Project Label:	PCAP PCAP	Plot N	o: <u> 3443</u> Date Sampled:	© Cleveland M 7/29 Lead:
Parking/Access ou	tside of Park Boundaries:	Y (N)		red if item answer is NO
Field journals com			If yes, write details in Comr	nents section below
Site sketch made or		(Y) N (Y) N		
Check cover page	X-axis Bearing of plot recorded	(Y) N		
	GPS coords. Recorded	<del>-</del>	<del> </del>	
	North direction recorded			
	Photographs taken?			
Plot No., Date agree		(3)	<del>                                     </del>	
Header data comple				
	ded in all Intensive modules	0		
Browse Level By S		A	<del> </del>	
Woody stem quality			<del> </del>	
Invasive plant quali			<del>                                     </del>	
Ash trees mapped				
Cover by Strata? (co	onfirm cover type)			
	ed with matching plot #.			
	datasheet with initials and number			
Vouchers labeled on		1		
Pink flags removed	Somethon oug			
Data sheet QA before	e leaving site?	1		
Common equipment				
Data sheets scanned?		(Y) N	- 0.0	
inal data sheets scar		8/2/13	Enter date to left BB	
Buffer Widths measu		25	Enter date to left	
Veb Soil Survey	icu:	Y N	RC 8/9	
oucher Location	Refrigerator	Y N	140 8/9	
# vouchers collected)	Press (#)	(Y) N		
JAM 155-		1	Enter number to left	
157	Identified	Y N	<del></del>	
	Mounted	Y N		
	Thrown away	Y N		
	Thiowil away	YN		
	ion: Is plot sampleable?			
Yes Yes	Original GRTS point is sampleable			
□ No	Original GRTS point lands in a non-sa	impleable area (fill	in category below)	
	<ul> <li>Point fails in a water (i e river, lak</li> </ul>	(e)		
	Managed mowed area (i e. golf co	urse, picnic area, right-	of-way)	
	Paved area (i e parkinglot, road)  Unsafe to sample (i e steep slope)			
	Other Other			
ditional Comments				



Minimum required fields in Bold and Underlined TAXONOMIC STANDARD vascul. TAXONOMIC ACCURACY Very thorough SAMPLING QUALITY\* Effort Level: PLOT NOT SAMPLED: N/A Hurried □ Accurate Plot No.: End date (if > 1 day): Plot Name: ... This isn't the beach ... GENERAL INFORMATION CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc. Project Name:0 | HW 20 | 3 Project Label: Ballord Edale Charlson Level 4 (no nested corners sampled) Level 5 (nested corners sampled) S443 □ Paved □ Slope □ Safety modera. how much effort put into may still provide good sampling. Hurried plots subjective evaluation of 7/29/2013 Pub Date: Plot leader Role\*\* です。大学の low Moody Tech ۶ o Other not smp 1998 □ Systematic (grid) □ Capture specific feature □ Other Plot placement: & GRTS 🛚 Random 🗆 Stratified Random 🗅 Transect component Camera No.: 6 Depth: (1-5): 4 \*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide Intensive modules: 2, 3, 8, 9, 4, 5 Plot size for cover data: 0.05 GPS File Name: 3443 A Coord. Accuracy: of m oft Latitude: N 41, 48656 GPS location in plot x=0 to 5, y=1,0,+1): Datum: ■ NAD83/WGS84 □ NAD27 □ Other (specify) ■ Lat/Long □ UTM □ StatePlane Coordinate system: Source of coordinates 

MAP Check one: Public data Drivate Data State If data not public why? □ Fuzz 100m □ Fuzz 250m □ Fuzz 500m ongitude: W 681. 45140 Data Confidentiality: Local Place Names: Quadrangle: vnk. Landowner: CMP LOCATION X-axis Bearing of plot: y = -1 (base of plot x=0, y=0) НО Huntington - Wolf PrinzArea County: Ciryahagu Representative ■ deg 🗆 deg min mofic Coord. Units ■ GPS [192] ° (EDIT IF MODIFIED hectares) +- 2 × a wooded slope mext to the floodplain of also come into the cornery and a few puris. Area is content), Rationale (why here), and Veg Characterization (description of community) NOTES: Include Layout (any unusual shape details), Location (directions and landscape dominants, strata, BROWSE). Additional notes in space on back Escation: Park @ Wolf Picnic Avea off of Porter CK. Rd Veg. Characterization: A tuly mixed forest. Oak has Rutinale: GRTS point right, visible from path on slope night next to Layort 1x5 Walk in in ATP ~ 200m SE. Plot is on the as Acer publish and the occasional beech. Tull ostaria the questest cover (white and red) but is joined by Carrya (orata, glabra, laciniosa) in the compay as well park boundary. Plot origin GPS location

(0.0) point point \* : GRTS point with direction ľ location of (P) Ciusulum Biulmp Page 1 of 2 permanent posts OVER a small #5 Signe

						8	
CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet Project Name: のしみし 2の13 Project Name: のしみし 2の13	ity Assessment Program - B	Project Name: 01 Hu 2013	Sheet 2013		Plot No.: 3443	3443	Page 2 of 2
		DIST	DISTURBANCES				
KYECLASS	E:T Confe	type*		yrs ago	% of plot	description	
CODE (on separate form):	+	Human	3	0	100%	Melaldur	
J		Natural	١	-	1		
		Fire	1	1	and the same		
COMMUNITY NAME:		Cut	١	Λ	1	1	
"M xed to rest		Animal	<b>≫</b> ±	٥	1/2 001	deer browse,	racoon toilet
		Other	1	1			
TOTAL CONTENTS		**L=lo	w, ML=med low	, M=mec	, MH=med l	**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high	ery high
EII I	across the plot	Curren	Current Land Use: CMP	MP			
Media in the confosition of the confosition and the confosition of the	actoss are pro-	Forme	Former Land Use:	VMK.			
U Construores menesions	HYDROLOGIC REGIME*						
81	Upland (seldom flooded)	ntermittently flooded	flooded				
SALINITY*	☐ Intermittently/seasonally saturated	□ Semipermanently flooded	ntly flooded				
	(seldom flooded)	Permanently flooded	looded				
	☐ Permanently/Semipermanent. saturated	d 🛮 🗖 Tidal/Seiche flooded daily	looded daily				

Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.) (by default unless plot is a wetland) stream. In the sinub layer of the slope, betweener acoust smiles (heavily browsed), servicesemy, and your oaks, makens a mapies, overall, the age is young - middle aged trees w/ a few large mature "mothers". Sparce herbectors layer. Viburium acentalium + Smilax take up majorthy of cover. Mountagen and Constitution fund. □ Unknown

o Fresh Brackish

crUpland (n/a)

□ Temporarily flooded

D Occasionally flooded (<1/yr) (dry <1/yr, seldom flooded) ☐ Permanently/Semipermanent. saturated

 Tidal/Seiche flooded monthly □ Tidal/Seiche flooded irregular

(e.g. wind, storms)



767

Osty a Virginiana

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Project Label:	PCAP	Project Label: PCAP Project name: 01 Hu 2013 Plot no.: 3443
Total modules:	5	·
>		
<b>③</b>		Estimate for each 2 4 7 2 3 4 3 2 4 4 7 5 3 4 5 7
Cleveland	Br = Browse Level. Use cover classes to describe amount of browse per species over	depth cov depth
Wetroparks	entire plot	100
Strata - Cov. entire plot	blot	6 1
T S H (F)(A) Br	Br Species	i i
জ	That alm	depth cov depth cov depth cov
んたる		
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7	100 Casa 300.	
	1,1022 >60	3 2 2 2 2 1 2 1
2	e Hamamelis Virginianos	2 5 4 4 3 2 2 2 3 7 3
10		÷ )
	Viburaum agrifium	<i>N</i>
2	(Livercus Spe (Seedling)	2112232
	רן	
7	VAK. diet + Mitchelle regen s	

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

Carya JAP

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(seedlings)

Querous albin traxinus spp.

A STEWAUSES PO

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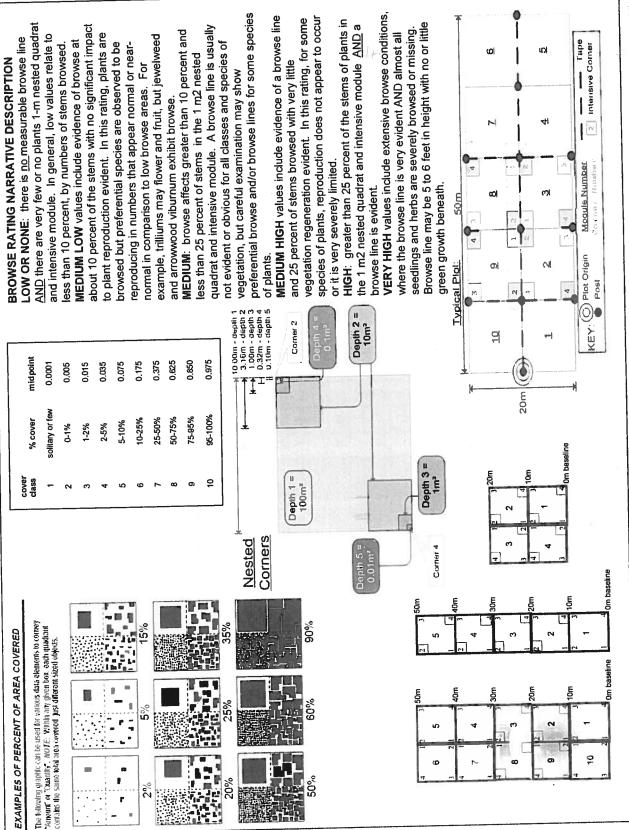
1549-31

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Carya gla

alabra

Natural Resource Management FORM NR/2010-02a



2bCM PCAP Species Cover Data Sheet Back Page\_ver 1.3.ppt

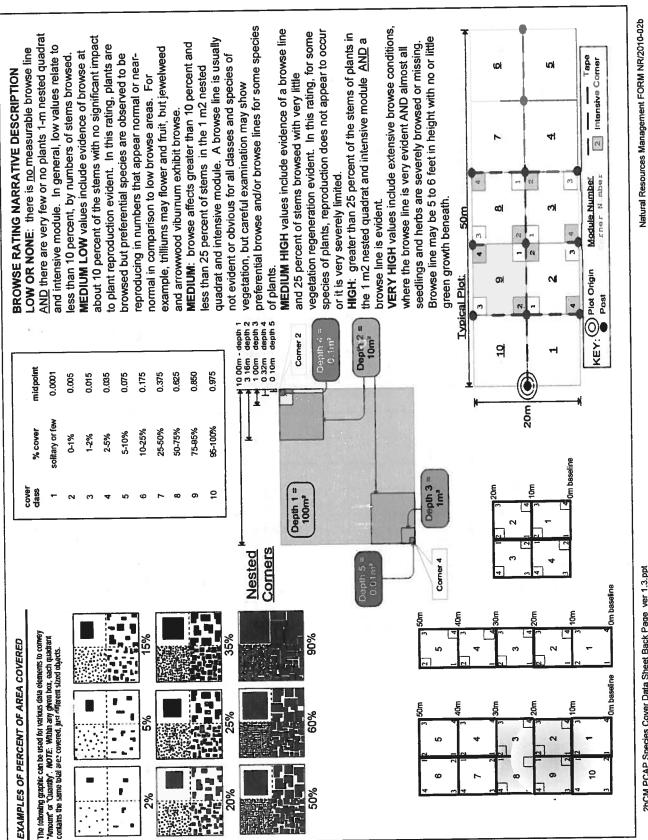
Natural Resources Management FORM NR/2010-02b

Main Storm 5grash?? 2aCM PCAP Species Cover Data sheet Page 1 of x\_ver 3.xls last revised 5/29/2012 ceh UT 20/07 Strata - Cov. entire plot CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a Cleveland Metroparks Project Label: Total modules: S H (F)(A)Br × 10 Polygonatin õ 0 Chamnes) tranquia Anytolaces a verniones Acer saechavidan Unk. dicot #2 trach Solid ago caesia Rubus alleghaniensis Monotopo Catelors raymed benest havica Francis amenima Epipachs Acer Circum lutetionus DALA INCINIOSA Concer sop. 2 NUCUS SAP CU describe amount of browse per species over entire plot 2 loxico denduon Br = Browse Level. Use cover classes to UNY. alk 5 woody dico+ dizat DAUX. Species SEILH PULCONED US The llebourine (seed lings) pulnescens Void Cans VINV %unveg. ground (bare soil) Intensive modules: Estimate for each intensive module: %unvegetated open water C %unveg. litter (bare litter) AM 157 JAM 155 1-4-13 SKE Project name: OI Hu Voucher # 1557,8 15624 JAN 1654-6 %open water 4 corner mod S cov depth cov depth Plot configuration: comer ş ş depth N 900 cov depth Plot no.: 3443 N mod ix5 2 comer N Ş 8 depth ş cov | depth corner mod corner S depth 13 Piot area (ha): 0.05 cov depth ş depth Page Z of cov | depth 8 comer mod comer 17 W CU \_\_\_ W J -6 00 VOS 8 ゎ 70 ろ depth depth mod 2 æ 4 ş 8 Ø

Natural Resource Management FORM NR/2010-02a

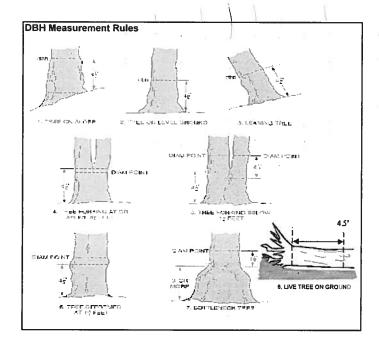
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2bCM PCAP Species Cover Data Sheet Back Page\_ver 1.3.ppt

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Amelanchier so. Acer whom धिज्यका त्रोक्त Ostrua virginiana Niburara & accordation Caryon glabra Smilax Ohondiblia Prinos serotina Smilax robodifola Standing dond Hamamelis Virginiana Explain subsample (additional room on back): Pas wown Standing dead Standina dead Querus alba Amelanchier sp. Smilax raturalisation bayus arandushia Overm Charle Homemelis Vicainiana volus or ovotos 1. beining aceptaling so work Project Label: \_ PCAP voucher# 区区区区 Ø • NAMI browsed 0-1.4m or super sample % sub Project Name: (01 H) (013 ះរ 40 clumps shrub size class (cm) woody stems >1.4m 7 :1 . 1-<2.5 :1 2.5-<5 Plot No.: 344'3 5-<10 10-<15 ¢ 15 - <20 6 20 - <25 Page: 25 - <30 30"-<35 으 © Cleweland Metroparks 35 € <40 6 42 >40 (record each tree) 6



### **Woody Stem Deer Browse**

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

Record using the tally system from 1 to













# **ASH CANOPY CONDITION**

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



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# ASH CANOPY BREAKUP CONDITION (for dead trees):

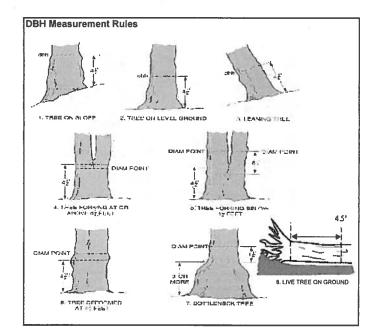
(if an ash receives a score of 5 (dead) under canopy condition it must also receive a breakup condition rank as described below)

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

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Project Label: PCAP Project Name: 〇川村)20パス Plot No.	nt Community PCAP	Assessn	nent Pro	nt Program Natural Woody Project Name: OI 141) 1013	atural V	Voody S	tem Da	ta Sheet	2442		Page.	د	2	N Cienci	© Gleveland Metroparks
Explain subsample (additional room on back):	on back):	'										þ	9	L	
		# stems 0-1,4m	% sub	shrub s	ize class (	(cm) wood	size class (cm) woody stems >1.4m	1.4m	n	,	7	٥	,		
mod # species	c voucher#	browsed	_	clumps	77	1-<2.5	2.5-<5	5-<10	10 - <15	15 - <20	20 - <25	ŭ	30 - <35	35	>40 (record each tree)
3 Carva ovata												**			
3 Amelorchies so						•	6								
3 Carva alaba	PE IT I								0						
3 Unknown work or 1	SAMASS	•													
3 Hamamel's Virginional		*				•									
3 Frakinus gemulvaniza		9						X.							
Miletary managiv				je.											
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3aCM PCAP Natural Woody Stem Data Sheet ver 2.0.xls last revised 5/29/2012 Jim Acer in mod 5 that is 25-30

Natural Resources Management FORM NR/2010-03a



### **Woody Stem Deer Browse**

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

Record using the tally system from 1 to 10















### **ASH CANOPY CONDITION**

- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
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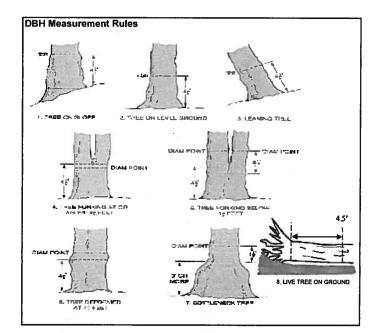
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- E: Central stem still standing.

	$\bot$			
W	1	ڼ	mod #	
Cary or Spe	Rubus allegheniensis	ששעה כששע	species	Project Label: Pu Explain subsample (additional room on back):
			c voucher#	PCAP
•			# stems 0-1.4m browsed	
			% sub or super sample	Project
			# siz	Name:
			ze class (cr 1 0-<1 1	Project Name: 0  Hv 2013
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		-	/ stems >1.4m 3 4 2.5-<5 5-<10	Plot
		ᅦ	10	Plot No.: 3443
			5 6 - 6 - 15 - <20	5
			7	Page: 3
			8 25 - <30	N
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		84	11 >40 (record each tree)	Ocieveland Metroparks

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet



### Woody Stem Deer Browse

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

Record using the tally system from 1 to













D



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- E: Central stem still standing.

mmoo ni tud "# məts"			1 1		TALL DESCRIPTION OF SPRING HOLD AND A SECOND CO.	1 1977/117
Periwinkle	3			9	By LOAMUL MARA (UE	Compe
Dame's Rocket						
Common Teasel				_		_
Sanada thistle						<u> </u>
Cattails (wetland)				ļ.,		_
Multiflora Rose	(sprub)		1	中	•	<u> </u>
Glossy Buckthorn	(sprub)					<u> </u>
Japanese Knotweed						
Phragmites						
Reed Canarygrass						
Bush Honeysuckles	(sprub)			12		
Common Privet	(spunp)	7				
			1			X: yes
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Tree of Heaven			N.	-		
Norway Maple						# of Plants
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as Needed			neld to	S1	comments	
Henry Sunnamon No						<u> </u>
d) Flowering Rush			J			
Black Swallow-wort						
Black Swallow-wort						у: уез
	1 Japanese Honeysuck 1 Japanese Honeysuck 2 Jasian Bittersweet 3 Jasian Bittersweet 4 Japanese Barberry 5 Lurgwort 6 Lily of the Valley 6 Star of Bethlehem 6 Star of Bethlehem 7 Japanese Pachysandr 8 Jasian Star of Bethlehem 8 Jasian Star of Bethlehem 9 Japanese Pachysandr 1 Japanese Pachysandr 1 Japanese Pachysandr 2 Star of Bethlehem 8 Jasian Star of Bethlehem 9 Japanese Pachysandr 1 Japanese Pachysandr 1 Japanese Pachysandr 1 Japanese Pachysandr 2 Star of Bethlehem 8 Jasian Star of Bethlehem 9 Japanese Pachysandr 1 Japanese Pachysandr 1 Japanese Pachysandr 2 Star of Bethlehem 8 Jasian Star of Bethlehem 9 Japanese Pachysandr 1 Japanese Pachysandr 1 Japanese Pachysandr 2 Jasian Star of Bethlehem 8 Jasian Star of Bethlehem 9 Jasian Star of Bethlehem 1 Japanese Pachysandr 1 Japanese Pachysandr 2 Jasian Star of Bethlehem 9 Jasian Star of Bethlehem 1 Japanese Pachysandr 2 Jasian Star of Bethlehem 9 Japanese Roseen 1 Japanese Knotweed 1 Japanese Knotweed 2 Jasian Star of Bethlehem 8 Jasian Star of Bethlehem 9 Japanese Knotweed 1 Japanese Knotweed 1 Japanese Knotweed 2 Jasian Star of Bethlehem 8 Jasian Star of Bethlehem 9 Japanese Rose 1 Japanese Knotweed 1 Japanese Knotweed 2 Jasian Star of Bethlehem 8 Japanese Rose 9 Jasian Star of Bethlehem 9 Japanese Rose 1 Japanese Rose 2 Japanese Rose 2 Japanese Rose 2 Japanese Rose 2 Japanese Rose 3 Japanese Rose 8 Japanese Rose 9 Japanese Rose	Morway Maple  Jese of Heaven  Jese of Barberry  Jese of Heaven  Jes of Interest  Jes of Heaven  Jes of Interest  Jes	Tree of Heaven  Tree of Heaver  Tree of Heaver  Dane's Rocket  Common Privet  Common Privet  Liby of the Valley  Leuchean Canary  Star of Bethlehem  Wintercreeper  Leuchean Canary  Leuchean Can	Title of Heaven   Ne SE SW	Norway Maple  Norway Maple  I riee of Heaven  I) Japanese Honeysuckle  Authum Olive  Common Buckthorn  Live-leaf Teasel  July of the Valley  Murthercreeper  European Hemock  July of the Valley  Murthercreeper  European Cannub  Mure Common Privet  European Cannub  Mure Cepen  July of the Valley  Mure Cepen  July of the Valley  July of the Valley  July of the Valley  Mure Cepen  July of the Valley  July o	Morway Mapple   Morway Mappl

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

Natural Resoures

Project Label:	EVELAND METROPARKS Plant Communit
PCAP	S Plant Comm
Project Name: O HOLOIS	nunity Assessment Program - Plant Cover and Earth Surface

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

Plot No.: 3443

Obsessed and Medicaparton Page: 1 of 1

Conseion			
Module #	C?	Corner Corner	Corner

CLASSIFICATION □ RIVERINE □ Headwater □ Mainstem □ Channe IMPOUNDMENT Beaver Bruman □ FOREST □ swamp forest □ bog forest □ forest seep Hydrogeomorphic class (WETLANDS ONLY): SLOPE (ground water hydrology or on a physical slop) SHRUB a shrub swamp a tall sh. bog a tall sh. fen Thio EPA VIBI Plant Community Class (WETLANDS ONLY): FRINGING - Reservoir - Natural Lake III = excellent g Fit and Confidence EMERGENT a marsh a wet meadow a open bog COASTAL (specify subclass) DEPRESSION BOG (strongly, moderately, weekly ombrotrophic) 1 7 7 7 -7 1 F Conf-Conf= Conf" Conf= Conf Conf= Conf Conf

# MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

Slope 1 = slight elevational grade across module (hill) tanks 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) to begin + any features present Slope 2 = falls on slope -20 " Slope 3 = maximum steepness that can be safely sampled ~45°

- feature is absent or functionally absent from the wetland
- feature is present in the wetland in very small amounts or if more common, of low quality
- feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality
- 10 feature is present in moderate or greater amounts and of highest quality

		535					1 100					
		5	4	3	2	mod#						
						corner						
		0	0	0	0	(count)	lxlm	depth 3		tussocks	no of	
		0	C	$\alpha$	5	(count)	3.16x3.16m	depth 2	uplands (Tip-Ups)	hummocks	no of	
		0	C	P	O	(count)	10x10m	depth 1	7	depressions	no macro	
		9	16	7		(count)	10×10m	depth 1		(2-12 cm)	cwd	c.w.d count
	11116	8	0	0	0	(count)	10x10m	depth 1		(12-40cm)	c.w.d	t for pieces with I
		C	C	0	0	(count)	10×10m	depth I		>40 cm	c.w.d	c.w.d count for pieces with minimum 1m length
		2	_	19		(rank)	10x10m	depth I		interspers.	microhab	
		P	7	2	2	(rank)	16×10m	SLOPE		Marie .	microhab.	

+315 degrees

# McNAB INDICES (degrees) + for up - for down

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

+315 degrees	+270 degrees	+225 degrees	+180 degrees	+135 degrees	+90 degrees	+45 degrees	At aspect	
WN	W	WS	s	SE	Е	NE.	z	
								LFI
								**IST
	awar	standing - 10 m	recorders eye to	TSI measure	angles formed by tocal slopes. For	honzon, TSI is	LFI is angle of	

Landform Index (position within landscape)

corresonding space (4 dots per grid square) CROWN COVER (DENSIONIETER) Make 4 readings per module facing N. S. E. W. Place dot count

2	14	*3	ы	Module	
ū	q	12	-1	Z	
عہ	2	0	5	s	
12	0	16	12	m	
0	0	14	U	=	

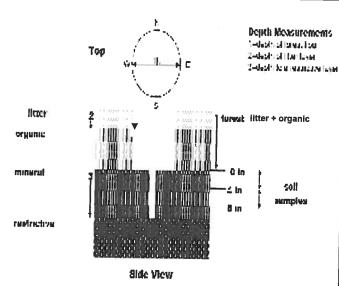
Terrain Shape Index (site microtopographic shape)

### COVER BY STRATA

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

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

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



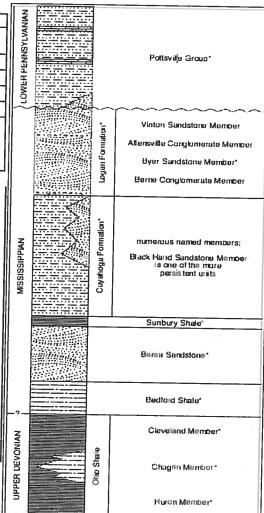


FIGURE 3-20.—Generalized section of Upper Devoman, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio. Ascertishs indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are priportional. The term "Wavely is used in the older literature to refer to Mississippian rocks in Ocio. Some geologists ase the European term "Carboniferous," which encompasses the Mississippian and Pennsylvanian Periods of the U.S. Many units have been named within the Cuyahoga Formanion, our most units are local, and cannot be traced over great distances. The Black Haina Member is a spectarular missive sandstone that is fairly undergread four discontinuous. See High e (1953). Hoover (1950), and Colins (1979) for mite infirmation on Mississippian rocks in Ohio. See figure 3-13 for explanation of rock types.

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

CLEVELAND METROPARKS Plant Community Assessment Program - Solls, Crown Cover, Standing Blomass Data Sheet 6a
Project label: PCAP Project Name: OHU 2013
Plot No.: 3443

(Calcordand Metroparks

Page: 1 of 1

TRAIL INFORMATION:

ecord type and cover for each

Ype

%Cover

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

20 cm Soil pit module # 2 (one per entire plot) 5 cm texture\* texture\* matrix color ydro. cond.\*\*\* edox features\*\* ydr. cond.\*\*\* oxid roots xid roots mottle dox features\*\* atrix color ottle color ttle color 300 2.513 10185/6 I S M D D S M ب-ب. Ż Z z

refer to texture classes on reverse side

\*\* e.g. hydrogen sulfide odor, gleving, etc

1=indundated S=saturated M=moist D=dry Notes: include evidence of earthworms (worms,

castings, middens) 2 WORMS in lares,

A fond at Sin

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

Soil Series Source: Ohio Soil Survey Soil Collection Module Horizon (A, B, C) □ Impermeable surface □ Excessively dr. Depth to rest. Layer: 20 to 40 % Soil Series/Type: BrF - Brecksyille Somewhat poorly dr. Well drained Parent Material 2,3,8,9 composited andform type: Dramaue way hesidoon weethering □ Somewhat excessively □ Moderately well dr. Very poorly dr. Silliam 32

5

SRE 9-17-13

Gravel

15%

Bootleg unsanctioned

Hiking sanctioned Bridle All Purpose

2/8

SOIL DEPTH MEASUREMENT: Measure to the nearest 0.1 cm in center of intensive modules. If >30.5 cm, record as >30

19							
2	5	4	7	2	mod#		
0,8	013	0.5	0.4	0.3	(cm)	1 litter+ organic depth	
3.0	0 \$	0/5	0.4	0.3	depth (cm)	2 litter	
	0	0	0	0	(cm)	water depth	
	>3 0	23 C	>30	>30	soil (cm)	depth sat	

**** <5 cm in diameter	***>5 cm in diameter	**Boulder = > 10 in	* Gravel-Cobble = 1/16-10"	Bedrock	Boulder**	Gravel-Cobble*	Mineral Soil	Histosol	(Sum = 100%)	Underlying Earth Surface*	EARTH SURFACE & GROUND COVER
neter	eter	] =	1/16-10"	c	a	0	100%	0	percent	Surface*	E & GROU
Other	Road/Trail	Bare Soil	Water	Bryophyte- Lichen	Duff (Ferm + Humus)	Litter	Fine Woody Debris****	Coarse Woody Debris***	(Each ≤ 100%)	Ground Cover	ND COVER
N/A	-With	12%	0	1%	0	70%	5%	5%	percent		

estimate using midpoints of 5,ex:3, 8, 13	COVER BY STRATA	
	%	

	N/A	(Aquatic)*
١	N/A	(Floating)*
18%	45	Herb
53%	0.5.5	Shrub
8 <b>8</b> %	> 5	Tree
Total Cover (%)	Height Range (m)	Strata

rooted and floating or slightly emersed

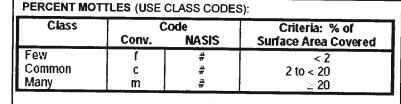
< plot size

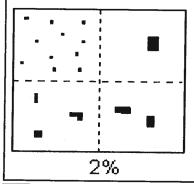
SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE. submersed, most plant mass below surface

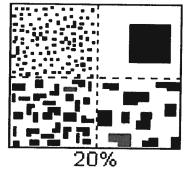
6aCM PCAP Soils\_Crown cover\_Landform\_Standing Biomass-Data Spate\_Cara-xxx last revised 6/4/2012 ceh

3	S	
6	STAND SIZE	ľ
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	Ž	١
}	10	1

= > 100 x plot size Xi-3 x plot size 3-10 x plot size 10-100 x plot size >600 x plot size







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

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

summit

shoulder

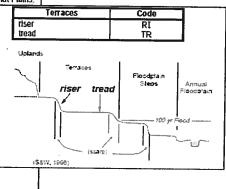
Geomorphic Component - Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains;

NASIS

e.g., (for Hills) nose slope of NS.

head slope nose slope slde slope base slope	HS NS SS	HS NS SS BS		
Sura Series Adaption Proprier	Nose slope	adacted from 2	sine, 1975)	

PDP



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

Code

backslope footslope toeslope	BS FS TS		
\$\ \\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Fs Ts describ	Sh +	Su ↓

HYDROLOGIC REGIME Modified from Grossman et al 1998. (Frequency and duration of flooding.)
UPLAND: Not a wetland. Very rarely flooded.

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

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

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

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

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

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

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

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

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Road - four lane	0	0	0		Water Leve		Structur	-	-	0		Row Crops			0	+	0	
Parking Lot/Pavement	0	0	0		Excavation	Dredgin	g	0	0	0		Fallow Field	(RECENT-	RESTING		-	0	-
Golf Course	0	0	0		Fill/Spoil Ba	inks		0	0	0		Fallow Field SHRUBS, TRE	(OLD - GRA	ASS,	0	0	0	
Lawn/Park	0	0	0		Freshly Dep		ediment	0	0	0		Nursery	-01	Tree leading	0	0	0	
Suburban Residential	0	0	0		Soil Loss/R	oot Expo	sure	0	0	0		Dairy		D.O.	0	0	0	
Urban/Multifamily	0	0	0		Wall/Riprap			0	0	0		Orchard			0	0	0	
Landfill	0	0	0		Inlets, Outle			0	0	0		Confined Ar	nimal Fee	ding	0	0	0	
Dumping	0	0	0		Point Source	STORMW	ATER)	0	0	0		Rural Resid	ential	N. F	0	0	0	
Trash	0	0	0		Impervious (SHEETFLOW)	surface in	nput	0	0	0		Gravel Pit			0	0	0	
Other:	0	0	0		Other:			.0	0	0		Imigation			0	0	0	
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Gas Wells	0	0	0	F	orest Select	ive Cut	EMA	0	0	0		Mowing/Shru	b Cutting		0	0	0	
fine (surface)	0	0	0	Т	ree Plantation	on		0	0	0		Trails			0	0	0	
fine (underground)	0	0	o		ree Canopy	Herbivor	у	0	0	0		Soil Compac			0		0	
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Eurasian Watermilfoil	0	0	0		Purple Loosestrife	0	0	0		Johnson Grass	0	0	0	
Water hyacinth	0	0	0		Knotweed	0	0	0		Kudzu	0	0	0	,
Yellow Floating Heart	0	0	0		Japanese Knotweed	0	0	0		Multiflora Rose	0	0	0	
Giant Salvinia	0	0	0		Perennial Pepperweed	0	0	0		Common Buckthorn	0	0	0	
Garlic Mustard	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry	0	0	0	
Poison Hemlock	0	0	0		Cheatgrass	0	0	0		Tamarisk	0	0	0	
Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	0		Other:	0	0	0	
Birdsfoot Trefoil	0	0	0		Common Reed	0	0	0		Other:	0	0	0	
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ill bubble	if prese	ent - l	Plot	1	2	3	Flag	Fill bubble	e if prese	nt - F	Plot	1	2	3	Flag				-	1	2	3	Flag
Road - gra	ivel			0	0	0		Ditches, Cl	hanneliza	ition	3.4	0	0	0		Pasture/Ha	y			0	0	0	
Road - two	lane			0	0	0		Dike/Dam/		Bed	18h	0	0	0		Range				0	0	0	
Road - fou	ır lane			0	0	0		Water Leve		Stru	cture	1	0	0		Row Crops				0	0	0	
Parking Lo	t/Pavem	ent		0	0	0		Excavation	, Dredgin	g	hil	0	0	0		Fallow Field	(RECENT-	RESTIN	IG	0	0	0	
Golf Cours	se			0	0	0		Fill/Spoil B	anks			0	0	0		Fallow Field	(OLD - GRA	ASS,		0	0	0	
Lawn/Park		10	SH	0	0	0		Freshly De (UNVEGETATION)		edim	ent	0	0	0		Nursery			199	0	0	0	
Suburban	Resident	tial		0	0	0		Soil Loss/R	Root Expo	sure		0	0	0		Dairy				0	0	0	
Urban/Mul	tifamily			0	0	0		Wall/Riprap	)			0	0	0		Orchard				0	0	0	
Landfill				0	0	0		Inlets, Outle				0	0	0		Confined A	nimal Fee	ding		0	0	0	
Dumping	3,15%	134		0	0	0		Point Source (EFFLUENT O	RSTORMW		)	0	0	0		Rural Resid	ential	124		0	0	0	
Trash				0	0	0		Impervious (SHEETFLOW		input		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	
Indus	trial De	evelo	pme	nt S	tres	sors						ŀ	labit	at/V	egeta	tion Stress	ors						
ill bubble	if prese	nt - F	lot	1	2	3	Flag	Fill bubble	if presen	t-P	lot	1	2	3	Flag	Fill bubbl	e if prese	nt - P	lot	1	2	3	Flag
Oil Drilling				0	0	0		Forest Clear	Cut			0	0	0		Herbicide Us	se			0	0	0	
Gas Wells		100		0	0	0		Forest Selec	tive Cut			0	0	0		Mowing/Shru	ub Cutting			0	0	0	
Vine (surfa	ice)			0	0	0		Tree Plantati				0	0	0		Trails				0	0	<b>6</b>	
line (unde	rground)			0	0	0		Tree Canopy (INSECT)	Ser usin			0	0	0		Soil Compact (ANIMAL OR HU		¥ 19		•	0		
Military				0	0	0		Shrub Layer WILD OR DOME	ESTIC)			0	0	0		Offroad vehi				0	0	0	
Other:				0	0	0		Highly Graze (OVERALL <5° H	IIGH)			0	0	0		Soil erosion OR OVERUSE)	(FROM WINE	, WAT	ER,	0	0	0	
Other.				0	0	0		Recently Bur Canopy	THE PARTY IS			0	0	0		Other:				0	0	0	
Other:		1.7.40		0	0	0		Recently Bur BLACKENED)	ned Gras	sland	1	0	0	0		Other:				0	0	0	
Fla	g codes: I	K = N	o mea	suren	ent	made,	U = St	spect measur ags in comme	rement., F	1,F2,	etc. =	misc	flags	assi	gned by	each field cre	w.	2	428:	168:	304		
Bu	ffer Sam	ple P	lots	05/	27/2	011		_g •oniii)@	Journal	. U. U	val	OI U	10	***				8.					

FC	RM	B-'	1: E	BUFF	ER SAMPLE PLOTS -	TAF	RGE	TEI	) ALI	EN SPECIES (Back) Reviewed b	y (initia	ıl):		
Site ID:	P	CA	R	170-	3443	DAT	E: _(	) [	7.15	2912013				
Confirm	a fille	ed da	ıta bı	ıbble i	ndicates presence and an unf	illed	bubbi	ie ind	dicates	absence by filling in this bub	ble			1
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	0	0	0		Purple Loosestrife	0	0	0		Johnson Grass	0	0	0	
Water hyacinth	0	0	0		Knotweed	0	0	0		Kudzu	0	0	o	
Yellow Floating Heart	0	0	0		Japanese Knotweed	0	0	0		Multiflora Rose	0	0	0	
Giant Salvinia	0	0	0		Perennial Pepperweed	0	0	0		Common Buckthorn	0	0	0	
Garlic Mustard	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry	0	0	0	
Poison Hemlock	0	0	0		Cheatgrass	0	0	0		Tamarisk	0	0	0	
Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	0		Other:	0	0	0	
Birdsfoot Trefoil	0	0	0		Common Reed	0	0	0		Other:	0		0	
Canada Thistle	0	0	0		Leafy Spurge	0	0	0		Other:	0	0	0	
							Bill			Other:	0	0	0	
	10.00	CE I			PLOT COORE	DINA	TES		7-19-10-9		A S			4
O AA CENTER NO NO Latitude N	3 (	O SS	3 (	O E3		Lon	gitud	le W	Otto de la	and comment below)	6.		Flag	9
Flag Comments														ISOUNI .
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		48/8						اردد					50.05	igibile
Buffer Sample Po	ints -	Tare	eted	Alian S	necies 05/27/2011					7966	5623	548		

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		_								U	ATE: 07		ч <i>1</i>		Λ	1 3	2
					Fil	l in bu	bble	e(s) i	f ple		could not be	1 Z	led:	and fl	0.	-	<u> </u>
N	O S	•	ÞE	OW		Plot 1		Ø P			Plot 3	Janip	ieu a	and n	ay -	7	1
v: Cano	ουν Τν	me. D	= Decid	ious: E = Every													<del>'</del> -
iate cov	er cla	ss bu	bble for e	each strata type	or each pl	ot. 0 = At	sent;	lleaf; I 1 = Sp	v = Ne arse(•	edle Le <10%); 2	af. Absent: No tre =Moderate(10-40	e canopy. %); 3 = He	avy (4	0-75%);	4 = Ve	rv He	avv (>7
: <b>(</b>	€			Buffer				(ı)	$\Gamma -$		$\sim$				_		
: 🕲	0		Fla	g Plot 2	Lea	f Type:	Ö	$\overline{\odot}$			Diet 2			$\stackrel{\smile}{-}$	<del>-</del> -	ADS	
	) (C	) (E	<u>ا</u> (כ	Big Trees (	>0.3m DBH)	0	) C	0	510		<u> </u>		T	$\overline{}$		<u>ال</u>	FI
) (C			)	Small Trees	<0.3m DBH	0	0	0	0	5			1	<del>  _ +</del>	= -		ŏl-
	<b>D</b> (	) (C	<b>D</b>	Woody Shrut (0.5r	s, Saplings 1-5m HIGH)	00	5 0	-			Woody Shru	ıbs, Saplings	1		_	_	<u> </u>
$\mathfrak{I}$	O	9 (	<u> </u>	Woody Shrub	s, Saplings	<del>                                     </del>					Woody Shru	bs, Saplings					_
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ADSE	C4	Col	nirm tha						and a	n unfille	ed bubble indic	ates abse	nce b	y filling	this	oubbl	е. 🌒
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-	+	-							) (		Pasture/Hay	,	1	(	0		5
-	+	-		(IMPEDE FLO)	V)						Range		in	1	0	-	-
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	+	+	_			9	C	0	C		ROW CROP FIELD			G	0	-	
1 -	1	-	-				C	0	C		Fallow Field	(OLD - GRA	SS,	0		+	
-	-	+	-	(UNVEGETATE	D)		C	C	C		Nursery			0	-	+	
-	-	-	_	Soil Loss/R	oot Expos	sure	-	-	C		Dairy			C	1	+	_
1-		-	_				C	0	C		Orchard		G N	C	O	O	,
	1		1	and the second second			C	0	0		Confined Ani	mal Feed	ling	-	-	+	,
			_	(EFFLUENT OR	STORMWA	TER)	-	0	0		Rural Reside	ntial		C	1	-	_
	0	1	-	(SHEETFLOW)	surrace in	iput	0	0	0		Gravel Pit				-	1	_
	10	+		Other:			0	0	0		Imigation	Market 1		-		-	-
	10	-	L	Other:			0	0	0		Other:				1	+	+
nent :	Stres	sson	s					Habi	tat/\	egeta	tion Stresso	rs			NS.	19.	100
1	2	3	Flag	Fill bubble if	present	- Plot	1	2	3	T			t - Di	ot 1	12	1,	Teles
0	0	0		E BANK TO THE		117	0				DUNIE OF SELECTION	Julia I	11-11			200	Flag
0	0	0				N FEB					Entre of State		-		1		1
							-					Cutting					_
				Tree Canopy							Trails Soil Compaction	on.		0	0	0	
				(INSECT)										0	0	0	
1		-		WILD OR DOMES	TIC)	SE 1	Ø	0	0					0	0	0	
		3		OVERALL < HIC	(H)		0	0	0	]	Soil erosion (FI OR OVERUSE)	ROM WIND,	WATER	0	0	0	
0	0	0	- 1	Canopy		VALUE OF	0	0	0			2712-271-29					
0	0	0	- 1	Recently Burni BLACKENED)	ed Grassi	land	0	0	0		Other:			-		_	-
	Abserrban of 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Abs   Co   Co   Co   Co   Co   Co   Co   C	Absent: (Case   Case   Case	Buffer Plot 2    Plot 2   Plot 2   Plot 2     Plot 2   Plot 2	Absence - Confirm that a filled data bubble in rban Stressors  Hydrolog  Than Stressors  Than Than Than Than Than Than Than Than	Absence - Confirm that a filled data bubble indicates rban Stressors  Hydrology Stressors  Hy	Absence - Confirm that a filled data bubble indicates present of 1 2 3 Flag Fill bubble if present - Plot 1  Absence - Confirm that a filled data bubble indicates present a Stressors  Hydrology Stressor  Hydrology Hydrology  Hydrology Hydrology  Hydrology Hydrology  Hydrology Hydrology  Hydrology Hydrolog	Absence - Confirm that a filled data bubble indicates presence arban Stressors  That 2 3 Flag Fill bubble if present - Plot 1 2  Absence - Confirm that a filled data bubble indicates presence arban Stressors  The Confirm C	Absence - Confirm that a filled data bubble indicates presence and a rban Stressors  Hydrology Stressors  That 2 3 Flag Fill bubble if present - Plot 1 2 3 Flag Fill Stressors  Hydrology Stressors	Buffer		W. Canpoy Type: D - Deciduous; E = Evergreen. Leaf Type: B = Broadlact; N = Needle Leaf. Absant: No tree canopy: size cover class bubble for each strata byte for each protein a strate byte for each protein and protein an	W. Janopo Type: D = Deciduous; E = Evergreen. Leaf Type: B = Broadleat N = Needle Leaf. Absant: No tree canopy: a selective create subbible for each strata byte for each of the cover class bubble for each strata byte for each of the cover class bubble for each strata byte for each of the cover class bubble for each strata byte for each of the cover class bubble for each strata byte for each of the cover class bubble for each strata byte for each of the cover class bubble for each strata byte for each of the cover class bubble for each strata byte for each of the cover class bubble for each strata byte for each of the cover class bubble for each strata byte for each of the cover class bubble for each strata byte for each of the cover class bubble for each strata byte for each of the cover class bubble for each strata byte for each of the cover class bubble for each strata byte for each of the cover class between class and class and class and class between class and clas	(V. Group) Type: D = Decidioust, E = Evergreen. Leaf Type: D = Broadlast, N = Needlet Leaf. Absent: No tree canopy interest cover class bubble for each striatury for each plut by for each pl		Y. Jahoppy Type: D = Decidouse; E = Evergreen. Leaf Type: B = Broadback N = Needle Leaf Absent: No tree canopy.

FO	RM	B-1	: E	BUFF	EK SAMPLE PLOTS -	TAR	GE	TEE	) ALI	EN SPECIES (Back) Reviewed by	(initial	)):		
Site ID:	PCF	7Pt	tu à	344	<u> </u>	DAT	E: _(	7,7	_12	291,201,3				
( Confirm	a fille	ed da	ta bı	ıbble i	ndicates presence and an unf	illed t	oubbl	e ind	licates	absence by filling in this bubl	ble			II PE
Fill bubble if present - Plot	oble if present - Plot 1 2 3 Flag Fill bubble if present -					1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Eurasian Watermilfoil	0	0	0		Purple Loosestrife	0	0	0		Johnson Grass	0	0	0	
Water hyacinth	0	0	0		Knotweed	0	0	0		Kudzu	0	0	0	-
Yellow Floating Heart	0	0	0		Japanese Knotweed	0	0	0		Multiflora Rose	•	0	0	
Giant Salvinia	0	0	0		Perennial Pepperweed	0	0	0		Common Buckthorn	0	0	0	
Garlic Mustard	•	0	0		Giant Reed	0	0	0		Himalayan Blackberry	0	0	0	
Poison Hemlock	0	0	0		Cheatgrass	0	0	0		Tamarisk	0	0	0	
Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	0		Other:	0	0	0	
Birdsfoot Trefoil	0	0	0		Common Reed	0	0	0		Other:	0	0	0	
Canada Thistle	0	0	0		Leafy Spurge	0	0	0		Other:	0	0	0	
		11/15					11.75			Other:	0	0	0	
	Mi		33	i a	PLOT COORI	DINA	TES							
	13	O S	3	O E3	O W3 Nearest pra	Lor	ngitu	de V		g and comment below)				
Flag Comments	3													
		) <i>I</i>	- h	cf	rs, park bou	ndo	10		10 000	N h a d		-		
1 1 JIONY V	111	<u> </u>	<i>U</i>	MITC	see, your per	COL		1	cu	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1 1 1 1 1	
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	I value	2		190 1		9.50		Alexander of	7.78					
Buffer Sample	Points	s - Ta	rgete	ed Alier	n Species 05/27/2011					796	662	354	8	

Buffer Sample Points - Targeted Alien Species

Site ID: DCD	0	11	2	F	ORM B-1:	BUF	FER	SA	MP	LE	PL	отѕ	(Front)		Revie	wed by	(initia	):		
777	14	Hu	3	49	<u> </u>									120			٥	13	3	Ĭ
Location:						Fil	l in l	bubb	le(	s) if	plo	ot(s)	could not be	samp	led a	nd f	ag ·	<b>→</b>	一	_
O AA Center O	V	S	(	) E	OW		Plot			Plo			O Plot 3							
Fill in bubbles for all that apply Strata Section: Fill in appropria	Cane te co	opy Ty ver cla	pe: D ss bu	= Decid		B <b>uffer</b> en. Leaf r each pl							af. Absent: No tre	e canopy. %); 3 = He	avy (40	0-75%)	: 4 = V	erv He	eavv	(>7!
Buffer Canopy Type: Plot 1 Leaf Type:	<u>@</u>			sent: (	Buffer	Canop	у Ту	oe: <b>(</b>	) (	١		ent: (	Buffer	Canop			Ē		sen	_
Big Trees (>0.3m DBH)	_		51/	Fla	9			pe: (1)	¥_	<u> </u>		Fla	ag Plot 3	Lea	f Typ	e: 🜘	<u>O</u>	$\perp$		FI
Small Trees (<0.3m DBH)			_	<u> </u>	Big Trees (>		+-	<b>®</b>	题	0	+-		Big Trees	(>0.3m DBH	) (0	0	0		0	
Woody Shrubs, Saplings		2) (	_		Small Trees (<		+=-	0	<u>0</u>		1/-	<del>`</del>	Small Trees		$\gamma$	0	0	<b>@</b>	0	
(0.5m-5m HIGH)	-   `		_	<u>୬</u>	(0.5m-	5m HIGH)	10	0	<u> </u>	M	_	D	(0.5	ibs, Saplings m-5m HIGH		0	0	<b>(</b>	0	
(<0.5m HIGH)	_		_	<u> </u>		5m HIGH)	9	0	<b>(</b>	溪	10		Woody Shru	bs, Saplings 0.5m HIGH)	0	0	0	<b>(</b>	0	_
Grasses Grasses		9 6		<u> </u>	Herbs, F	orbs and Grasses		0	<b>(</b> 2)	ľO	10		Herbs,	Forbs and Grasses		0	<b>(</b>	0	Ö	_
Bare ground (1)		-   -		<u> </u>	Bare	ground	0	0		0	0		Bar	e ground	0	0	Ō	=+	ŏ	_
Litter, duff 💿 🤇		9 (0		D	Litt	er, duff	0	0	<b>(B)</b>	0	C		L	itter, duff	Ō	0		=+	ŏ	
Rock (M)	) (	0 0	)(	<u>ا</u> [و		Rock	0	0		0	0			Rock	0	<u>@</u>	_+	_	3	_
Water 🕼 🖯		0		D .		Water	0	-		0	Č		+	Water	0		_+	_	3	
Submerged Vegetation	) (	) (		<b>9</b>		merged	<b>(1)</b>	$\overline{}$	<u> </u>	0	0		s	ubmerged	-	_	=+	<del>-</del> +	<del>-</del> +	
Stressor Presence/A	bse	nce -			at a filled data b	getation ubble in	ndicat						,	I		0	<u> </u>	<b>)</b> [C	<u> </u>	_
Residential and Ur	ban	Stres	ssoi	rs		ydrolo				oc ai	iu a	ii di biii	The first term to the party	630000000000000000000000000000000000000	Section 1	July 16 hos			_	<u> </u>
Fill bubble if present - Plot	-4	1 2	T	1		-	-				T.	1-		Agricultu			al St	ress	-	
Road - gravel	C	+	+				100	iot	1	2	3	+			t - Pi	ot	1	2	3	FI
Road - two lane	10	-	+		Ditches, Cha Dike/Dam/R			-	0	0	C	_	Pasture/Hay	1		1	0	0 0	9	
Road - four lane	to	+ -	+	200	Water Level		1000		0	0	C	_	Range			-	_	-	2	
Parking Lot/Pavement	C	1	+	-	Excavation,	-		lure	0	0	C	_	Row Crops Fallow Field	/DE0717				-		
Golf Course	C		1	_	Fill/Spoil Bar	_	9	+	9	0	C	-	ROW CROP FIELD Fallow Field			-	-	_		_
Lawn/Park	0	-	+		Freshly Depo	sited S	edime	ent		0	0		SHRUBS, TREE	S)	.55,	_	-	-		
Suburban Residential	0	-	+	_	Soil Loss/Ro		SHIFE		의	0	0		Nursery			-	+		_	
Urban/Multifamily	0	0	-	-	Wall/Riprap	or Expo	-	_		0	0	-	Dairy		Tr. Tr.	10	) (			
Landfill	0	-	C	-	Inlets, Outlets			-	의	0	0		Orchard					_	-	
Dumping	0	1	0		Point Source	Pipe		_	의	0	0		Confined An		ling	-		-	-	
Trash	0	•	6	_	Impervious si	ITORMW/	ATER)		의	0	0		Rural Reside	ntial		(		_	-	
Other:	0	0	0	_	Other: (198)		_		의	0	0	<u> </u>	Gravel Pit			1				
Other:	0	10	0	-	Other:		- 37/	200	의	0	0	<u> </u>	Irrigation			10	-	-	-	
Industrial Developm	1	Stres		-	Other.			'	이	O	O	logoto.	Other:			10		)   0	1	
ill bubble if present - Plot	1	2	3	Flag	Fill bubble if	meent	, pi		T	- 1						-	_	-	_	
Oil Drilling	0	0	0	· rug			- 110		+	2	3	Flag	Fill bubble	if presen	t - Ple	ot 1	2	3	F	lag
Gas Wells	0	0			Forest Clear C			19	-		0		Herbicide Use			C	C	0	)	
fine (surface)	100	1	0	-	Forest Selectiv			10	1	이	0		Mowing/Shrut	Cutting		C	C	0		
	0	0	0		Tree Plantation Tree Canopy H		,	-	1	이	0		Trails			C	0	0		
fine (underground)	0	0	0		(INSECT)			C	)	0	0		Soil Compacti (ANIMAL OR HUM	ON AN)		C	C	0		
filitary	0	0	0		Shrub Layer Br (WILD OR DOMEST	1C)		6	0	•	•		Offroad vehicle	CARL PROPERTY.		10	+			-
ther:	0	0	0		Highly Grazed (OVERALL <3" HIGH	0		C		0	0		Soil erosion (FI	ROM WIND.	WATER	¹ o	C	+		_
ther:	0	0	0		Recently Burne Canopy	d Fores	t	C	+	-	0		OR OVERUSE) Other:			0	C	+		
ther:	0	0	0		Recently Burne (BLACKENED)	d Grass	land	C		-			Other:		74-71		1 -	1	-	_
Flag codes: K = No mea	sure	ment r	made	, U = S		ent. F1	F2 6	c = m	ice i	Bace	2001					-10	10	0		_

<b>A</b> C	- 611		4			belli	0.1			2912013	-1-	1	(ass	
Fill bubble if present - Plot		a da	3		Fill bubble if present - Plot	1	2	3		absence by filling in this bubl Fill bubble if present - Plot	oie 1	2	3	Flag
Eurasian Watermilfoil	0	0	0	riag	Purple Loosestrife			0	1 lag	Johnson Grass	0	0	0	
Water hyacinth	0	0	0		Knotweed	00	0	0		Kudzu	0	0	0	
Yellow Floating Heart	0	0	0		Japanese Knotweed	0	0	0		Multiflora Rose	0	0	0	
Giant Salvinia	0	0	0		Perennial Pepperweed	0	0	0		Common Buckthorn	0	0	•	
Garlic Mustard	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry	0	0	0	
Poison Hemlock	0	0	0		Cheatgrass	0	0	0		Tamarisk	0	0	0	
Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	0		Other:	0	0	0	
Birdsfoot Trefoil	0	0	0		Common Reed	0	0	0		Other:	0	0	0	
Canada Thistle	0	0	0		Leafy Spurge	0	0	0		Other:	0	0	0	
							7			Other:	0	0	0	
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Fill in bubble Strata Section	es for all ti on: Fill in	hat app approp	oly: Ca oriate d	nopy	Type: class	D = [ bubble	Deciduou e for eac	s; E = Evergre	Buffer en. Leaf T or each plo	ype: E	3 = Br	oadlea	f; N =	Need	le Leaf.	Absent: No tred loderate(10-40	e canopy. %); 3 = Hea	vy (40-	75%);	4 = V	ery H	eavy (	>75%)
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Woody Shrubs (0.5m-	s, Saplings -5m HIGH)		0		0	0		Woody Shrub: (0.5m	s, Saplings +5m HIGH)	0	<b>(2)</b>	(2)	0	0			rbs, Saplings m-5m HIGH)		0	0	0	0	
Woody Shrubs (<0.	s, Saplings .5m HIGH)			0	0	0		Woody Shrub: (<0	s, Saplings ).5m HIGH)	0		0	0	0		Woody Shru	bs, Saplings :0.5m HIGH)	0	0	2	0	0	
Herbs, F	orbs and Grasses			0	0	0		Herbs, F	orbs and Grasses	0	Ø		0	0		Herbs,	Forbs and Grasses	0	0	0	0		
Bare	ground		0	2	0	0		Bare	ground	0	<b>®</b>	0	0	0		Bar	e ground		0	0	0	0	
Litt	ter, duff	0	0	<b>②</b>	0	(1)		Lit	ter, duff	0	0	0	0			L	itter, duff	<b>(</b>	0	0	<u></u>	0	
	Rock	<b>(1)</b>	0	0	0	0			Rock		0	0	0	0			Rock	<b>(</b>	0	<u> </u>	0	0	
85	Water	0	0	0	0	0			Water		0	0	0	0			Water		-	0	0	0	
	bmerged egetation		0	(2)	0	0			bmerged egetation		$\overline{\odot}$	0	0	0			Submerged Vegetation		$\overline{a}$	<u>ə</u>	0	0	
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Fill bubble	if pres	ent - F	Plot	1	2	3	Flag	Fill bubble				1	2	3	Flag				-	1 1	2	3	Flag
Road - gra	vel		E.	0	0	0		Ditches, Cl	hanneliza	tion		0	0	0		Pasture/Ha	v		T	o	0	0	
Road - two			100	0	0	0		Dike/Dam/I	Road/RR	5000		0	0	0		Range				o	0	0	
Road - fou	ır lane			0	0	0		Water Leve		Stru	cture	-	0	0		Row Crops			-	o	0	0	
Parking Lo	t/Pavem	nent		0	0	0		Excavation	, Dredgin	ng		0	0	0		Fallow Field		RESTIN	_	ŏt	0	0	
Golf Cours	e e			0	0	0		Fill/Spoil Ba	anks			0	0	0		Fallow Field	(OLD - GRA	SS,		ŏ	0	0	
Lawn/Park			N	0	0	0		Freshly De		Sedim	ent	0	0	0		Nursery				o	0	0	
Suburban	Residen	itial		0	0	0		Soil Loss/R		sure		0	0	0		Dairy				0	0	0	
Urban/Mul	tifamily			0	0	0		Wall/Riprag	)			0	0	0		Orchard				0	0	0	
Landfill				0	0	0		Inlets, Outl			TIVE.	0	0	0		Confined A	nimal Feed	ding		0	0	0	
Dumping				0	0	0		Point Source (EFFLUENT O	RSTORM	VATER	)	0	0	0		Rural Resid	lential			0	0	0	
Trash				0	0	0		mpervious (SHEETFLOW		input		0	0	0		Gravel Pit	in the			0	0	0	
Other:		-		0	0	0		Other:				0	0	0		Irrigation		46	1	0	0	0	
Other:				0	0	0		Other:				0	0	0		Other:			1		0	0	
Indus	strial D	evelo	pme	ent S	tres	sors	5					F	labit	at/V	egeta	tion Stress	ors						
ill bubble	if prese	ent - F	Plot	1	2	3	Flag	Fill bubble	if presen	nt - P	lot	1	2	3	Flag	Fill bubbl	e if prese	nt - Pi	lot	1	2	3	Flag
Oil Drilling			pru	0	0	0		Forest Clear	Cut			0	0	0	8 3	Herbicide U	se		1		0	0	
Gas Wells				0	0	0		Forest Selec	tive Cut			0	0	0		Mowing/Shr	ub Cutting		1	0	0	•	
Mine (surfa	ace)			0	0	0		Tree Plantat	ion			0	0	0		Trails			-	0	o	0	
Mine (unde	erground	1)		0	0	0		Tree Canopy	/ Herbivo	ry		0	0	0		Soil Compac			+	5	0	0	$\neg$
Military				0	0	0		Shrub Layer		1		0	•	0		Offroad vehi		ie.	+	5	o	0	
Other:				0	0	0		WILD OR DOM Highly Graze	d Grass	es	+	0	0	0	$\dashv$	Soil erosion	(FROM WINE			+	-	0	$\dashv$
Other:				0	0	0		OVERALL ST H		est		0	0	0		OR OVERUSE) Other:			-	_ +		0	$\dashv$
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	iffer San					Expl		ags in comme							gou 2)	,		24	4281	.68:	304	K	

FC	ORM	B-	1: 1	BUFF	ER SAMPLE PLOTS -	TAI	RGE	TEI	D ALI	EN SPECIES (Back) Reviewed	oy (initi:	al):		
Site ID:	1	A	4	Hu	3443	DAT	TE: _	5.7		2912013				
Ø Confirm	a fill	ed da	ita b	ubble i	ndicates presence and an uni	ilied	bubb	le inc	dicates	absence by filling in this but	ble	HAT-	4	Di.
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	0	0	0		Purple Loosestrife	0	0	0		Johnson Grass	0	0	0	
Water hyacinth	0	0	0		Knotweed	0	0	0		Kudzu	0	0	0	
Yellow Floating Heart	0	0	0		Japanese Knotweed	0	0	0		Multiflora Rose	0	0	0	
Giant Salvinia	0	0	0		Perennial Pepperweed	0	0	0		Common Buckthorn	0	0	0	
Garlic Mustard	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry	0	0	0	
Poison Hemlock	0	0	0		Cheatgrass	0	0	0		Tamarisk	0	0	0	
Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	0		Other:	0	0	0	
Birdsfoot Trefoil	0	0	0		Common Reed	0	0	0		Other:	0	0	0	
Canada Thistle	0	0	0		Leafy Spurge	0	0	0		Other	0	0	0	
						Boile				Other:	0	0	0	
			SE TE		PLOT COORE	INA	TFS	WAS:					9	Militar
Location of coordinate O AA CENTER O N3 Latitude N	s (ct	100s	e or		36 17	ticab	le loc	ation	n (flag	and comment below)			Fla	
				West 9	Use Decimal Degra	es;	NAD	83						
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Buffer Sample Poir	nts - 1	Tarøe	ted 4	Alien Sn	ecies 05/27/2011					7966	623!	548	1	