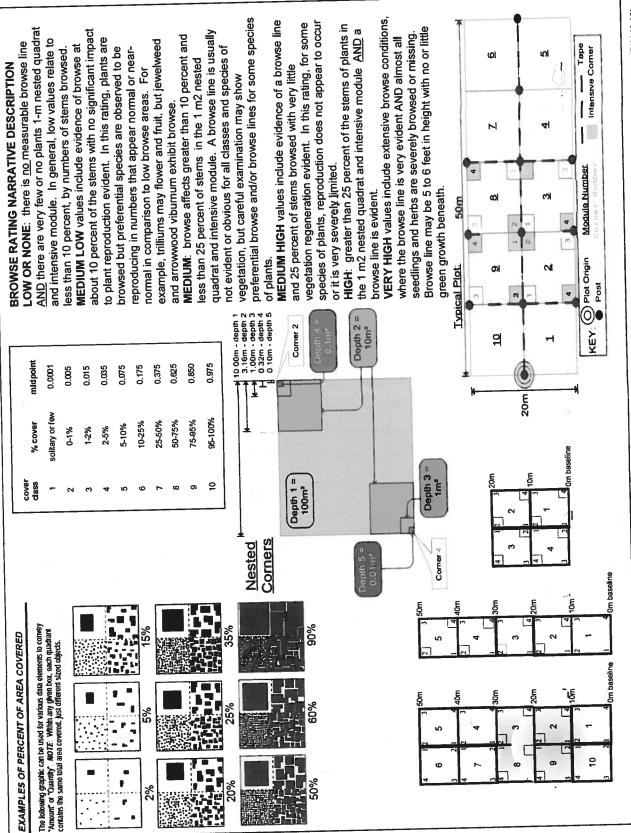
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Alor. O, Cleveland Metroparks CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a Strata - Cov. entire plot Total modules: Project Label: IJ S H (F)(A) Br S IJ, 7 Smilax rotudifilia 0 Hederpay hum M.035 300. Frouging's sop. That yours novobovesances aluna morano Polygonatum biflorum Sassans albidum Viola sep. Pado phyllum pedtatum Arisagma Triphy Maianthemum canadinse Prunus serotina Acer rubina Acer spp. (seedling) -advs Hammamalis describe amount of browse per species over 0 Br = Browse Level. Use cover classes to lournum a centrollour Saturation Sacharum arand fello Species entire plot Virginiana seed line Multiply mult ဂ %unveg. ground (bare soil) Intensive modules: %unvegetated open water Estimate for each intensive module: %unveg. litter (bare litter Project name: OI NC ZOIZ Voucher # %open water 1 2 ş ٩ 96 corner Q 5 QV 0 Plot configuration: 7 depth ح 1 mod 6 ğ N depth 0 Q cov | depth 0 0 C cov | depth Plot no.: 1312 F 6 I mod 2×5 S 8 98 depth 900 カーナ cov | depth þ Q 1 depth 7 æ 4 comer Plot area (ha) O. 8 depth depth N Page _ V V ∞ ş cov depth C N 0 0 depth mod C 5 S S (v _ . رر N N 400 8 9 N ゑ depth depth BOE N ş comer ş discussion 7/12

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

(h) Fraxing so. Standing clean Aces Sachasum Tays agandifolis Smilar rehoolsha Family changifulia Stranding dead Hamamelis Virginian Aces subrum Ricer Sociation Sparias dead Tayus orandistalia Standing dead Worde Jast Aces socharum Acer cubrupa ragus ocardiblia Aces subrum Smilax corondifoliza Acer subrum Aces souchasum Fagus grandishia Picas souchasum **Serohon** voucher# 00 :1 H :1 browsed 0-1.4m stems or super % sub clumps shrub . 0 :I 湖 9 9 6 I size class (cm) woody stems >1.4m 2 :1 0 0 :1 :: **X** H 1-<2.5 0 0 :7 M 双 超 0 8 32 口口 5<10 10 - <15 (A 15 - <20 6 20 - <25 25 - <30 30 - <35 35 - <40 5 94.5 65,3 59.6 >40 (record each tree) 8 =

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Explain subsample (additional room on back)

Project Label:

PCAP

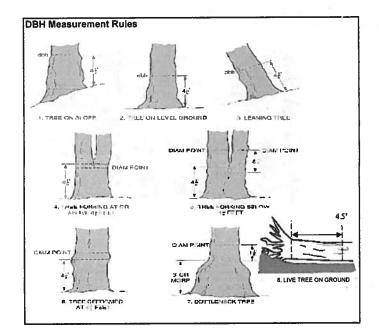
Project Name: OiNCLOIS

Plot No .: 1312

Page:

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Ocieveland Metroparks



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. Dleback: 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.



В

C

D

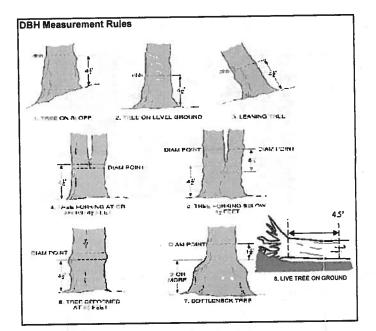
E

ASH CANOPY BREAKUP CONDITION (for dead trees):

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

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

30 6 7 CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 6 6, Proper serotion Acer culorum GARANA C Fagus Gandisolic Standing chad Standing dear Tagus cycandification Smilax bound splice Explain subsample (additional room on back): Charces grosano Acer Cubrum Standing day Acer Cubrum Aler Saucharum Hoer samplem racy's agands. Folia roes saucharing Project Label: __ PCAP voucher# # stems browsed 0-1.4m or super % sub Project Name: CINCAOIS clumps shrub #) H size class (cm) woody stems >1.4m <u>م</u> 6 7 7 ¥ 1-<2.5 :: 2.5-<5 9 00 Plot No.: 1312 9 9 5-<10 10-<15 15 - <20 20 - <25 Page: 25 - <30 30-435 앜 Coleveland Metroparks 35 - <40 **ö** 55:6 48.2 よった 55.6 >40 (record each tree) 63.19 44.5



Woody Stem Deer Browse

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

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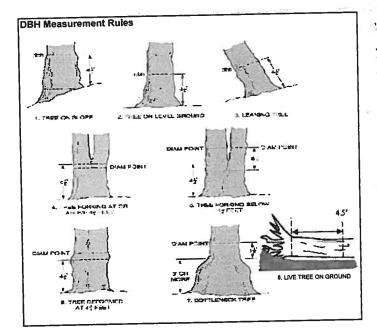
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6 5 CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet
Project Label: PCAP Project Name: 01年多 Nじ スの 3 Plot No.: 1012 Rar Towns sample to Smilex robod. Polis Hamanuly Virginianu Standing dead Prunus Seroting hoer so. scer rubrum Hamamadis viva iniam Fagus ghandifolia Explain subsample (additional room on back): Standing Dead Heer Saccharum Fagus grandifilm Acersaccharum umamu voucher# 4 0-1.4m stems or super sample % sub clumps shrub # size class (cm) woody stems >1.4m P-<1 6 4 00 . 6 90 1-<2.5 2.5-<5 5-<10 10 - < 15 O 15 - <20 20 - <25 Page: 25 - <30 30 - <35 Cleveland Metropaiks 35 - <40 5 >40 (record each tree) there Si =



Woody Stem Deer Browse

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CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detection	/ Rapid response			Pre	sence		GPS	1
		n Maria Jane	NE	SE	sw	NW		Presence
Microstegium vimineum	Japanese stiltgrass							X: yes
Ranunculus ficaria	Lesser Celandine			1				1
	Black Swallow-wort							1
) Flowering Rush		-					1
Heracleum mantegazzianum	Giant Hogweed		_	_	 			1
Tier 2: Assess a				# of	Piants		comments	
There, research	S Treeded		NE	SE	sw	NW	- Comments	# of Plants
Acer platanoides	Norway Maple		146	100	311			1: 1-10
Ailanthus altissima	Tree of Heaven			+				2: 11-50.
Lonicera japonica (vine)	Japanese Honeysuckie		 	+	\vdash			3: 51-100
		<u>-</u>		+	+	\vdash		4: 101-1,00
	Bishop's Goutweed			+	╁┈┈	 		5: >1,000
	<u> </u>		-	-		 		1 3: >1,000
Celastrus orbiculatus (vine)			-	+	┼			-
Torilis sp.	Hedgeparsley		-	+	-	 		-
Conium maculatum	Poison Hemlock	Inh b. Y		 	-	\vdash		-
Rhamnus cathartica	Common Buckthorn	(shrub)	-	+-				-
Berberis thunbergii	Japanese Barberry	(shrub)	-	+-	+			-
Alnus glutinosa	European Alder		-	 	-	\vdash		-
Dipsacus laciniatus	Cut-leaf Teasel		_	╄	 	\vdash		4
Elaeagnus umbellata	Autumn Olive	(shrub)	<u> </u>	↓	ļ			4
Lonicera maackii	Amur Honeysuckle	(shrub)		1				4
Euonymus fortunei	Wintercreeper							_
Tier 3: Presence is	s of Interest	TV SALES	87785	7	Plants		comments	4
		The State of	NE	SE	SW	NW		# of Plants
	Lily of the Valley		ļ	↓	↓			1: 1-10
Coronilla varia (G-cover)				<u> </u>	<u> </u>	\sqcup		2: 11-50.
Eleutherococcus pentaphyllus	Five-leaf Aralia	(shrub)	<u> </u>	<u> </u>				3: 51-100
	Japanese Pachysandra		┞	ļ				4: 101-1,00
Philadelphus coronarius	Mock Orange	(shrub)						5: >1,000
	Lungwort							1
Rubus phoenicolasius	Wineberry			$oxed{oxed}$				1
Iris pseudacorus (wetland)	Yellow Flag Iris							_
Ornithogalum umbellatum	Star of Bethlehem							_
Viburnum opulus var. opulus	European Cranberry	(shrub)]
Viburnum plicatum	Doublefile Viburnum							
Tier 4: Widespread	and abundant			7	sence		comments	
			NE	SE	SW	NW		# of Plants
Alliaria petiolata	Garlic Mustard					\Box		1: 1-10
Ligustrum vulgare	Common Privet	(shrub)					<u> </u>	2: 11-50.
L. morrowii, L. tatarica	Bush Honeysuckles	(shrub)						3: 51-100
Phalaris arundinacea	Reed Canarygrass							4: 101-1,00
Phragmites australis (wetland)	Phragmites							5: >1,000
Polygonum cuspidatum	Japanese Knotweed							
Frangula alnus	Glossy Buckthorn	(shrub)]
Rosa multiflora	Multiflora Rose	(shrub)						1
Typha angustifolia, T. x.glauca	Cattails (wetland)							1
Cirsium arvense	Canada thistle			1	1	. 1		1
Dipsacus fullonum	Common Teasel				1			1
Hesperis matronalis	Dame's Rocket						-	1
Vinca minor (G-cover)	Periwinkle			1	†			1
(0 00/01)	1							

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

			=	4	T-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	st revised 5/29/201	SaCM PCAP Plant Cover_Earth Surface Data sheet Page 1_ver 3.xts last revised 5/29/20	rface Data sheet	nt Cover_Earth Su	5aCM PCAP Plai
					事生	#	丰			
				#	aggregated.	ters but counts are	NOTE: tussock and hummocks are counted in BOTH nested quadrat comers but counts are	ounted in BOTH	d hummocks are	NOTE: tussock an
									\prod	
		د	Rua L	E	3	Ü	G	0	-	٥
9	Ok		3	-C		U	+	0		0
	70	F	30	>0	13	30	C			w
		N	>	>6	25	10	0	O	-	N
	0	لر) (count)	(count)	(count)	(count)	(count)	(count)	corner	mod#
		(Later Market	Unitari	10x10m	10x10m	10x10m	3.16x3.16m	lxlm		
	SECTION 1	gepta -	depth 1	depth I	depth 1	depth 1	depth 2	depth 3		_
9							uplands (Tip-Ups)	ę	_	3-3
œ		mierspers.	>40 cm	(12-40cm)	(2-12 cm)	depressions	hummocks	lussocks		
w	na Crondon	microhab	c,w,d	c.w.d	c.w.d	no macro	no. of	no. of		
2			c.w.d count for pieces with minimum 1m length	t for pieces with r	c.w.d coun				1	
CROWN CON readings per mo corresponding sper mo					phest quality	n, of tow quakty mall amounts of hig	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 feature is present in moderate or greater amounts and of highest quality	int from the weth ery small amoun ints, but not of the eater amounts a	or functionally absorp functionally absorp in the wetland in vin the moderate amount in moderate or git	o feature is absent or functionally absent from the wetland 3 feature is present in the wetland in very small amounts o 7 feature is present in moderate amounts, but not of highe 10 feature is present in moderate or greater amounts and o
	-45°) to begin + any fea be safety sampled -	zally gets ranked based on steepness (1-3) to begin + any feature Slope 3 = maximum steepness that can be salely sampled −45°	cally gets ranked b Slope 3 = maxim	Ranks 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 1 = stight elevational grade across module (hit) Slope 2 = falls on slope -20° Slope 3 = maximum steepness that can be salely sampled -45°	core.NOTE: If mod falls on a s Slope 2 = falls on slope ~20°	no and average the s	one or select tw s module (hill)	at features. Select ational grade acros	Ranks for microhabitat features. Select one or select to Stope 1 = sight elevational grade across module (hill)
						dules only	S - Intensive mo	JRE COUNTS	APHIC FEATI	MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only
		Fit Cont		p to tall sh. bog to	3 SHRUB a shrub swamp a tall sh. bog a tall sh. fen					
** Terrain Shape Index	1 1	11		wet meadow	n FOREST is swamp forest in bog forest in forest seep in EMERGENT in marsh in wet meadow in open bog	n 0				
- Landform Index (position)			WETLANDS ONLY	ommunity Class (Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):	<u> </u>				
- 2.70 degrees		= Conf=	trophic) Fit	tely, weekly ombri	BOG (strongly, moderately, weekly ombrotrophic)	In				
+ 225 degrees	-	Conf=_	Fit	class)	a COASTAL (specify subclass)	0				
+180 degrees	ki s	Fit = Conf=		r = Natural Lake	□ FRINGING □ Reservoir □ Natural Lake	0				
+135 degrees		Conf	cal slope Fit=	drology or on a physi	□ SLOPE (µound water hydrology or on a physical slop)	0			-	
+90 degrees	_	Conf=	Channel Fir-	er o Mainstem o	□ RIVERINE □ Headwater □ Mainstem □ Channel					
+45 degrees	1,1	Fit= Conf=	2	eaver o Human	🛚 IMPOUNDMENT 🗈 Beaver 🕫 Human				-	3
At aspect		Conf-	Fir		DEPRESSION	<u>- 1</u>		1	+	
			ES:	onfidence WETLANDS ON	(FII excellent g Fit and Confidence Hydrogeomorphic class (WETLANDS ONLY):	x 1 2	er Comer	C? Comer		Module #
IFILLED OUT USING GI					L'AGONT TOTAL TOTAL	_				collected
McNAB INDICES (CI ASSIFICATION		ands): collected ach intensive eck when	emergent wethers I and 3 in each	SS (required for 32 cm) from com VIBI-E score cal	STANDING BIOMASS (required for emergent wetlands) collected in 0 Im clip plots (32:32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C7-check when
						20110	Project Name:	PCAP		Project Label:
	3/2	Plot No.:		h Surface	CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface	t Program - PI	nity Assessmen	ant Commun	ROPARKS PI	CLEVELAND MET

Page: 1 of 1

degrees) + for up - for down

31S PROGRAM • DO NOT FILL OUT IN FIELD]

+315 degrees	+270 degrees	+225 degrees	+180 degrees	+135 degrees	+90 degrees	+45 degrees	At aspect	
WW	¥	SW	s	SE	œ	¥	z	
								LFI
								TSI
	away.	standing ~10 m	recorders eye to	TSI measure angle from	local slopes. For	honzon TSI is	LFI is angle of	

ition within landscape) (site microtopographic shape)

NYER (DENSIOMETER). Make 4
module facing N. S. E. W. Place dot count in
space (4 dots per gnd square)

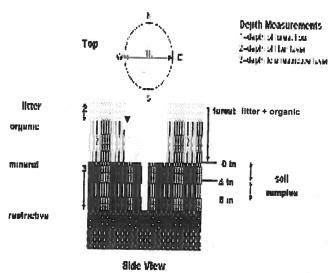
9	œ	w	2	Module
6	Ī	٥	4	2
7	Ø	ō	۵	s
٥	Ú	Ū	И	E
7	∞ે	Ú	Ū	٤

COVER BY STRATA

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

*Very tall shrubs are sometimes included in the tree stratum
**Can also include seedlings of shrubs, i.e. all shrubs <0.5m

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



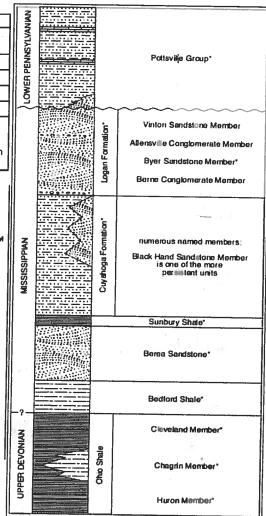


FIGURE 3-20.—Generalized section of Upper Devoman. Misissippian, and Lower Pennsylvanian formations in northeastern Ohio. Asteriaks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Waverty" 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 19 a spectacular massive analistone that is fairly widespread but discontinuous. See Hyde (1953), Hoover (1960), and Collins (1979) for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of rock types.

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

Plot No.:

Circums Metagants

Page: 1 of 1

Soil pit module # 2 20 cm 5 cm hydro. cond. *** texture* oxid roots matrix color LOVR 4/2 redox features** exture* oxid roots mottle natrix color edox features** /dr. cond. *** ottle color ottle color 2.54 4/3 (one per entire plot) MIA KIP P 4 I S M D I S M D 2 z

refer to texture classes on reverse side

*** Circle one: e.g. hydrogen sulfide odor, gleying, etc. =indutdated S=saturated M=moist D=dry

Notes: include evidence of earthworms (worms

Worm

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

□ Impermeable surface	orly dr.	□ Well drained □ Moderately well dr	□ Excessively dr. □ Somewhat excessively	DRAINAGE*	Parent Material: 701	Depth to rest. Layer. 20-40" - 4	Landform type: Till 0/8415	Soil Series Source: Ohio Soil Survey	Soil Series Type Mah - Mit wangs 5	Web Soil Survey Information:	2,3,8,9 composited A	Soil Collection ModuldHorizon (A. B. C)
			<		St 300	-15cm	(*	A losm		4	0

**** <5 cm in diameter *** >5 cm in diameter Histosol EARTH SURFACE & GROUND COVER **Boulder => 10 in Boulder** Gravel-Cobble* Gravel-Cubble = 1/16-10* ineral Soil nderlying Earth Surface* 20% 80% O № 0% Water Bare Soil Coarse Woody Debris*** Other Ground Cover Bryophyte Lichen Duff (Ferm.+ Humus) Fine Woody Debris**** load/Trail Einth < 100%) スタ 26 26 0 5 S N 0

** submersed, a	• rooted and flo	(Aquatic)*	(Floating)*	Herb	Shrub	Tree	Strata	COVER BY STRATA estimate using midpol
** submersed, most plant mass below surface	rooted and floating or slightly emersed	NIA	N/A	× 0.5 m	0,5-5m	75m	Height Range (m)	COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13
w surface	sed		-	13%	78%	88%	Total Cover (%)	%,ex:3, 8, 13

STAND SIZE

> 100 x plot size

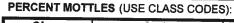
>600 x plot size

< plot size 1-3 x plot size 3~10 x plot size 10-100 x plot size

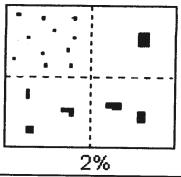
		0/1	C SKI	8				
□ Deer	ा Gravel	Bootleg unsanctioned	□ Hiking sanctioned	⊃ Bridle	All Purpose	Туре	record type and cover for each	TRAIL INFORMATION:
						%Cover	each	

9 3,1 3 0	8 2:5 2:5 0	3 2,1 2 0	2 36 35 6	mod# (cm) depth (cm) (cm)	•	record as >30	SOIL DEPTH MEASUREMENT: Measure to the nearest 0.1 cm in center of intensive modules. If >30.5 cm,	
730.0	730/1	730.0	7.364	(cm) soil (cm)			re to the nearest	
** submersed, most plant mass beli	 cooted and floating or slightly eme 	(Aquatic)* N/A	(Floating)* N/A	Herb 人 Q.5%	Shrub 0,5 - 5m	Tree >5m	Strata Height Range (m)	

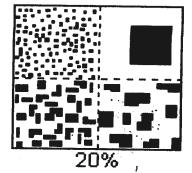
SEE BACK OF PAGE FOR "TYPICAL"STRATA
DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.



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



Hills



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.

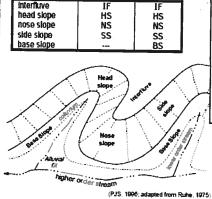
- 0= Organic
- 1= Loamy
- 2= Clayey
- 3= Sandy

ı.,

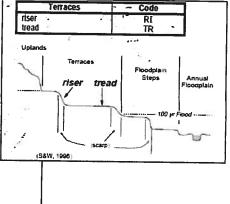
- 4= Coarse Sand
- 9= Not measured make plot note

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

NASIS

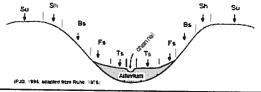


PDP



Hillstope - Profile 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.

	1 0 3 10 0 1	Code	
-	summit	SU	
	shoulder	SH	
	backslope	BS	
i	footslope	FS	
	toeslope	TS	
_	Su Sh		



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 .

			195																	-	-
Site	ID: <u>f</u>	nai	ONI	(/ /	31	2		RM B-1:	BUFF	ER	SAN	/IPL	E PI				Beviewed 1 0 8 1	by (initial)	 / ```	- (•
Locat		X 11	/ N	UI.	<u> </u>				Fill	In b	ubh	le/s)	If n				sampled and		⇒ 1		
@ AA		0	N	0	S	OE	. 0	w	OP				Plot			lot 3	oumpiou una				
				_				2000	Buffer	Nati	ural	Cov	er St	rata	1						- 100
Fiil in bubbi Strata Sect	es for all th ion: Fill in a	nat app approp	oiy: Ca oriate c	nopy cover o	Type: class b	D = D oubbie	eciduou for eacl	s; E = Evergro n strata type f	een. Leaf T or each pio	ype: E t. 0 =	3 = Bro Absen	adiea(t; 1 = \$; N = I Sparse	Veedie (<10%	e Leaf. A 6); 2=Mc	bsent: No tree derate(10-40	e canopy. %); 3 = Heavy (40-75	%); 4 = \	ery He	avy (>75%)
Buffer	Canopy	у Тур	e: 🗶) () At	sen	: O	Buffer	Canopy	у Тур	e: 🕝) () At	sent	: O	Buffer	Canopy Type: ($\overline{}$	_	sent	: O
Plot 1	Lea	f Typ	e: 🐧) (/	Flag	Plot 2	Lea	f Typ	е: 🕒) <u>C</u>		_	Flag	Plot 3	Leaf Type: ($\frac{3}{3}$	Ц.,		Flag
Big Trees (>0.3m DBH)	0	0	0	(Ø		Big Trees (>0.3m DBH)	0	0	0	<u> </u>	<u>O</u>		Big Trees	(>0.3m DBH)		0	<u> </u>	
mail Trees (<0.3m DBH)	0	\odot	0	0	\odot		Small Trees ((<0.3m DBH)	0	0	0	0	0		Small Trees		-	<u> </u>	<u> </u>	
Voody Shrub (0.5n	s, Sapilngs 1-5m HIGH)	0	0	(0	0		Woody Shrub (0.5n	s, Saplings n-5m HIGH)	0	0	0	0	⊙			ibs, Saplings im-5m HIGH)		<u> </u>	<u> </u>	
Voody Shrub (<(s, Saplings).5m HIGH)	0	0	0	0	0		Woody Shrub	s, Saplings 0.5m HIGH)	0	0	0	0	0			bs, Saplings 0.5m HIGH)		0	0	
Herbs,	Forbs and Grasses	0	9	0	0	0		Herbs,	Forbs and Grasses	0	0	0	0	0		Herbs,	Forbs and Grasses	0	0	0	
Bare	ground	0	0	0	0	0		Bare	ground	0	0	0	0	0		Bar	e ground 💿 🤇	0 (0	0	
Li	tter, duff	0	0	0	0			ł.i	tter, duff	0	0	0	0	0		L	itter, duff 💿 🤇	0	0	0	
	Rock 0 0 0 0								Rock	0	Ō	0	তা	Ō			Rock ① C	0	0	0	
•	Water	(1)	0	0	0	0			Water	0	Ō	0	Ö	ŏ			Water ①		0	Ō	
	Submerged Vegetation O O O							merged	0	O	0	0	Ö			Submerged O C		0	Ŏ		
		\sim	_	_	m that		egetation			_			unfilled				is bub	ble.	Ø		
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 Stress														1000	110000						
-				1	2	3	Flag	FIII bubbi			-	1	2	3	Flag		If present - Piot		2	3	Flag
Fill bubbi		8116 - 1	PIOL	<u></u>	\vdash		riag				100	0	0	o	riug	Pasture/Ha		0	0	0	
Road - gr				0	0	0		Ditches, C Dike/Dam				0	0	0		Range	ay .	0	0	ö	
Road - fo				0	0	0		(IMPEDE FL) Water Lev		d Stn	icture	1	0	0		Row Crops		0	0	0	
Parking L		nent		6	0	0		Excavation		-	201010	0	0	0		Fallow Fiel	d (RECENT-RESTING	0	Ö	ŏ	
Golf Cou		TOTAL	-	6	0	0		Fill/Spoil E				ŏ	0	0	<u> </u>		d (OLD - GRASS,	Ö	o	Ö	
Lawn/Pai			1777	6	0	0		Freshly D	eposited s	Sedin	nent	10	0	0		SHRUBS, TRE Nursery	ES)	0	0	Ö	
Suburbar		ntial		6	0	0		Soil Loss/		osure		0	0	0		Dairy	F. Branch	0	O	Ö	
Urban/Mt		-		0	0	Ö		Wall/Ripra	ap ge			o	0	0		Orchard		0	0	Ö	
Landfill			-	0	0	Ö	<u> </u>	Inlets, Out	tlets			0	ō	O		Confined A	Animal Feeding	0	0	0	
Dumping				0	ō	0		Point Sou (EFFLUENT		MATE	D)	Ō	ō	Ō		Rural Resi	dential	0	0	0	
Trash		7 -		0	ō	0		Imperviou (SHEETFLO	s surface	inpu	ľ	0	O	0		Gravel Pit		0	0	0	
Other:				0	ō	0		Other:				0	0	0		Irrigation		0	0	0	
Other:	0.530		- 44.6	0	0	0		Other:				0	0	0		Other:		0	0	0	
Indu	strial D	evel	opm	ent s	Stres		8		~				Habit	at/V	egeta	tion Stress	sors				
Fiii bubbi	e if pres	ent -	Piot	1	2	3	Flag	Fili bubble	if prese	nt -	Piot	1	2	3	Flag	Fill bubb	ole if present - Pl	ot 1	2	3	Flag
Oil Drillin	9		TI.	0	0	0		Forest Clea	ar Cut			0	0	0		Herbicide U	Jse	0	0	0	
Gas Well	s			0	0	0		Forest Sele	ective Cul	1		0	0	0		Mowing/Sh	rub Cutting	0	0	0	
Mine (sur	face)			0	0	0		Tree Planta	ation			0	0	0		Trails		0	0	0	
Mine (un	deraround	d)		0	0	0		Tree Cano		ory		0	0	0		Soil Compa		0	0	0	
Military	3-2			0	0	0		(INSECT) Shrub Laye		ed		•	0	0		Site 15	nicle damage	0	o	0	
				1	-	-		(WILD OR DO Highly Gra:		ses	_	_		0		Soil erosion	1 (FROM WIND, WATE		0	0	
Other:							OVERALL <3° Recently B	urned For	rest		0	0	\vdash		OR OVERUSE Other:)		-			
Other: _								Canopy Recently B			nd	0	0	0		_		- 0	0	0	
Other: _			_	0	0	0		(BLACKENED				0	0	0		Other:		-10		0	
						Exp	e, U = S lain ali 1	uspect meas lags in comr	surement., nent section	F1,F on on	2, etc.	= mis	c. flag this fo	s ass	igned b	y each field c	rew. 24	2816	3304		
	Buffer Sai	mple	Plots	05	/27/	2011							2							- 11	

FO	FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back) Reviewed by (Initial): DATE: 0 71 091 2013													
Site ID: PCAP NC 1312 DATE: 0.71 0.91 2013														
Confirm	a filie	ed da	ıta bı	ubbie i	ndicates presence and an unf	illed I	bubbi	le inc	licates	absence by filling in this bub	ble			
Fili bubble if present - Plot		2	3	34 (1)	Fili bubble if present - Piot	1	2	3	Fiag	Fili 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	
						9.5				Other:	0	0	0	
					PLOT COORI	DINA	TES							
Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble. If Buffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the flag box, and describe where the coordinates were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot. Location of coordinates (choose one):														
Flag Comments												ħ		
											_			
		100	jit .											
		10	• :											
										4				
							5.5							
		- 8		, Elle				49-11						4-77/1
Buffer Sample Po	oints	- Tarį	geted	d Alien :	Species 05/27/2011					796	662	3548	3 (

Site	D: P(na	PI	SC.	121	7		RM B-1:	BUFF	ER	SAN	IPL	E Pl		•	ront) : 0.7		Reviews				- (
Location		ו דע		V	101				TEIII	in h	uhh	lo/e)	if n			ld not be		_	_	_	_	_	
OAAC		d	N	0	S	OE	. 0	w		lot			Plot		30 111	lot 3	Jumpic	, a ai		-9			
		-							Buffer	Nati	ural				1								
Fill in bubble Strata Section	s for all th n: Fill in a	at app pprop	oly: Ca riate d	nopy T	Type: :lass t	D = D oubble	eciduou for each	s; E = Evergre strata type fo	en. Leaf T or each plo	ype: E t. 0 =	3 = Bro Absen	adleat t; 1 = \$; N = N Sparse	Needle (<10%	Leaf. A	bsent: No tree derate(10-40	e canopy. %); 3 = Hea	vy (40-	75%);	4 = V	ery He	avy (>75%)
Buffer Plot 1	Canopy	Typ		\sim	(oseni	: O	Buffer Piot 2	Canopy		e: (e: (-	sent	: O	Buffer Plot 3	Canopy Leaf	Type Type	$\stackrel{\sim}{=}$	<u>0</u>	Ab	sent	Flag
Big Trees (>	0.3m DBH)	0	\odot	①	0	0		Big Trees (-0.3m DBH)	0	0	0		0		Big Trees	(>0.3m DBH)	0		0		0	
imall Trees (<	0.3m DBH)	\odot	Ō	9	Ō	Ō		Small Trees (À	Ō	0	_ +	Ŏ		Small Trees	(<0.3m DBH)	0	Ō	0		0	
Noody Shrubs		0	Ō	0	0	0		Woody Shrub		0	Ō	0		Ŏ			ıbs, Saplings im-5m HIGH)	0	Ŏ		Ō	Ö	
Noody Shrubs		0	0	0	$\frac{\circ}{\circ}$	0		Woody Shrub	s, Saplings	0		0	<u></u>	ŏ		Woody Shru	bs, Saplings	Ŏ	_	0	<u></u>	ŏ	
Herbs, F	5m HiGH) orbs and	0(0	$\frac{9}{2}$	0			5.5m HIGH) Forbs and	0		<u></u>	- +	<u></u>			0.5m HIGH) Forbs and	ŏ,	/-	-	ŏ	ŏ	
	Grasses ground		0	0	<u>)</u>	$\overline{0}$		Bara	Grasses ground	0		<u> </u>	히	ŏ		Rar	Grasses e ground		ठी	0	ŏ	ŏ	
	_		_	-	_	0				 			<u></u>	_			itter, duff		허	<u></u>	_		
Litt	er, duff	<u></u>	\odot	0	$\overline{\odot}$	-		Li	tter, duff	0	0	읫	-					0	-	=+	=+	= +	
	Rock (1) C					0			Rock	0		0	<u> </u>	<u>⊙</u>			Rock	9	의	<u> </u>	의	의	
		0	0	0	0	0			Water	0	0	0	0	0	1		Water	0	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
	bmerged egetation	(a)	0	0	0	0			ubmerged /egetation		\odot	0	<u> </u>	<u> </u>			Submerged Vegetation		<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Stress	or Pres	ence	e/Ab	senc	e - (Confi	rm that	a filled data	bubble i	ndica	tes pi	esen	ce and	d an u	unfilled	bubble indi	cates abse	ence b	y fillir	g this	bub	ble.	0
Resi	dential	and	Urba	an St	tress	sors		Tour State	Hydrolo	gy S	tres	sors					Agricult	ural 8	Rui	al S	tres	sors	
Fiil bubble	if prese	ent - I	Plot	1	2	3	Fiag	Fill bubble	e if prese	ent - I	Plot	1	2	3	Flag	Fili bubble	If preser	nt - Pl	ot	1	2	3	Fiag
Road - gra	vei	di i	- AVI	0	0	0		Ditches, C	hanneliza	ation		0	0	0		Pasture/Ha	ay			0	0	0	
Road - two				Ō	O	0		Dike/Dam/		R Bed		0	0	0		Range				0	o	0	
Road - fou	ır lane		li m	Ō	0	0		Water Lev	-	l Stru	ıcture	0	0	0		Row Crops	3	11.17		0	0	0	
Parking Lo	t/Pavem	nent		0	0	ō		Excavation	n, Dredgii	ng		0	0	O		Fallow Fiel		RESTIN	iG	o	o	0	
Golf Cours			-10	0	0	ō		FIII/Spoil E	lanks			o	0	0		Fallow Fiel	d (OLD - GR	ASS,		0	ठ	0	
Lawn/Park				0	O	0		Freshly De		Sedin	nent	0	0	0		Nursery		day.		o	0	0	
Suburban	Residen	tial	11.38	0	O	Ō		Soil Loss/		osure	•	0	0	0	- 71	Dairy	State of			0	O	0	
Urban/Mul	tifamily			Ō	ō	ō		Wall/Ripra	р			O	0	Ō		Orchard		113		o	o	0	
Landfill		1319		0	0	ō		Inlets, Out	lets			0	0	o		Confined A	Animal Fee	ding		0	0	0	
Dumping				0	0	ō		Point Sour	ce/Pipe	MATE	2/	O	Ō	0		Rural Resi	dential	ideali i		0	0	o	
Trash			174	Ö	0	0		Impervious (SHEETFLOV	s surface	inpu	1	o	0	Ō		Gravel Pit				0	0	0	
Other:				0	0	0		Other:				0	0	0		Irrigation				0	0	0	
Other:				0	0	O		Other:				ō	0	ō		Other:				o	o	0	
	strial D	evei	opm	•		_	8								egeta	tion Stress	sors			W	19/		
Fill bubble	if prese	ent -	Plot	1	2	3	Flag	Fili bubble	If prese	nt -	Plot	1	2	3	Flag	Fili bubb	ie if pres	ent - F	Plot	1	2	3	Flag
Oil Drilling				0	0	0		Forest Clea	r Cut			0	0	0		Herbicide U	Jse			0	0	0	
Gas Wells				0	0	0		Forest Sele	ctive Cut			0	0	0		Mowing/Sh	rub Cuttin	g		0	0	0	
Mine (surf	ace)	1111	K.	0	0	0		Tree Planta	ition			0	0	0		Trails	Basil			0	0	0	
Mine (und		1)		0	0	0		Tree Canor	TA CIDE	ory	1 9	0	0	0		Soil Compa				0	0	0	
				0	0	0		(INSECT) Shrub Laye	r Browse	d	10	9	0	0		Offroad vel		ge		0	0	0	
Military				-	-			WILD OR DOI Highly Graz	ed Grass	ses			-	0		Soil erosion	(FROM WII	_	TER,	•	0	0	1
Other:		_		0	0	0		OVERALL <3*	HIGH)			0	0			OR OVERUSE	1			_	\rightarrow		+
Other:				0	0	0		Canopy Recently B			nd	0	0	0		Other:			=	의	9	0	
Other:				0	0	0		(BLACKENED)				0	0	0		Other:	10.00		-1	<u> </u>	0	0	
	ag codes: uffer Sar					Exp	e, U = S lain ali f	uspect meas lags in comn	urement., nent sectio	F1,F	2, etc. the ba	= mis	c. flag this fo	s assi m	gned by	y each field c	rew.	2	2428	168	304		

FO	RM	B-1	1: E	BUFF	ER SAMPLE PLOTS -	TAF	RGE	TEI) ALI	EN SPECIES (Back)	(initia	D:		•
Site ID:	RC	Af	N	Ca	1312	DAT	E: _	0.7	<u> </u>	0912013				
O Confirm	a fille	ed da	ta bı	ubbie i	ndicates presence and an unf	illed	oubbl	e inc	licates	absence by filling in this bubl	ole			
Fill bubble if present - Plot	1	2	3	Flag	Fili bubble if present - Piot	1	2	3	Flag	Fili bubble if present - Plot	1	2	3	Fiag
Eurasian Watermilfoil	0	0	0		Purple Loosestrife	0	0	0		Johnson Grass	0	Ö	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	
Glant 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	li -
	ikk j					XI.		Fig.		Other:	0	0	0	
Other: O O O O O O O O														
Location of coordinate O AA CENTER	3	o s	3	O E3	O W3 O Nearest pra	Lon	gitud	de V		and comment below)	.5.		Fla	ag
Flag Comments														
		CI			Clal	10			HE C					
1 small street	łM,	+4	juil	19 0	fter heavy rain 7	-/ 9								
				2.										
					2									
			55											
									···					
										796	662	354	8	

05/27/2011

Buffer Sample Points - Targeted Alien Species

•		W.Co., u.o			9 9	na	FOI	RM B-1:	BUFF	ER	SAI	APL	E P	LOT	S (F	ront)		Review	ved by ((initial)		_ (
Site I	D: <u></u>	CF	70	NC	13	12	_								DATE	07	1 00	11	2	D,	10	_	
Locatio									FIII	in b	ubb	le(s	if p	lot(s	s) cou	Ild not be	sample	d a	nd fl	ag -	→		
OAAC	enter	0	N	0	S	@ E	E 0	W		Plot '			Plot			Plot 3				YVV			17
								s; E = Evergre		ype: E	3 = Bro	oadlea	f; N = 1	Needle	e Leaf. A	Absent: No tree oderate(10-409		vy (40	-75%);	4 = V	егу Не	eavy (>75%)
Buffer	Canopy	/ Тур	e: ({) () AI	bsen	t: ()	Buffer	Canop	у Тур	e: () () At	sent	: O	Buffer	Canopy	Турс	e: (0	Ab	sent	0
Plot 1	·	f Тур	e: 🔣	9 (_	Flag	Plot 2	Lea	f Typ	e: 🚱	9 () [_	Flag	Plot 3	Leaf	Туре	e: (0	<u> </u>		Flag
Big Trees (>	0.3m DBH)	0	0		0	0		Big Trees (>0.3m DBH)	0		0	<u> </u>	<u>O</u>		Big Trees	(>0.3m DBH)	0	(4)	<u> </u>	<u> </u>	<u> </u>	
mali Trees (<		\odot	0	0		0		Small Trees (0	0	0		<u>O</u>		Small Trees		0	0	<u> </u>		<u> </u>	
Voody Shrubs (0.5m-	, Saplings 5m HIGH)	0	0		0	0			1-5m HIGH)		0	0		0			ibs, Saplings m-5m HIGH)	0	0	0		0	
Voody Shrubs (<0.	, Saplings 5m HIGH)	0	0		0	0		Woody Shrub (<0	s, Saplings).5m HIGH)	0		0	0	0		Woody Shru (<	bs, Saplings :0.5m HIGH)	0		0	0	0	
Herbs, F	orbs and Grasses	0		0	0	0		Herbs,	Forbs and Grasses	8	0	0	0	0		Herbs,	Forbs and Grasses	0		0	0	0	
Bare	ground	0		2	0	0		Bare	ground	(0	0	0	0		Bar	e ground	(4)	0	0	0	0	
Ļitt	ter, duff	0	0	0	(4)	0		Li	tter, duff	0	0	0	0			Ĺ	itter, duff	0	0	0	@	0	
	Rock	(0	0	0	0			Rock	0	•	0	0	0			Rock	(1)	0	0	0	0	
	Water	(3)	0	0	0	0			Water	0	•	0	0	0			Water	0	(1)	0	0	0	
	Submerged Vegetation							ubmerged /egetation	®	0	0	0	0			Submerged Vegetation	(0	0	0	0		
	to Carlo Standard Market	ACCUPATION A	m that			<u> </u>	tes p	resen	ce an	d an	unfilled				by filli	ng thi	s bub	ble.	Ø				
Resi	dential	and	Urba	an Si	tres	sors			Hydrolo	gy S	itres	sors	8		ring is		Agricuit	ırai	& Ru	rai S	tres	sors	
Fili bubble	if prese	nt - I	Plot	1	2	3	Flag	Fill bubble	e If prese	ent - I	Plot	1	2	3	Flag	Fili bubble	If preser	ıt - P	lot	1	2	3	Flag
Road - gra	ivel			0	0	0	:	Ditches, C	hanneliza	ation		0	0	0		Pasture/Ha	ny			0	0	0	
Road - two	lane			0	0	0		Dike/Dam/		Bed		0	0	0		Range	T PERSON			0	o	0	
Road - fou	ır lane			0	0	0		Water Lev		l Stru	cture	0	0	0		Row Crops				0	0	0	
Parking Lo	ov-avem	ent		Ű	0	0		Excavation	n, Dreagii	ng		0	Ü	0		Falls Find		REST"	"C	0	0		
Golf Cours	se			0	0	0		Fill/Spoil B		4		0	0	0		Fallow Field SHRUBS, TRE		ASS,		0	0	0	
Lawn/Park			97	0	0	0		Freshly De		Sedin	nent	0	0	0		Nursery				0	0	0	
Suburban	Residen	tial	CT CONT	0	0	0		Soil Loss/I	Root Exp	osure		0	0	0		Dairy				0	0	0	
Urban/Mul	tifamily			0	0	0		Wall/Ripra	р			0	0	0		Orchard				0	0	0	
Landfill				0	0	0		Inlets, Out				0	0	0		Confined A	nimal Fee	ding		0	0	0	
Dumping				0	0	0		Point Sour (EFFLUENT C	OR STORM			0	0	0		Rural Resid	dential			이	0	의	•
Trash				0	0			(SHEETFLOV		Input		0	0	0		Gravel Pit				0	0	0	
Other:				0	0	0		Other:			_	0	0	0		Irrigation	ally in			0	0	0	
Other:				0	0	0		Other:				0	0	0		Other:			_	0	0	0	
Indus	striai D	evel	opm	ent S	Stres	sor	8					١	Habit	tat/V	egeta	tion Stress	sors						
iii bubble	if prese	ent - I	Plot	1	2	3	Flag	Fili bubble	If prese	nt - F	Plot	1	2	3	Flag	Fili bubb	le if pres	ent -	Plot	1	2	3	Flag
Oil Drilling				0	0	0		Forest Clea	r Cut			0	0	0		Herbicide U	ise			0	0	0	
Gas Wells				0	0	0		Forest Sele	ctive Cut			0	0	0		Mowing/Sh	rub Cutting	9		0	0	0	
Mine (surfa	ace)			0	0	0		Tree Planta	ition			0	0	0		Trails				•	0	0	
Mine (unde	erground	1)		0	0	0		Tree Canor	y Herbiv	ory		0	0	0		Soil Compa (ANIMAL OR H				0	0	0	
Military				0	0	0		Shrub Laye	r Browse	d		0	0	@		Offroad veh		ge		0	0	0	
Other:							Highly Graz	ed Grass	ses		0	0	0		Soil erosion		ID, WA	TER,	0	0	0		
Other:				0	0	0		Recently Bu	umed For	rest		0	0	0		OR OVERUSE Other:				Ö	0	0	
Other:	10-12-03			0	0	0		Recently Bu	ırned Gra	sslar	nd	0	0	Ŏ		Other:	denies -			0	0	0	
	ng codes:	K=1	No me			made	, U = S	(BLACKENED) uspect meas	urement.,	F1,F2	2, etc.	= mis	c. flag	s ass		y each field c	rew.		<u></u> 1	21.60			
	uffer San					Exp	iain ail f	lags in comm	nent section	on on	the ba	ick of	this fo	orm				6	2428) T Q C	,4		

					ER SAMPLE PLOTS -					Reviewed by	(initial):		
Site ID:	PCF	491	Ν(2131	2	DAT	E: <u>[</u>	7.7	213	0912013				
O Confirm	a filie	d da	ta bı	ubble i	ndicates presence and an unf	illed b	oubbi	e Ind	licates	absence by filling in this bubi	oie			
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	
										Other:	0	0	0	
	714				PLOT COOR	DINA	TES	3						
	13	© s	3	⊕ E3	OW3 O Nearest pra	Lor	ngitu	de V		g and comment below.	2		F	
				10 141	Use Decimal Deg	rees;	NAI	783						
Flag Comments	3			11 51						- and product the second	1200			
												- 14		
												151		
									<u>-</u>					
				*										
					, T									
										70	566	254	0	

05/27/2011

Buffer Sample Points - Targeted Allen Species

Site ID	. (n/C)ON	(A I	21	2-	FO	RM B-1:	BUFF	ER	SA	MPI	LE F	PLO				Review		nitiai):	HOAL.		•
		UPI	17/	UI	J											E: 07				2/	3	_	
O AA Ce		_		•		_		NA.	-			30.			NAME OF	uld not be	sampl	ed ar	nd fla	ag –	→		
OAACS	mer		N	•	3	0	E) W	Buffer	Plot			Plot			Plot 3				Ų.			
Fill in bubbles fo Strata Section:	or all th	nat ap approp	piy: Ca priate	anopy cover	Type	e: D = s bubb	Deciduo le for eac	is: F = Everage	en lesf	Two:	R = Rr	nadla	of N =	Maac	lla t oof	Absent: No tree Moderate(10-40	e canopy. %); 3 = Hea	avy (40-	-75%);	4 = Ve	ery He	avy ((>75%)
Buffer C Plot 1	anopy Lea		e: (-	Absei	nt: O	Buffer Plot 2	Canop	y Tyr				bser	nt: C	Buffer Plot 3	Canopy	/ Type		(s)	Abs	sent	
Big Trees (>0.3r	m DBH)	0	Ō	0	0	10	Ť	Big Trees (>		T = :	0	(0	0	Tiag		(>0.3m DBH		(D)	ॉ		0	Flag
mall Trees (<0.3	m DBH)	0	0	0		_		Small Trees (,		1	0	ŏ	ŏ	1	Small Trees			 +	¥∔	_	ŏ	
Voody Shrubs, Sa (0.5m-5m		0	0	•	0	10		Woody Shrub		6	9	0	0	0		Woody Shru	ıbs, Saplings	5		=		ŏ	
Voody Shrubs, Sa (<0.5m	aplings	0	(3)	Ō	0			Woody Shrubs	s, Saplings	0	Ō	0	0	0		Woody Shru		5	-	=	_	0	
Herbs, Forb		Ō	®	Ō	Ō	10			orbs and	0	0	0	0	0	-		0.5m HIGH) Forbs and	(II)			-	0	
Bare gro		0	Ō	0	0	10		Bare	Grasses ground	Ø	0	0	0	0	 	Bar	Grasses e ground	9	_	- +	_	0	
Litter,	duff	<u>1</u> 0	Ō	0	0	0			ter, duff	0	0	0	9	0	1		itter, duff	Ö	-	- +	-	0	
F	Rock	(4)	Ō	0	$\overline{\odot}$	10			Rock	0		0	0	0	_	 	Rock	+ - +		_		0	
W	Vater	®	0	0	0	10	†		Water	0		0	0	0	 		Water	0	-	- +		<u> </u>	
Subm		(0	0	\odot	10	 		bmerged		0	0	0	-		S	Submerged		_	=+	-	<u> </u>	•
	Pres		\sim	$\stackrel{\smile}{-}$	\simeq	$\stackrel{1}{\sim}$	im that		egetation bubble ii	ndica)		_	O an	unfilled		Vegetation	1000 b	_	\smile	_	~	Ø)
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 & Rurai Stressors																							
iii bubble if				1	2	3	Flag	Fili bubble		~		1	2	3	Flag					F		3	Flag
Road - gravel	300			0	0	0		Ditches, Ch			100	0	0	o	riag		L. J.	IL - FIC	200	_	+	+	riay
Road - two la				0	0	0		Dike/Dam/F	Road/RR			6	0	6		Pasture/Ha Range	у		_			임	
Road - four la	ane		1.4	0	0	ō		Water Leve		Stru	cture	-	0	0		Row Crops			_		-		
Parking Lot/P	avem	ent		0	0	O		Excavation	Dredgir	ng		0	0	Ö		Fallow Field	(REÇENT-I	RESTING	- 1	-	_	5	7
Golf Course				0	0	0		FIII/Spoil Ba	anks			ō	ō	ō		Fallow Field	(OLD - GR	ASS,	_		_	ŏ	
awn/Park	LA.	- (7)		0	0	0		Freshly Der	posited S	edim	ent	O	ō	0		SHRUBS, TREI Nursery	(5)		200000	-	_	ă	
Suburban Res	sident	ial		0	0	0		Soil Loss/R		sure		ō	0	0		Dairy				_	_	ŏ	
Jrban/Multifai	mily			0	0	0		Wall/Riprap				0	0	0		Orchard				_	\rightarrow	ă	
andfill			191	0	0	0		Inlets, Outle	ets	l 184		0	0	0		Confined Ar	nimal Fee	ding	_		\rightarrow	5	-
Dumping				0	0	0		Point Source	RSTORMA	VATER	,	0	0	0		Rural Resid	ential			_	_	5	
Trash	7 1			0	0	0		(SHEETFLOW)	surface	input		0	0	0		Gravel Pit		7-17		_	\rightarrow	ŠŤ	
Other:				0	0	0		Other:				0	0	0		Irrigation				_	-	5	
Other:				0	0	0		Other:				0	0	0		Other:			_	_	_	5	
Industri	al De	velo	pme	nt S	tres	sors	3					H	labit	at/V	egeta	tion Stress	ors	U to					
lli bubble if p	prese	nt - P	lot	1	2	3	Flag	Fili bubble i	f presen	ıt - P	lot	1	2	3	Flag	Fili bubbic	e if prese	nt - Pl	ot	1	2 3	T	Flag
Oil Drilling				0	0	0		Forest Clear	Cut			0	0	0	-	Herbicide Us			1			5	
as Wells		A I		0	0	0		Forest Select				0	0	0		Mowing/Shru						5	
line (surface))			0	0	0		Tree Plantation	on			0	0	0		Trails					_	5	
fine (undergr	ound)			o	0	o		Tree Canopy		ry		0	0	0		Soil Compac			-		\rightarrow	5	
Military		TR		-	0	0		Shrub Layer	Browsed		1	0	•	0		Offroad vehic		10	1	\dashv	_]	-
Other:				- 1	0	0	1	WILD OR DOME lighty Graze	d Grasse	es	+	0	0	0		Soil erosion			0	-	_	-	
Other:	- 15			_	<u></u>	0		OVERALL <3" H Recently Burn		est	+	5	$\overline{}$			OR OVERUSE)			10		. +-	긲	
ther:	4.0	- 5.5		-	0	0	1	Canopy Recently Burn	ned Gras	sslan	1	-	0		-	Other:			- 9		_	2	
	odes: 1	K = N/	o mea				[0	BLACKENED)				O	O	0		Other:			_ _	710			
Buffer						Expl	ain ail fia	igs in comme	nt section	on th	e bac	k of t	his fo	m m	Auen n)	dacii Helo Cre		24	1281	683	04		

Site ID:	H	HI	110	132			DATI	E: <u>C</u>	• • •	_/_	09 1 2013				
O Confirm a	fille	d dat	ta bu	bble indicate	s presence and	an unfi	iiled b	ubbi	e Ind	icates	absence by filling in this bubi	ole			
ii bubbie if present - Plot	1	2	3	Fiag Fill bu	bbie if present -	Piot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
urasian Watermilfoil	0	0	0	Purple	Loosestrife	V.,-	0	0	0		Johnson Grass	0	0	0	
/ater hyacinth	0	0	0	Knotw	eed		0	0	0		Kudzu	0	0	0	
ellow Floating Heart	0	0	0	Japan	ese Knotweed		0	0	0		Multiflora Rose	0	0	0	
iant Salvinia	0	0	0	Pereni	nial Pepperweed		0	0	0		Common Buckthorn	0	0	0	
arlic Mustard	0	0	0	Giant I	Reed		0	0	0		Himalayan Blackberry	0	0	0	
pison Hemlock	0	0	0	Cheat	grass		0	0	0		Tamarisk	0	0	0	
He-A-Minute Weed	0	0	0	Reed	Canary Grass		0	0	0		Other:	0	0	0	
Irdsfoot Trefoll	0	0	0	Comm	non Reed		0	0	0		Other:	0	0	0	
anada Thistle	0	0	0	Leafy	Spurge		0	0	0		Other:	0	0	0	
											Other:	0	0	0	
			10		PLOT C	OOR	DINA	TES		Manager 1					
eation of the plot coordinate Buffer Plot 3 can not be ac ots are centered on the Bu ag box, and describe where ther placed as close to the Location of coordinat	cesse ffer T the c center es (c	filling ed, ta ranse coordi er of F	ke thects in the Plot :	ne appropriate ne coordinates and the coordinates s were taken a 3 as possible o	at the nearest pro- nates will Indicate and why in the con- or at the center of	acticab the loo mment the las	le loca cation section it acce	etion of the on be	ALOI e trar low. 1 e Buf	NG THE nsect. F The coo fer Plot	or the Buffer Plot at the AA CENETRANSECT. This is important fill in the "nearest practicable loordinates of the nearest practical."	becaration'	use ai	il Bul ble, fi n can	ffer ill in
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05/27/2011

Buffer Sample Points - Targeted Alien Species

		1		20			FO	RM B-1:	BUFF	ER	SAI	MPL	E P	LO.	TS (F	ront)	He A	Reviewed	by (initia	1):		9
Site II	D:		RH	HI	VC.	13	12								DAT	E: 0.7	10	916	201	[]		
Locatio	on:								FIII	in b	ubb	le(s) if p	olot(uld not be				→	Γ	
OAAC	enter	С	N	0	S	0	E 10	W	OF	Plot '	1	0	Plot	2	01	Plot 3						
Fill in bubbles Strata Section	s for all th n: Fill in a	nat app approp	oly: Ca oriate o	nopy cover	Type: class	: D = 1 bubbl	Deciduou e for eac	ıs: E = Everare	Buffer een. Leaf T or each plo	Type: 8	3 = Bn	oadlea	if: N =	Need	le Leaf.	Absent: No tred loderate(10-40	е сапору. %); 3 = Неа	avy (40-75	%); 4 =	Very F	leavy	(>75%)
Buffer Plot 1	Canop	y Typ f Typ	- 10		4	bser	it: O	Buffer Plot 2	Canop	y Typ	\rightarrow		-	bsen	t: O	Buffer Plot 3		/ Type: (f Type: (<u>~ `</u>	\leftarrow	bsent	
Big Trees (>0			<u></u>	0	0	10	liag	Big Trees (>	<u> </u>	1	0	@	0	0	Flag	Big Trees	(>0.3m DBH)		None	Ø	0	Flag
imall Trees (<0			Ö	@	0	ŏ	 	Small Trees (+	0	(1)	0(0		Small Trees	<u> </u>		1	0	$\overline{0}$	
Woody Shrubs,	Saplings 5m HIGH)	0	0	®	0	0		Woody Shrub	s, Saplings		0	8	0	0	\vdash	Woody Shru	ıbs, Saplings			0	\odot	
Noody Shrubs,	Saplings	<u>(</u>	0	0	ŏ	ŏ		Woody Shrubs			(a)	0	0	0	 	Woody Shru	im-5m HIGH) ibs, Saplings	0 6		0	Ö	
Herbs, Fo			Ö	0	$\overline{\odot}$	<u>10</u>).5m HIGH) Forbs and	6	®	Ö		0	 		<0.5m HIGH) , Forbs and		-	0	-	
	Grasses ground	(4)	0	0	0	<u> </u>		Bare	Grasses ground	1	0	0	0	0	-	Bar	Grasses re ground	-		0	0	
	er, duff	0	$\overline{\odot}$	0	@	0	-		tter, duff		0(0	®	_		 	itter, duff		+ =			
	Rock	(8)	0	0	0	6		- Cit		1		H = 1	-	0	├			0 0	+	®	0	
_	Water		0	0	0	1=			Rock	121	®	0	0	0			Rock	0 4	+	0	0	
Sub	omerged	-				0		Sı	Water	-	0	0	0	$\overline{\odot}$	 		Water Submerged	0 0	1 5	0	0	
Vegetation								egetation	_	\odot	0	0	0	- C11		Vegetation			0	0	•	
Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this but Residential and Urban Stressors Hydrology Stressors Agricultural & Rural Stres															-							
Fill bubble				1	2	3	Flag	FIII bubble		-	_	T		Ι,	Floor				urai s		1	
Road - grav		, iii - L	101	0	0	1	riay				101	1	2	3	Flag			it - Piot		2	3	Flag
Road - two				0	0	0		Ditches, Cl Dike/Dam/l				0	0	0		Pasture/Ha Range	ly		10	0	0	
Road - four		-	1	0	0	0		Water Leve		d Stru	cture	-	0	0		Row Crops			0	0	0	
Parking Lot	-	ent	-	0	0	0		Excavation			otare	0	0	0		Fallow Field		RESTING	0	00	0	
Golf Course				0	0	0		FIII/Spoil Ba		9	V	0	0	0	-	Fallow Field	D)		0	0	0	
Lawn/Park				0	0	0		Freshly De	posited S	Sedim	ent	0	0	0		SHRUBS TRE	ES)	-	0	0	0	
Suburban F	Resident	tial		0	0	0		Soil Loss/R		osure	, T	0	0	0		Dairy		1.3.	0	Ö	0	
Urban/Multi	ifamily			Ö	0	O		Wall/Riprap)			0	ŏ	Ö		Orchard	-		0	0	0	-
Landfill				Ŏ	0	Ō		Inlets, Outle	ets			Ö	0	ō		Confined A	nimal Fee	dina	0	0	0	
Dumping				Ō	0	O		Point Source		MATER		ō	0	Ö		Rural Resid	lential		0	ŏ	0	
Trash		n.	4114	0	0	Ō		Impervious (SHEETFLOW)	surface			0	0	Ō		Gravel Pit	TY I		0	0	0	
Other:	-			0	0	Ō		Other:				0	0	0		Irrigation			Ö	0	o	
Other:				0	0	0		Other:		- 100		0	0	O		Other:			0	ō	0	
indust	triai De	evelo	pme	ent S	tres	sor	,							at/V	egetat	tion Stress	ors					
ill bubble i	if prese	nt - P	lot	1	2	3	Flag	Fili bubble i	if preser	nt - P	lot	1	2	3	Flag	Fill bubbl	le If prese	nt - Ploi	1	2	3	Flag
Oil Drilling	Tel	Mag		0	0	0		Forest Clear	Cut	Trans.		0	0	0		Herbicide Us	se		0	0	0	
Gas Wells	1			0	0	0		Forest Selec				0	0	0		Mowing/Shn	1000		0	0	0	
Mine (surfac	ce)			0	0	0		Tree Plantati	ion			0	0	0		Trails			0	0	Ö	
Mine (under	rground)		0	0	0		Tree Canopy		ry	1	0	0	0		Soil Compac	ction		0	0	0	
Military				0	0	0		Shrub Layer		t	1	0	(9)	Ö	-	(ANIMAL OR HL Offroad vehi		ne	0	0	0	
Other:				Ö	0	0	F	WILD OR DOME Highly Graze	ed Grasse	es	\dashv	0	0	0		Soil erosion		•	1	0	0	
Other:				0	0	0	1	OVERALL <3° H	med Fore	est		_				OR OVERUSE) Other:				_	\rightarrow	
	-		-	_				Canopy Recently Bur	med Gra	sslan	d	0	0	0		_			0	의	0	
Other:	codes.	K = N	-	이	0	0	((BLACKENED)				0	0	0		Other:				O	0	
	fer Sam					Expl	ain ail fla	ags in comme	ent section	n on ti	etc. =	ck of t	his fo	m m	gned by	each field cre	ew.	242	8168	304		
DUT	וכו שנו	י אוב ר	IULS	U3/	41/4	TTO										et carrieron						

• FO	FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back) Reviewed by (initial): DATE: D7 1 09 1 2013													
Site ID:	PCI	40) <u>(</u>	013	12	DAT	E:() 1		0912013				
Confirm	a fille	d da	ta bu	ıbbie ir	ndicates presence and an unf	illed b	ubbi	e ind	licates	absence by filling in this bubb	ie			
FIII bubble if present - Plot	1	2	3	Flag	Fili bubble if present - Piot	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	
Glant Saivinia	0	0	0		Perennial Pepperweed	0	0	0		Common Buckthorn	0	0	0	
Gariic Mustard	0	0	0		Glant 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 O O Reed Canary Grass O O Other: O O Birdsfoot Trefoil O														
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	
Other: O O O O PLOT COORDINATES														
Location of coordinate O AA CENTER O N Latitude	3	o s	3	O E3	● W3 O Nearest pra	Lor	gitu	de V		g and comment below)	.2,	_[Fla	
Flag Comments							N. S							
					-		·					.=		
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