CLEVELAND METI	ROPARKS Plant Community Asses	sment Program	: Quality Control Form	veland Metroparks
Project Label:	РСАР	- 111	o: 1063 Date Sampled: 07/27/	
_	2005		Comment required if item answ	A STATE OF THE STA
Parking/Access outside	e of Park Boundaries:	Y (N)	If yes, write details in Comments section be	
Field journals complete		R N	, Sound in Communic Section of	
Site sketch made on 1:	 	N		
Check cover page	X-axis Bearing of plot recorded	Y N		
Succession Page	GPS coords. Recorded	N (X)		
Î	North direction recorded	N		
2	Photographs taken?	N K		70.0
3	Relocated Pins Mapped	N C	NO PINS	
Plot No. Data		Y N	ביוון עווון	
Plot No., Date agreeme	<u>.</u> .	(3)		
Header data completed		N CV		
	l in all Intensive modules	N (V) VI		
Browse Level By Spec		N N	1	
Woody stem quality co	<u> </u>	Y N	Check every line and cross check with the	Tree Cover Sheet
Invasive plant quality of	control check	Y N	TVIA	
Ash trees mapped		N	- N/A	2,378
Completed Forest Pest		N K		
Cover by Strata? (conf		YN	1.11	
Soil samples collected	with matching plot #.	Y N	IN 11+	
Cross check 2010 info	rmation	Y N	Highlight any changes from 2010 informati	ion
Vouchers labeled on de	atasheet with initials and number	N		
Vouchers labeled on co	ollection bag	N See		
Pink flags removed		V N		
Data sheet QA before I	leaving site?	N		
Common equipment re		YN		
Data sheets scanned?			Enter date to left	
Final data sheets scann	ned?		Enter date to left	
Buffer Widths measure		Y N	*	
Web Soil Survey		X N		
Voucher Location	Refrigerator	Y) N		
(# vouchers collected)	Press (#)	10 "	Enter number to left	
DO L	Drier	Y N	(- "	
NUV	Identified	YN		
185 00	Mounted	YN		
1,000		YN	76	
	Thrown away	ı ı N		
CDTC ./	tons to the second			>
	tion: Is plot sampleable?			
t√ 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, b			
	Managed mowed area (i.e. polf of Paved area (i.e. parkinglot, road)	course, picnic area, i	right-of-way)	
	Unsafe to sample (i.e. steep slope)	↑ ·	
	Other			
Additional Comment	s;			
Deta Coults Co	-1 2045 via 1+i 6/40/2045 v		41.1.2	

HOMOGENEITY

SALINITY*

D Brackish 5 Saltwater

Upland (n/a)

hairy

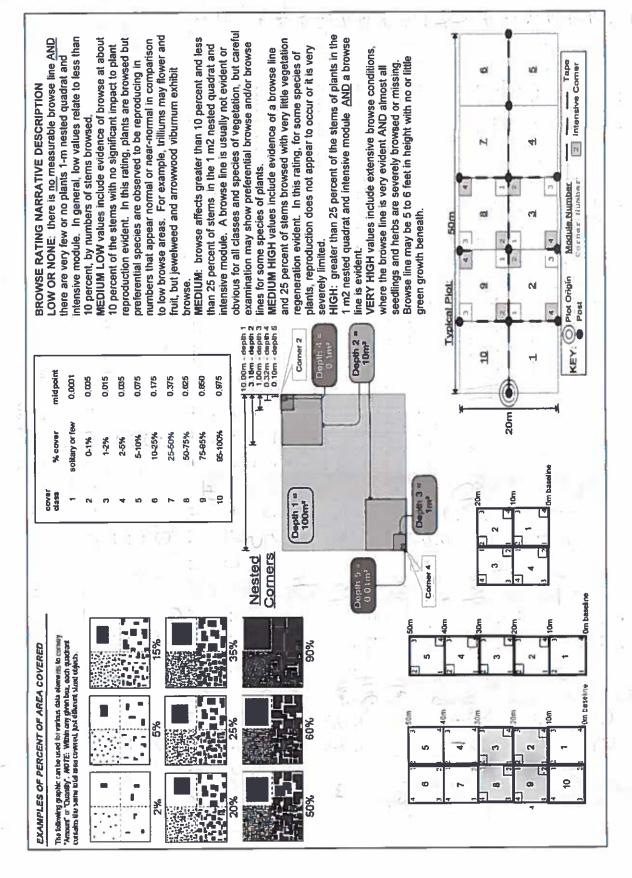
		چ		9	2	· • • • • • • • • • • • • • • • • • • •	S S S S S S S S S S S S S S S S S S S	92	2	9.	<u>n</u>	2	2	9.	93	Q		90	2	6	7	2		S H (F)(A)Br	Strata - Cov. entire plot		Metroparks	4	3		Project Label: Total modules:
r	Asclepias incarnata	Duschenea indica	Procunum cannabinum	Oxalis stricta	tenuors tone	Pyrus Sp.	forthoxagum odocatum	+c		2	Toxicalendra radicans		Khamnus Franciala	graxecum officinate	Honbrosia artemisiitolia	Unknown monocot	Carya sp.	Hariaus sp.	Circium anease	Garostis's a capillacis	Phleum pratense	—	restuca sprubia	Species	3RE 1715 IS		describe amount of browse per species over entire plot	Br = Browse Level. Use cover classes to			PCAP H
					O			X Acc 387	lanuginosum	SRE 12.15-15				76						X ACL386			X ACL 385	C Voucher#	%unveg. litter (bare litter)	%unveg. ground (bare soil)	Sunvenetated open water	intensive module:	Estimate for each		Project name: Intensive modules:
		-											- 32	-	0	2	2	دو	ις (Δ	36.2	(S) (S) (S)	رو ع	484	depth cov c	1	_ Q	\$	depth cov depth cov	1 4 1	mod corner mod corner	62860
					2	<u></u>	2	7	رد ري	ار الا	ر رو	2	ندا	× -	5 2 3	シシ		2	252	5	ころも		40 4	depth cov depth	1 0	1 0	09	depth cov depth	2 4 2	mod comer méd	6(5 Plot no.: 1063 Plot configuration: 1 *4
2	<u>-</u> دود	 <u>2</u>	24!	2			1 +		() () () ()	-			E*	3	9.2			200		3 5 Q	200		t t	depth	10	9	3 (depth cay depth	5 H S B	corner mod corner mod c	
			3			33.0		2	2						22	2		بو		73	243		484	VBO	1 ()	_ C)(cov depth cov depth	444	comer mod	Plot area (ha):
							Et.	y de		Cuc	Ļu		.7										X	cov depth				cov depth	4	comer mod	40

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

Page __ of ____

SRE_CM PCAP Species Cover Data .xls last revised 6/10/2015 jjm

Natural Resource Management FORM NR/2010-02a



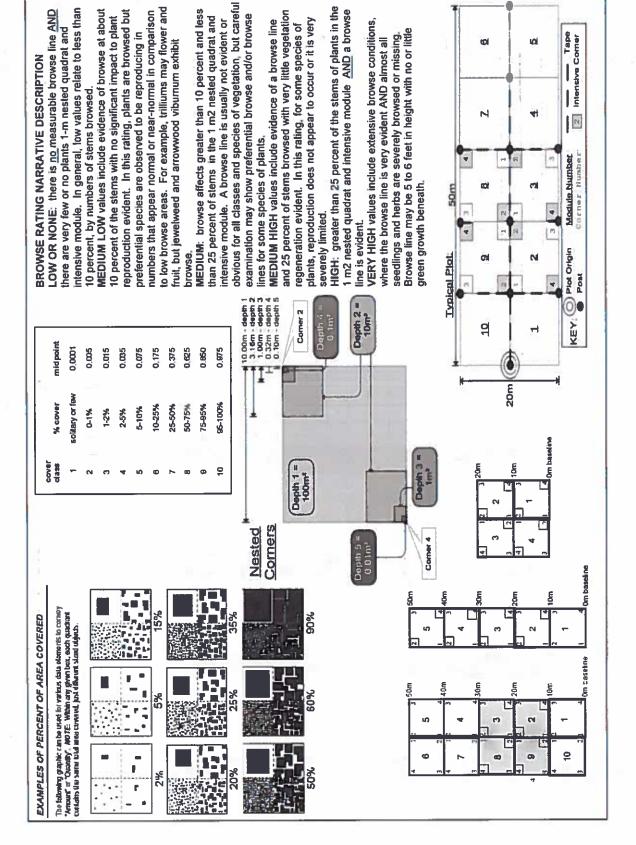
Strata - Cov. entire plot Cleveland Metroparks Total modules: describe amount of browse per species over Br = Browse Level. Use cover classes to Species entire plot Intensive modules: 4 %unveg. ground (bare soil) %unvegetated open water Estimate for each intensive module: %unveg. litter (bare litter) Voucher # %open water mod corner mod corner mod corner mod corner cov 4 depth cov depth Plot configuration: Ş COV depth depth cov i depth Plot no.: 1063 ation: X4 COV j depth 8 OOV depth comer mod corner cov i depth 8-Plot area (ha): . OH ğ COV وَ cov. I depth cov i depiti 900 8 depth

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

Project name: 028 2015

Page 2 of 2

Project Label:

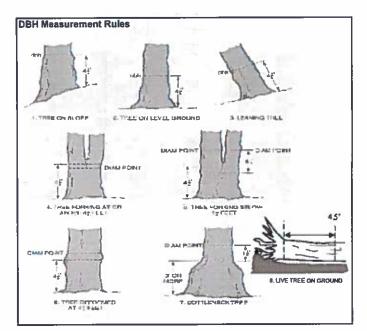


CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet

Project Label: PCAP Project name: 028e2015 Plot no.: 1063 % COVER Strata - Cov. entire plot ㅁ Heer cubrum Species Prensence of tree mod mod mod mod species (X) | 2 3 4 Voucher# Page ___ of

ata Sheet Plot no.:	mod med R											market in						
over E	pou														7		Ţ	
ent Program Tree C Project name:	Prensence of tree mod	species (X)	Voucher #					à		1		1	۰					
mss:			O									- 2						
CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Project Label: PCAP PCAP		alot	Species												í	,		
CLEVELAND ME Project Label:	ÆR	Strata - Cov. entire plot	Ŗ										**	,				
CLEVE Projec	% COVER	Strata - (⊢															

2 No browse 3 No browse CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet
Project Label: PCAP Project Name: 028205 Plot No.: 1 Explain subsample (additional room on back): voucher# 0-1.4m or super % sub shrub size class (cm) woody stems >1.4m 0-<1 1-<2.5 2.5-<5 Plot No.: 1003 5-<10 10 - <15 15 - < 20 20 - <25 Page: 25 - < 30 30 - <35 O Cigneland Metroparks 35 - <40 6 >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.



.

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.

Page: 1 of 2

N3	N	N	N3	l.	N)					- 40						L		-			187	130	62	1	Module II
25	24	23	22	21	20	19	-ics	17	16	15	14	13	12	=	10	8	8	7	0	ch ch		3	2	1 Noash	ID. Species
																									Cead
										H															Voucher#
																	Ī								cm)
																200	with an electric							,,,	8 8 1 1 1 1
-			10.00							_								0.5		_				,	Ash 'Dead condition condition
						,														L		_			
								_	No.																noies
						E																			Epicornic present
																									Woodpecker holes
				İ			t			t	Ва	selir	•			ì	111								
				Map all ash trees ≥10cm in each module using Tree ID numb		Lii			N					9	•			Change intensive module numbers when necessary		1	(1)		
				odule using Tree ID num				٠	•]					•	•]			nbers when necessary							

ach module using Tree ID number

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detection,	Rapid response		Pres	ence		GPS	1
THE ST WATER SECOND		NE	SE	sw	NW		Presence
Microstegium vimineum	Japanese stiltgrass						X: yes
Ranunculus ficaria	Lesser Celandine	\vdash	T				
	Black Swallow-wort					· · ·	7
	Flowering Rush	1	1	t		***	7
Heracleum mantegazzianum	Giant Hogweed	 		1			_
Tier 2: Assess a			# of	Plants	K = 10	comments	
THE EN PROPERTY		NE	SE	SW	NW		# of Plants
Acer platanoides	Norway Maple	1					1: 1-10
Ailanthus altissima	Tree of Heaven	1	+	 			2: 11-50.
Lonicera japonica (vine)	Japanese Honeysuckle	┼─	+			· · · · · · · · · · · · · · · · · · ·	3: 51-100
	Purple Loosestrife	┼	+				4: 101-1,000
Aegopodium podagraria (G-cover)	Bishop's Goutweed	╫	+		 		5: >1,000
Celastrus orbiculatus (vine)	Asian Bittersweet	+	+	 			10. 12,000
Torilis sp.	Hedgeparsley	+	+	 	 		_
Conjum maculatum	Poison Hemlock	+	_	\vdash	 		┪
	Common Buckthorn (shrub)		+	\vdash	 	 -	┪
Rhamnus cathartica	Japanese Barberry (shrub)		+			<u> </u>	1
Berberis thunbergii	European Alder	4-	+	1			┪
Alnus glutinosa	Cut-leaf Teasel	+	+	+			\dashv
Dipsacus laciniatus	Autumn Olive (shrub)	+	+-	+			-
Elaeagnus umbellata		_	+	+	 		-
Lonicera maackii	Amur Honeysuckle (shrub)	' 	+-	+			\dashv
Euonymus fortunei	Wintercreeper		# -5	Plants		comments	iii
Tier 3: Presence i	s or interest	NE	SE	SW	NW	commence	# of Plants
Convellerio maialia (G. cours)	Lily of the Valley	IVE	36	244	1000		1: 1-10
	Crown Vetch	+	+	+			2: 11-50.
Eleutherococcus pentaphyllus	Five-leaf Aralia (shrub)	1	+	+			3: 51-100
	Japanese Pachysandra	'\-	+	+-	 		4: 101-1,000
Philadelphus coronarius	Mock Orange (shrub	,	┼	+	 	.	5: >1,000
Pulmonaria officinalis (G-cover)		+	+				3. 12,000
Rubus phoenicolasius (G-cover)	Wineberry	+	_	╁──			-
	 	-	+	+	-	".	-
	Star of Bethlehem	+	+	+	 		┪
Ornithogalum umbellatum	European Cranberry (shrub)	1	+-	+-	 		┥
Viburnum opulus var. opulus		_	-	+	+ +		\dashv
Viburnum plicatum Tier 4: Widespread			Dro	sence	- 1 P	comments	100
tler 4: Widespread	and abundant	NE	SE	SW	NW	Commence	# of Plants
Alliusia pakialah	Garlie Mustand	IAE)JE	244	IAAA		1: 1-10
Alliaria petiolata	Garlic Mustard	-	+	-	 		2: 11-50.
Ligustrum vulgare	Common Privet (shrub) Bush Honeysuckles (shrub)	_	+-	+-	+ +		3: 51-100
L. morrowli, L. tatarica		'-	+-	+-	 		4: 101-1,000
Phalaris arundinacea	Reed Canarygrass	-	+	+	 		5: >1,000
Phragmites australis (wetland)	Phragmites	+	+-	+-	 		- 1,000
Polygonum cuspidatum	Japanese Knotweed	+	+	-	 		-
Frangula alnus	Glossy Buckthorn (shrub)	_	+	+	+	<u> </u>	\dashv
Rosa multiflora	Multiflora Rose (shrub)	+		+	1		\dashv
Typha angustifolia, T. x.glauca	Cattails (wetland)	+	+-	+	+ +		\dashv
Cirsium arvense	Canada thistle	+	-	+	+		_
Dipsacus fullonum	Common Teasel	-	+-	-	┼	<u>-</u>	\dashv
Hesperis matronalis	Dame's Rocket	-	+	-	┼─┼	***	-
Vinca minor (G-cover)	Periwinkle						

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

4bCM PCAP Invasive species datasheet.xls last revised 6/11/2012 ceh

Natural Resoures

- 5			mod #						17.102					_
EVE		\dashv	**		2	ω	4	Ch	O.	7	00	ဖ	ಕ	
CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Sheet Project Label: PCAP Project Name: 02/92/2015 Plot No.: 1				None									-11	
ETRO			species										Ŋ	
Project			<u>ه</u>		И									
PARKS Plant Project Label:														
Commu		77.5	voucher#											
PCAP		\dashv	*											
SSBSSI		#	shrub dumps											
nent Pi		size										_		
Projec		class (c	~											
ogram Forest Pest and Pathog Project Name: 02/92/2015		size class (cm) woody stems >1m	2 1-<2.5											
(Pest a		y stems	3 2.5~5											
No Pa		ă	5~10											
thoge	F	\dashv		\vdash				-						
os Dai			-<15 1											
lot No.			5 6 10 - <15 15 - <20											
Plot No.: 10/03														
S			5 25 -					-						
			<30											
Page	,		9 30 - <35											
⊕	1		35 - <4											
break	'	\exists	>40											
Metroparks of			7 9 10 11 20 - <25 25 - <30 30 - <35 35 - <40 >40 (record each tree)											
	Ŋ	_	tree)											
	1													

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

Strata	# of stem Severity Infected (H.M., or L)		* Write None Present if no evidence:	
Tree (size class 3 or above)		No	None prosent (Fungus)	Asian Longhorned Beetle
Shrub (size class 2 or below including shrub clumps)			Hemlock (HWA)	Other Pest or Pathogen
			Walnut (Thousand Canker)	
Severity				
High = more than 50% of leaf/needle cover exhibiting symptoms	edle cover exhibiting	symptoms		
Medium = Less than 50% of leafineedle cover exhibiting symptoms	/needle cover exhibiti	ng symptoms		
I ow = Only a few leaves or branches are exhibiting symptoms	chas are exhibiting s	motome		



STANDING BIOMASS (required for emergent wetlands); collected in 0. Im clip plots (32x32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C7=check when collected C7 Corner Corner Corner Hydroxeomerobic class (WETLAND on DEPRESSION	Project Label: PCAP Project Name: 18 12 3 955	PCAP	Pro	Project Name: D& DE 2015
	STANDING BIOMASS (required	for emerge	nt wethand	s) collected
C7 Corner Corner	in 0.1m clip plots (32x32 cm) from module. Required for VIBI-E score	colculation.	i in each C?=check	when
C? Carnet Carnet	collected			
Hydroexomeraki de	Module #	C7	Corner	Comer
o DEPRESSION				

Plot No.: 1063

Cheveland Hetropart Page: 1 of 1

McNAB INDICES (degrees) + for up - for down

THLLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD!

FOREST a swamp forest a bog forest a forest seep EMERGENT a marsh a wet meadow a open bog FRINGING o Reservoir o Natural Lake his EPA VIBI Plant Community Class (WETLANDS ONLY): BOG (strongly, moderately, weekly ombrotrophic) NDS ONLY 1 Fil. = Fire ÷ F10.2 Confi Conf Confi Confi Confe Conf-Conf=

a IMPOUNDMENT a Beaver a Human O SLOPE (ground water by drology or on a physical slop) a SHRUB a strub swamp a tall sh. bog a tall sh. fen COASTAL (specify subclass) o RIVERINE o Headwater o Mainstern o Channel Conf

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

angles formed by local slopes. For TSI measure

LFI is angle of plot to the horizon. TSI is

with for microhabital features. Selections or select two and everage the score, NOTE: If mod falls on a slope sultomatically gets renked based on steepness (1-3) to begin + any feetures present c.w.d. - count for pieces with minimum 1m length Stope 3 = maximum steepness that can be safely sampled -45° >40 cm Ew.d interspers. microhab. microhyb. Ç * Landform frider (position within landscape)
** Terrain Shape Index (sits microtopographic CROWN COVER (DENSIOMETER). Make 4 readings per module facing N. S. E. W. Place dol count i corresponding space. (4 dots per grid square) + (Si) degrees +135 degrees +45 degrees +315 degrees +27i) degrees +225 degrees +9h degree WS ZE € SE

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

lope 1 = slight elevational grade across module (hill)

Slope 2 = falls on slope ~20 *

feature is absent or functionally absent from the wetland

10 feature is pretent in moderate or greater emounts and of highest quality

COUNCY

O E

00 (count)

O

0

9

depth 3

plands (Tip-Ups)

3,16x3.16m depth 2

10x10m depth (

19x10m depth I

10x10m

10x10m depth I

10x10m depth I

SLOPE 0001X00 (rank)

(rank)

COMPI

0

0

0

(count

tussocks no. of

10.0f

по, лицсто

E.W.4

CW.d

(2-12 cm)

(12-40cm)

teature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality feature is present in the wetland in very small amounts or if more common, of low quality

SaCM PCAP Plant Cover_Earth Surface Data sheet Page 1_ver 3.ris last revised \$229/2012 ceh

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

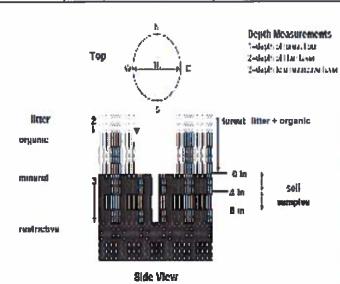
COVER BY STRATA

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

"Very tall shrubs are sometimes included in the tree stratum

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

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



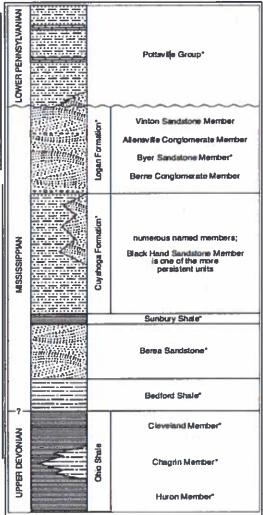


FIGURE 3-20.—Generalized section of Upper Devenaa. Ministrypian, and Lower Pennsylvanian formations in northeastern Ohio. Asteriaks indicate units that are feasible tous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses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

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a
Project label: PCAP Project Name: 02.8 2015
Plot No.: 106.2

(\$) Gleveland Metroparks

Page: 1 of 1

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

Soli pit module # (one per entire plot)

0

												- 3	4	
refer to و دور ان							20 cm							5 cm
" refer to texture classes on reverse side ** e.g. hydrogen sulfide odor, gleying, etc.	hydro. cond ***	redox features**	lexiure*	oxid roots	%mottle	mottle color	matrix color	hydr. cond.***	redox features**	texture*	oxid roots	%mottle	mottle color	matrix color
rse side	- 8	4	Я	¥				- s	~		4			
	M D	z		z				M D	z		z			Γ
SOIL DEPTH MEASUREMENT: Measure to the nearest 0.1 cm in center of intensive modules. If >30.5 cm, record as >30		tz Impermeable surface	a Somewhat poorly dr a Very poorly dr.	to Well drained to Moderately well dr.	a Excessively dr. a Somewhat excessively	DRAINAGE*	Parent Material:	Depth to rest. Layer:	Landform type:	Soil Series Source: Ohio Soil Survey	Soil Series/Type:	Web Sail Survey Informations	2,3,8,9 composited A	Soil Collection Modul Herizon (A. B. C)

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

*** Circle one:

1-indundated S-saturated M-moss D-day

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

organic depth 1 litter+ 9

water depth (CIII)

depth sat soil (cm)

depth (cm) 2 litter

No worms or castings or blesent by Alpha

> 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

u Impermeable surface	n Well drained no Moderately well dr. Somewhat poorly dr. no Very poorly dr.	n Excessively dr. n Somewhat excessively	LADVAGE*	Parent Material	Depth to rest. Layer:	Landform type:	Soil Series Source: Ohio Soil Survey	Soil Series/Type:	th Sail Survey Informations	2,3,8,9 composited	Soil Collection Modul Herizen (A. B. C)
	orly dr	cessively							2 0	>)

Grave

2	1
	l

Strata Tree Shrub	C C C C C C C C C C C C C C C C C C C	Total Cower IN
Herb	0.05	98
(Floating)*	/	0
T _a	/	0

EARTH SURFACE & GROUND COVER	CE & GROU	IND COVER	-
Underlying Earth Surface?	h Surface*	Ground Cover	
(Sum - 100%)	percent	(Each ≤ 100%)	percen
Histosol	0	Coarse Woody Debris***	0
Mineral Soul	401	Fine Woody Debris****	0
Gravel-Cobble*	0	Litter	0.30
Boulder**	0	Duff (Ferm.+ Humus)	0
Bedrock	0	Bryophyte Lichen	-
* Gravel-Cobble = 1/16-10*	- 1/16-10°	Water	0
**Boulder * > 10 m	m	Bare Soil	0
*** >5 cm in diameter	neter	Road/Trail	C
acte / Com in charmelor	mela	Other	0

Hiking sanctioned Bridle All Purpose

Bootleg unsanctioned

ecord type and cover for each FRAIL INFORMATION:

%Cover

SUDIN

COVER BY STRATA
estimate using midpoints of 5,ex:3, 8, 13 ×

Strata Height Ra	res (m) Total Com
Tree 5.0.	7 8
Shrub O.S.	CV.
Herb O-).5 98
(Floating)*	0
	0

> NOT what size	STAND SIZE	
		u I

D > 100 x plot size □ 1-3 x plot size a 3-10 x plot size 10-100 x plot size 600 x plot size

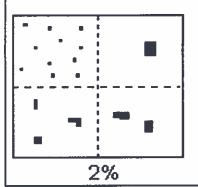
< plot size

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

** submersed, most plant mass below surface



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





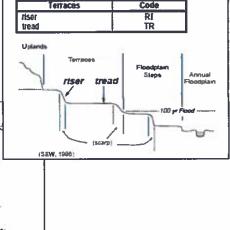
SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but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

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

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 Fiat Plains;

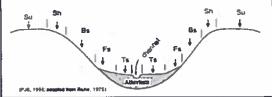
e.g., (for Hills) nose slope or NS.

		PUP	rusis	
	interfluve head slope	IF HS	IF HS	
	nose slope side slope	NS SS	NS SS	
	base slope		SS BS	
	/	Head	. /	
		1	A CONTRACTOR OF THE PARTY OF TH	V
		111	100	1
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ì	Alexand		11/	-
_	higher	Order streets	. —————————————————————————————————————	
		(P.IS 19)	26: adapted from I	Ruhe 1975



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.

Position	Code
summit	SU
shoulder	SH
backslope	BS
footslope	FS
toesiope	TS



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.