Plot No., Date agreement Header data completed al Cover classes recorded in Browse Level By Species Woody stem quality cont Invasive plant quality cor Ash trees mapped Cover by Strata? (confirm Soil samples collected w	-axis Bearing of plot recorded PS coords. Recorded orth direction recorded hotographs taken? on all pages? I pages? all Intensive modules ord check	Y N Y N Y N Y N Y N Y N Y N Y N Y N	Comment required if item answer is NO  If yes, write details in Comments section below
Field journals completed Site sketch made on 1:30 Check cover page X N P Plot No., Date agreement Header data completed al Cover classes recorded in Browse Level By Species Woody stem quality cont Invasive plant quality cort Ash trees mapped Cover by Strata? (confirm Soil samples collected w Vouchers labeled on data	-axis Bearing of plot recorded PS coords. Recorded orth direction recorded hotographs taken? on all pages? I pages? all Intensive modules ord check	Y N Y N Y N Y N Y N Y N Y N Y N Y N	
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Soil samples collected wow.	cover type)		NONE
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		(Y) N	
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Common equipment retur		Y) N	
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inal data sheets scanned?			Enter date to left (md
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Veb Soil Survey			CL 7-19-13 BB 7-19-13
	frigerator		BB 7-19-13
	ess (#)	- W-11	
9CL 083- Dri		1 -	Enter number to left
F		YN	
100010	ntified unted	Y N	
		YN	
1111	own away	YN	
DTS to 4			
RTS point verification:			
I	ginal GRTS point is sampleable		
	ginal GRTS point lands in a non-sa	mpleable area (fill	in category below)
	Point falls in a water (i.e. river, lake		
	Managed mowed area (i.e. golf co Paved area (i.e. parkinglot, road)	urse, picnic area, right-	of-way)
	Unsafe to sample (i.e. steep slope)		
	Other		
ditional Comments:			

CLEVELAND METROPARKS Plant Col	CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet GENERAL INFORMATION LOCATION	d Data Sheet  Page 1 of 2
Plot Name: Unremarkable Meadow Plot No: 1353	Local Place Names: CUNP Headquarter's Landowner: CMP	2.10 2.10 module module #10 #9 #8
Level 4 (no nested corners sampled)  Level 5 (nested corners sampled)  Date (mm/dd/yyyy): 07 / 16 / 2013	Data Confidentiality:  Check one: Public data □ Private Data □ Fuzz 100m □ Fuzz 250m □ Fuzz 500m	#1 #2 2
End date (if > 1 day): / / Party Role**		Diagram Plot origin GPS location O photo taken, location of with direction
A. Lance Plot leader S. Europhich Assistant	Source of coordinates   MAP   GPS  Coord Tisks	any unusual shape details), I ere), and Veg Characteriza
B. Ballard Woody Grew C. DeVono Woody Grew	■ Lav/Long □ UTM □ StatePlane ■ deg □ deg min □ Other (specify) ■ m □ ft □	Layout - 2×2
** Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc.	Datum: ■ NAD83/WGS84 □ NAD27  GPS location in plot x=0 to 5 v==1 0 +1):	Location - Plot is hear the intersection
PLOT NOT SAMPLED:	x = 0 $y = 0$ (base of plot $x=0$ , $y=0$ )  Latitude: $41.2%4/8$	Cimahoga Valley Scenic Railroad.
SAMPLING QUALITY*  Effort Level: subjective evaluation of	<u>e:</u> 81, 57/	Rationale - GRTS
Accurate may still provide good	1333 A	Veg-Characteristics - A meadow plot.
NOMIC	Depth: (1-5):	Canada goldenrod. Other species of
high modera. low not smpl	Intensive modules: \$ \$ \$ \$   234 (EDIT IF MODIFIED)	note included sensitive fern, narrow
3790	Photo Nos.: 473, 475	verich, deer tongue grass, and dogbane.
TAXONOMIC STANDARD	Plot placement: dGRTS   Representative  Random Dansect component	
Authority: G&C Pub Date: 1998  Minimum required fields in Bold and Underlined		A CVS ENA CHILD

roject Label.	rear	rroject name: Ol DV JOL >	^	Flot No.: 1225	1225	Page 2 of 2
MODIFIED NATURESERVE CLASS*		DISTURBANCES	NCES			
CODE (on separate form):	Fit=Conf=	type* sever	severity** yrs ago	yrs ago % of plot	description	
-HU=/		Human				
81-O >		Natural				
COMMUNITY NAME:		Fire			* 6.0°	
		Cut				,
Uld Field - Young	-	Animal	0	10090	brawse	
J		Other				
HOMOGENEITY		**L=low, ML=r	ned low, M=med	. MH=med hi	**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high	
Homogeneous   Compositional tr	□ Compositional trend across the plot	Current Land Use:	ise: Park			
□ Conspicuous inclusions □ Irregular/pattern mosaic	mosaic	Former Land Use:		MM		
	HYDROLOGIC REGIME*					
	Topland (seldom flooded)	□ Intermittently flooded				+()
SALINITY*	□ Intermittently/seasonally saturated	a Semipermanently flooded				
n Saltwater	(seldom flooded)	a Permanently flooded				
□ Brackish	☐ Permanently/Semipermanent, saturated	☐ Tidal/Seiche flooded daily	ily			
□ Fresh	(dry <1/yr, seldom flooded)	☐ Tidal/Seiche flooded monthly	onthly			
D Upland (n/a)	□ Occasionally flooded (<1/yr)	☐ Tidal/Seiche flooded irregular	egular			
	□ Temporarily flooded	(e.g. wind, storms)				
(by default unless plot is a wetland)		□ Unknown				
Additional notes & diagrams: (Representativeness of plot	s of plot to the stand, successional status, maturity, etc.)	naturity, ctc.)				
)						
	A.					

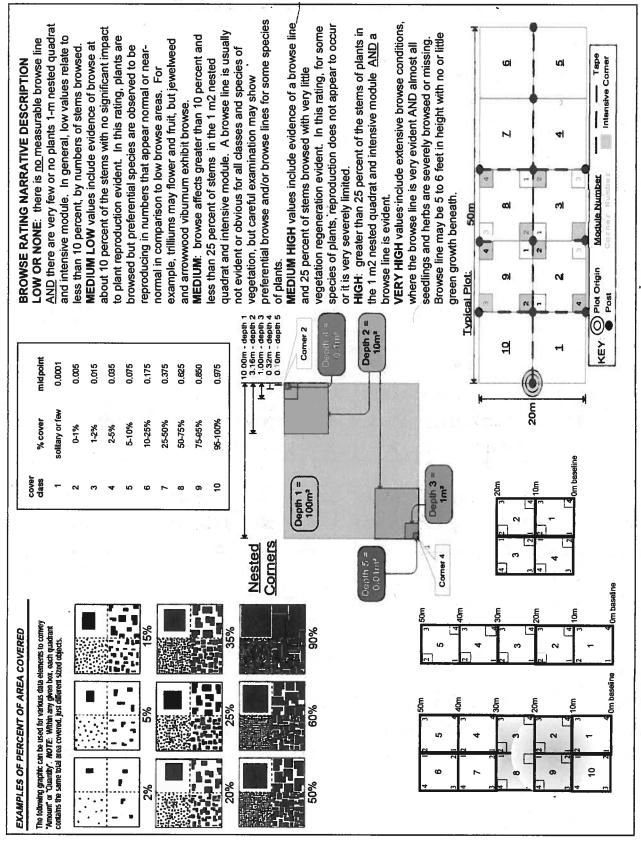
( Clumbundheimpele

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

to see s CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a Strata - Cov. entire plot Total modules: Cleveland Metroparks Project Label: S H (F)(A) Br W 27 Q ٥ 0 Rosa multiflora Kubus so Saturga-Vulgaris Hsteracea # Hstriacea Harostis onicera morrowil ornus sp. oa sp. \* Introuva France are )aucus describe amount of browse per species over tolcus JOHN PHILIPPING oxicatendron Padicians ragaria vicaini ana liburnum dentation licia tetrasperma anicum moclea sensibilis Br = Srowse Level. Use cover classes to HSTER GLER canadensis Carota anatus Species aj aantea entire plot PCAP 2 ¥ %unveg. ground (bare soll) Intensive modules: %unvegetated open water Estimate for each intensive module: %unveg. litter (bare litter 8-11-13 ₹ 25 ACL084 ACL 085 24-47 ACL083 C4-477 Project name: 01 Br 2013 Voucher# 683 + 13-S ىع  $\omega$ S 3 2 9 4 comer となって <u>စာ</u> W 814 **2** 4 cov depth cov | depth Q > Plot configuration: mod. ş depth 2 O) مورو 2 S 0 00 cov | depth cov depth Plot no.: 1333 opĒ S 3 2 なべん 0 2 8 8 depth depth N رر 8 دو 22 ىو cov | depth 0 cov | depth O E 2 ىد Plot area (ha): , 04 ş depth 270 Page 1 of 3 2 ىرو D H 9 cev | depth cov | depth mod o8 ¥8 depth depth mod 70 ş 8

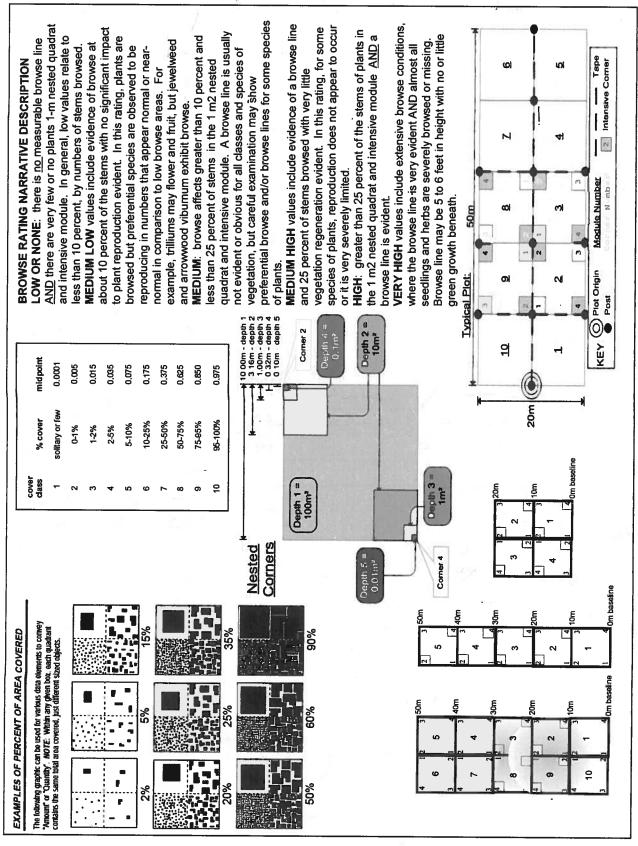
2aCM PCAP Species Cover Data sheet Page 1 of x\_ver 3.xls last revised 5/29/2012 ceh

Natural Resource Management FORM NR/2010-02a



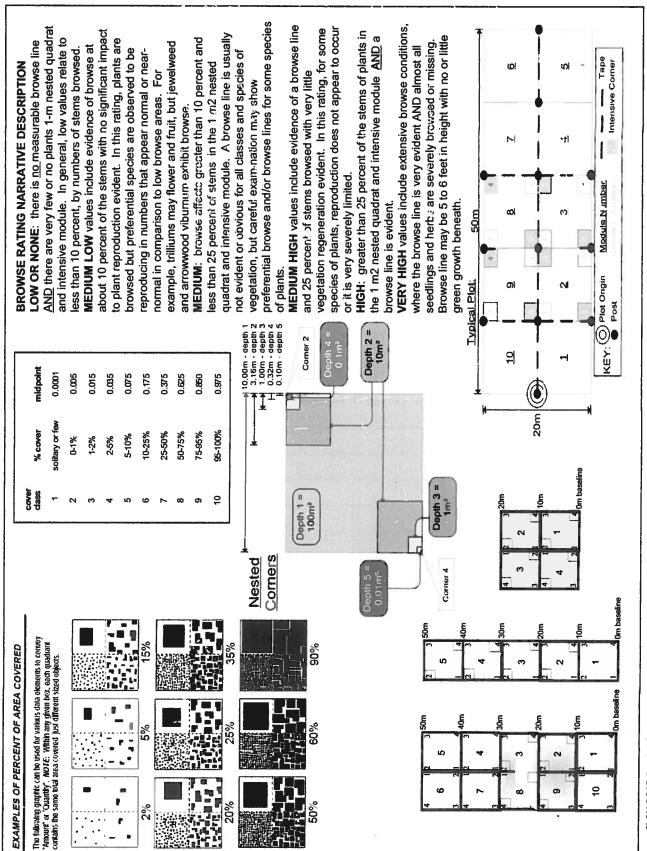
2bCM PCAP Species Cover Data Sheet Back Page\_ver 1.3.ppt

CLEVELAND ME	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a	nent Program Speci	es Cover Data				Page 2	a of 3
Project Label:	7 27	rioject name: Of pr 2013	OI W QUIZ	· 7	FIOL 110.: 1552			
Total modules:	H	Intensive modules:	4 Plot	Plot configuration:	&× X		Plot area (ha):	DY
<b>⊗</b>	Br = Browse Level. Use cover classes to	Estimate for each intensive module:	mod corner mod	cov depth cov depth	mod corner mod	cow depth cov	er mod comer mod	cov depth cov
Cleveland Metroparks	describe amount of browse per species over entire plot	%open water %unvegetated open water		<u></u>				
Strata - Cov. entire plot	ot .	%unveg. ground (bare soil) %unveg. litter (bare litter)		·		-	<u> </u>	
Т   S   H  (F) (A) Вr	Br Species	c Voucher#	depth cov   depth	cov depth cov	depth cov depth		depth cov   depth	h cov depth cov
ور ارو	Eleginus anoustitotion	21-22-1134		<u>_</u>	7.0	15		
	Verbena <p.< td=""><td></td><td><u>ા</u></td><td></td><td></td><td></td><td></td><td></td></p.<>		<u>ા</u>					
	Francisco alnus		<u>ာ</u>	<u>ಖ</u>				
ده		-	೭	22 22 23 23 23 23 23 23 23 23 23 23 23 2	$\omega$			
		2	2 2					
	10 Rubus occidentalis		 دو					
X33	Galium Sp. Con immon	X ACL 086	12		رو تو	32	h	دو
ల్లు	Dipsancus fullonum sax	10-51-13	حو			K	2	
92					نو			
<u></u>	Coronilla varia		5	46	w	4		
رو	Solanum Carolinainse		ىرو					
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رو					هر م			
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<b>(</b> )	76.3							
	M055 sp.		<u>ー</u>					
	Ma-sp-3 Protensis 16-3-18	X ACCORT		ಖ				
	Randaculos Kapus Sucotas	X ALL 1988			نن وي			
ಖ	Parthenocissus quinque folica	Appendia Virginia	ć		82 92		32	
نع	Juneus teguadias in 1200				دو دو	S C C		
S	Apocynum cannabinum				W	W	3 2	
	_			ره				
ಖ	0	X AC1089				es Sec	21	
נפ	_	X ACLO90				દ્વ		



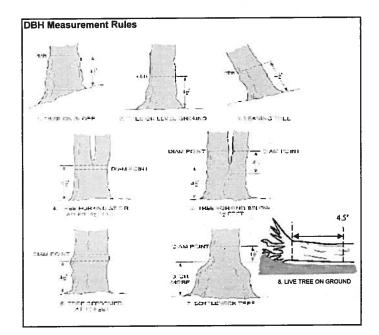
2bCM PCAP Species Cover Data Sheet Back Page\_ver 1.3.ppt

Project Label:	TROPARKS Plant Community Assessn	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a  Project Label: PCAP Project name: (1) B5 2013 Plot no.: 1333
Total modules:	5	Intensive modules: 4 Plot configuration: 2×2 Plot area (ha): 904
Cieweland Cieweland	Br = Browse Level. Use cover classes to describe amount of browse per species over entire plot	Estimate for each    Total   T
Strata - Cov. entire plo		%unveg. litter (bare litter) 1 1 1
Т S H (F)(A) Вг	Species	depth cov depth cov depth cov depth
છ	Crataeson	シ シ シ シ シ
دو	Unknown monocot #1	
23	Fraxinus americana	2)
	Carex Stipada	



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

Project Label: PCAP Project Name: () (& 20   3 Plot No.		Project	Name:	Project Name: ()	2013	rem Dai	la Sheel	Plot No : 133 2	Ŋ	)	_	,	(A) Clevel	Oleveland Metroparks
Explain subsample (additional room on back):						1	8	7	20	9		9	-	>( <b>*</b> €)
mod #		% sub or super		ze class (	size class (cm) woody stems >1.4m	y stems >	.4m	5	<b>6</b>	7	œ		5	
1 Rosa multiflora	I		6			1	9		25 - 67	52> - 02	25 - <30	30 - <35	35 - <40	>40 (record each tr
1 Lonicer morrowii			14											
1 Rubus sp.	X.													
1 Rubus allegacia estatis	P													
2 KNOWS SP	1:													
	7.													
C Vibunumcen atom	•				_								100	
3 Lonicera mocrowit	×	- 0	-											
	Ø.		_											
Kaski	п :													
3 Elecagnus umballata	X					_								
Madina							•							
7 ROSE MUITHORY	п				_									
Lonicen		•												
4 Kulous Sp	7		_	_										
			-						_					
-			-											
													_	
									The second secon					



## **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.
- 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

С

D

Ε

# 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.

Tier 1: Early detection	/ Rapid response		Pr	esenc	е	GPS	
		NE	SE	sw	NW		Presenc
Microstegium vimineum	Japanese stiltgrass						X: yes
Ranunculus ficaria	Lesser Celandine	$\top$					1 700
Cynanchum louiseae (vine)	Black Swallow-wort						
Butomus umbellatus (wetland	) Flowering Rush						-
Heracleum mantegazzianum	Giant Hogweed						
Tier 2: Assess a	is Needed		#0	f Plan	ts	comments	
		NE	SE	sw	NW		# of Plan
Acer platanoides	Norway Maple	-					1: 1-10
Ailanthus altissima	Tree of Heaven	1					2: 11-50
Lonicera japonica (vine)	Japanese Honeysuckle						3: 51-10
Lythrum salicaria (wetland)	Purple Loosestrife						4: 101-1
	Bishop's Goutweed			$\top$	1		5: >1,0
Celastrus orbiculatus (vine)	1	1			_		3. 71,0
Torilis sp.	Hedgeparsley		1	+-	1		1
Conium maculatum	Poison Hemlock	1	+	+-			1
Rhamnus cathartica	Common Buckthorn (shrub)	1	+-	+	+		
Berberis thunbergii	Japanese Barberry (shrub)	_	+	+	+		1
Alnus glutinosa	European Alder	+	+-	+			1
Dipsacus laciniatus	Cut-leaf Teasel	+-	+-	+-	+-		1
Elaeagnus umbellata		B.	+	-	-		1
Lonicera maackii	Autumn Olive (shrub)	1	+-	12	2		1
	Amur-Honeysuckle (shrub)	-					
Euonymus fortunei	Wintercreeper						
Tier 3: Presence is	of Interest			Plant	S	comments	
		NE	SE	SW	NW		# of Plan
	Lily of the Valley	<u> </u>					1: 1-10
	Crown Vetch	4	3	3	3	mingh as smill parties	2: 11-50
Eleutherococcus pentaphyllus	Five-leaf Aralia (shrub)		$oldsymbol{ol}}}}}}}}}}}}}}}}}$			0	3: 51-10
	Japanese Pachysandra		<u> </u>				4: 101-1,0
Philadelphus coronarius	Mock Orange (shrub)						5: >1,00
	Lungwort						
Rubus phoenicolasius	Wineberry						
	Yellow Flag Iris						
Ornithogalum umbellatum	Star of Bethlehem						
Viburnum opulus var. opulus	European Cranberry (shrub)						
/iburnum plicatum	Doublefile Viburnum (shrub)						
Tier 4: Widespread a			Pre	sence		comments	
		NE	SE	sw	NW	equilient2	# of Plant
Alliaria petiolata	Garlic Mustard	-	† <u> </u>	1344	1444		
igustrum vulgare	Common Privet (shrub)	_		<del>                                     </del>			1: 1-10
morrowii, L. tatarica	Bush Honeysuckles (shrub)	<u>3</u> 2	1	+-			2: 11-50.
	Reed Canarygrass	5	5	┼	5		3: 51-100
	Phragmites	2	12	<del>                                     </del>	التا		4: 101-1,0
	Japanese Knotweed		-	-			5: >1,00
			<del>                                     </del>	-			
	Glossy Buckthorn (shrub)	A	2	5			
	Multiflora Rose (shrub)	4	2	3	3		
	Cattails (wetland)		<u> </u>	<del> </del>	5		
irsium arvense	Canada thistle				8		
	Common Teasel	3		2			
				I	ıΤ		
	Dame's Rocket Periwinkle						

Project Label: PCAP	VELAND METROPARKS Plan
P Project Name: 0 2 2013	ant Community Assessment Program - Plant Cover and Earth Surface

Plot No.: 1333

@Gleveland Metroparks Page: 1 of 1

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. C'i=check when collected	uired for emergen from corners I and score calculation. C	wetland in each	is): collected intensive when
Module #	C7	Corner Corner	Comer
85			

CLASSIFICATION		
(FIT = excellent, g Fit and Confidence		
Hydrogeomorphic class (WETLANDS ONLY):		
DEPRESSION	1	Conf
□ IMPOUNDMENT □ Beaver □ Human	7	Conf=
DRIVERINE DHeadwater DMainstern DChannel	F	Conf=
□ SLOPE (ground water hydrology or on a physical slop)	Film	Conf=
□ FRINGING □ Reservoir □ Natural Lake	7	Conf=
a COASTAL (specify subclass)	F	Conf
n BOG (strongly, moderately, weekly ombrotrophic)	Fit=	Conf=
Obio EPA VIBI Plant Community Class (WETLANDS ONLY):	N'TY	
a FOREST a swamp forest a bog forest a forest seep	F	Conf
a EMERGENT a marsh a wet meadow a open bog	7	Conf
□ SHRUB □ shrub swamp □ tall sh. bog □ tall sh. fen	Fit=	Conf

+135 degrees

SE

+45 degrees +90 degrees

Ä

horizon. TSI is angles formed by local slopes. For TSI measure

LFI is angle of plot to the

At aspect

+180 degree: +225 degrees +270 degrees

WS

eye of person

angle from

# MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

Slope 1 = slight elevational grade across module (hill) tanks for microhabitat features. Select one or select two and average the score.NOTE: If mod falls on a slope automatically gets ranked based on steepness (1-3) to begin + any features present Slope 2 = falls on slope ~20° Slope 3 = maximum steepness that can be safely sampled ~45°

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

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

			4	W	2		mod#						
							corner						
			6	ð	Ø	9	(comt)	lxlm	depth 3		tussocks	no. of	
			0	9	0	Q	(count)	3.16x3.16m	depth 2	uplands (Tip-Ups)	hummocks	no of	
			Ø	3	Ø	Ø	(count)	10x10m	depth I		depressions	no, macro,	
					0	Q	(count)	10×10m	depth I		(2-12 cm)	ew.d	
- 70	5		0	G7	0	Ø	(count)	10x10m	depth 1		(12-40cm)	c.w.d	
			Ø	D	Di Di	Ø.	(count)	10×10m	depth I		>40 cm	c.w.d	
			7	(-7		L	(rank)	10x10m	depth 1		interspers.	microhab.	
		J	9	8	Ø	0	(rank)	W01X01	SLOPE			microhab	

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

Landform Index (position within landscape) Terrain Shape Index (site microtopographic shape)

+315 degrees

Z

F

away.

standing -10 m

CROWN COVER (DENSIOMETER) Make 4 readings per module facing N. S. F., W. Place dot count corresponding space. (4 dots per gird square)

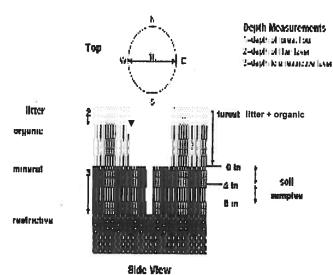
4	3 *	2 *	*	Module
96	97	46	9).	2
34	96	56	96	s
96	900	96	96	e
96	96	96	96	\$

## **COVER BY STRATA**

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

"Very tall shrubs are sometimes included in the tree stratum

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



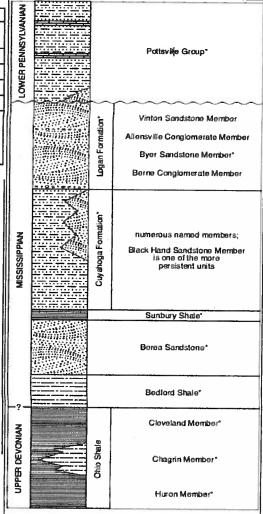


FIGURE 3-20.—Generalized section of Upper Devoman, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio Asteriaks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Waverly" is used in the older literature to refer to Mississippian rocks in Ohio Some geologists use the European term "Carboniferous which encompasses the Mississippian and Pennsylvanian Periods of the U.S. Many units have been named within the Cuyahoga Formation, but most units are local and cannot be traced over great distance. The Black Hand Member 1s a spectacular massive sandstone that is fairly undespread but discontinuous. See Hyde (1953), Hoover (1960) and Colins 1978) for more information on Mississippian rocks in Ohio See figure 3-18 for explanation of rock types.

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

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

Project label: PCAP Project Names 21 56 2013

Plot No.: 1333

Citoreland 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 #\_\_\_ 20 cm matrix color 5 cm matrix color 10UR 4/2 hydro. cond. \*\*\* hydr cond \*\*\* texture\* oxid roots redox features\*\* oxid roots mottle. exture\* edox features\*\* mottle ottle color ottle color \_ (one per entire plot) 3 202 I S(M)D 1 S (M )D |z|z

refer to texture classes on reverse side

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

castings, middens)

nore found

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

Soil Collection Moduld Horizon (A, B, C)  2,3,8,9 composited A
Web Soil Survey Information:
Soil Series Type: Ch - Chagrin Silt ( ban
Soil Series Source: Ohio Soil Survey
Landform type: Flood plains
Depth to rest. Layer: More than 30 "
Parent Material: Alluvidan
DRAINAGE*

□ Excessively dr Somewhat poorly dr. Well drained Impermeable surface Somewhat excessively Moderately well dr. Very poorly dr

SI-61-13

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

		3.		
4.	3	2	-	mod#
0 8	3.0	2.5	2.0	l litter+ organic depth (cm)
05	3.0	25	20	2 litter depth (cm)
0	0	0	0	water depth (cm)
2ح	230	230	230	depth sat soil (cm)

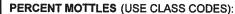
EARTH SURFACE & GROUND COVER	CE & GROUP	D COVER	
Underlying Earth Surface*	h Surface*	Ground Cover	
(Sum = 100%)	percent	(Euch ≤ 100%)	percent
Histosol	0%	Coarse Woody Debris***	0%
Mineral Soil	100%	1009 6 Fine Woody Debris****	120
Gravel-Cobble*	8%	Litter	0%
Boulder**	020	Duff (Ferm + Humus)	0%
Bedrock	0%	Bryophyte- Lichen	1%
* Gravel-Cobble = 1/16-10"	= 1/16-10"	Water	S S
**Boulder => 10 in	5	Bare Soil	0%
*** >5 cm in diameter	neter	Road/Trail	52
**** <5 cm in diameter	ımeter	Other	<u>ر</u> ا

COVER BY STRATA estimate using midpol	COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13	,ex:3, 8, 13
Strata	Height Range (m)	Total Cover (%)
Tree	5 -	0%
Shrub	1-5	87.
 Herb	0.1	10090
(Floating)*	-	
 (Aquatic)*	•	
 • noted and fig	° rooted and floating or slightly emersed	sed
 •• submersed,	** submersed, most plant mass below surface	w surface
SEE BACK OF	SEE BACK OF PAGE FOR TYPICAL STRATA	L'STRATA

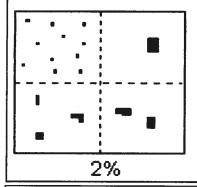
□ Deer	□ Gravel	☐ Bootleg unsanctioned	<ul> <li>Hiking sanctioned</li> </ul>	□ Bridle	□ All Purpose	Type NOWE	record type and cover for each	TRAIL INFORMATION:
						%Cover	ach	

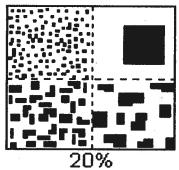
STAND SIZE  > 600 x plot size  > 100 x plot size  10-100 x plot size  3-10 x plot size  1-3 x plot size  - 1-3 x plot size
--

DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.



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





Terraces

risa

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

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

Position

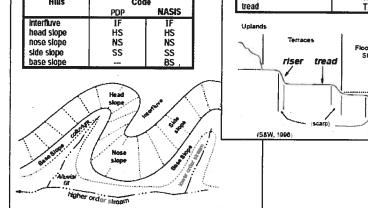
summit

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

Code

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

Hille



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

SU

	snoulder backslope footslope toeslope	BS FS TS		
-	Su Sh Bs	Fs 55 75 75	Sh \$	St.

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.

Code

RI

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.

Site ID:   Coation:   OAA Center ON	Flag
Coatlon: O AA Center O N	Flag
Buffer Natural Cover Strata   Section: Fill in pubbles for all that apply. Canopy Type: D = Deciduous; E = Evergreen. Leaf Type: B = Broadlack N = Needle Leaf. Absent: No tree canopy. Strata Section: Fill in appropriate cover class bubble for each strata byte of each plot 0 - Absent: 1 - Spanser(10%); 2 - Medicartal(10-40%); 3 - Heavy (40-75%); 4 = Very Heavy He	Flag
Fill in bubbles for all that apply. Canceyr Type:	Flag
Buffer	Flag
Plot 1	Flag
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Small Trees (<0.3m DBH)	
Woody Shrubs, Sapilings   O	
(0.5m-5m HiGH)	
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Bare ground	
Rock	)
Water ○ ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	)
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Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this bubble.  Residential and Urban Stressors  Hydrology Stressors  Agricultural & Rural Stressors  Fill bubble If present - Plot 1 2 3 Flag Fill bubb	€
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 Road - gravel 0 0 0 Ditches, Channelization 0 0 0 Pasture/Hay 0 0 0 Road - two lane 0 0 0 Dike/Dam/Road/RR Bed (MPEDE FLOW) 0 0 Range 0 0 0 0 Range 0 0 0 0 Parking Lot/Pavement 0 0 0 Excavation, Dredging 0 0 0 Row Crops 0 0 0 Parking Lot/Pavement 0 0 0 Excavation, Dredging 0 0 0 Fallow Field (RECENT-RESTING ROW CROP FIELD) Freshly Deposited Sediment (UNN/EGETATED) Nursery 0 0 0 0 Dairy 0 0 Dairy 0 0 Dairy 0 0 Dairy 0 0 Damping 0 0 0 Row Crops 0 0 0 Dairy 0 0 0 Dairy 0 0 0 Damping 0 0 0 Row Crops 0 0 0 Dairy 0 0 0 Damping 0 0 0 0 Row Crops 0 0 0 Damping 0 0 0 0 Row Crops 0 0 0 Dairy 0 0 0 Damping 0 0 0 0 Row Crops 0 0 0 Dairy 0 0 0 0 Damping 0 0 0 0 Row Crops 0 0 0 0 Row Crops 0 0 0 0 Dairy 0 0 0 0 Dairy 0 0 0 0 Damping 0 0 0 0 Row Crops 0 0 0 0 Row Crops 0 0 0 0 0 Damping 0 0 0 0 Row Crops 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
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Road - two lane	Flag
Road - four lane	
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Lawn/Park         O O O         Freshly Deposited Sediment (UNVEGETATED)         O O O Nursery         O O O O O O O O O O O O O O O O O O O	
Suburban Residential O O O Soil Loss/Root Exposure O O O Dairy O O O O Urban/Multifamily O O O Urban/M	
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(OVERALL STHIGH) O O O OR OVERUSE)	, ,
Other: OOO Canopy OOO Other: OOO	<b> </b>
Other: OOO Recently Burned Grassland OOO Other: OOO	

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

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

Buffer Sample Plots 05/27/2011

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Road - fou	ır lane			0	0	0		Water Lev	-	ol Stru	cture	0	0	0		Row Crops			0	0	
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Golf Cours	se	Bil.		0	0	0		Fill/Spoil E				0	0	0		Fallow Field (OLD - GRASS, SHRUBS, TREES)			0	0	
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Mine (surf	ace)			0	0	0		Tree Planta		1148	4	0	0	0		Trails		0	0	0	
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Gas Wells				0	0	0		Forest Sele	ctive Cut			0	0	0		Mowing/Shr	rub Cutting	0	0	0	
Mine (surfa	ace)	III SA		0	0	0		Tree Planta	tion			0	0	0		Trails		0	0	0	
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Stress	or Pres	sence	e/Ab	senc	e - (	Confi	m that	a filled data	bubble i	ndica	tes p	resen	e and	d an	unfilled	bubble indi	cates abse	nce b	y filling	this	oubble	
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Fill bubble	If prese	ent - I	Plot	1	2	3	Flag	Fili bubbi	e If prese	ent - I	Plot	1	2	3	Fiag	FIII bubble	e If presen	t - PI	ot 1	- 1	3	Flag
Road - gra	vel	St.		0	0	0		Ditches, C				0	0	0		Pasture/Ha	ay			_		
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Road - fou	ır lane		-41	0	0	0		Water Lev	el Contro	Stru	icture	-	0	0		Row Crops				$\rightarrow$	) C	_
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						_				54.5						y each field c						

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

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

Buffer Sample Plots 05/27/2011

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0	0	0	Common Buckthom		0	0	0	Perennial Pepperweed	0	0	0		s2 Insi
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Residential and Orban stressors	Stress	sor Pre	senc	e/Ab	send	e - C	Confi	rm that	a filled data	bubble i	indica	ates pr	resence	e and	an u	nfilled	bubble Ind	licates absence by filli	ng this	bubb	le.	9
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Road - gravel	Fiil bubbl	e if pres	ent -	Plot	1	2	3	Flag	Fill bubbl	e If pres	ent -	Plot	1	2	3	Flag	Fill bubb	le if present - Plot	1	2	3	Flag
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Parking Lot/Pavement	Road - fo	our lane	N SV		1	-	0		The second of the last of the		ol Sti	ructure	0	0	0				_	0	$\rightarrow$	_
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Other:  Other:  Other:  Other:  Flag codes: K = No measurement made, U = Suspect measurement, F1,F2, etc. = misc. flags assigned by each field crew.  Explain all flags in comment section on the back of this form  2428168304	Other:				1		4	do II =	Sucnect me	euremen	t. F1	.F2. at	c. = mis	c. flac	is ass	igned	by each fiel	d crew.	2016	830	4	

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