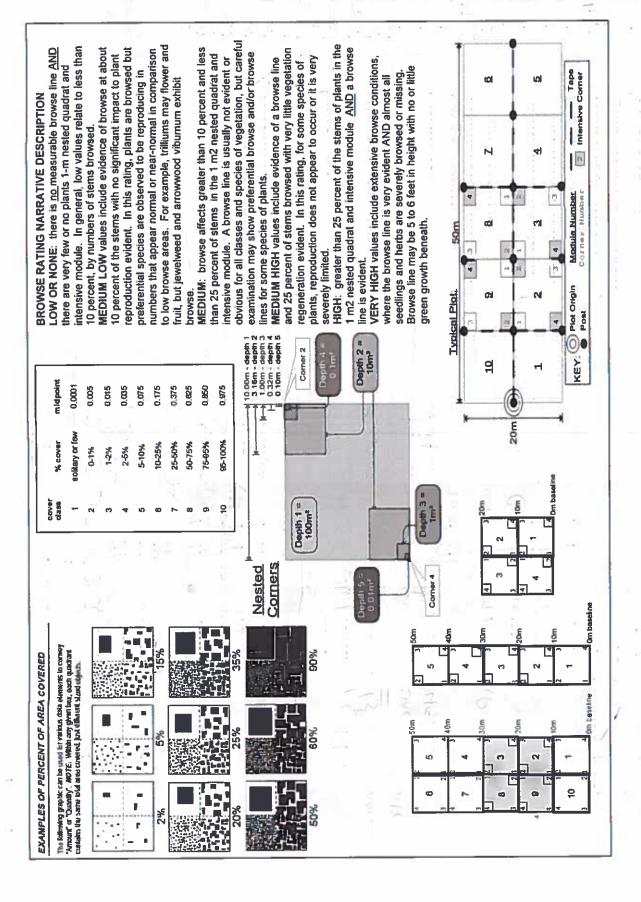
Project Label:	РСАР	Plot N	o: 138 State Sampled: 07 31 Lead: LAN
- va			Comment required if item answer is NO
arking/Access outsic	le of Park Boundaries:	Y (N	If yes, write details in Comments section below
ield journals comple	ted	Y N	
Site sketch made on 1	:3000 map?	V N	
Check cover page	X-axis Bearing of plot recorded	N.	
	GPS coords. Recorded	Y N	
	North direction recorded	Y N	
	Photographs taken?	('y)" N	
	Relocated Pins Mapped	(Y) N	
lot No., Date agreem	ent on all pages?	Y N	
leader data complete	d all pages?	(V) N	
Cover classes recorde	d in all Intensive modules	(Y) N	
Browse Level By Spe	cies	YN	
Woody stem quality c		AY N	Check every line and cross check with the Tree Cover Sheet
nvasive plant quality		(Y)	
Ash trees mapped		YN	NIA
	t/Pathogen Datasheet	(Y) N	V
Cover by Strata? (con	firm cover type)	Y.) N	her
	with matching plot #.	YN	NIA
cross check 2010 info		(AY) N	Highlight any changes from 2010 information
	latasheet with initials and number	YN	None
Vouchers labeled on o		Y N	None
Pink flags removed		GY )N	2.322.323.33
Data sheet QA before	leaving site?	CY N	
Common equipment r		GY N	
Data sheets scanned?			Enter date to left
inal data sheets scan	ned?		Enter date to left
Buffer Widths measur	· · · · · · · · · · · · · · · · · · ·	Y N	
Web Soil Survey		Y N	
Voucher Location	Refrigerator	Y N	
# vouchers collected)	Press (#)		Enter number to left
	Drier	Y N	
NONE	Identified	YN	
Morra	Mounted	YN	
V	Thrown away	YN	
	Timown away	1 1	
	4 7 1 1 1 1 1 5		
	tion: Is plot sampleable?		·
Yes Yes	Original GRTS point is sampleable		
□ No	Original GRTS point lands in a non		(fill in category below)
	Point falls in a water (i.e. river.      Managed mowed area (i.e. golf.)		links of must
	Managed mowed area (i.e. golf     Paved area (i.e. parkinglot, road)	course, picnic area, i	ignt-ot-way)
	Unsafe to sample (i.e. steep slop	e)	
7	Other		
Additional Commen	ts:		

CLEVELAND METROPARKS Plant Community		Assessment Program - Background Data Sheet	d Data Sheet		General	1
Project Label:		Project Name:	Project Name: COUCOOLS	Plot No.: 1388	SS Page 2 of 2	of 2
MODIFIED NATURESERVE CLASS*			DISTURBANCES			
CODE (on separate form);	Fit= Conf=	Į.	type* severity**	yrs ago % of plot de	description	
(03)	1		$\rightarrow$	G 100% trash	ish throughout	
	,		Natural		,	
COMMUNITY NAME:	Beech Maple		Fire			
0 - 8	Machama	1	Cut			
Mixed torest	SUE 9- 3.	S)M-4	Animal UF	0 10076 6	Sower	
HOMOGENEITY	4		**L=low, ML=med low	**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high	=high, VH=very high	
D Homogeneous Compositional to	Compositional trend across the plot		Current Land Use:	PARK		- 1
Sconspicuous inclusions 🗆 Irregular/pattern mosaic	nosaic		Former Land Use:	LINKNOWY		
	HYDROCOGIC REGIME*	GIME*				
	Copland (seldom flooded)		a Intermittently flooded			
SALINITY*	□ Intermittently/seasonally saturated		□ Semipermanently flooded			
o Saltwater	(seldom flooded)	Dermar	n Permanently flooded			
o Brackish	a Permanently/Semipermanent, saturated		n Tidal/Seiche flooded daily			
D Fresh	(dry <1/yr, seldom flooded)	20 % 20 % 60 mm	D Tidal/Seiche flooded monthly			
a Upland (n/a)	□ Occasionally flooded (<1/yr)	·	□ Tidal/Seiche flooded irregular			
	- Temporarily flooded	(e.g. win	(e.g. wind, storms)			
(by default unless plot is a wellatio)  Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)	ess of plot to the stand, succes	ssional status, maturity, etc.)				Г
as a result of continuous bouse pressure,	Continuous	brawse pri	essure,			-
Most notable aspect of old is the encroachment by realby	et of oldt	Is the e	ncroachu	ext by	2016c	
	,			1 1000	11/11/11	0.0
homeowners, rice		, large thun debuts piles, Thash of all sort	ebris pile	S Trash of	all soru	
throughout the plot.		Fence love is approx. 30 m from baseline	prox. 30	m from	saseline.	
Encroachment		5 C3-	4			
						1

swall show

Project Label:	Project Label:  PCAP  Project Label:  PCAP  Project name: 020 C2015	Project name: Oak IC and S	es Cove	Can		Plot no.:	1388	Щ		7	Page L	9	-
Total modules:	У	Intensive modules:	114	Plot c	gurat	on:	ŝ	T	Plot	area (	Plot area (ha): 05	SO	
>		This is a second	_	38	comer mod o	corner mod o	comer mod	comer mod	od comer	Лã	comer mod	D COMMET	D 00
3	Day Drawe Level   Head on the Algebra to	intensive module:	depth cov	depth 9	cov depth	cov i depth	cov depth	00 V	depth cov	depth		- B	depth
Claveland	describe amount of browse per species over	%open water			1		_	O		-			
Metroparks	entire plot	%unvegetated open water	-		1	0	_	ō		-	0		
Martin Cov entire plot		%unveg. ground (bare soil)	- L			06		4		-	<u>d</u>		
S   H  (F) (A) Br	Br Species	c Voucher#	depth cov	depth	cov depth	depen	cov depth	8	depth cov	depen	cay depth	NOO NOO	depth
<u> </u>	Moss so		46	$\widetilde{\mathfrak{L}}$				6					
19	~		ره در	<u>ر</u>	ر ا	и Д	9.	9	W	4	2		
S)	petiolata		36	~			2	2		2	2		
	^		S	Q)	4	<u>μ</u>				Z	2		
92	<u> </u>	7	2		23	W							
1	Whos so!		94				١						1
	Carex so.		S				S)						
<u>ک</u>	Ostrva vilginiana	A COMMENT OF STREET	9		b	S S	<b>6</b> 2	برو		ديا		opini M	
32	^		N L	4				_		A			
يو	7		2)	v	8				ist		-		
	4		-						F		-		
									7				
-	Carex simpli		45		v	<u>ಬ</u>	,					N.	
上 之	Hamamelis invaintana					7			BU				
رع	Oxalis stricta								Fil		-		
	VIHS SO.		-				2	-			-		
	15		+		7						+	40	
	1 UXICOMENDUM CODICONS		100				_	-			+		
	Framhus trangula				ŀ		F				-		
14 J	6 tragus grandifilia			-				7	+	2	5	X.	
2	the then octions away into la			-				12	1	V	-		
	Quercus Sb.			-				23	5		-		
J.	Acer rubrum	Ī			E .			6		2	0		
(2)	Cacya ovata							Ņ		2	-		

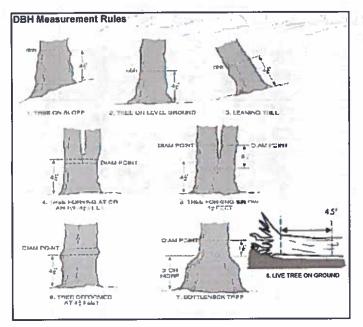


CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Strata - Cov. entire plot % COVER Project Label: Br Phunus serotina Querous rubra Acer rubrum Francious sp. hunus cerasus pagus grandifalia I'M'S gestivales Strya Urrainiana acya avata Species Prensence of tree mod species (X) Project name: Voucher # Plot no.: 1388 Page \_

:0																							
ft Plot no.:		œ	œ																				
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over				U		Щ											11/2						
ree C		a)				130		_				_			$\square$	$\vdash$	_	-	_			Н	$\dashv$
ant Program Tre		Prensence of tree mod	species (X)	Voucher #							160				9			:					
ssme			$\forall$	U			,			- 4	-												
CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Project Label: PCAP				Species			-														20		
TROP			ᇦ																				
CLEVELAND ME Project Label:		ÆR	Strata - Cov. entire plot	Br																			
CLEVE	-	% COVER	Strata - (	⊢																			

õ

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Standing dead Prunus senting Smilax vrotundital Standing dead Smiles rotundifolius Standing dead Aper rubrum Explain subsample (additional room on back) carya ovata Quercus rubra VITIS DESTIVALIS Acer Youbrum Prumus Oserotina Carua algration Ostrya Virginiana Acer Hamiomelis Virginiana runus cerusus Amilax votunditus Heer rubrum Ostrya virginian yvuerous rubra Strya virginiana Y WOYUM aranditolia Project Label: PCAP voucher# 四四 開開 : browsed stems or super % sub Project Name: 02 WC 2015 size class (cm) woody stems >1.4m 0.41 1-<2.5 2.5-<5 Plot No.: 1388 5-<10 : 10-<15 15 - < 20 20-<25 Page: 25 - <30 30 - <35 (Cleveland Metroparks 5 0 25.5 >40 (record each tree)



### 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.
- 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.
- 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.



B

C

D

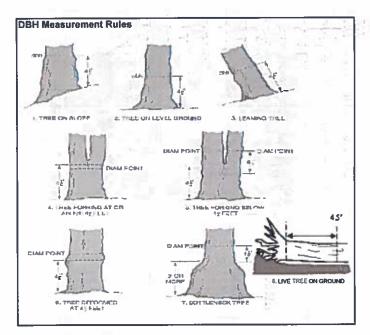
E

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

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

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

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 50 Prunus sentina Carya ovata Yrunus scroting Vitis aestivulis Explain subsample (additional room on back): Acer Robrum Fagus grandifolia Smilax rotundifola Standing dead Smilax rotundifolia Fraxinus pennsustvarnica Ostrya virginiana ostrya virginian Project Label: PCAP 30-15 voucher# Ø SER # steme browsed 0-1.4m or super Project Name: 02WC2015 clumps shrub size class (cm) woody stems >1.4m 0-<1 1-<2.5 2.5-45 Plot No.: 1388 5-<10 10-<15 20 Page: 25 - <30 30 - <35 Cigneland Metroparks 35 - <40 5 >40 (record each tree)



### Woody Stem Deer Browse

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

Record using the tally system from 1 to 10













### **ASH CANOPY CONDITION**

- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
- 2. Thinning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.
- 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.



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.

CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet = **O** 21 23 16 12 10 24 23 23 19 ø ash Project Label: PCAP Deac Project Name: 02WC 2015 G DBH HBG ₩ **69** Ash condition Dead. # Exit Epicormic holes present PHOT NO.: 1388 Date: \$ 31 July 2015 Woodpecker holes Baseline Map all ash trees ≥10cm in each module using Tree ID number \*\*\* Change intensive module numbers when necessary 6 2 Page: 1 of 2 8 ۵

25

\* 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)

Tier 1: Earl	v detection/	Rapid response			Pres	ence		GPS	
				NE	SE	sw	NW		Presence
Microstegium vimineum		Japanese stiltgrass							X: yes
Ranunculus ficaria		Lesser Celandine							
ynanchum louiseae	(vine)	Black Swallow-wort							
Butomus umbellatus	(wetland)	Flowering Rush							
Heracleum mantegazziani		Giant Hogweed							====
	r 2: Assess a				# of	Plants		comments	
				NE	SE	sw	NW		# of Plants
Acer platanoides		Norway Maple							1: 1-10
Ailanthus altissima		Tree of Heaven							2: 11-50.
onicera japonica	(vine)	Japanese Honeysuckie	2					<u></u>	3: 51-100
ythrum salicaria	<u> </u>	Purple Loosestrife						****	4: 101-1,00
Aegopodium podagraria		Bishop's Goutweed							5: >1,000
Celastrus orbiculatus		Asian Bittersweet							
Forilis sp.	1211101	Hedgeparsley							
Conium maculatum		Poison Hemlock							
Rhamnus cathartica		Common Buckthorn	(shrub)						
Berberis thunbergii		Japanese Barberry	(shrub)	$\vdash$					
Alnus glutinosa		European Alder	(311, 45)	2.1					
Dipsacus laciniatus		Cut-leaf Teasel							_
laeagnus umbellata		Autumn Olive	(shrub)						
onicera maackii		Amur Honeysuckle	(shrub)						
Euonymus fortunei		Wintercreeper	(Sili do)				<del>                                     </del>		$\dashv$
	: Presence is				# of	Plants		comments	
liei a	. rieseine is	of lifetest		NE	SE	sw	NW	Connicted	# of Plants
Convallaria majalis	(G-cover)	Lily of the Valley		111	-				1: 1-10
Coronilla varia		Crown Vetch		$\vdash$	1				2: 11-50.
leutherococcus pentaph	1	Five-leaf Aralia	(shrub)		<del>                                     </del>				3: 51-100
Pachysandra terminalis		Japanese Pachysandra			<del>                                     </del>				4: 101-1,00
Philadelphus coronarius	(G-cover)	Mock Orange	(shrub)				$\vdash$	<del></del>	5: >1,000
Pulmonaria officinalis	(G-cover)	Lungwort	(SITI GD)					1,2-1	<u>  5.                                   </u>
Rubus phoenicolasius	(G-cover)	Wineberry			-			<u></u>	_
	(wotland)	Yellow Flag Iris		1		1			_
ris pseudacorus Ornithogalum umbellatur		Star of Bethlehem		1		+		54.70%s	
Viburnum opulus var. opu			(shrub)						_
∕iburnum opulus var. opu ∕iburnum plicatum	ilus	European Cranberry  Doublefile Viburnum				-	1		-
	Attel aggregate	and abundant	(Siliub)	2002000	Dens	ence		comments	
Her 4; Y	videspread	and abundant		NE	SE	SW	NW	Comments	# of Plants
Allinois potiol-t-		Garlic Mustard		IAE	25	244	I AAA		1: 1-10
Alliaria petiolata		Common Privet	(chec-L)	<del>  '</del>	+ *	1	<del>                                     </del>		2: 11-50.
igustrum vulgare			(shrub)	$\vdash$			+		3: 51-100
morrowii, L. tatarica		Bush Honeysuckles	(shrub)		+	-	<del>                                     </del>		
Phalaris arundinacea	A 1 11	Reed Canarygrass		-	$\vdash$	1	-		4: 101-1,00
Phragmites australis	(wetland)	Phragmites		-	$\vdash$	$\vdash$	<del>                                     </del>		5: >1,000
Polygonum cuspidatum		Japanese Knotweed	7.5 . 1.5	-	<del>                                     </del>	<b>-</b>			_
		Glossy Buckthorn	(shrub)		1	+		*	$\dashv$
rangula alnus									
rangula alnus Rosa multiflora		Multiflora Rose	(shrub)		-		-	<u>:</u>	<del></del>
rangula alnus Rosa multiflora Typha angustifolia, T. x.gla	auca	Cattails (wetland)		1 7					
Frangula alnus Rosa multiflora Typha angustifolia, T. x.gla Irsium arvense	auca	Cattails (wetland) Canada thistle							
Frangula alnus Rosa multiflora Typha angustifolia, T. x.gla Eirsium arvense Dipsacus fullonum	auca	Cattails (wetland) Canada thistle Common Teasel							
Frangula alnus Rosa multiflora Typha angustifolia, T. x.gla Cirsium arvense Dipsacus fullonum Hesperis matronalis	auca (G. sovos)	Cattails (wetland) Canada thistle							

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

(G-cover) Periwinkle

Vinca minor

							TT.			Severity
	er)	Walnut (Thousand Canker)	t (Thous:	Walnut						
Other Pest or Pathogen			Hemlock (HWA)	_Hemlor				55		(size class 2 or below including shrub clumps)
Asian Longhomed Beetle			Nome Beech (Fungus)	Beech	3	N 9				Tree (size class 3 or above)
		lence:	* Write None Present if no evidence:	resent i	None P	* Write		Severity (H,M, or L)	F of stern infected	Strata
NFECTED	THE NOT INFECTED		HE PLO	T NI NO	PULATIO	IES PO	AL SPEC	RECORD TOT	THOGEN	IF EVIDENCE OF PEST OR PATHOGEN RECORD TOTAL SPECIES POPULATION IN THE PLOT EVEN
						, and the second				THE CALL STATE
							4			
										None
8 9 25 <30 30 - <35	7 20 - <25   25	6 15-<20	5 10 - <15	5-<10	3 2.5~5	2 1-<2.5	<u> </u>	shrub	voucher#	species
-				3	/ stems >1	(cm) woody	size class (cm) woody stems >1m	#		

STANDING BIOMASS (required for emergent wetlands) collected in 0.1m clip plots (32x32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C7-check when CLEVELAND METROPARKS Plant Community Assessment Program - Plant Compand Earth Surface
Project Label: PCAP Project Name: 02W02015

PM No.: 1388

Chevel and Medical Parks Page: 1 of 1

McNAB INDICES (degrees) + for up - for down

(FILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD)

Aodule #

3

CLASSIFICATION		
(FIT = executent p Fit and Confidence		
Hydrogramschie class (WETLANDS ONLY):		
a DEPRESSION	7	Conf-
a IMPOUNDNIENT a Beaver a Human	2º 	Conf=
n RIVERINE o Headwater o Mainstern o Channel	Fit=	Conf-
O SLOPE (ground water hydrology or on a physical sloph	7	Conf*
n FRINGING o Reservoir o Natural Lake	- T	Conf=
to COASTAL (specify subclass)	- A	Conf*
n BOG (strongly, moderately, weekly ombrotrophic)	Fil=	Conf*
Oble EFA VIBLETIMI Community Class (WETLANDS ONLY):	ST.	
a FOREST a smamp forest a bog forest a forest seep	1	Conf <sup>a</sup>
a EMERGENT a marsh a wet meadow a open bog		Conf
a SHRUB a shoub swamp a tall sh. bog a tall sh fert	File	Conf=

# MICROTOPOGRAPHIC FEATURE COUNTS - Intensive medules only

\*\* Terrain Shape Index (sits microtopographic shape)

Landform Index (position within landscape)

Z.

+270 degrees +223 degrees

Ę

+) 35 degrees

SE

90 degrees

local slopes. For TSI measure

LFI is angle of plot to the horizon. TSI is

+) 80 degrees

WS

eye of person standing ~10 m angle from recorders eye to

Sen St

+45 degrees

K

At aspect

what for microhabitet features. Solect one or solect two and everage the score NOTE: If mod fals on a slope externetically gets ranked based on steepness (1-3) to begin + any features present

Slope 2 = falls on slope ~20 \*

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

feature is absent or functionally absent from the wetland

liupe 1 = slight elevational grade across module (hit)

teature is present in the wetland in very small amounts or if more common, of low quality

feature is present to 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

	7).	Ž	4%	200	X	modif						
		1	)	J	1	COCTECT						
		0	00	0	0	(count)	lxim	depth 3		iusocks	no. of	
		O	0	9	D	(count)	3.16x3.16m	depth 2	uplands (Tip-Ups)	hummocks	no. of	
				_	0	(Sympto)	10x10m	depth t		depressions	ло. тасто.	
		9	80	19	6	(count)	10x10m	depth t		(2-12 cm)	p.w.a	c.w.d cou
- 3		4	ہو	_	0	(count)	10x10m	depth 1		(12-40cm)	c.w.d	nt for pieces with a
		0	0	σ	0	(count)	10x 10m	depth I		>40 cm	Cw.d	c.w.d count for pieces with minimum im length
		-		-	_	(rank)	10x10m	depth I		interspers.	microhab.	1
		1	2	2	2	(rank)	10x10m	SLOPE			microhab.	

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

5	41	u-	<del></del>	Module	CONTROLOG
0	0	0	_	2	contraction of the contraction o
0	0	0	N	s	ber Bron schmer)
0	0	2	2	m	
0	0	0	2 2	٤	

NOTE: bussock and hummocks are counted in BOTH nested quadrat corners but counts are aggregated.

5eCM PCAP Plant Cover\_Earth Surface Data sheet Page 1\_ver 3.rts last revised \$29/2012 ceh

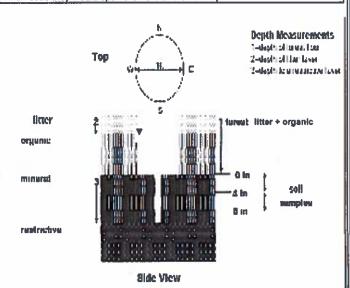
### **COVER BY STRATA**

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 fayers.



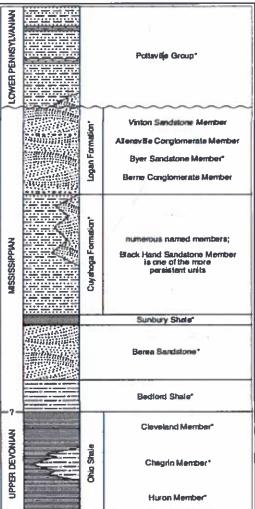


FIGURE 3-20.—Generalized section of Upper Devonian, Ministriptian, and Lower Pennsylvanian formations in northeastern Ohio Asteriaks instinct units that are feasible rous. This composite section represents about 400 meters of rock exposed across the area. The sections is not to easile, but the chicknesses instincted are proportional. The term "Waverly" is used in the older literature to refer to Mississippian rocks in Ohio. Song geologists use the European norm "Carboniferous," which encompasses the Mississippian and Pennsylvanian Periods of the U.S. Many units have been issued within the Cuyahoga Formation, but most units are local and cannot be traced over great distances. The Black Hand Member is a spectacular massive sandstone that is fairly widespread but discontinuous. See Hyde (1953), Hoover (1960), and Collins (1978) for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of rock types.

1000

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a
Project label: PCAP Project Name: 02 wC 2017
Project label: PCAP

(\$) Cleveland Metroparks

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 # \_\_\_\_ (one per entire plot)

20 cm 를 다 matrix color matrix color lexture\* %mottle redox features\*\* hydr. cond.\*\*\* etoar prixe stoor prix edox features\*\* ottle color mottle ottle color co M D z z z

refer to texture classes on reverse side

hydro, cond \*\*\*

I S M D

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

\*indundated S\*saturated M\*moist D\*day lotes: include evidence of earthworms (worms,

astings, middens)

2-castings, 3-postings,

9-castings, no worms

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

o Impermeable surface	Well drained	Excessively dr	DRAINAGE*	Parent Moterial	Depth to rest. Layer:	Landform type:	Soil Series Source: Ohio Soil Survey	Soil Series/Type:	Web Soil Survey Informations	2,3,8,9 composited A	Soil Collection Modul Harizan (A. B. C)
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	9.1 cm in cent record as >30	SOIL DEPTH MEASUREMENT: Measure to the neares 0.1 cm in center of intensive modules. If >30.5 cm, record as >30	REMENT: I	Measure to t	he neares
	mod#	1 litter+ organic depth (cm)	2 litter depth (cm)	water depth depth sat (cm) soil (cm)	depth sat soil (cm)
_	7	79	2.9		

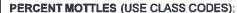
4 7.2		1-1-1-10-10-10-10-10-10-10-10-10-10-10-1	2 2.9 .	1 litter+ organic depth mod# (cm)	0.1 cm in center of intensive modules. If >30.5 cm, record as >30
	12	1-1	2.9	2 litter depth (cm)	insive mod
		114		water depth	Jues. If >3
				depth sat soil (cm)	J.5 cm,

EARTH SURFACE & GROUND COVER	CE & GROU	ND COVER	
Underlying Earth Surface	h Surface*	Ground Cover	50
(Sum - 100%)	percent	(Each 5 100%)	percent
Histosol	J	Coarse Woody Debris***	10%
Mineral Sod	98%	98% Fine Woody Debris****	8%
Gravel-Cobble*	1	Litter	75
Boulder**	ಭ್ಯಿ	Duff (Ferm.+ Humus)	1
Bedrock	(	Bryophyte- Lichen	2
• Gravel-Cobble = 1/16-10*	- 1/16-10°	Water	1
**Boulder = > 10 m	5	Bare Soil	20%
*** >5 cm in diameter	nctor	Road/Trail	5%
and an alamatar	meter	Other	-

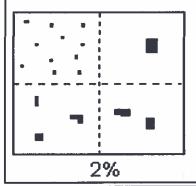
COVER BY STRATA	COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13	9×:3, 8, 13
Strata	Height Range (m)	Total Cover (%)
Tree	(1	8896
Shrub	5 50	13%
Herb	2.0	200
		15/0
(Floating)*	-	570

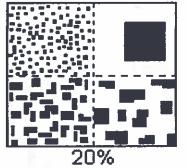
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o < plot sizze	o 1-3 x plot size	3-10 x plot size	0 10-100 x plot size	to > 100 x plot size	a >600 x plot size	STAND SIZE	
IIII							



Class	C	ode	Criteria: % of
	Conv.	NASIS	Surface Area Covered
Few	f	#	< 2
Common	С	#	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

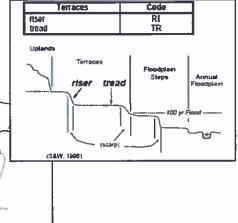
Position

Geomorphic Component - Three-dimensional descriptors of parts of landforms or microleatures 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.

	11477	000		
L		POP	NASIS	
	Interfluve	LF HS	IF HS	
	head slope	HS	HS	
	nose slope	NS	NS	
	side slope	SS	SS BS	
	base slope		0.5	
4		Head slope Nose slope		1
	1 20 1 1	-	V 8 14	07 i

higher order st



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

Code

shoulder hackslope footslope toeslope	SH BS FS TS	
Su Sh Bs	Fe godina	Sh 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 flooded".

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

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Road - four	lane			0	0	0		Water Leve	el Contro	l Stru	cture	0	0	0		Row Crops			0	0	0	
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Lawn/Park				0	0	0		Freshly De		Sedim	ient	0	0	0		Nursery			0	0	0	
Suburban F	Residen	tial		0	0	0		Soil Loss/F	loot Exp	osure		0	0	0		Dairy		216	0	0	0	
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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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Road - grav Road - two		-		0	0	00		Ditches, Ch Dike/Dam/l	No. Maria A			0	0	0		Pasture/Hay				의	읝	0	
Road - four				0	0	0		(IMPEDE FLOT		Stru	cture		0	0		Range				0	0	0	
Parking Lot		ent		0	0	0		Excavation	er territoria	PORT OF THE REAL PROPERTY.	Otoro	0	0	0		Row Crops Fallow Field (RECENT-RESTING				0	0	0	
Golf Course				0	0	0		Fill/Spoil Ba		3		0	0	0		Fallow Field	(OLD - GRA	ASS,	110	0	0	0	
Lawn/Park			119	0	0	0	r	Freshly De	posited S	Sedim	ent	0	0	0		SHRUBS, TRE Nursery	ES)			0	o	0	
Suburban R	Residen	tial		o	0	0		Soil Loss/R		osure		0	0	o	- 2	Dairy			70	0	0	o	
Urban/Multil	family			Ō	0	O		Wall/Riprag	p			ō	0	O	200	Orchard	00000	4		o	0	O	
Landfill				0	0	0		Inlets, Outk	ets			O	0	O		Confined A	nimal Fee	ding		O	0	O	
Dumping				•	0	0		Point Source		VATER	3	0	0	0	6	Rural Resid	lential			0	0	0	
Trash		The same		<b>(D)</b>	0	0		(SHEETFLOW	surface			0	0	0		Gravel Pit				0	0	0	
Other:				0	0	0		Other:				0	0	0		Irrigation				0	0	0	
Other:				0	0	0		Other:				0	0	0		Other:				0	0	0	
Indust	trial De	evelo	pme	ent S	itres	son	5				2750	ŀ	łabit	at/V	egeta	tion Stress	ors						
Fill bubble i	f prese	ent - F	Plot	1	2	3	Flag	Fill bubble	if preser	nt - F	lot	1	2	3	Flag	Fill bubbl	e if prese	ınt - I	Plot	1	2	3	Flag
Oil Drilling				0	0	0		Forest Clear	r Cut			0	0	0		Herbicide U	se	ns.		0	0	0	
Gas Wells	9,15	- 101		0	0	0		Forest Selec	ctive Cut			0	0	0		Mowing/Shr	ub Cutting			0	0	0	,
Mine (surfac	ce)			0	0	0		Tree Plantat	ion			0	0	0		Trails				0	0	0	
Mine (under	ground	)		0	0	0		Tree Canopy	y Herbivo	жу		0	0	0		Soil Compa-				0	0	0	
Military		18		0	0	0		Shrub Layer (WILD OR DOM	Browsec	d		0	0	0		Offroad vehi	V 5 0	ge		o	0	0	
Other:		A . F. 100 . L 1	T	0	0	0		Highly Graze	ed Grass	es		0	0	0		Soil erosion	(FROM WIN	-	TER,	0	0	0	
Other:			100	0	0	0	$\dashv$	OVERALL < ↑		est		0	0	0		OR OVERUSE) Other:				0	0	0	
Other:	and the second			0	0	0		Canopy Recently But	med Gra	sslan	d	0	0	0		Other:		7-6-7		0	0	0	
	codes:	K=N	o mai			-		(BLACKENED) uspect measu	rement.	F1.F2	etc.	100	400			and the same of th	Brw.		_1				- 10
10000	fer San	100		- Chance	/27/2	Exp		ags in comm										1 2	2428	168	304	L	4
				/																			

Site ID:			: E	BUFFER SAMPLE PLOT	S - TAI	RGE	TE	) ALI	EN SPECIES (Back) Reviewed by	y (initial	i):		
	1	38	જિ	KBP E	DAT	E: _	ð. <sup>s</sup>	₹./	3.1.1.20.15				
⊕ Confir	n a fille	ed da	ta bı	ubble indicates presence and an	unfilled	bubbl	le inc	dicates	absence by filling in this bub	ble	1115		
Fill bubble if present - Ple	t 1	2	3	Flag Fill bubble if present - F	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	Chealgrass	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	
		1						i i	Other:	0	0	0	
				PLOT CO	ORDINA	TES	400	No.	19				R to
		OS h <mark>4</mark>		© E3 O W3 O Nearest  3 % O 1 2  Use Decimal I	Loi	ngitu	đe V		o and comment below)	2			
Flag Commen	ts												

								and the second second															
•			Had				FO	RM B-1:	BUFF	ER	SAI	VIPL	E P	LO	TS (F	ront)	1512	Review	ved by	(Initial	:		•
Site	ID: 10	389	34	10	BA	S									DAT	E: 07	1.31		2	0	1.	5	
Locati						7.01			Fill	in b	ubb	le(s	) if p	lot(		uld not be			_		_		Т
OAA	Center	С	N	•	S	0	E C	W		lot			Plot	19.0		Plot 3						1	
Fill in bubbl Strata Secti	es for all ti on: Fill in :	hat appaprop	ply: Ca priate o	nopy	Type:	D = ( bubbl	Deciduou e for eac	s. E = Everare	Buffer en. Leaf T or each plo	voe: E	3 = Bn	oadlea	f.N=	Need	le Leaf	Absent: No tre loderate(10-40	e canopy. %); 3 = Hea	avy (40	-75%)	; 4 = \	'ery H	eavy (	(>75%)
Buffer	Сапор	у Тур	e: 🕞	) (	) A	bser	ıt: O	Buffer	Canopy	у Тур	e: (	0	) A	bsen	ıt: O	Buffer	Canopy	/ Тур	B: (D)	0	Ab	sent	0
Plot 1	Lea	f Typ	e: 🕒	) (			Flag	Plot 2	Lea	f Тур	e: (	) (			Flag	Plot 3	Lea	f Type	»: <b>①</b>	0			Flag
Big Trees (	-0.3m DBH)	0	0	<u> </u>	0	0	<u> </u>	Big Trees (>	0.3m DBH)	0	0	3	<u> </u>	0	1	Big Trees	(>0.3m DBH	<u>,</u>	0	<b>①</b>	0	0	
mall Trees (		0	0	0	0	10		Small Trees (		0	0	0	0	0		Small Trees	<u> </u>	$\perp$	0	0	<b>3</b>	0	
	-5m HIGH)	0	0	0	0	0			-5m HIGH)	0	0	<b>②</b>	0	0		Woody Shrubs, Saplings (0.5m-5m HIGH)			0	<b>(2)</b>	0	0	
	.5m HIGH)	0	0	0	0	0			5m HIGH)	0	0	0	<b>①</b>	$\odot$			ıbs, Saplings <0.5m HIGH)		0	<b>②</b>	0	0	
Herbs, F	orbs and Grasses	0	0	<b>②</b>	0	<u> 0</u>		Herbs, I	orbs and Grasses	0	0	2	0	0		Herbs	Forbs and, Grasses		0	0	0	0	116
Bare	ground	0	0	<b>①</b>	0	0		Bare	ground	0	0	0	0	0		Bai	e ground	0	0	0	0	0	
Lit	ter, duff	0	0	0	0	0		Lil	ter, duff	0	0	0	0	0		, .	itter, duff.	0	0	0	0	0	
	Rock	0	0	0	0	0			Rock	0	0	<b>①</b>	0	0			Rock	0	0	0	0	0	
	Water	0	0	0	0	0			Water	0	0	0	0	0			Water	0	0	0	0	0	
	ibmerged egetation	0	0	0	0	0			bmerged egetation	0	0	0	0	0			Submerged Vegetation		0	0	0	0	
Stress	or Pres	sence	e/Ab	senc	e - I	Confi	irm that	a filled data	bubble in	ndicat	les p	esen	ce an	d an	unfilled	l bubble indic			y fillir	ng thi	s bub	ble.	9
Resi	dential	and	Urba	ın S	tres	sors			Hydrolo	gy S	tres	sors				1-1-8	Agricult	ural 8	& Ru	ral S	tres	BOTS	
ill bubble	if prese	ent - F	Plot	1	2	3	Flag	Fill bubble	if prese	int - F	lot	1	2	3	Flag	Fill bubble	if preser	nt - Pl	ot	1	2	3	Flag
Road - gra	ivel			0	0	0		Ditches, Cl	nanneliza	ition		0	0	0		Pasture/Ha		0	0	0			
Road - two	lane			0	0	0		Dike/Dam/		Bed		0	0	0		Range				0	0	0	
Road - fou	r lane			0	0	0		Water Leve	and the second	Stru	cture	0	0	0		Row Crops		0	0	0			
Parking Lo	t/Paveπ	ent		0	0	0		Excavation	, Dredgin	ng .		0	0	0		Fallow Field	IG	0	0	0			
Golf Cours	se			0	0	0		Fill/Spoil B				0	0	0		Fallow Field SHRUBS, TRE	d (OLD - GR	ASS,		0	0	0	
Lawn/Parl		TK.		0	0	0		Freshly De (UNVEGETATI		edim	ent	0	0	0		Nursery				0	0	0	
Suburban	Residen	tial		0	0	0		Soil Loss/F	loot Expo	sure		0	0	0		Dairy				0	0	0	
Urban/Mul	tifamily	P In		0	0	0		Wall/Riprar			n_ii	0	0	0		Orchard				0	0	0	
Landfill				0	0	0		Inlets, Outl				0	0	0		Confined A		ding	uili i	0	0	0	
Dumping			100	0	0	0		(EFFLUENT O	RSTORM			0	0	0		Rural Resid	dential			0	0	0	
Trash				0	0	0		Impervious (SHEETFLOW		iriput		0	0	0		Gravel Pit		- 59	1	0	0	0	
Other:				0	0	0		Other:			_	0	0	0		Irrigation			4	0	0	0	
Other:				0	0	0		Other:				0	0	0		Other:			$\perp$	0	0	0	
Indus	strial Do	eveic	pme	ent S	tres	son	В					1	labit	at/V	egeta	tion Stress	OFS						200
ill bubble	if prese	ent - F	Plot	1	2	3	Flag	Fill bubble	if preser	nt - P	lot	1	2	3	Flag	Fill bubb	le if prese	ent - F	lot	1	2	3	Flag
Oil Drilling				0	0	0		Forest Clear	Cut			0	0	0		Herbicide U	se			0	0	0	
Gas Wells			Ш	0	0	0		Forest Selec	tive Cut			0	0	0		Mowing/Shr	ub Cutting	3	_0	0	0	0	
Mine (surf	ace)			0	0	0		Tree Plantat	ASSESSMENT OF THE PARTY OF THE			0	0	0		Trails				0	0	0	
Mine (unde	erground	)		0	0	0	_	Tree Canopy (INSECT)	/ Herbivo	ry		0	0	0		Soil Compa (ANIMAL OR H				0	O	0	
Military				0	0	0		Shrub Layer		1	m	0	0	0		Offroad veh	Water diamen	ge		o	0	0	
Other:	W			0	0	0		Highly Graze	ed Grass	es		0	0	0		Soli erosion	L. STOLLAND WORLD	D, WAT	TED !	o	o	o	
Other:		La man		0	0	0		Recently Bu Canopy		est		0	0	0		Other:			-	ō		o	
Other:				0	0	Ō		Recently Bui	med Gra	sslan	a	0	0	0		Other:				ŏ		0	
Fla	g codes:	K = N	o mai			made	, U = S	spect measu	rement,	F1,F2	etc.	= misc	. flag:	5 256	igned by	y each field cr	ew.	2428168304					
1 100000	iffer Sam	Spile				Expl	ain all fl	ags in comm	ent section	n on t	he ba	eack of this form							428	тод	504		

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• F	ORM	B-1	l: E	UFF	ER SAMPLE PLOTS	TAF	RGE	TEC	ALI	EN SPECIES (Back) Reviewed by	(initial	):		
Site ID:	13	8	81	NCE	3PS	DAT	E:	1.	<u> </u>	3.1.1.20.15				
@ Confirm	a fille	d da	ta bı	ıbble i	ndicates presence and an ur	filled I	bubbl	le inc	licates	absence by filling in this bubb	ole			
Fill bubble if present - Plo	1	2	3	Flag	Fill bubble if present - Plo	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 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	1
Birdsfoot Trefoil	0	0	0		Common Reed	0	0	0		Other:	0	0	0	
Canada Thistle	0	0	0		Leafy Spurge	0	0	0	-1	Other:	0	0	0	
		The same of		-						Other:	0	0	0	
A MATERIAL STATES	75-10		200		PLOT COOF	DINA	TES		155 Mg				57.5	
location of the plot coordina If Buffer Plot 3 can not be a Plots are centered on the B Rag box, and describe when	tes by ccesse uffer T e the c cente	filling ed, ta ranse coordi er of F	ke thects a inate: Plot 3	e coon and the s were as pos	opriate bubble. dinates at the nearest practica coordinates will indicate the k	ole loca cation section	ation / of the	ALON e tran	IG THE sect. Fi	or the Buffer Plot at the AA CEN TRANSECT. This is important I ill in the "nearest practicable locardinates of the nearest practicable.	ecau	se al	Buffi	er in the
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location of the plot coordina  If Buffer Plot 3 can not be a Plots are centered on the B flag box, and describe wher either placed as close to the  Location of coordina  O AA CENTER  Latitude  Flag  Comment	tes by ccesse uffer T e the c e cente tes (c N3	filling ad, ta ranse coording of F	in the	e coomend the swere as posterior as posterior (Control of the coordinate):	opriate bubble.  dinates at the nearest practical coordinates will indicate the kataken and why in the commens sable or at the center of the late of t	le locación i section i section de la sectio	of the loss ble loss	ALON tranow. T Buff ocation	NG THE sect. Fi he coo fer Plot on (flag Vest	TRANSECT. This is important if ill in the "nearest practicable locardinates of the nearest practicable and comment below)	oecau ation" ele loc	se al bubb ation	l Buffile, fill	er in the
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Oil Drilling				0	0	0		Forest Clear	r Cut	×		0	0	0		Herbicide U	se			ol	0	0	
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Occupant	a fille	d da	ta bu	ubble indicates presence	and an unfilled	bubbi	le ind	licates	absence by filling in this bub	ble			
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Eurasian Watermilfoll	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 Knotwe	ed O	0	0		Multiflora Rose	0	0	0	
Glant Salvinia	0	0	0	Perennial Peppers	weed O	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 Gras	ss O	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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