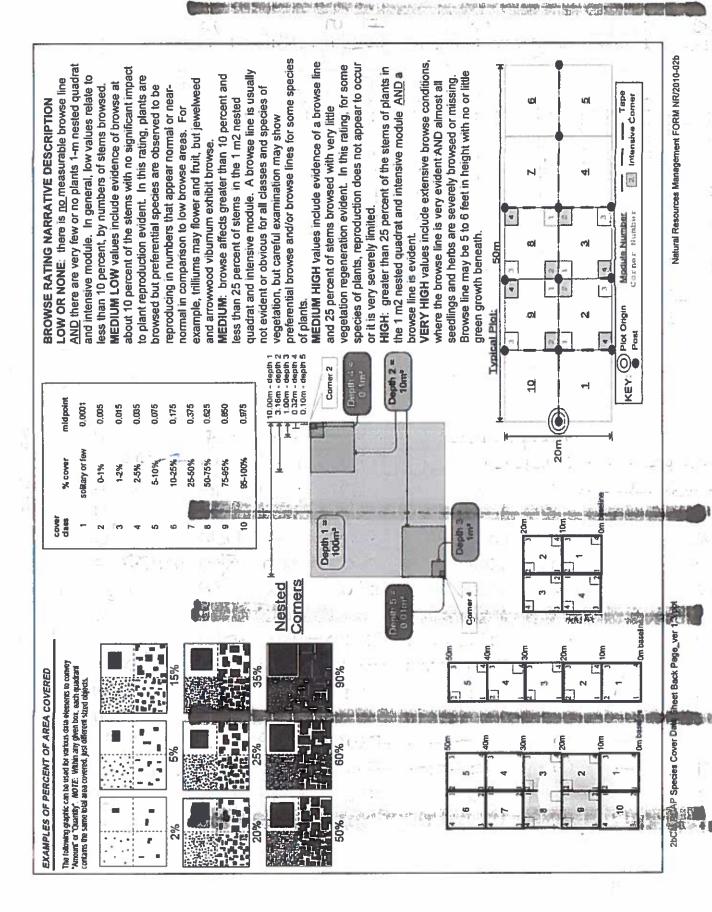
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CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	mmunity Assessment	Program - Backgroun	d Data Sheet		(A)Churl	(Charlemitteingente
Project Label:	el: PCAP	Project Name:	Project Name: 025C2015	Plot No.:	Plot No.: 1080	Page 2 of 2
MODIFIED NATURESERVE CLASS*			DISTURBANCES			
CODE (on separate form):	Fit=Conf=		type* severity**	yrs ago % of plot	description	
G			Human M	0 100%	trash, plantings	5.5
2	14		Natural	d -		
COMMUNITY NAME:		**	Fire			
Mixed Forest		i ii ka	Cut	7 /065	ham 50	
			Other	.,	- Annin	
HOMOGENEITY	4		**L=low, ML=med low.	M=mcd, MH=med	**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high	
	Compositional trend across the plot		Current Land Use: A	PARK		
Conspicuous inclusions a Irregular/pattern mosaic	tm mosaic		Former Land Use: 6	UNKNOWN (AGRICULTURE O	2
	HYDROLOGIC REGIME*	GIME*			,	
	□ Upłand (seldom flooded)		a Intermittently flooded			
SALINITY*	Intermittently/scasonally saturated		□ Semipermanently flooded			
o Saltwater	(seldom flooded)	o Perma	n Permanently flooded			
o Brackish	□ Permanently/Semipermanent, saturated		□ Tidal/Sciche flooded daily			
o Fresh	(dry <1/yr, seldom flooded)		☐ Tidal/Seiche flooded monthly			
adpland (n/a)	□ Occasionally flooded (<1/yr)		□ Tidal/Seiche flooded irregular	- 1		
	a Temporarily flooded	(c.g.	(e.g. wind, storms)			
(by default unless plot is a wetland)		□ Unknown	JWn.			
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.) [] Shuped herbaceaus commenty fucludes	eness of plot to the stand, succe	essional status, maturity, etc.	des	lots of jump seed,	pseed, avens	15,
goldenrod, and a host		or species commo	ر	s hw bed	areas.	
Plot 1s surrounded by	l by wet areas	reas.	<i>Y</i> :			
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CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a Strata - Cov. entire plot Cleveland Matroparks Total modules: Project Label: <u>رر</u> ع S H (F)(A) Br CURU حو 0 9 Rosa multiflore ,0 9 MAXIAUS DEASY/VANICA solidaço canadersión Geum canadense Johnson Misintenum hungla vugais Khamnus tranquia doustrum vulgar Oxalis stricta Br = Browse Level. Use cover classes to describe amount of browse per species over marana Modalans oxicodendron rodicans onicera ornus so. FrayInus Sp. yearia smeate acthunocissus applaquetal Muercus AKAOUM gurdamber styracit ibuighulan apudius vor. 1.81 Sp não anundinace as S Y TO S OLIVE Species entire plot dico+ Symplex 9 റ Intensive modules: %unveg. ground (bare soil) Estimate for each %unvegetated open water intensive module: %unveg, litter (bare litter Project name: U25C2015 Voucher# %open water comer mod 900 رو Plot configuration: Ş ğ Plot no.: | 080 SXE mod 2 Natural Resource VGS 8 0 Q mod Plot area (ha): ş hagement FORM NR/2 Page دو comer mod 2 2 2 8 0-02a depth depth mod æ ş 8

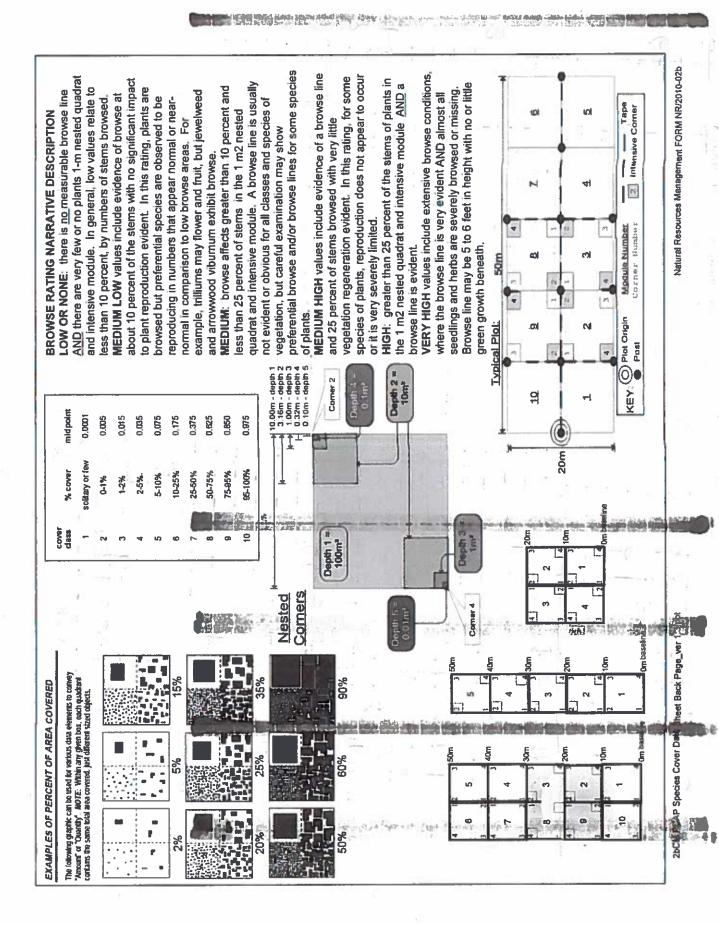
2aCM PCAP Species Cover Data sheet Page 1 of x_ver 3.xls last revised 6/29/2012 ceh



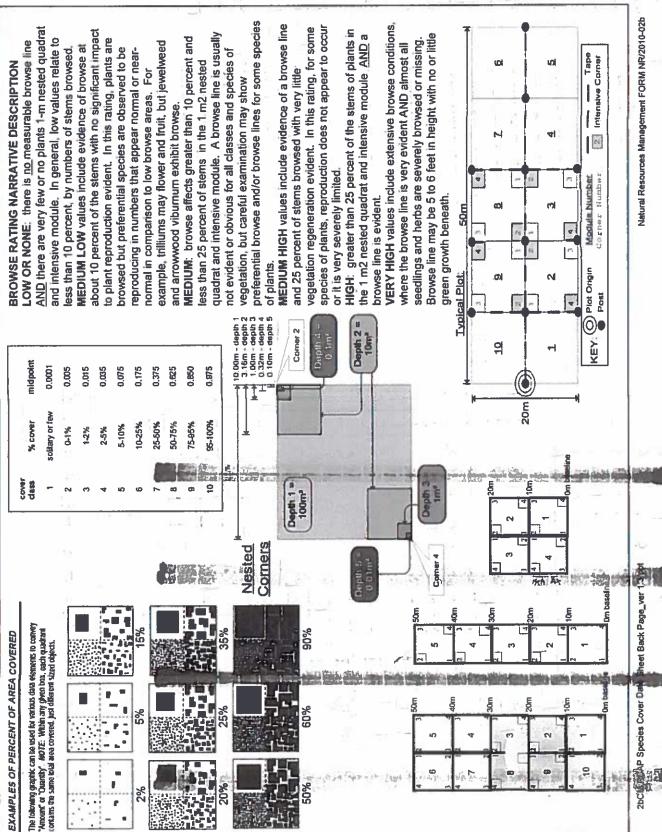
Project Label:	ETROPARKS Plant Community Assessn PCAP	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a Project Label: PCAP Project name: OR SCROLL Plot no.: 1080	Page of 3
Total modules:	10	Intensive modules: 4 Plot configuration: 2×5	Plot area (ha):
છ	The state of the s	Solution 1	mod corner mod corner mod
-	Br = Browse Level. Use cover classes to	depth cov depth cov depth cov depth cov depth	ON GOOD ON GOOD ON
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	6 Vits Moana	<u>-</u>	2
نو	Mbss 50.	رتع	22
93	Drupolens carthuston	(28)	
१ऽ	1	ACLAIS 1 9 2 3	9.
೪	8 Rubus occidentalis	9.0	
93	Leevs a virginica	2	2
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	Agrimonia pubescens	9-2	
22	PRUNUS SERANA		7 7
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2aCM PCAP Species Cover Data sheet Page 1 of x_ver 3.xls last revised 5/29/2012 cah

Natural Resource Junagement FORM NRV 0-028

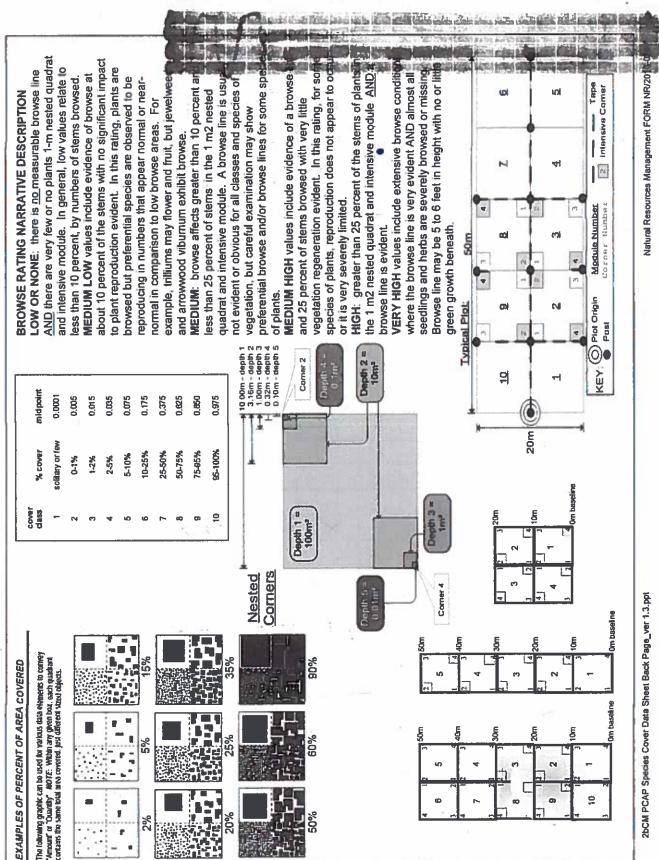


Project Label:	PCAP	Project Label: PCAP Project name: 025 C2015	<u>Dascaois</u>	Plot no.:	1080	k	· ·
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Sirata - Cov. entire plot	entire plot	%unvegetated open water %unveg, ground (bare soil) %unveg, litter (bare litter)					
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2aCM PCAP Species	Ö	d 5/29/2012 ceh			Natural Resource	nagement FORM NR/2	0-02a



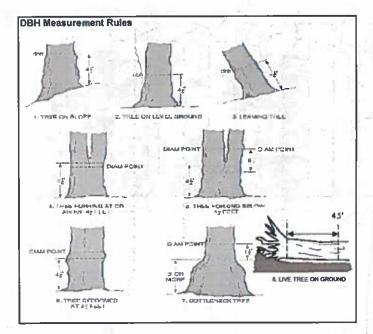
Natural Resources Management FORM NR/2010-02b

CLEVELAND MET Project Label:	Project Label: PCAP Project name: 03503015	nent Program Spec	rogram Species Cover Data S Project name: <u>0みScみの</u> IS		Plot no.: 1080		Page	L of	-
Total modules:	10	Intensive modules:	4	Plot configuration:	1: 2×5		Plot area (ha):	-	
Cleveland	Br = Browse Level. Use cover classes to describe amount of browse per species over entire plot	Estimate for each intensive module: %open water %unvegetated open water %unveg. ground (bare soil)	red corner mod depth fr 1 and depth	d corner med corner th corr depth corr 1	med comer	mod carner mod corner depth cov depth cov	cov depth cov depth	CON	R R R depth cov
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2bCM PCAP Species Cover Data Sheet Back Page_ver 1.3.ppt

	CLE	CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Project Label: PCAP Project Name: OX STON Plot No.: Explain subsample (additional morn on back):	PCAP	Assessi	Project	gram N	latural V	nt Program Natural Woody S	Stem Da	ta Sheet Plot No.: 1555	100		Page:	age: 1 of		U.S.	Somereland Metropairs
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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.
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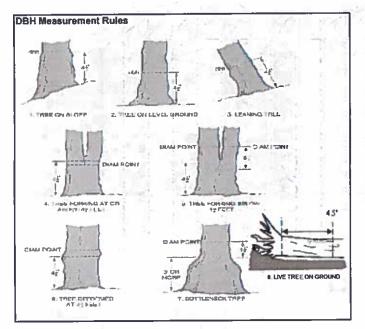
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ASH CANOPY BREAKUP CONDITION (for dead trees):

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Project Label: PCAP Project Name: OZS ZOX Plot No.:]	l: PCAP	P	Project	Project Name:	O Samai	775	7	Plot No.: 10	CAROL		Page	Page:	9	Scienciand Metroparks	and Metrop
Explain subsample (additional room on back):	on back):							H		:			Ħ		
\	=	# stems 0-1.4m	% sub	# #	ize class	size class (cm) woody stems >1.4m	ly stems >	1.4m	5	•	1	•	9	10	
mod grand species	c voucher#	her# browsed	sample	clumps	2	1-<2.5	2.5-<6	5-<10	10 - <15	15 - <20	20 - <25	25 - <30	30 - <35	35 - <40	>40 (record each tr
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Record using the tally system from 1 to













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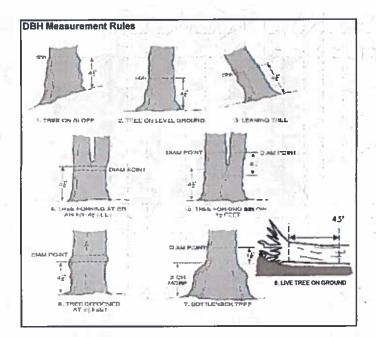
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Project Label: PCAP	ľ	Project Name	Name	3	6		Tot No.	(10		, age	9		
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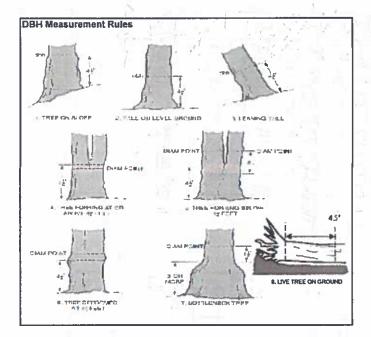
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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Explain subsample (additional room on back): SAN SIGNA Almos from でいているなから ANDINGRA THE PRINCIPLE HORMON ASSUM VIOLE NS Zondia as aircents SO TUTTERS ASTATION OF Project Label: MITHUR 135.ES THE WAIT 1200 PCAP youcher# XY a S 区。 00 00 区 Z 図 1 perward 0-1.4m 00 9 sterns 卤 . or super dns % Project Name: OZ SCZO/S clumps M × 9.0 shrub 6 # size class (cm) woody stems >1.4m 2 . 1-<2.5 0 Ġ 2.5-45 Plot No.: 1080 0 0 5-<10 • 8 0 10-<15 15 - <20 • 0 χ̈́ 20 -<25 Page: 4 25 - <30 30 - <35 앜 Sieveland Neboparks 35 - <40 ő प्व.9 >40 (record each tree) 13,2 = 53.2



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













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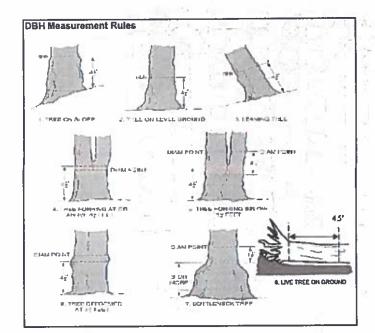
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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Explain subsample (additional room on back): STANDING A CHANGING THE DICOCHOLISTIC A CONTRACTOR iousium vuotile はなくで S S S S CONT Project Label: CONTESTANTA ON SANZING DAMINZOCE DO PCAP voucher# 6 00 Ħ plowsed 0-1.4m # sterns 0 00 or super % sub Project Name: 02300 ... 31 shrub # size class (cm) woody stems >1.4m 4 7 1-42.5 • 0 0 0 2.5-45 • Plot No.: 1580 9 0 6 5-<10 0 Q × 10-<15 € 0 15-<20 9 20 - <25 0 . Page 25 - < 30 0 30 - <35 잌 φ Cizycland Metroparks 35 - <40 ٠ 5 >40 (record each tree) =



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* 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)

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detection/	Rapid response	12	Pre	sence	4	GPS .	1
		NE	SE	sw	NW		Presence
Microstegium vimineum	Japanese stiltgrass				*1	71 _ 1100	X: yes
Ranunculus ficaria	Lesser Celandine		ų		ii.		1 (
	Black Swallow-wort	-	3			* *	7
	Flowering Rush	+-		Ш		F1	┪
Heracleum mantegazzianum	Giant Hogweed		-	+			\dashv
Tier 2: Assess a			# 06	Plants		comments	in .
i ler 2: Assess a	5 Meeded	NE	SE	SW	NW	collitistira	# of Plants
	Int	NE)SE	244	INV		
Acer platanoides	Norway Maple			1 1 1 1 1	\vdash	4	_
Ailanthus altissima	Tree of Heaven		1,27		-		2: 11-50.
	Japanese Honeysuckle	-	-	-	\vdash		3: 51-100
	Purple Loosestrife	-		-	\vdash		4: 101-1,00
	Bishop's Goutweed	4	4				5: >1,000
Celastrus orbiculatus (vine)	Asian Bittersweet	_			4.6	<u> </u>	_
Torilis sp.	Hedgeparsley		-	10.	-		4
Conium maculatum	Poison Hemlock	1	100	5)		,	_
Rhamnus cathartica	Common Buckthorn (shru	b)					┙
Berberis thunbergii	Japanese Barberry (shru	b)					┙
Alnus glutinosa	European Alder						
Dipsacus laciniatus	Cut-leaf Teasel		7				
Elaeagnus umbellata	Autumn Olive (shru	b)	7				7
Lonicera maackii	Amur Honeysuckle (shru						7
Euonymus fortunei	Wintercreeper						7
Tier 3: Presence is			# of	Plants		comments	10
		NE	SE	sw	NW		# of Plants
Convallaria majalis (G-cover)	Lily of the Valley	1.10					1: 1-10
Coronilla varia (G-cover)		\top	+	 			2: 11-50.
Eleutherococcus pentaphyllus	Five-leaf Aralia (shru	hì	+	1			3: 51-100
	Japanese Pachysandra	-	_		1		4: 101-1,00
Philadelphus coronarius	Mock Orange (shru	h)		+			5: >1,000
		U)	+	+	-	****	3. >1,000
	Lungwort	+	-	+-	-		┪
Rubus phoenicolasius	Wineberry	-	+-	+	-	·····	_
	Yellow Flag Iris	_	+		\vdash		_
Ornithogalum umbellatum	Star of Bethlehem	_	+	+	 -		-
Viburnum opulus var. opulus	European Cranberry (shru	_	—	+	\vdash		-
Viburnum plicatum	Doublefile Viburnum (shru	b)			\Box		_
Tier 4: Widespread	and abundant	100		sence	0.0	comments	
		NE	SE	SW	NW		# of Plants
Alliaria petiolata	Garlic Mustard			<u> </u>	$\perp \perp$		1: 1-10
Ligustrum vulgare	Common Privet (shrui)				<u></u> .	2: 11-50.
L. morrowii, L. tatarica	Bush Honeysuckles (shru	b)					3: 51-100
Phalaris arundinacea	Reed Canarygrass				I = I		4: 101-1,00
Phragmites australis (wetland)	Phragmites						5: >1,000
Polygonum cuspidatum	Japanese Knotweed						7
Frangula alnus	Glossy Buckthorn (shruk)					7
Rosa multiflora	Multiflora Rose (shrul						7
Typha angustifolia, T. x.glauca	Cattails (wetland)				\vdash		7
Cirsium arvense	Canada thistle	\dashv	_		 		7
Dipsacus fullonum	Common Teasel	_	_		 		7
	Dame's Rocket	+	+	-	+		\dashv
Hesperis matronalis		+	+	+	+ +	···	-
Vinca minor (G-cover)	Periwinkle	ı			1		

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

CLE	CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Sheel Project Label: PCAP Project Name: CONTON Plot No.: 1	Communit	PCAP	nt Program I Project	Name:	ogram Forest Pest and Pathog Project Name: (XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	hogens D	Plot No.:	8	-	Pag	Claveland Metroparks Page: \ of
].			#	size class (cm) woody stems >1m) woody sten	15 > 1 m			2	2	20	77
mod #	species	voucher#	shrub	아스 -	2 1-<2.5 2.5	3 4 2.5-<5 5-<10			5 6 10 - <15 15 - <20 2			7 20 - <25 25
	SXLXON	7	E									
2												
ω		+										
4												
Ch		el	×									
o												
7												
œ												
9												
5												
		1 1	*									

* IF EVIDENCE OF PEST OR PATHOGEN RECORD TOTAL SPECIES POPULATION IN THE PLOT EVEN THE NOT INFECTED

Strata	of stem	Severity (H,M, or L)	* Write None Present if no evidence:	
Tree (size class 3 or above)			MONC Beech (Fungus)	Asian Longhorned Beetle
Shrub (size class 2 or below including shrub clumps)				Other Pest or Pathogen
			Malnut (Thousand Canker)	
Severity				
High = more than 50% of leaf/needle cover exhibiting symptoms	edle cove	er exhibiting sympt	ns	
Medium = Less than 50% of leaffneedle cover exhibiting symptoms	f/needle c	over exhibiting syn	btoms	
Low = Only a few leaves or branches are exhibiting symptoms	ches are	exhibiting symptor		

STANDING BIOMASS (required for emergent wedands) collected no.1m clip plot (32x32 cm) from corpers 1 and 3 in each intensive	LEVELAND METROPARKS Plant Comm
rdands); collected each intensive	CLEVELAND METROPARKS Plant Community Assessment Propagm - Plant Cover and Earth Surface Project Label: PCAP Project Name 25

Plot No.: NOXO

Oleveland Metroparts Page: 1 of 1

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

TEL

TSI**

collected odule. Required for VIBI-E score calculation. C?=check when C3

CLASSIFICATION		
(FIT = excellent g Fit and Confidence		
Hydrogeomershic class (WETLANDS ONLY):		
a DEPRESSION	1	Conf.
a IMPOUNDMENT a Beaver a Human	F 1	Conf=
a RIVERINE a Heidwater a Mainstern a Channel	71 	Conf=
C SLOPE (ground water hydrology or on a physical slope	100 E	Confi
o FRINGING o Reservoir o Natural Lake	7	Conf-
a COASTAL (specify subclass)	Ti I	Conf=
a BOG (strongly, moderately, weekly ombrotrophic)	File	Conf-
Only EPA VIBI Plant Community Class (WETLANDS ONLY):	ACTINI TO	
a FOREST a swamp forest a bog forest a forest seep	F 	Conf*
a EMERGENT a marsh a wel mendow a open bag	77	Conf-
a SHRUB a shrub swamp a tall sh. bog a tall sh. fen	Fir=	Conf=

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

ispe 1 = sight elevational grade across module (hij) with for microhabital features. Selections on extend two and everage the score.NOTE: If mod fals on a slope automatically gets ranked based on steepness (1-3) to begin + any features present Slope 2 = falls on slope -20" Stope 1 = maximum steepness that can be safely sampled ~45"

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

			, H-1	2	d	^	1	Body					
*	6	2 No. 10	1=	14		400	li li	corner					
		5		C	0	Q	G	(count)	lx im	depth 3		tussocks	no. of
						O	Ø	(count)	3.16x3 16m	depth 2	uplands (Tip-Ups)	burnmocks	no. of
				1	7		0	(dans)	10x10x0	depth 1		depressions	no. macro.
				1	J	10	3	(sount)	10x10m	depth t		(2-12 cm)	C'M'Q
				_	1	\circ	0	(count)	162,10m	depth 1		(12-40cm)	ew.d
				O	/	d	0	(opunt)	10x10m	depth I		×40 cm	6,874
					I	(i	Ú	(rank)	mc) 1,701	depth 1		interspers.	microhab.
				1	_	_	_	(rank)	10x10m	SLOPE			microhab

180 degrees

135 degrees

S.

+45 degrees +90 degrees

> ä z

LFI is angle of plot to the horizon. TSI is angles formed by local slopes. For TSI measure

Al aspect

1270 degrees 225 degrees

٤

yawa.

WS

angle from recorders eye to eye of person sunding - 10 m

315 degrees

¥.

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

CROWN COVER (DENSIONETER): Male 4
readings per module facing N, S, E, W. Place dot count in
corresponding space. (4 dots per grid square)

9	00	Lus .	2	Module	
9	6	C	_	2	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
C	6	_	C	,	Principle on the
1	7	-	7	m	
-	6	0	N	€	ľ

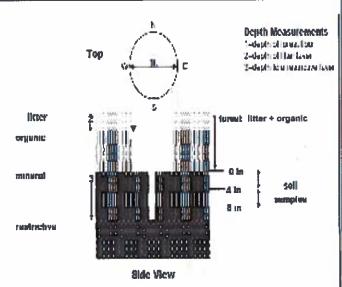
COVER BY STRATA

COVERDIBINAIN	
STRATUM	GENERAL FORM
Tree (generally >5 m)	Tree (overstory), very talt 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.



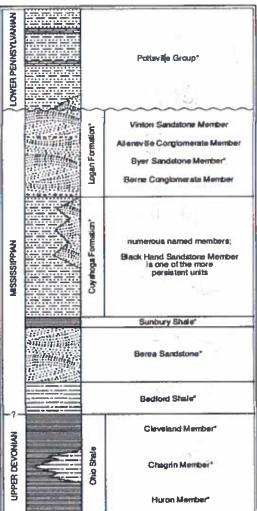


FIGURE 3-20.—Generalized section of Upper Devoman Missasppian, and Lower Pennsylvanian formations in northeasers Ohio Asteriaks indicate units that are feasible rous. This composite section represents about 400 meters of rock exposed across the area. The section is not to exile, but the thicknesses indicated are propertional. The term "Wavety" is used in the older literature to refer to Missasppian rocks in Ohio. Some geologists use the European term "Carbonfistrous," which encompasses the Missisppian 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 destance. The Black Hand Member is a spectacular missive sanstone that is fairly widespread but discontinuous. See Hyde (1953), Hoover (1950), and Collins (1979) for more information on Missassippian 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
Project label: PCAP Project Name: 025 COS Plot No.: \OSO

(C) Glerreland Methoparks

Page: 1 of 1

NONE

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

Soil pit module # (one per entire plot)

20 cm E 03 matrix color matrix color icxture* edox features** rydr. cond. atoon buxu 'smottle xid roots edox festures** nottle color mortic Attle color < co Z z u

refer to texture classes on reverse side

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

ecord as >30

ydro. cond ***

1 S M D

.. c.g. hydrogen sulfide odor, gleying, etc.

"indundated S-saturated M-moist D-day

Notes: include evidence of earthworms (worms, castings, middens)

No.

organic depth

water depth (cm)

depth sat soil (cm)

depth (cm) 2 litter

5-COSINGS YOURS SANON ON CANADA

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

Soil Collection Module Herizon (A. B. C)	, B, C)
2,3,8,9 composited	>
Web Soil Survey Informations	
Soil Series/Type:	
Soil Series Source: Ohio Soil Survey	eğ.
Landform type:	100
Depth to rest. Layer	
Parent Material:	
DRAINAGE*	- 1
□ Excessively dr. □ Somewhat excessively	excessively
Well drained	ly well dr
a Samewhat poorly dr. a Very	a Very poorly dr.
Impermeable surface	

Underlying Earth Surface	h Surface*	Ground Cover
(Sum - 100%)	percent	(Each ≤ 100%)
Histosol	1	Coarse Woody Debris***
Mineral Soil	100%	100% Fine Woody Debris****
Gravel-Cobble*	1	Litter
Boulder**	1	Duff (Ferm + Humus)
Bedrock	١	Bryophyte- Lichen
• Gravel-Cubble = 1/16-10*	1/16-10"	Water
**Boulder => 10 in	5	Bare Soil
*** >5 cm in diameter	ide	Road/Trail
sees of car in dismeter	meter	Other

SEE BACK O	** submersed	nooled and	(Aquatic)*	(Floating)*	Herb	Shrub	Tree	Strate
SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.	** submersed, most plant mass below surface	rooted and floating or slightly emersed		ŀ	0.5	\$ -2.	5	Height Range (m)
L'STRATA RY BY COVER TYPE.	w surface	E			787。	43 %	93%	Total Cover (%)

Deer .	3 Gravel	Bootleg unsanctioned	Hiking sanctioned	n Bridle	All Purpose	Туре	and the and ment of a
	100					%Cover	0001

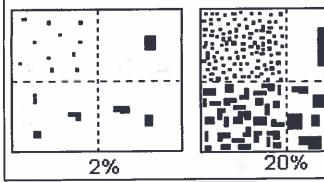
COVER BY STRATA	COVER BY STRATA stimate using midpoints of 5,ex:3, 6, 13	exc3, 0, 13 %
Straig	Height Range (m)	Total Cover (%)
Tree	5	93%
Shrub	.5.5	43%
Herb	0.5	78%
(Floating)*		With the second
(Aquatic)*		
" rooted and fo	noted and floating or slightly emersed	AG.
" submersed,	** submersed, most plant mass below surface	w surface
SEE BACK OF	SEE BACK OF PAGE FOR TYPICAL STRATA	L'STRATA

a 1-3 x plot size a > 100 x plot size 10-100 x plot size 3-10 x plot size >600 x plot size < plot size

STAND SIZE

PERCENT MOTTLES (USE CLASS CODES): Criteria: % of Class* Code Conv. NASIS

Surface Area Covered Few < 2 2 to < 20 Common C ≥ 20 Many m



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.

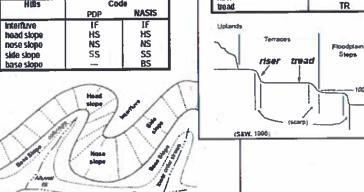
- 0= Organic
- 1= Loamy
- 2= Clayey
- 3= Sandv
- 4= Coarse Sand
- 9= Not measured make plot note

summit

shoulder

morphic 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 POP intentive HS HS NS nose slope NS SS



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.

Code

footslope toeslope	FS TS		
Su Sh Be	Fs Ts Spring	Sh Sh Fs	Su
	Allerton	7	

HYDROLOGIC REGIME Modified from Grossman et al 1998. (Frequency and duration of flooding.)

erraces

rise

UPLAND: Not a wetland. Very rarely flooded.

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

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

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

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

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

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

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

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