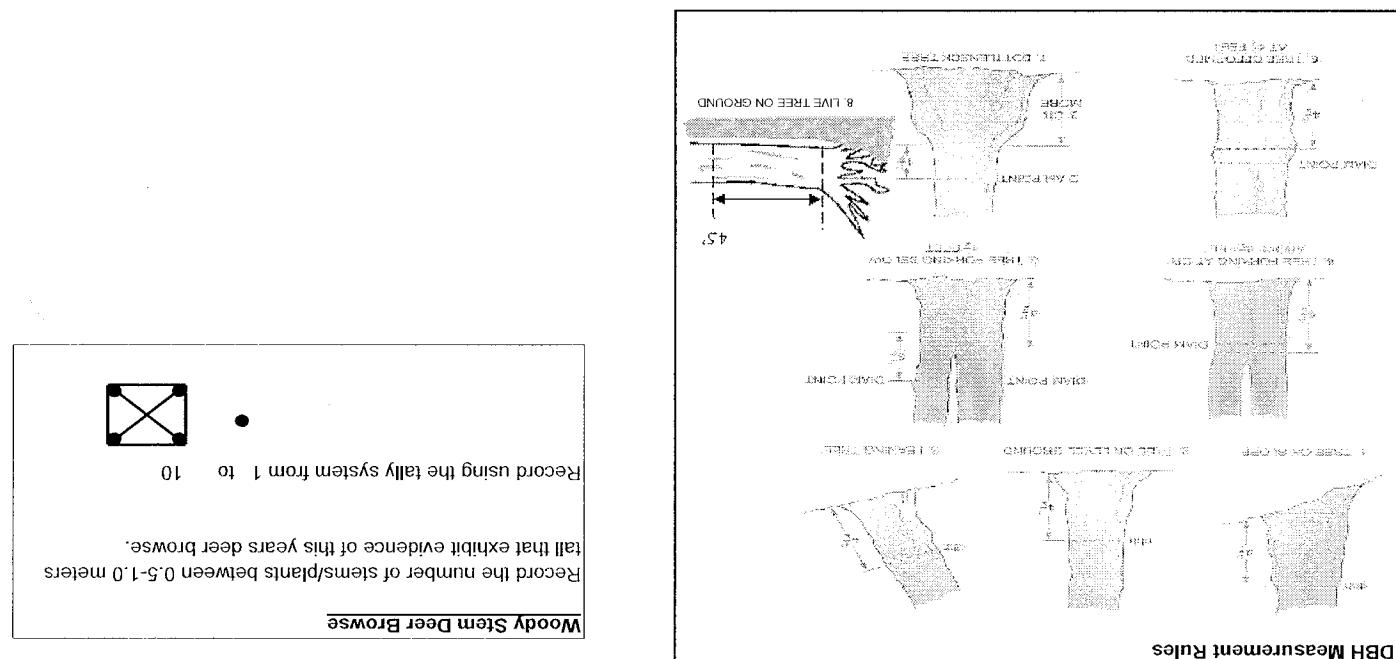
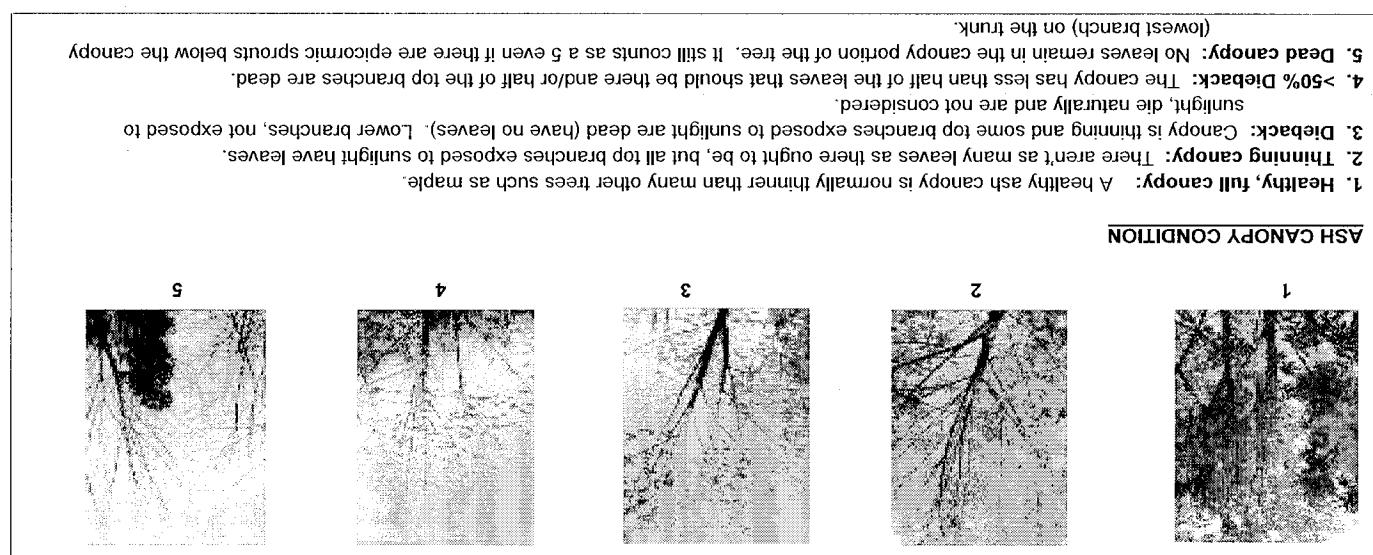
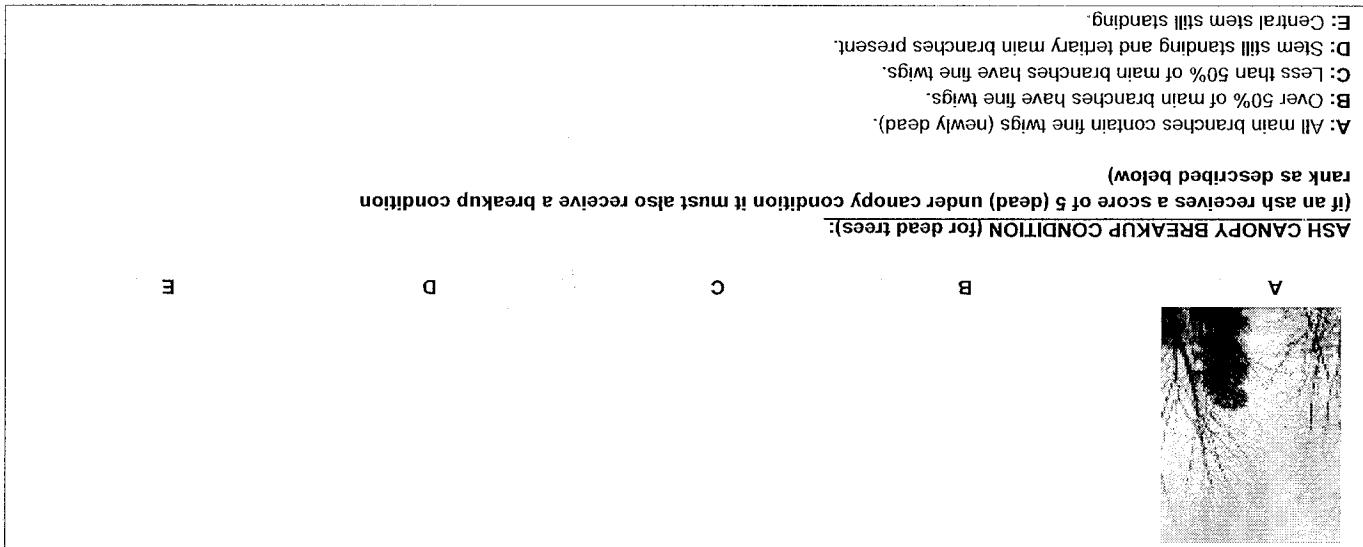
Plot No.: 1196

Page: 1 of 2



Explain subsample (additional room on back):

mod #	species	c voucher#	# stems 0.5-1m browsed	% sub or super sample	#	size class (cm) woody stems >1m										11 >40 (record each tree)
						1 0-<1	2 1-<2.5	3 2.5-<5	4 5-<10	5 10-<15	6 15-<20	7 20-<25	8 25-<30	9 30-<35	10 35-<40	
1	Standing dead					•	•	•	•	•	•	•	•	•	•	
1	<i>Crateagus</i> sp.					•	•	•	•	•	•	•	•	•	•	
1	<i>Tilia americana</i>															
1	<i>Carya ovata</i>															
1	<i>Ligustrum vulgare</i>															
1	<i>Smilax rotundifolia</i>	10				4										
1	<i>Rosa multiflora</i>															
2	<i>Acer rubrum</i>															
2	<i>Fraxinus</i> sp.					•										
2	<i>Craibogus</i> sp.					•										
2	Standing dead					•										
2	<i>Carya ovata</i>															
2	<i>Quercus rubra</i>															
2	<i>Prunus cerasus</i>															
2	<i>Prunus serotina</i>															
2	<i>Parthenocissus quinquefolia</i>															
2	<i>Ulmus americana</i>															
2	<i>Smilax rotundifolia</i>															
2	<i>Ligustrum vulgare</i>					2										
2	<i>Crataegus macrocarpa</i>					2										
2	<i>Frangula alnus</i>					2										
2	<i>Rosa multiflora</i>					1										
2	<i>Berberis thunbergii</i>					1										
2	<i>Rubus occidentalis</i>					1										



CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project N

•: 0/Be201

Plot No.: 196

Page: of

8

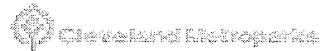
Explain subsample (additional room on back):

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

<p>ASH CANOPY CONDITION</p> <p>1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.</p> <p>2. Thinning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.</p> <p>3. Dieback: Canopy is thinning and some top branches exposed to sunlight are dead (have no leaves). Lower branches, not exposed to sunlight, die naturally and are not considered.</p> <p>4. >50% Dieback: Canopy is thinning and some top branches exposed to sunlight are dead (have no leaves). Lower branches, not exposed to sunlight, die naturally and are not considered.</p> <p>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.</p>				
1	2	3	4	5

 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.	 DBH MEASUREMENT RULES
<p>Record using the tally system from 1 to 10</p> <p>1. TALL ON GROUND</p> <p>2. TALL ON LIVID BRANCH</p> <p>3. LEANING TALL</p> <p>4. PROTRUDING STICK</p> <p>5. PROTRUDING TALL</p> <p>6. TALL ON LIVID BRANCH</p> <p>7. TALL ON GROUND</p> <p>8. LIVE TREE ON GROUND</p> <p>9. CROWN BREAK</p> <p>10. CROWN BREAK</p> <p>11. CROWN BREAK</p> <p>12. CROWN BREAK</p> <p>13. CROWN BREAK</p> <p>14. CROWN BREAK</p> <p>15. CROWN BREAK</p> <p>16. CROWN BREAK</p> <p>17. CROWN BREAK</p> <p>18. CROWN BREAK</p> <p>19. CROWN BREAK</p> <p>20. CROWN BREAK</p> <p>21. CROWN BREAK</p> <p>22. CROWN BREAK</p> <p>23. CROWN BREAK</p> <p>24. CROWN BREAK</p> <p>25. CROWN BREAK</p> <p>26. CROWN BREAK</p> <p>27. CROWN BREAK</p> <p>28. CROWN BREAK</p> <p>29. CROWN BREAK</p> <p>30. CROWN BREAK</p> <p>31. CROWN BREAK</p> <p>32. CROWN BREAK</p> <p>33. CROWN BREAK</p> <p>34. CROWN BREAK</p> <p>35. CROWN BREAK</p> <p>36. CROWN BREAK</p> <p>37. CROWN BREAK</p> <p>38. CROWN BREAK</p> <p>39. CROWN BREAK</p> <p>40. CROWN BREAK</p> <p>41. CROWN BREAK</p> <p>42. CROWN BREAK</p> <p>43. CROWN BREAK</p> <p>44. CROWN BREAK</p> <p>45. CROWN BREAK</p>	

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detection/ Rapid response		Presence				GPS	Presence
		NE	SE	SW	NW		
Microstegium vimineum	Japanese stiltgrass						X: yes
Ranunculus ficaria	Lesser Celandine						
Cynanchum louiseae (vine)	Black Swallow-wort						
Butomus umbellatus (wetland)	Flowering Rush						
Heracleum mantegazzianum	Giant Hogweed						
Tier 2: Assess as Needed		# of Plants				comments	# of Plants
		NE	SE	SW	NW		
Acer platanoides	Norway Maple						1: 1-10
Ailanthus altissima	Tree of Heaven						2: 11-50.
Lonicera japonica (vine)	Japanese Honeysuckle						3: 51-100
Lythrum salicaria (wetland)	Purple Loosestrife						4: 101-1,000
Aegopodium podagraria (G-cover)	Bishop's Goutweed						5: >1,000
Tier 3: Presence of Interest		# of Plants				comments	# of Plants
		NE	SE	SW	NW		
Convallaria majalis (G-cover)	Lily of the Valley						1: 1-10
Coronilla varia (G-cover)	Crown Vetch						2: 11-50.
Eleutherococcus pentaphyllus	Five-leaf Aralia (shrub)						3: 51-100
Pachysandra terminalis (G-cover)	Japanese Pachysandra						4: 101-1,000
Philadelphus coronarius	Mock Orange (shrub)						5: >1,000
Tier 4: Widespread and abundant		Presence				comments	Presence
		NE	SE	SW	NW		
Alliaria petiolata	Garlic Mustard	X	X	X	X		X: yes
Ligustrum vulgare	Common Privet (shrub)	X	X		X		
L. morrowii, L. tatarica	Bush Honeysuckles (shrub)	X	X		X		
Phalaris arundinacea	Reed Canarygrass						
Phragmites australis (wetland)	Phragmites						
Polygonum cuspidatum	Japanese Knotweed						
Frangula alnus	Glossy Buckthorn (shrub)	X	X	X	X		
Rosa multiflora	Multiflora Rose (shrub)	X	X		X		
Typha angustifolia, T. x. glauca	Cattails (wetland)						
Cirsium arvense	Canada thistle						
Dipsacus fullonum	Common Teasel						
Hesperis matronalis	Dame's Rocket						
Vinca minor (G-cover)	Periwinkle						

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: O/B#201

INTENSIVE MODULES ONLY

Plot No.: 196

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

Date: 8-17-11

Page: 1 of 2

Module	Tree ID.	Species	DBH (cm)	Voucher #	DBH @ DBH condition	Ash condition	Dead: # Exit holes	Epicormic present	Woodpecker
2	1	<i>Fraxinus sp</i>	32.9		1	0	0	0	1
2	2	<i>Fraxinus sp</i>	22.0		4	0	1	1	
2	3	<i>Fraxinus sp</i>	25.4		3	0	0	0	
2	4	<i>Fraxinus sp</i>	30.9		2	0	0	0	1
3	5	<i>Fraxinus sp</i>	30.2		2	0	1	1	0
3	6	<i>Fraxinus sp</i>	27.5		2	0	1	1	
	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

Baseline

8

9

2

3

Baseline

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

COVER BY STRATA (%) estimate using midpoints of 5 ext. 3, 8, 13, 18%)	
Strata	Height Range (in)
Tree	5 - X
Shrub	0.5 - 5
Herb	X - 0.5
Floating*	
(Aquatic)**	

*rooted and floating or slightly emersed

**sumerged, most plant mass below surface

SEE BACK OF PAGE FOR "TYPICAL"

STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.

EARTH SURFACE & GROUND COVER	
Underlying Earth Surface*	Ground Cover
(Sum = 100%)	percent
Histsol	0
Mineral Soil	97
Gravel-Cobbles*	2
Boulder**	1
Bedrock	0
Water	
Bare Soil	
Road/Trail	8
Other	0

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

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

Rank for microhabitat features. Select one or select two and average the score. NOTE: If mod falls on a slope automatically gets ranked based on steepness (1-3)

Slope 1 = slight elevational grade across module (in)

Slope 2 = falls on slope ~20°

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

0 feature is absent or functionally absent (Golf Course Flat)

1 feature is present in very small amounts or if more common, of low quality

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

3 feature is present in greater amounts and of highest quality

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

c.w.d. - count for pieces with minimum 1m length

no. of tufts	no. of hummocks	no. macro depressions	c.w.d. (2-12 cm)	c.w.d. (12-40cm)	c.w.d. >40 cm	interspersed	microhabitat	microhabitat
depth 3	depth 2	depth 1	depth 1	depth 1	depth 1	SLOPE		
1x1m	3.16x3.16m	10x10m	10x10m	10x10m	10x10m	10x10m		
mod#	corner (count)	(count)	(count)	(count)	(count)	(rank)		

1	0	2	9	2	1	2	3	0
2	0	0	3	16	1	0	2	0
3	0	0	2	25	1	0	3	0
4	0	0	1	19	3	0	2	0

NOTE: tussocks and hummocks are counted in BOTH nested quadrant corners but counts are aggregated.

macro depressions = microtopographic depressions with module. These may extend into other modules and be counted again.

c.w.d. = coarse woody debris

microhab. interspers. = overall ranking of plot microtopographic interspersion complexity using scale below

TRAIL INFORMATION: If trail falls in plot record type and cover for each			
Type	% Cover		
<input type="checkbox"/> All Purpose			
<input type="checkbox"/> Bridle			
<input type="checkbox"/> Hiking sanctioned			
<input type="checkbox"/> Bootleg unsanctioned			
<input type="checkbox"/> Gravel			
X Deer			

CROWN COVER (DENSIMETER) Make 4 readings per module facing N S E W Place for count in corresponding space. (4 dots per grid square)			
Module	N	S	E
1	1	0	1
2	4	2	2
3	2	4	2
4	3	2	2

MACRO INDICES (degrees) + for up - for down
[FILLED OUT USING GIS PROGRAM. DO NOT FILL OUT IN FIELD]

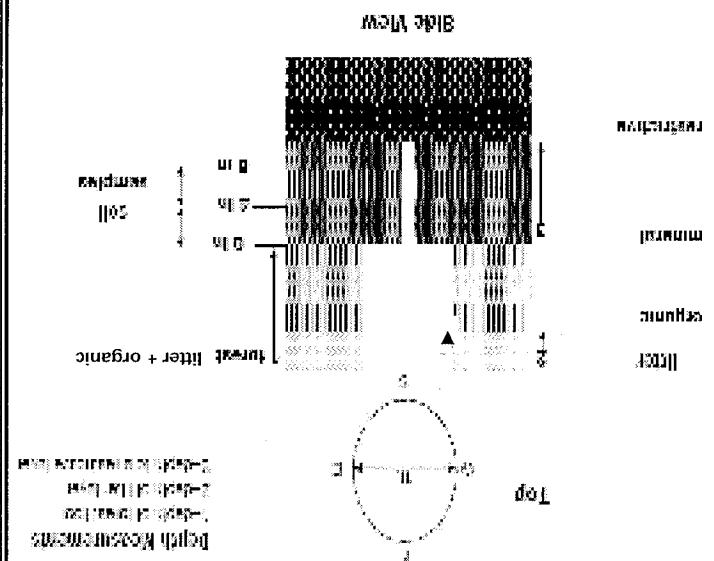
LFI*

TSI**

At aspect			
	N		
+45 degrees	NE		
+90 degrees	E		
+135 degrees	SE		
+180 degrees	S		
+225 degrees	SW		
+270 degrees	W		
+315 degrees	NW		

*Terrain Shape Index (site microtopographic shape)

**Landform Index (position within landscape)



These secondary structures are often denoted as up to 14 m high in areas such as the Daintree which case they would span the herb and shrub layers.

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

*Very tall shrubs are sometimes included in the tree stratum

Acrylics (slipstreamed)	Shimread	Shimread
Floating	Floating	Floating

Shrub (generally 0.5 to 5 m)	Tree (sapling), shrub, liana, epiphyte
------------------------------	--

STRATUM	GENERAL FORM	Tree (generally > 5 m)	Tree (oversetory), very tall shrubs*, liana,
---------	--------------	------------------------	--

COVER BY STRATA STRATUM GENERAL EPCM

COVER BY STRATA

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

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

is normally saturated when water level drops below soil surface. Includes Cowardin's Intermittently Exposed and Semipermanently Flooded

Intermittent flooding modified the landscape.

developed for use in the arid West for water reclamation of Playa lakes, intermittent streams, and dry washes but can be used in other parts of the country.

INTERMITTENTLY LOADED: Substrate is usually exposed, but surface water can be present for variable periods without detectable

TEMPORARILY FLOODDED: Surface water present for brief periods during growing season, but water table usually lies well below soil surface; may be caused by snowmelt, rainfall, or tides.

OCASIONALITY IS ORDERED: Surface weather can be present for brief periods during the growing season, but not in most years. Often suitable to conduct soil surveys during the growing season, but not in most years. Often suitable to conduct soil surveys during the growing season, but not in most years.

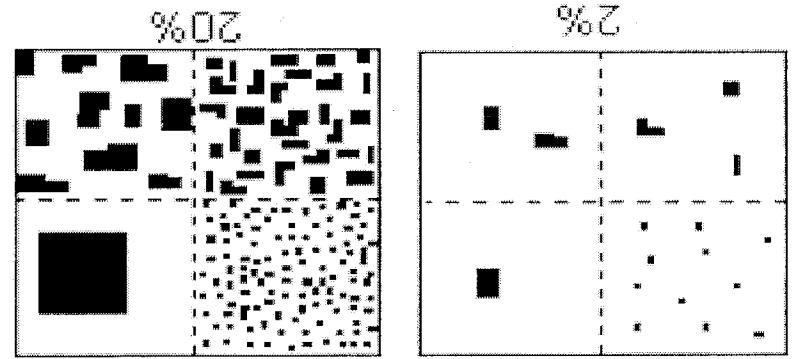
PERMANENT V/S IMPERMANENT Dry less than once per year. Surface water is seldom present but substrate is to be surface for extended periods during the growing season.

INTERPLANETARY SEASIDE STATION Not a world, very rarely inhabited.

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

Features	Code
hillshape - relative Position (hillshape Position of parts of dimensions and descriptors of parts of line segments (Pp)) - WA	WAWHILLSHAPE_RELATIVEPOSITION
hillshape - relative Position (hillshape Position of parts of dimensions and descriptors of parts of line segments (Pp)) - WA	WAWHILLSHAPE_RELATIVEPOSITION
hillshape - relative Position (hillshape Position of parts of dimensions and descriptors of parts of line segments (Pp)) - WA	WAWHILLSHAPE_RELATIVEPOSITION

- 0=Organic
- 1=Lamby
- 2=Clayey
- 3=Sandy
- 4=Coarse Sand
- 9=Not measured - make plot note



PERCENT MOTILLES (USE CLASS CODES)					
Class	Code	Code	Code	Classific. % of Surface Area Covered	Classific. NASIS
FEW	C	T	M	≤ 20	Many
COMMON	G	G	G	20 > 40	Common
MASS	G	G	G	≥ 40	Mass

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial):

Site ID: PCAP Be 1196

DATE: 08/17/2011

Location: OAA Center ON OS OE SW	Fill in bubble(s) if plot(s) could not be sampled and flag →	Plot 1 Plot 2 Plot 3	1
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Buffer Natural Cover Strata

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

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

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

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

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

Flag codes: K = No measurement made, U = Suspect measurement, F1,F2, etc. = misc. flags assigned by each field crew.
Explain all flags in comment section on the back of this form.

2428168304

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

Reviewed by (initials):

Site ID: PCAP Be 1196

DATE: 08/17/2011

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

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

PLOT COORDINATES

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

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

Location of coordinates (choose one):

Flag

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

Latitude North

Longitude West

Use Decimal Degrees: NAD83

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

Reviewed by (initial):

Site ID: PCAP Be 1196

DATE: 08/11/2011

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

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

PLOT COORDINATES

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

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

Location of coordinates (choose one):

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

Flag

2

Latitude North

Longitude West

Use Decimal Degrees; NAD83

Flag	Comments
1	Plots not sampled - used map to determine that all landed on golf course
2	GPS coordinates not taken at any plot on S transect b/c no time in between golf teams to take GPS pt on golf course

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): _____

Site ID: PCAP Be 1196

DATE: 08/17/2011

Location:

OAA Center ON S OE OW

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

Plot 1 Plot 2 Plot 3

Buffer Natural Cover Strata

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

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

Buffer Plot 1	Canopy Type: D E		Absent: <input checked="" 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			Leaf Type: B	N			Leaf Type: B	N	
Big Trees (>0.3m DBH)	<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"/>	<input type="radio"/>
Small Trees (<0.3m DBH)	<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"/>	<input type="radio"/>
Woody Shrubs, Saplings (0.5m-5m HIGH)	<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"/>	<input type="radio"/>
Woody Shrubs, Saplings (<0.5m HIGH)	<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"/>	<input type="radio"/>
Herbs, Forbs and Grasses	<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"/>	<input type="radio"/>
Bare ground	<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"/>	<input type="radio"/>
Litter, duff	<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"/>	<input type="radio"/>
Rock	<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"/>	<input type="radio"/>
Water	<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"/>	<input type="radio"/>
Submerged Vegetation	<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"/>	<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 checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Fill/Spoil Banks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Fallow Field (OLD - GRASS, SHRUBS, TREES)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Lawn/Park	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" 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 (SHEET FLOW)	<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 checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" 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

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

Reviewed by (initials):

Site ID: PCAP Be ~~8~~ 1196

DATE: 08/17/2011

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

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

PLOT COORDINATES

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

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

Location of coordinates (choose one):

Flag

④ AA CENTER O N3 O S3 O E3 O W3 O Nearest practicable location (flag and comment below)

Latitude North 41 38259 Longitude West 081 53693

Use Decimal Degrees: NAD83

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP Bc 1196

DATE: 08/17/2011

Location:

AA Center O N O S O E O W

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

O Plot 1 O Plot 2 O Plot 3

Buffer Natural Cover Strata

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

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

Buffer Plot 1	Canopy Type: D		Absent:		Buffer Plot 2	Canopy Type: D		Absent:		Buffer Plot 3	Canopy Type: D		Absent:				
	O	E	O	O		O	E	O	O		B	N	O	O			
Leaf Type:	(D)	(E)	Flag	Leaf Type:	(D)	(E)	Flag	Leaf Type:	(D)	(E)	Flag	Leaf Type:	(D)	(E)	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
Small Trees (<0.3m DBH)	0	1	2	3	4	Small Trees (<0.3m DBH)	0	1	2	3	4	Small Trees (<0.3m DBH)	0	1	2	3	4
Woody Shrubs, Saplings (0.5m-5m HIGH)	0	1	2	3	4	Woody Shrubs, Saplings (0.5m-5m HIGH)	0	1	2	3	4	Woody Shrubs, Saplings (0.5m-5m HIGH)	0	1	2	3	4
Woody Shrubs, Saplings (<0.5m HIGH)	0	1	2	3	4	Woody Shrubs, Saplings (<0.5m HIGH)	0	1	2	3	4	Woody Shrubs, Saplings (<0.5m HIGH)	0	1	2	3	4
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
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
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

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

Residential and Urban Stressors				Hydrology Stressors				Agricultural & Rural Stressors							
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	
Road - gravel	0	0	0		Ditches, Channelization	0	0	0		Pasture/Hay	0	0	0		
Road - two lane	0	0	0		Dike/Dam/Road/RR Bed (IMPEDE FLOW)	0	0	0		Range	0	0	0		
Road - four lane	0	0	0		Water Level Control Structure	0	0	0		Row Crops	0	0	0		
Parking Lot/Pavement	0	0	0		Excavation, Dredging	0	0	0		Fallow Field (RECENT RESTING ROW CROP FIELD)	0	0	0		
Golf Course	0	0	0		Fill/Spoil Banks	0	0	0		Fallow Field (OLD - GRASS, SHRUBS, TREES)	0	0	0		
Lawn/Park	0	0	0		Freshly Deposited Sediment (UNVEGETATED)	0	0	0		Nursery	0	0	0		
Suburban Residential	0	0	0		Soil Loss/Root Exposure	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 < HIGH)	0	0	0		Soil erosion (FROM WIND, WATER, OR OVERUSE)	0	0	0		
Other: _____	0	0	0		Recently Burned Forest Canopy	0	0	0		Other: _____	0	0	0		
Other: _____	0	0	0		Recently Burned Grassland (BLACKENED)	0	0	0		Other: _____	0	0	0		

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

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

2428168304

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

Reviewed by (initial):

Site ID: PCAP Be 1196

DATE: 08/12/2011

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

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

PLOT COORDINATES

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

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

Location of coordinates (choose one):

Flag

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

Latitude North 41° 38' 28.4"

Longitude West 081 53558

Use Decimal Degrees: NAD83

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): _____

Site ID: PCAP Be 196

DATE: 08/17/2011

Location:

O AA Center O N O S O E O W

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

O Plot 1 O Plot 2 O Plot 3

Buffer Natural Cover Strata

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

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

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

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

Industrial Development Stressors				Habitat/Vegetation Stressors								
Fill bubble if present - Plot	1	2	3	Fill bubble if present - Plot	1	2	3	Fill bubble if present - Plot	1	2	3	Flag
Oil Drilling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Forest Clear Cut	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Herbicide Use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Gas Wells	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Forest Selective Cut	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mowing/Shrub Cutting	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Mine (surface)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tree Plantation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trails	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Mine (underground)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tree Canopy Herbivory (INSECT)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Soil Compaction (ANIMAL OR HUMAN)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Military	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Shrub Layer Browsed (WILD OR DOMESTIC)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Offroad vehicle damage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Highly Grazed Grasses (OVERALL <10% HIGH)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Soil erosion (FROM WIND, WATER, OR OVERUSE)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Recently Burned Forest Canopy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Recently Burned Grassland (BLACKENED)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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

2428168304

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

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): _____

Site ID: PCAP Be 1196

DATE: 08/17/2011

Location: N S O E O W

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

Plot 1 Plot 2 Plot 3

1

Buffer Natural Cover Strata

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

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

Buffer Plot 1	Canopy Type: D E		Absent: <input type="radio"/>	Buffer Plot 2	Canopy Type: D E		Absent: <input type="radio"/>	Buffer Plot 3	Canopy Type: D E		Absent: <input type="radio"/>
	Leaf Type: B N	Flag	Leaf Type: B N		Leaf Type: B N	Flag	Leaf Type: B N		Leaf Type: B N	Flag	
Big Trees (>0.3m DBH)	<input type="radio"/>	<input 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"/>
Small Trees (<0.3m DBH)	<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"/>	<input type="radio"/>
Woody Shrubs, Saplings (0.5m-5m HIGH)	<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"/>	<input type="radio"/>
Woody Shrubs, Saplings (<0.5m HIGH)	<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"/>	<input type="radio"/>
Herbs, Forbs and Grasses	<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"/>	<input type="radio"/>
Bare ground	<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"/>	<input type="radio"/>
Litter, duff	<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"/>	<input type="radio"/>
Rock	<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"/>	<input type="radio"/>
Water	<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"/>	<input type="radio"/>
Submerged Vegetation	<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"/>	<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"/>		Hill/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/Roof 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., P1,F2, etc. = misc. flags assigned by each field crew.

2428168304

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

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

Reviewed by (initial):

Site ID: PCAD Be 1196

DATE: 08/17/2011

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

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

PLOT COORDINATES

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

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

Location of coordinates (choose one):

Flag

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

Latitude North 41 38 40 3

Longitude West 81 53692

Use Decimal Degrees: NAD83