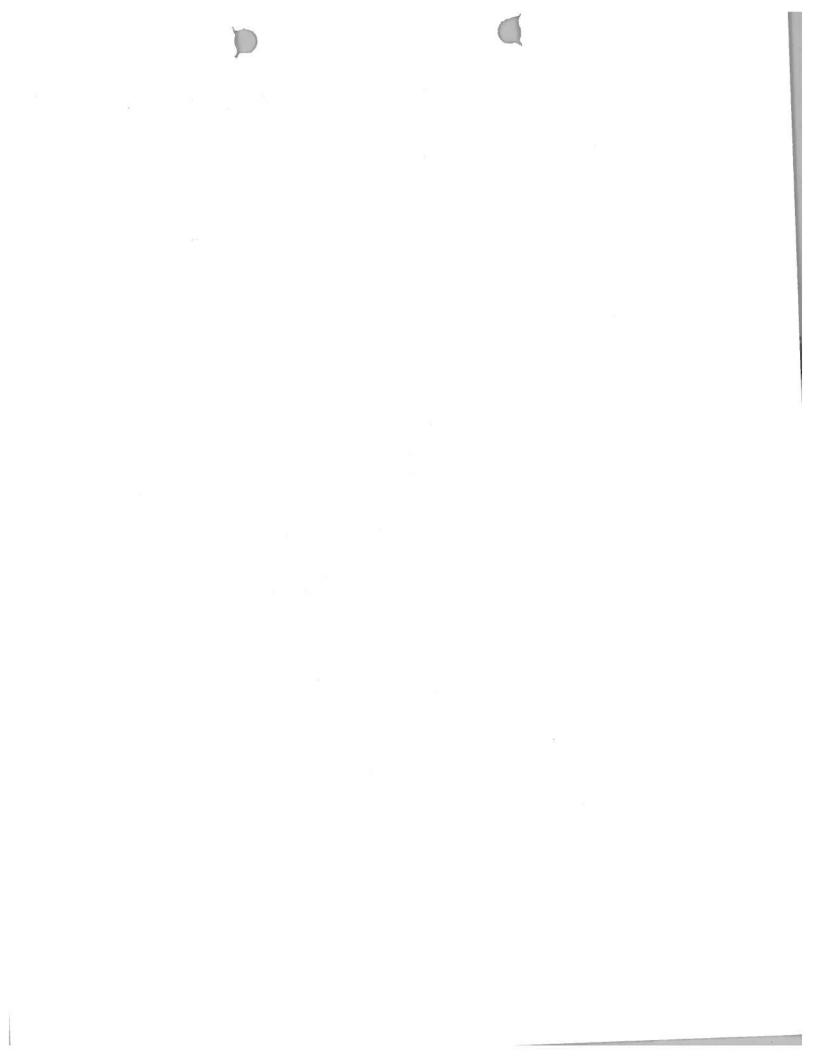
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Site sketch made		Y N Y N				
Check cover page			- 			
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	rded in all Intensive modules	748	 			
Browse Level By S	pecies					
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Invasive plant quali		N (S)	 			
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Cover by Strata? (co	onfirm cover type)	1	 			
Soil samples collect	ed with matching plot #.		 			
Vouchers labeled or	datasheet with initials and number		 			
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Common equipment	returned to tub.	7-1				
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oucher Location	Refrigerator	Y N	05 7-	12-13		
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⊻ Yes	Original GRTS point is sampleable					
	Original GRTS point lands in a non-sai	mpleable area (60)	n antile			
	taris in a water (i.e. nver, lake	:)		w)		
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	Paved area (i.e. parkinglot, road) Unsafe to sample (i.e. steep slope)					
	Other					
itional Comments:						
 						



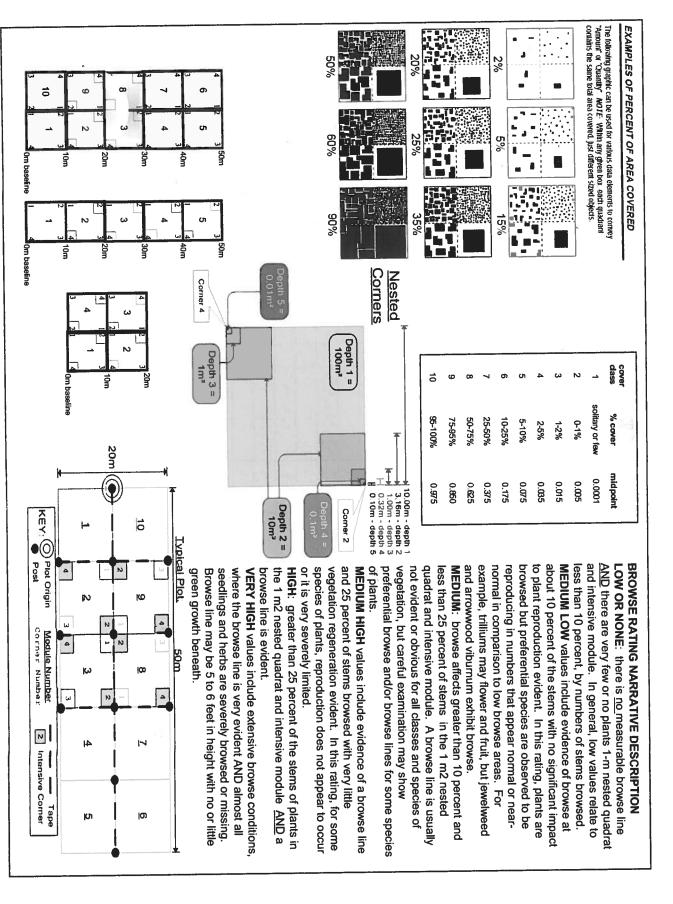
Minimum required fields in Bold and Underlined TAXONOMIC STANDARD 2 ichen /ascul FAXONOMIC ACCURACY Effort Level: SAMPLING QUALITY* PLOT NOT SAMPLED: Very thorough * Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc. Hurried Accurate Plot No.: Plot Name: End date (if > 1 day):07 / 08/ 2013 GENERAL INFORMATION CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet Date (mm/dd/yyyy): 07 /08 / 2013 Perm. water roject Name: Miller Chalson Level 4 (no nested corners sampled Level 5 (nested corners sampled) high Easy Going ☐ Paved ☐ Slope ☐ Safety modera. PCAP how much effort put into may still provide good sampling. Hurried plots subjective evaluation of Pub Date: But. Assist Plot leader Role** Woody Ich not smpl o Other ī√a □ Random □ Stratified Random □ Transect component Plot placement: &GRTS Photo Nos.: 1458 Camera No.: (3 Depth: (1-5): 4 Systematic (grid)

Capture specific feature

Other Plot size for cover data: x = () GPS location in plot x=0 to 5, y=-1,0,+1): *Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide ntensive modules: 2, 3, 8, 9 GPS File Name: 321A Coord. Accuracy: of m n ft ■ Lat/Long □ UTM □ StatePlane Source of coordinates

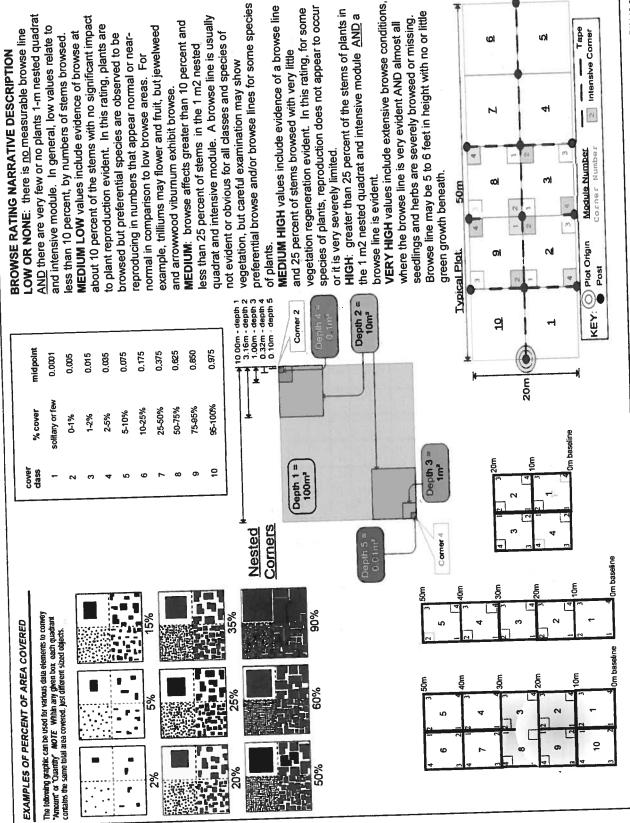
MAP Datum: ■ NAD83/WGS84 □ NAD27 □ Other (specify) Coordinate system: □ Fuzz 100m □ Fuzz 250m □ Fuzz 500m ongitude: W 08 Latitude: N 41.57478 If data not public why? Data Confidentiality: State Local Place Names: Intergrove Lodge Quadrangle: Mau LOCATION andowner: CMP X-axis Bearing of plot: y = () (base of plot x=0, y=0) НО 43488 County: □ Representative eg 🗆 deg min Coord. Units (EDIT IF MODIFIED しまつ hectares) Location - Park at the Intergrove Ladge Picnic Area. Plot is approx. 100 m NW of Intergrove Lodge. content), Rationale (why here), and Veg Characterization (description of community, Young red maple woodland w sparse, understay NOTES: Include Layout (any unusual shape details), Location (directions and landscape lominants, strata, BROWSE). Additional notes in space on back Rationale - GRTS point TOPIL hey: O(0.0) point Opoint O-Layout - 2x5 in canopy. An atypical successional community. Forest From Buckthern coming up. Tulip + Ash emerging #10 * おい #9 #3 with direction ľ #7 perbaces vegetation location of (Clumberd Weine Page 1 of 2 OVER permanent posts せか #6

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Natural Resource Management FORM NR/2010-02a

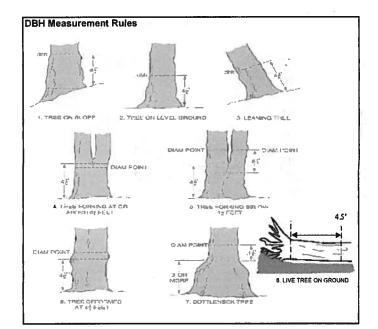


Natural Resources Management FORM NR/2010-02b

2bCM PCAP Species Cover Data Sheet Back Page_ver 1.3.ppt

3 Standing dead Ø 2 Frasinva Permanance CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Acer sachurum Stunding dread Pyrus sp. Acer sacroundinum DIMUS awvercawa Lindera benzoin Fraxinus sp Acer norum Acor rubrum Lindwa benzoin City ochon tolip for Fraxinos sp. Acor Sarcharmum Acer rubium Standing dead Nyssa sylvatica Ulmus amunicana Rosa multillora Frakings 50. Explain subsample (additional room on back): Standing dead Cratacqus sp. Acer rugrum Project Label: __ voucher# • browsed 0-1.4m # stems or super sample % sub Project Name: OINC 2013 clumps shrub size class (cm) woody stems >1.4m <u>^</u> 1-<2.5 2.5-<5 9 Plot No.: 132 6 5×10 . 10 - <15 15 - <20 20 - <25 Page: 25 - <30 6 30 - <35 9 잋 Scienciand Metroparks 35 - <40 5 さらいいにの >40 (record each tree)

3aCM PCAP Natural Woody Stern Data Sheet ver 2.0.xls last revised 5/29/2012 Jim



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















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.

3aCM PCAP Natural Woody Stem Data Sheet ver 2.0.xls last revised 5/29/2012 jjm

Natural Resources Management FORM NR/2010-03a

Acer robrom Standing dead Acer rubrum

Standing dead

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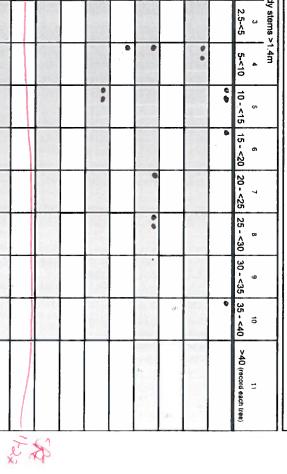
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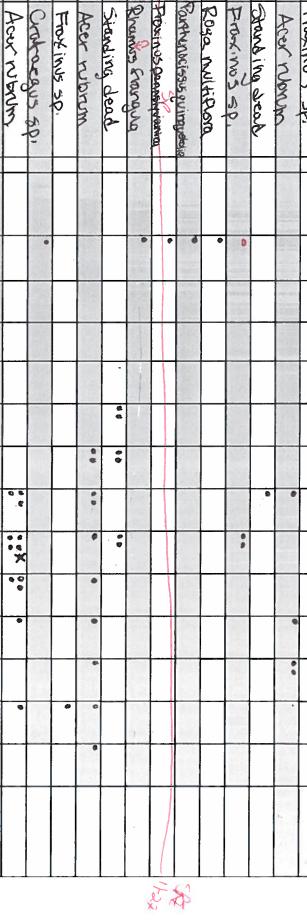
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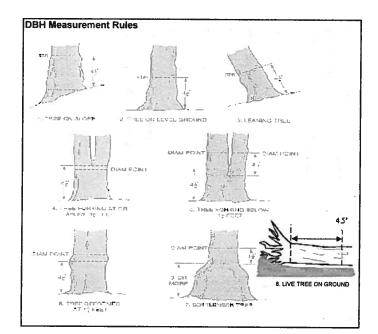
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Woody Stem Deer Browse

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













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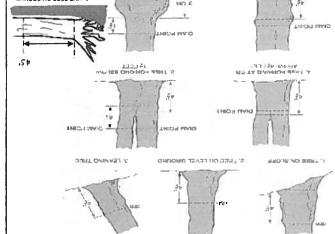
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Natural Resources Management FORM 2010-3b

Woody Stem Deer Browse

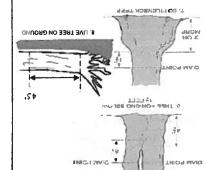
Record the number of stems/plants between 0.1-3.0 meters

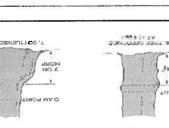
tall that exhibit evidence of this years deer browse.













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

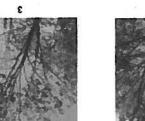














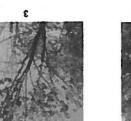




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3. Dieback: Canopy is thinning and some top branches exposed to sunlight are dead (have no leaves). Lower branches, not exposed to 2. Thimning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.















DBH Measurement Rules

- (lowest branch) on the trunk. 2. 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 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. sunlight, die naturally and are not considered.

8

- (if an ash receives a score of 5 (dead) under canopy condition it must also receive a breakup condition ASH CANOPY BREAKUP CONDITION (for dead trees):
- usuk as described below)

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- 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.

* If Ash Condition scores 5 (dead) provide breakup score (A-E) Count EAB exit holes 1.25m≥ x ≥1.5m Woodpecker and epicormic marked present (1) or absent (0)

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Tree Species a c Voucher* Cem) DBH Ht@ Ash Dead #Exit Epicormic (em) DBH condition condition holes present [9 · 2 · 0 · 0] 2 FTOX; MUS Sp. 22.5 2 · 0 · 0] 3 FYOX; MUS Sp. 13.5 3 · 4 · 1 4 FYOX; MUS Sp. 14.9 1 · 0 · 0	1
Tree Species a c voucher# Cem) DBH Ht@ Ash Dead # Exit Epicormic Cem) DBH Ht@ Ash Dead present 1 Frow; MUS Sp. 9 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Tree Species a c Voucher# Cem) DBH Ht@ Ash Dead #Exit Epicormic Cem) DBH Condition condition holes present [9 · 2 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0	
Tree Species a c voucher* (em) DBH H(@ Ash Dead #Exit Epicormic present 1	
Tree Species a Voucher# Cem) DBH Ht@ Ash Dead #Exit Epicormic DBH Condition boles present	
	° cker

h 17 N ٤ 5 ω

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detection/	Rapid response			Pres	ence		GPS	
			NE	SE	SW	NW		Presence
Aicrostegium vimineum	Japanese stiltgrass							X: yes
Ranunculus ficaria	Lesser Celandine							
	Black Swallow-wort					П		
	Flowering Rush							
deracleum mantegazzianum	Giant Hogweed						,	
Tier 2: Assess a	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN 2 IS NOT THE			# of	Plants		comments	
		Market	NE	SE	sw	NW	trongons of the same of the same of	# of Plants
Acer platanoides	Norway Maple							1: 1-10
Ailanthus altissima	Tree of Heaven							2: 11-50.
	Japanese Honeysuckle							3: 51-100
	Purple Loosestrife							4: 101-1,00
	Bishop's Goutweed							5: >1,000
1-0-1 1 9	Asian Bittersweet							
Celastrus orbiculatus (vine)								1
Forilis sp.	Hedgeparsley							1
Conium maculatum	Poison Hemlock	(abrich)	-	-	1	\vdash		1
Rhamnus cathartica	Common Buckthorn	(shrub)	 	4	-	 		-
Berberis thunbergii	Japanese Barberry	(shrub)		17	-			┨
Alnus glutinosa	European Alder			-	-			┨
Dipsacus laciniatus	Cut-leaf Teasel	,			-	\vdash		-(
laeagnus umbellata	Autumn Olive	(shrub)			├			4
Lonicera maackii	Amur Honeysuckle	(shrub)			├			-
Euonymus fortunei	Wintercreeper							-
Tier 3: Presence i	s of Interest			-	Plants		comments	
			NE	SE	SW	NW		# of Plants
Convallaria majalis (G-cover)	Lily of the Valley							1: 1-10
Coronilla varia (G-cover)	Crown Vetch				<u> </u>			2: 11-50.
Eleutherococcus pentaphyllus	Five-leaf Aralia	(shrub)						3: 51-100
Pachysandra terminalis (G-cover)	Japanese Pachysandra	1						4: 101-1,00
Philadelphus coronarius	Mock Orange	(shrub)						5: >1,000
Pulmonaria officinalis (G-cover)	Lungwort							
Rubus phoenicolasius	Wineberry							
	Yellow Flag Iris	-						
Ornithogalum umbellatum	Star of Bethlehem	-						
Viburnum opulus var. opulus	European Cranberry	(shrub)						
Viburnum plicatum	Doublefile Viburnum				1			
Tier 4: Widespread				Pre	sence		comments	
			NE	SE	sw	NW		# of Plants
Alliaria petiolata	Garlic Mustard							1: 1-10
Ligustrum vulgare	Common Privet	(shrub)				3		2: 11-50.
L. morrowii, L. tatarica	Bush Honeysuckles	(shrub)						3: 51-100
Phalaris arundinacea	Reed Canarygrass	·				1		4: 101-1,0
Phragmites australis (wetland)	Phragmites			\vdash				5: >1,000
Polygonum cuspidatum	Japanese Knotweed		1					
	Glossy Buckthorn	(shrub)	3	14	11	15	56611-27-13	1
Frangula alnus	Multiflora Rose	(shrub)	+ -	3	1	33	/N#-11 // //	7
Rosa multiflora		(SINUD)	+-	ر	+	120	-	7
Typha angustifolia, T. x.glauca	Cattails (wetland)		-	+-	+	+-		┪
Cirsium arvense	Canada thistle		-	+-	+-	+-	· · · · · · · · · · · · · · · · · · ·	1
Dipsacus fullonum	Common Teasel		-	+	+-	+-		⊣
Hesperis matronalis	Dame's Rocket			+-	+-	+-		-
Vinca minor (G-cover)	Periwinkle						L.	

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

CELVELAND METACHARAS Flam Community Assessment Program - Plant Cover and Earth Surface	y Assessment Program	- Plant Cover and Earth Surface	
Project Label: PCAP Pr	Project Name: Oi NC 2013	2013 Plot No.: 1321	138
STANDING BIOMASS (required for emergent wetlands); collected	ts): collected		
in 0.1m clip plots (32x32 cm) from corners 1 and 3 in each intensive	intensive		
module. Required for VIBI-E score calculation. C?=check when	when		
collected		CLASSIFICATION	
Wodule # C? Corner Corner	Corner	(Fit = excellent g Fit and Confidence	

CLASSIFICATION		
(FIT = excellent, g Fit and Confidence		
Hydrogeomorphic class (WETLANDS ONLY):		
DEPRESSION	file	Conf-
O IMPOUNDMENT O Beaver O Human	File	Conf=
D RIVERINE D Headwater D Mainstem D Channel	3	Conf=
□ SLOPE (ground water hydrology or on a physical slop)	FICE	Conf=
n FRINGING in Reservoir in Natural Lake	1	Conf=
□ COASTAL (specify subclass)	1	Conf=
□ BOG (strongly, moderately, weekly ombrotrophic)	Fit=	Conf=
Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):	Ë	
□ FOREST □ swamp forest □ bog forest □ forest seep	<u> </u>	Conf=
□ EMERUENI □ marsh □ wet meadow: □ open bog	1	Conf=
O SHRUB O Shrub Swamp o fall sh. bog o fall sh. fen	File	Conf=

Panks for microhabitat features. Select one or select two and everage the score NOTE: If mod falls on a slope automatically gets ranked based on steepness (1-3) to begin + any features present MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

feature is absent or functionally absent from the wetland

lope 1 = slight elevational grade across module (hill)

Slope 2 = falls on slope ~20 °

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

- 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

_	_	_			.4	·							
			a	ô	نئ	نو	mod#						
					ő		corner						
		•	Ø	a	હ	Ø	(count)	lxlm	depth 3		tussocks	no. of	
			B	Ø	, See .	G.	(count)	3.16x3.16m	depth 2	uplands (Tip-Ups)	hummocks	no. of	
			2	B	3	_	(count)	10x10m	depth 1		depressions	no. macro.	
			Sa	60	16	بے	(count)	10x10m	depth 1		(2-12 cm)	cnd	c.w.d coun
		`	B.	, Д	0	S	(count)	10x10m	depth 1		(12-40cm)	c.w.d	t for pieces with
Disease.		1	0	Ø	Ø,	Ø	(count)	10×10m	depth 1		>40 cm	c.w.d	c.w.d count for pieces with minimum 1m length
			Z	3	万级	(J.)	(rank)	10x10m	depth 1		interspers	microhab.	
			Ø,	Ø	SÌ	8	(rank)	10×10m	SLOPE			microhab	
				2 86 9	8			# corner (count) (coun				10850cks humimocks depressions (2-12 cm) (12-40 cm) >40 cm interspers	10x10m 1

McNAB INDICES (degrees) + for up - for down

(Alexand Matraganta Page: 1 of 1

+315 degrees NW	+270 degrees	+225 degrees	+180 degrees	+135 degrees	+50 degrees	+45 degrees	At aspect	
NW	¥	SW	s	SE	m	Z.	z	
								LFI*
								TSI**
	away.	eye of person	recorders eye to	TSI measure	angles formed by	horizon. TSI is	LFI is angle of	

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

9	D00	w	2	Module	
١٥	16	١, ٩	4	Z	
16	14	10	21	s	
٥	6		ī	æ	Ì
20	ه	1	ō	¥	L

NOTE: tussock and hummocks are counted in BOTH nested quadrat con

Natural Resources Mangement FORM NR/2010-05a

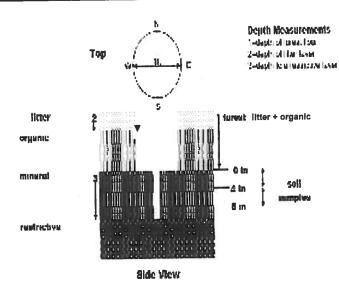
COV	/ED	DV	CT	'DA'	ГΛ
1.13		01	31	RA	. ~

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

"Very tall shrubs are sometimes included in the tree stratum

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

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



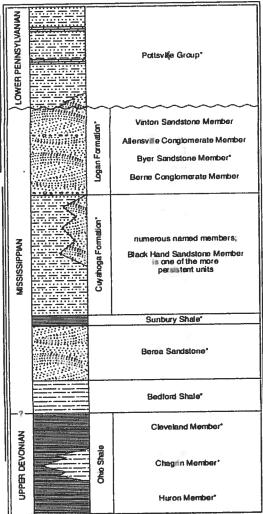


FIGURE 3-20.—Generalized section of Upper Devonian, Missemppian, and Lower Pennsylvanian formations in northeastern Ohio Asteriaks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses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

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a

@ Gleveland Rich upartes

Page: 1 of 1

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

Soil pit module # 0

(one per entire plot)

* refer to texture classes on reverse side 20 cm 5 cm matrix color redox features** matrix color ydro, cond.*** texture* xid roots xid roots ydr. cond.*** edox features** mottle ortle color ttle color nottle 3.54.5/3 2.54:3/2 NA ${\sf G}$ - S M \odot I S (M) D (2) \bigcirc 2

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

Depth to rest. Layer 40-60 to paralithic heaven Soil Series Type: D.B- Deriza 5117 1020 Soil Collection ModuldHorizon (A. B. C) Parent Material: Till Soil Series Source: Ohio Soil Survey 2,3,8,9 composited PAINAGE Web Soil Survey Information: andform type: Till plains, rockines 76.15m

 Impermeable surface □ Very poorly dr

Well drained Excessively dr.

□ Somewhat excessively

□ Moderately well dr.

Somewhat poorly dr.

33 7-12-15

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

** e.g. hydrogen sulfide odor, gleying, etc.

Notes: include evidence of earthworms (worms

=indundated S=saturated M=moist D=dry

castings, middens)

Swiary G

20 60 10 mm or
9
l inter- organic depth (cm)
2 litter depth (cm) 0, 0, 0, 0, 0,
water depth (cm)
depth sat soil (cm) 7 知.6 7 为.5 7 为.5

**** <5 cm in diameter *** >5 cm in diameter EARTH SURFACE & GROUND COVER **Bedrock** Boulder** Histosol Gravel-Cobble = 1/16-10" ravel-Cobble* Boulder = > 10 in nderlying Earth Surface* ineral Soil 100%) 100% Fine Woody Debris**** 0 0 percent \bigcirc O Bare Soil Duff (Ferm.+ Humus) Coarse Woody Debris*** Bryophyte- Lichen Ground Cover Euch < 100% 75% 0% 20% 7000 0% 0% percent

	COVER BY STRATA estimate using midpoin	COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13	,ex:3, 8, 13 %
	Strata	Height Range (m)	Total Cover (%)
	Tree	V-V=	93%
	Shrub	N	18%
	Herb	17	1890
	(Floating)*	WA	0
_	(Aquatic)*	Alla	0
	rooted and flo	rooted and floating or slightly emersed	sed
	submersed, i	** submersed, most plant mass below surface	w surface
0	FF RACK OF	SEE BACK OF BACE FOR TVBICAL STRATA	201714

STAND SIZE

> 100 x plot size

>600 x plot size

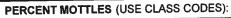
o Deer	ा Gravel	□ Bootleg unsanctioned	 Hiking sanctioned 	⊃ Bridle	a All Purpose	Туре	record type and cover for each	TRAIL INFORMATION:	No la
						%Cover	each	••	S

COVER BY STRATA estimate using midpoin	COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13	,ex:3, 8, 13 %
Strata	Height Range (m)	Total Cover (%)
Tree	V-V=	93%
Shrub	N	18%
Herb	17	1890
(Floating)*	WA	0
(Aquatic)*	Alla	0
rooted and fic	rooted and floating or slightly emersed	sed
** submersed,	** submersed, most plant mass below surface	w surface
SEE BACK OF	SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS. STRATA CAN VARY BY CO	SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.

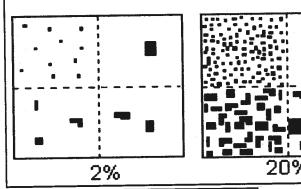
3-10 x plot size

10-100 x plot size

who corrected



Class	C	ode	Criteria: % of
	Conv.	NASIS	Surface Area Covered
Few	ſ	#	< 2
Common	c	# -	2 to < 20
Many	m	#	≥ 20



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

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

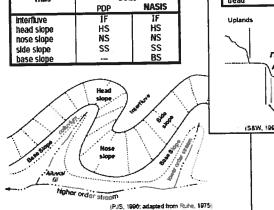
Position

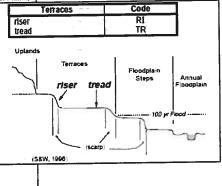
summit

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

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

Hills





Hillslope - Profile Position (Hillslope 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.

shoulder backslope footslope toeslope	SH BS FS TS	
Su Sh Bs	Fs Ts describ	Sh Su Bs + +

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

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

						W	FO	RM B-1:	BUFF	ER	SA	MPL	E F	LO	TS (Front)		Reviewed	by (initia	al):	M	
Site	ID : <u>β</u>	CA	PN	10	13	21									DAT	E: 0.7	109	61	7-0) 13	3	
Locati									Fill	In b	ubb	le(s) if 1	olot	(s) cc	ould not be	sample	ed and	flag	\Rightarrow	午	
O AA	Center	- 0	N	0	S	0	E C	w		Plot			Plot		N. Com	Plot 3			9			
					_				Buffer	Nati	ural	Cov	er S	Strat	ta							1
Strata Secti	es for all ti on: Fill in	nat ap approj	ply: Ca priate (anopy cover	Type: class	D = I bubbi	Deciduo e for eac	us; E = Evergr ch strata type f	een. Leaf T or each plo	ype: E t. 0 =	3 = Br Abser	oadlea nt; 1 =	sf; N = Spars	Need e(<10	lie Leaf.)%); 2=/	. Absent: No tree Moderate(10-40	e canopy. %); 3 = Hea	ivy (40-75	i%); 4 =	Very i	łeavy	(>75%)
Buffer	Canop					bsen		Buffer	Canop					bser		Buffer		/ Type:		<u> </u>	bsen	
Plot 1	Lea	ıf Typ	e: (0	5		Flag	Plot 2		f Typ		$\overline{}$	-		Flag	Dieta		Type:	$\stackrel{\smile}{\sim}$	51	,	Flag
Big Trees (0.3m DBH	0	•	0	0	0		Big Trees (>0.3m DBH)	0	0	0	0	0	T		(>0.3m DBH)	ما	 	10	0	i iag
Small Trees (<0.3m DBH	0	0	0	0	0		Small Trees (<0.3m DBH)	0	0	0	0	Ō		Small Trees	(<0.3m DBH)			Ŏ	Õ	
Woody Shrub	s, Saplings -5m HIGH)		@	0	(1)	0		Woody Shrub	s, Saplings n-5m HIGH)	0	0	0	0	0			ıbs, Saplings m-5m HIGH)	00	-	0	ŏ	
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	orbs and Grasses		9	0	0	0			Forbs and Grasses	0	0	0	0	Ō	, and		Forbs and	00	1 -	ō	ŏ	
Bare	ground	0	(2)	0	0	0		Báre	ground	0	0	0	0	Ō	1	Bar	Grasses e ground	00		0	ŏ	
Lit	ter, duff	0	0	0	0	0		Li	tter, duff	0	0	0	0	0		-	itter, duff	00	1 -	0	ŏ	
	Rock	(0	0	0	0			Rock	0	0	0	0	0			Rock	00	1 -	0	0	
	Water	0	0	0	0	Ō			Water	0	$\tilde{\odot}$	0	0	Ö		-	Water	00	-	0	0	
	ubmerged egetation		0	0	0	0			ubmerged egetation	\odot	0	0	0	$\tilde{\odot}$			Submerged	00		0	0	
				send	æ - (Confi	rm that)	9	nd an	unfille	d bubble indic	Vegetation ates abse	- -		_		a
	dential						Allen		Hydrolo								Agricultu					
FIII bubble	o If prese	ent - I	Plot	1	2	3	Flag	Fill bubble				1	2	3	Flac				1	2	3	Flag
Road - gra	avel			0	0	0		Ditches, C				0	0	0		Pasture/Ha			0	0	0	
Road - two	lane	4/1		0	0	0		Dike/Dam/	Road/RR			ō	0	ō		Range			0	0	0	
Road - fou	ır lane	100		0	0	0		Water Levi		Stru	cture	-	0	O		Row Crops			0	ō	ŏ	
Parking Lo	t/Pavem	ent		0	0	0		Excavation	, Dredgin	g		0	0	0		Fallow Field	(RECENT-	RESTING	0	0	ō	
Golf Cours	se			0	0	0		Fill/Spoil B	anks			0	0	0		Fallow Field	(OLD - GRA	ASS,	0	0	0	
Lawn/Park		111		0	0	0		Freshly De		edim	ent	0	0	0		Nursery		1	0	0	0	
Suburban	Residen	tial		0	0	0		Soil Loss/F		sure		0	0	0		Dairy			0	0	0	
Urban/Mul	tifamily			0	0	0		Wall/Ripra)			0	0	0		Orchard			0	0	0	
Landfill			7	0	0	0		Inlets, Outl				0	0	0		Confined A	nimal Fee	ding	0	0	0	
Dumping				0	0	0		Point Source (EFFLUENT O	R STORMW	ATER)		0	0	0		Rural Resid	ential		0	0	0	
Trash				0	0	0		Impervious (SHEETFLOW)	nput		0	0	0	<u> </u>	Gravel Pit		- J. H. S.	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	strial De	evelo	pme	nt S	tres	sors						1	labit	at/V	egeta	tion Stress	ors					
III bubble	If prese	nt - F	Plot	1	2	3	Flag	Fill bubble	if presen	t-P	lot	1	2	3	Flag	Fili bubbi	e If prese	nt - Plo	1	2	3	Flag
Oil Drilling				0	0	이		Forest Clear	Cut			0	0	0		Herbicide Us	e		0	0	0	
Gas Wells				0	0	0		Forest Selec	tive Cut			0	0	0		Mowing/Shru	b Cutting		0	0	0	
Mine (surfa	ice)			0	0	0		Tree Plantat				0	0	0		Trails			0	0	0	
Mine (unde	erground)		0	0	0		Tree Canopy (INSECT)				0	0	0		Soil Compac (ANIMAL OR HU			0	0	0	
Military				0	0	0		Shrub Layer (WILD OR DOM				•	0	0		Offroad vehic			0	0	0	
Other:			1	0	0	0		Highly Graze OVERALL <3° F	(IGH)			0	0	0		Soil erosion OR OVERUSE)		, WATER,	0	0	0	
Other:			10	0	0	0		Recently Bui Canopy		st		0	0	0		Other:	11 22 2		0	0	0	
Other:				0	0	0		Recently Bui	ned Gras	sland	1	0	0	0		Other:			0	0	0	
Fla	g codes:	K = N	o mea	surer	nent i	nade,	U = St		rement., F	1,F2,	etc. =	misc	. flags	s assi	gned b	y each field cre	w.	242	8168			1
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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	
Canada Thistle	0	0	0		Leafy Spurge	0	0	0		Other:	0	0	0	
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Location:	ne.					Fill	in t	oubl	ole(s	s) if	plo	t(s) c	ould not be	e samp	led an	d flac	\equiv		
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Strata Section: Fili in appropria	le covi	er cias	s bub	bie for ea	ach strata type f	or each pic	ot. 0 =	Abser	oadie nt; 1 =	Spar	= Nee se(<1	ole Lea 0%); 2=	r. Absent: No tre :Moderate(10-40	e canopy.)%); 3 = He	avy (40-7	5%); 4 :	= Very	Heav	vy (>7
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imali Trees (<0.3m DBH)		_			Small Trees (0	0	0	(0		Small Trees	(<0.3m DBH	00	90			_
Woody Shrubs, Saplings (0.5m-5m HIGH)) (Woody Shrub (0.5m	s, Saplings 1-5m HIGH)	@	0	0	0	0		Woody Shri	ubs, Saplings 5m-5m HIGH	00	9 (2	+ -	-	_
Voody Shrubs, Saplings (<0.5m HIGH)					Woody Shrub (<0	s, Saplings).5m HIGH)	0		3	0	0		Woody Shru	ıbs, Saplings <0.5m HIGH)				+ -	_
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Bare ground 🐠 🖸) (0	0		Bare	ground	0	•	0	0	Ō		Bar	Grasses re ground		00	+=	+ -	_
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III bubble If present - Plot	_	2	3	Flag	Fill bubble		_		1	2	3	Flor		Agricult			T		_
Road - gravel	0	-	0		Ditches, Ch			101	0	0	-	Flag		11 11 11	it - Plot	1	2	3	F
Road - two lane	10	0	0	_	Dike/Dam/	Road/RR			0	0		1	Pasture/Ha Range	У		10	10	10	-
Road - four lane	lö	lö	0	-	Water Leve		Struc	ture	0	0	_	-	Row Crops			10	0	0	_
Parking Lot/Pavement	0	10	0	_	Excavation			, tui o	0	0	0	-	Fallow Field	(RECENT-	RESTING	10	10	0	-
Golf Course	O	0	o	_	Fill/Spoil Ba		3		0	0	0		Fallow Field	OLD - GR		0	0	0	-
awn/Park	Ō	ō	ō		Freshly De	posited S	edim	ent	0	0	0	-	SHRUBS, TRE	ES)		10	0	0	-
Suburban Residential	0	0	ō		Soil Loss/R		sure		0	0	0	-	Nursery			10	0	0	2
Jrban/Multifamily	0	0	0		Wall/Riprap				Ö	0	0		Orchard			10	0	0	-
andfill	0	0	0	_	Inlets, Outle	ets			0	0	0	 	Confined Ar	nimal Fee	dina	10		0	⊢
Dumping	0	0	0		Point Sourc	e/Pipe	ATED)		0	0	0		Rural Resid	-	unig	0	0	0	├
Trash	0	0	0		Impervious (SHEETFLOW)	surface in	nput		Ö	0	0		Gravel Pit			6	0	0	_
Other:	0	0	0		Other:				0	0	0		Irrigation			0	0		-
Other:	0	0	0		Other:				0	0	0		Other:			0	0	00	-
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as Wells	0	0	0		Forest Select			_	5	\rightarrow		-	Herbicide Us			0	9	0	_
line (surface)	0	0	0			~	_		_	의	0		Mowing/Shru	b Cutting		0	0	0	<u> </u>
line (underground)					Tree Plantation		v	_	의	0	0		Trails Soil Compact	lion		0	의	0	
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lilitary	0	0	의		WILD OR DOME:	STIC)				_	9		Offroad vehic	-		0	0	0	
ther:	0	0	이	(OVERALL <3" HI	GH)		(이	0	0		Soil erosion (I OR OVERUSE)	FROM WIND	, WATER,	0	0	0	
ther:	0	0	0		Recently Burr Canopy	ieu rores	ol	(0	0	0	(Other:			0	0	0	
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Vater hyacinth	0	0	0	Knotweed	0	0	0		Kudzu	0	0	0	
ellow Floating Heart	0	0	0	Japanese Knotweed	0	0	0		Multiflora Rose	0	0	0	
iant Salvinia	0	0	0	Perennial Pepperweed	0	0	0		Common Buckthorn	0	3	8	
Sartic Mustard	0	0	0	Giant Reed	0	0	0		Himalayan Blackberry	0	0	0	
roison Hemlock	0	0	0	Cheatgrass	0	0	0		Tamarisk	0	0	0	
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irdsfoot Trefoil	0	0	0		0	0	0		Other:	0	0	0	
Canada Thistle	0	0	0	Leafy Spurge	0	0	0		Other:	0	0	0	
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Buffer Plot 3 can not be a lots are centered on the B ag box, and describe wher lither placed as close to the Location of coordina O AA CENTER	tes (constant)	ed, ta rans coord er of choc	ects finate Plot	the coordinates at the nearest practice and the coordinates will indicate the es were taken and why in the comme 3 as possible or at the center of the lone): OE3 OW3 ONearest	nt sections ast accommodates	on beessib	le Bu	The co ffer Plo tion (fla	ordinates of the nearest practica it. ag and comment below)	ible lo	catio	n car	be

							FOR	M B-1: E	BUFFE	ER S	SAM	PLE	PL				Reviewed by			- (
Site ID: PCAPNC 321 Location: DATE: 0.7. 0.8. 20.13 Fill in bubble(s) if plot(s) could not be sampled and flag ->																					
Location									FIII	n bı	ubbl	e(s)	if plo	ot(s)			sampled and fl	ag —	→		-11
OAAC	enter	0	N	0	3	OE	0		OP				lot 2		O PI	lot 3			_1		
	6!! Ab			nony 1	ima: [) – De	aciduous		Buffer I	D	- 0	-416	NI - NI	olboo	Leaf. At	osent: No tre	е сапору.				
tiii in bubbles Strata Section	ror all th : Fill in a	pprop	riate c	overc	iass b	ubbie	for each	strata type for	each plot	. 0 = A	bsent	;1=S	parse(<10%); 2=Mo	derate(10-40	%); 3 = Heavy (40-75%)	, 4 = Ve	ry Hea	ıvy (>	75%)
Buffer (Canopy	/ Тур	e: 4) (4) Ab	sent	: 0	Buffer	Canopy	Тур	e: 🕡	0	Abs	sent:	0	Buffer	Canopy Type:	0	Abs	ent:	0
Plot 1	Lea	f Typ	e: (()) (1)			Flag	Plot 2	Leaf	Тур	e: (<u> </u>	1_		Flag	Plot 3	Leaf Type: 🚱	0			lag
Big Trees (>0.	.3m DBH)	0	0		0	0		Big Trees (>0	.3m DBH)	0	@	0	Θ	<u> </u>		Big Trees	(>0.3m DBH)			<u> </u>	
mail Trees (<0.	.3m DBH)	0	0	0	9	0		Smail Trees (<	0.3m DBH)	0	0	<u> </u>	@ (<u>ગ</u>			(<0.3m DBH)		_	<u> </u>	
Voody Shrubs, S		0		0	0	0		Woody Shrubs, (0.5m-5	Saplings 5m HIGH)	0	0	0	0 0	<u> </u>		(0.	ubs, Saplings 5m-5m HiGH)		_	<u> </u>	
Voody Shrubs, S		0	1	0	0	0		Woody Shrubs, (<0.5	Saplings 5m HIGH)	0		0	\odot	<u> </u>		(ubs, Saplings <0.5m HIGH)		-	<u> </u>	
Herbs, Fo		0	(4)	0	0	0		Herbs, Fo	orbs and Grasses	0	0		0	<u> </u>		Herbs	Grasses 0		- -	<u> </u>	
Bare g		(4)	0	0	0	0		Bare	ground	0	W	0	0	<u> </u>		Ba	re ground 💿 🛈	0		<u> </u>	
Litte	er, duff	0	0	0	0	1		Litt	er, duff	0	0	0	@	<u> </u>			Litter, duff 💿 🚳	0	<u> </u>	0	
	Rock	(4)	Ō	0	0	0			Rock	0	0	0	0	0			Rock ①	0	<u> </u>	<u> </u>	
	Water	(4)	0	0	0	Ō			Water	(49)	0	0	0	0			Water 🐠 🕦	0	<u> </u>	<u> </u>	
	merged	M	<u></u>	0	0	$\overline{\odot}$			bmerged egetation	4	0	0	0	<u></u>			Submerged Vegetation	0	0	0	
Stress	getation or Pres	senc					rm that	a filled data	bubble is		1		e and	an u	unfilled	bubble ind	icates absence by fill	ing this	s bubl	ole. 🕻	9
	lential			$\overline{}$					lydrolo					ny i			Agricultural & Ru				
Fill bubble				1	2	3	Flag	FIII bubble		1	2	3	Flag	Fill bubble if present - Piot			2	3	Flag		
		GIIL-	7100	0	0	0		Ditches, Channelization				0	0	0		Pasture/H	lay	0	0	0	
Road - grav			_	0	0	0		Dike/Dam/	Road/RF			0	0	0		Range	with made in the	0	0	0	
Road - four				6	0	0		(IMPEDE FLOW) Water Level Control Structure				+	0	0		Row Crop	os	0	0	0	
Parking Lo		ment		lö	0	0		Excavation	, Dredgi	ng	Ne.	0	0	0		Fallow Fig	eld (RECENT-RESTING	0	0	0	1
Golf Cours			Santo	0	ō	ō		Fili/Spoil B	anks	(CIL	H.L.	0	0	0			eld (OLD - GRASS,	0	0	0	4
Lawn/Park				O	0	0		Freshly De	posited	Sedir	nent	0	0	0		Nursery		0	0	0	
Suburban		ntial		0	ō	ō		Soil Loss/F		osure	Э	0	0	0		Dairy		0	0	0	
Urban/Muli	tifamily			0	ō	0		Wall/Ripra	р		7	0	0	0		Orchard		0	0	0	
Landfill				0	ō	0		Inlets, Out	lets		Y.	0	0	0		Confined	Animal Feeding	0	0	0	
Dumping				0	_	0		Point Sour	ce/Pipe	WATE	R)	0	0	0		Rural Res	sidential	0	0	0	
Trash	100			0	O	O		Impervious (SHEETFLOW	surface	inpu	it	0	0	0		Gravel Pi	t	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									tation Stressors												
Fili bubble				_	Τ.	3	Flag	Fili bubble	If prese	ent -	Plot	1	2	3	Flag	Fill but	ble if present - Plot	1	2	3	Flag
Oil Drilling		Sent	1100	0	_	0		Forest Clea	=======			0	0	0		Herbicide	Use	0	0	0	
Gas Wells				0	_	0		Forest Sele		1		0	0	0			hrub Cutting	0	0	0	
					-	_						0	0	0		Trails		0	0	0	/
Mine (surf		- 41		0	+	10	-	Tree Planta Tree Canor		vory	- 11	0	0	0		Soil Com		0	0	0	7
Mine (und	ergrour	na)		C	+	0	-	(INSECT) Shrub Laye				-	+	0		Offroad v	ehicle damage	0	0	0	_
Military				C	+	0		(WILD OR DOI	MESTIC)			0	0				ON (FROM WIND, WATER		0	0	
Other:				C	_	0		(OVERALL <3"	HIGH)			0	0	0	-	OR OVERUS	SE)	+	1	_	
Other:				C	0	0		Canopy			204	0	0	0	_	Other:		0	0	0	
Other:				C		0		Recently B (BLACKENED))			0	0	0		Other:		.0	0	0	
FI	lag code	s: K	= No n	neasu	remer	t mad	le, U =	Suspect meas	urement	, F1,	F2, etc	. = ml	sc. flag	gs ass	signed t	by each field	crew. 24:	2816	8304	1 (

Buffer Sample Plots 05/27/2011



● FC	RM	B-1	1: E	BUFF	ER SAMPLE PLOTS -	TAF	RGE	TEI	D AL	IEN SPECIES (Back) Reviewed by	y (initia	ıl):		
Site ID:	PC	PP	NO	2139	21	DAT	E: _(9.7	71	0812013				
Confirm	a fille	ed da	ıta bı	ubble l	ndicates presence and an unf	illed l	bubbl	e Inc	dicates	absence by filling in this bub	bie			
Fill bubble if present - Plot	1	12	3	Flag	FIII bubble if present - Plot	1	2	3	Flag	Fill bubble If present - Plot		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	9	
Giant Salvinia O O O Perennial Pepperweed O O O Common Buckthorn														
											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	
									<u> </u>	Other:	0	0	0	
					PLOT COORE	DINA	TES		14 8					
O AA CENTER O N		SS H		O E3	7357	Lon	gituc	de W		and comment below)	6 .			
Flag Comments					Use Decimal Degr	ees;	NAU	83						
I DOT		14												
$A \mid HPI$		—												
								M	14 -			:=XIII		
										796	6623	3546	. (

05/27/2011

Buffer Sample Points - Targeted Alien Species

Lita. Enmots R. miltifl.

E- Volg.

	NU I			W)			FOR	M B-1:	BUFF	ER	SAN	APLE	PL	OT	S (Fr	ont)	Re	eview	ed by (initial):		- (
Site	D: P	CAI	PN	C	137	21									DATE:	0.7	108].	2	0.1	3	_	
Locati	on:		110						FIII	in b	ubb	le(s)	if pl	ot(s) cou	d not be	sample	d ar	nd fl	ag –	→		
OAA	Center	0	N	0	S	@ E	0			lot '			lot 2		OP	lot 3		10					
			· · · · · · ·) - D	aniduaus		Buffer		- D~	adloaf	N = N	oodio	Leaf. Al	bsent: No tree	е сапору.						
Flii in bubbli Strata Secti	es for all tr on: Fill in a	at app approp	riate c	over c	iass b	ubble	for each	strata type fo	or each pio	t. 0 =	Absen	t; 1 = S	parse(<10%); 2=Mo	derate(10-40	%): Heav	y (40-	-75%);	4 = Ve	ry Hea	avy (>	75%)
Buffer	Canopy	у Тур	e: 🚱	0) Ab	sent	: 0	Buffer	Buffer Canopy Type: (Absent: Buffer Canopy Type: (Abs	ent:	0		
Plot 1	Lea	f Typ	e: 🌘	(Flag	Plot 2	Lea	f Тур	e: () (_ (Flag	Plot 3	Leaf	Туре	$\overline{\sim}$	0	Ļ	$\overline{}$	Flag
Big Trees (-0.3m DBH)	0	0	0		0	~	Big Trees (>0.3m DBH)	0	0	0	- +	0		Big Trees	(>0.3m DBH)	<u> </u>	9		_	의	
Small Trees (<0.3m DBH)							Small Trees	<u> </u>			0	0	\odot		Small Trees		<u>0</u>	0	-		의		
Noody Shrub (0.5m	s, Saplings i-5m HIGH)	0	9	0	0	0		Woody Shrub (0.5r	os, Saplings n-5m HIGH)		0	0	0	<u> </u>		(0.5	ubs, Saplings 5m-5m HIGH)	$\bar{\odot}$		0	= 1	잋	
Woody Shrub			0	0	0	0		Woody Shrut (<	os, Saplings 0.5m HIGH)		(3)	2		\odot		(ibs, Saplings <0.5m HIGH)		0	0	<u> </u>		
	Forbs and Grasses	0	0	0	0	0		Herbs,	Forbs and Grasses		0	0	0			Herbs	, Forbs and Grasses	\odot	0	0	-		
Bare	ground	$\uparrow \sim$	1	0	0	0		Bar	e ground		0	0	0	0		Ва	re ground	\odot	(4)	0	0	<u> </u>	
Li	tter, duff	0	Ō	0	0	0		L.	itter, duff	0	0	(3)	0	0		l	itter, duff	0	•	0	0	<u> </u>	
	Rock	-	ō	Ō	Ō	$\overline{\odot}$			Rock	1	0	0	0	0			Rock	0	0	0	0	0	
	Water		0	0	0	0			Water	-	0	0	0	0			Water	(3)	0	0	0	0	
	ubmerged	1	0	0	0	0			Submerged	6	lŏ	0	0	Ō			Submerged Vegetation	(1)	0	0	0	0	
Stroe	Vegetation	senc	1		20.0		rm that		Vegetation a bubble		ates p		ce and	d an	unfilled	bubble indi	-		by fill	ing thi	s bub	ble. (D
	identia	_	_						Hydrole								Agricultu						
Fill bubbi				1	2	3	Flag	Fili bubb	ie If pres	ent -	Plot	1	2	3	Flag	FIII bubbi	e If presen	ıt - P	lot	1	2	3	Flag
	CONTRACTOR OF STREET	-	1100	1	0	0		Ditches, Channelization				0	0	0		Pasture/Hay					0	0	
	Road - gravel OOO				 	Dike/Dam/Road/RR Bed (IMPEDE FLOW)				0	0	0		Range			1 7/2	0	0	0			
Road - fo		9 10		10	0	o		Water Le		ol Str	uctur	-	0	0		Row Crop	s			0	0	0	
Parking		ment		0	0	•	1	Excavation	on, Dredg	edging			0	0		Fallow Field (RECENT-RESTING ROW CROP FIELD)				0	0	0	
Golf Cou				0	0	0		Fill/Spoil	Banks	Banks			0	0		Fallow Field (OLD - GRASS, SHRUBS, TREES)				0	0	0	
Lawn/Pa		li iy		0	0	0		Freshly D		Sedi	ment	0	0	0		Nursery				0	0	0	
Suburba	n Reside	ntial		0	0	0		Soil Loss		posur	е	0	0	0		Dairy				0	0	0	
Urban/M	ultifamily	,		0	0	0		Wall/Ripr	ар			0	0	0		Orchard				0	0	0	
Landfill	ASSES			0	0	0		Inlets, O			0	0	0		Confined	Animal Fee	eding		0	0	0		
Dumping	1			0	0	0		Point Sou	OR STORM	MWATE	R)	0	0	0		Rural Res	idential			0	0	0	
Trash				0	0	0		(SHEETFLO	us surface	e inpi	ut	0	0	0		Gravel Pi		16		0	0	0	
Other:				0	0	0		Other:			100	_ 0	0	0		Irrigation				0	0	0	
Other:				0	0	0		Other:				_ 0	0	0		Other:			_	0	0		
Ind	ustrial	Deve	lopn	nent	Stre	5801	rs						Habi	tat/\	/egeta	tion Stres	sors						<u> </u>
Fill bubb	ole if pre	sent ·	- Plot	1	2	3	Flag	Fill bubb	le if pres	ent -	Plot	1	2	3	Flag	FIII bub	ble if pres	ent -	- Plot	1	2	3	Flag
Oil Drilli				0	0	0		Forest Cle	ear Cut			0	0	0		Herbicide	Use			0	0	•	1
Gas We	Gas Wells OOO				Forest Se	lective C	ut		0	0	0		Mowing/S	hrub Cuttin	g		0	0	0	1			
Mine (su	Mine (surface)				Tree Plan	tation			0	0	0		Trails				0	0	0				
Mine (underground)			-	0		Tree Can	opy Herbi	ivory		0	0	0		Soil Comp (ANIMAL OR				0	0	0			
Military	He X	-	19-17	C	+	0		Shrub Lar		sed		0	0	0			ehicle dama			0	0	0	
				C	+	+		Highly Gr	azed Gra	sses		0	0	0		Soil erosi	on (FROM WI	ND, V	VATER	0	0	0	
				_	+		+	Recently	Burned F	orest	H iyan	0	+			Other:				0	0	0	
					+	Canopy Recently Burned Grassland						lo	+					0					
Other:	Flan cod	as. K .	No.				do II.e.	(BLACKENE Suspect me	aguremen	t., F1.	,F2, et	0 c. = m	sc. fla	as as		by each field	crew.		24	2816	830	4 1	
	Buffer S					Ex	plain ai	flags in con	nment sec	tion o	n the	back o	f this f	form	10	Helin St		BI	271			2.21	
						_																	

Site ID:	PC	AP	NC	132	(DAT	E: 0	7	7-1	0 8 20 13				
	4	_												
			Т		ndicates presence and an unf						ble			
Fill bubble if present - Plot	1	2	3	Flag	Fili bubble if present - Plot	1	2	3	Flag	FIII bubble if present - Piot	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	1	1	0	
Glant Salvinia	0	0	0		Perennial Pepperweed	0	0	0		Common Buckthorn	9	9	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	•
										Other:	0	0	0	
	neil.				PLOT COORE	DINA	TES					110		
Plots are centered on the But lag box, and describe where	ter Tr the c	anse cordii	cts a nates	e coord ind the	opriate bubble. inates at the nearest practicable coordinates will indicate the loc aken and why in the comment s sible or at the center of the last	ation section	of the	trans	sect. Fil	I in the "nearest practicable loc-	ation"	hubb	ا الله ما	n the
Plots are centered on the Bufflag box, and describe where either placed as close to the Location of coordinate O AA CENTER O N.	the contents (cl	anse cordii r of P	cts a nates flot 3	e coord ind the s were t as pos ne):	inates at the nearest practicable coordinates will indicate the loc aken and why in the comment sible or at the center of the last O W3 O Nearest practicable or at the center of the last	ation section access	of the n belo ssible local pole local gituo	transow. To Buffe catio	sect. Fil he coor er Plot. on (flag	I in the "nearest practicable loc-	ation" ple loc	hubb	ا الله ما	n the
Plots are centered on the Builing box, and describe where either placed as close to the Location of coordinate	the contents (cl	anse cordii r of P	cts a nates flot 3	e coord ind the s were t as pos ne):	inates at the nearest practicable coordinates will indicate the loc aken and why in the comment sible or at the center of the last	ation section access	of the n belo ssible local pole local gituo	transow. To Buffe catio	sect. Fil he coor er Plot. on (flag	I in the "nearest practicable locationales of the nearest practicated and comment below)	ation" ple loc	hubb	le, fill i can b	n the
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Plots are centered on the Bufflag box, and describe where either placed as close to the Location of coordinate O AA CENTER O N: Latitude N Flag Comments	the contents (cl	noos O S3	cts a nates rlot 3	e coord nd the s were t as pos ne):	inates at the nearest practicable coordinates will indicate the locaken and why in the comment sible or at the center of the last O W3 O Nearest practicable or at the center of the last	ation section access	of the n belo ssible local pole local gituo	transow. To Buffe catio	sect. Fil he coor er Plot. on (flag	I in the "nearest practicable locationales of the nearest practicated and comment below)	ation" ple loc	hubb	le, fill i can b	n the
Plots are centered on the Bulling box, and describe where either placed as close to the Location of coordinate O AA CENTER O N: Latitude N Flag Comments	the cicenters (cl	noos O S3	cts a nates rlot 3	e coord nd the s were t as pos ne):	inates at the nearest practicable coordinates will indicate the loc aken and why in the comment sible or at the center of the last O W3 O Nearest practicable or at the center of the last	ation section access	of the n belo ssible local pole local gituo	transow. To Buffe catio	sect. Fil he coor er Plot. on (flag	I in the "nearest practicable locationales of the nearest practicated and comment below)	ation" ple loc	hubb	le, fill i can b	n the
Plots are centered on the Bulling box, and describe where either placed as close to the Location of coordinate O AA CENTER O N: Latitude N Flag Comments	the cicenters (cl	noos O S3	cts a nates rlot 3	e coord nd the s were t as pos ne):	inates at the nearest practicable coordinates will indicate the locaken and why in the comment sible or at the center of the last O W3 O Nearest practicable or at the center of the last	ation section access	of the n belo ssible local pole local gituo	transow. To Buffe catio	sect. Fil he coor er Plot. on (flag	I in the "nearest practicable locationales of the nearest practicated and comment below)	ation" ple loc	hubb	le, fill i can b	n the
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	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																				
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Other:				0	-	0		Highly Gra	zed Gras	ses		0	0	0		Soil erosio	n (FROM WIND, WATER,	0	0	0	
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							Canopy Recently Burned Grassland				0	0	0		Other: O (0		
Other:	lee or d	a. W -	No -			0	le 11 = 1	(BLACKENED	0)			_	_	9 250	ianed h	_	crew.			-	
	Fiag 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 Buffer Sample Plots 05/27/2011													,	242						



© Confirm a filled data bubble Indicates presence and an unfilled bubble Indicates absence by filling in this bubble		W				ER SAMPLE PLOTS -					Reviewed by	y (initia	I):		
Fill bubble if present - Plot	Site ID:	1	CA	P	NC	132	DAT	E: _(7 (_/_	0.8.1.2.0.1.3.				
Eurasian Watermifoil O O O Purple Loosestrife O O O Johnson Grass O O O Value Purple Loosestrife O O O Johnson Grass O O O Value Purple Loosestrife O O O O Multiflora Rose O O O Value Presentation Pleant O O O D Japanese Knotweed O O O O Multiflora Rose O O O O Multiflora Rose O O O O D O O O O O O O O O O O O O O	© Confirm	a fill	ed da	ta bı	ubble i	ndicates presence and an unf	illed I	bubbl	ie Ind	ilcates	absence by filling in this bubi	bie			
Water hyacinth O O O Knotweed O O O Kudzu O O O	FIII bubble if present - Plot	1	2	3	Fiag	Fili bubble if present - Plot	1	2	3	Flag	FIII bubble If present - Plot	1	2	3	Flag
Water hyacinth O O O O Knotweed O O O Multiflora Rose Glant Salvinia O O O O Perennial Pepperweed O O O O Multiflora Rose Glant Salvinia O O O O Perennial Pepperweed O O O O Common Buckthorn Garlic Mustard O O O O Giant Reed O O O O Himaleyan Blackberry Poison Hemiock O O O O Cheatgrass O O O O Himaleyan Blackberry Poison Hemiock O O O O Cheatgrass O O O O Dither: O O O Birdsfoot Trefoil O O O O Common Reed O O O O O Dither: O O O Granda Thistile O O O O Common Reed O O O O Dither: O O O Canada Thistile O O O O Dither: O O O O Canada Thistile O O O O Dither: O O O O 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 with 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): O AA CENTER O N3 O S3 O E3 W3 O Nearest practicable location (flag and comment below) Latitude North 4 1 5 7 5 0 3 Longitude West 0 8 1 4 3 5 7 1 Use Decimal Degrees; NAD83	Eurasian Watermilfoil	0	0	0		Purple Loosestrife	0	0	0		Johnson Grass	0	0	0	
Glant Salvinia O O O Perennial Pepperweed O O O Common Buckthorn	Water hyacinth	0	0	0		Knotweed	0	0	0		Kudzu	0	_	-	
Garlic Mustard O O O Giant Reed O O O Himalayan Blackberry O O O Miler. Poison Hemlock O O O Cheatgrass O O O O Tamarisk O O O O Miler. Mile-A-Minute Weed O O O Reed Canary Grass O O O O Other: O O O O O O O O O O O O O O O O O O O	Yellow Floating Heart	0	0	0		Japanese Knotweed	0	0	0		Multiflora Rose	0	0	0	
Poison Hemlock	Giant Salvinia	0	0	0		Perennial Pepperweed	0	0	0		Common Buckthorn	0	0	•	
Mile-A-Minute Weed OOO Reed Canary Grass OOOO Other: OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO	Garlic Mustard	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry	0	0	0	
Birdsfoot Trefoil Canada Thistle O O O D Common Reed O O O O Other: Other: Other: Other: Other: Other: Other: Other: Other: O O O O Other: Other: Other: Other: Other: Other: Other: Other: O O O O 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): O AA CENTER O N3 O S3 O E3 W3 O Nearest practicable location (flag and comment below) Latitude North 4	Poison Hemlock	0	0	0		Cheatgrass	0	0	0		Tamarisk	0	0	0	
Canada Thistle O O O Leafy Spurge O O O Other: Other: O O O 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): O AA CENTER O N3 O S3 O E3 W3 O Nearest practicable location (flag and comment below) Flag Comments Flag Comments Comments	Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	0		Other:	0	0	0	
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): O AA CENTER O N3 O S3 O E3 W3 O Nearest practicable location (flag and comment below) Latitude North 4 1 5 7 5 0 3 Longitude West 0 8 1 4 3 5 9 1 Use Decimal Degrees; NAD83	Birdsfoot Trefoil	0	0	0		Common Reed	0	0	0		Other:	0	0	0	
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): O AA CENTER O N3 O S3 O E3 W3 O Nearest practicable location (flag and comment below) Latitude North 4	Canada Thistle	0	0	0		Leafy Spurge	0	0	0		Other:	0	0	0	
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