Plant Community Assessment Program: Quality Contro	ol Form	
1		

CLEVELAND MET	ROPARKS Plant Community Asse		
Project Label:	PCAP	Plot N	0: 1038 Date Sampled: 07 2115 Lead: 1 AAVE
			Comment required if item answer is NO
Parking/Access outside	de of Park Boundaries:	Y Q	If yes, write details in Comments section below
Field journals comple	ted	Q N	
Site sketch made on 1	:3000 map?	Q N	
Check cover page	X-axis Bearing of plot recorded	y N	
	GPS coords. Recorded	N (V	2000
	North direction recorded	Y N	
ř	Photographs taken?	N X	
	Relocated Pins Mapped	N X	
Plot No., Date agreen	nent on all pages?	Y N	
Header data complete	ed all pages?	N	
Cover classes recorde	d in all Intensive modules	Y) N	
Browse Level By Spe	cies .	YN	
Woody stem quality of	control check	N	Check every line and cross check with the Tree Cover Sheet
Invasive plant quality	control check	N	AVA
Ash trees mapped		Y N	AVA
Completed Forest Per	st/Pathogen Datasheet	YN	
Cover by Strata? (con	firm cover type)	THE WAY	31.337 - 35.
Soil samples collected	with matching plot #.	FYN	
Cross check 2010 inf	omation	N (Y	Highlight any changes from 2010 information
Vouchers labeled on	datasheet with initials and number	YN	NANG
Vouchers labeled on	collection bag	Y_ N	
Pink flags removed		(Y) N	
Data sheet QA before	leaving site?	Y N	
Common equipment	returned to tub.	(y) N	
Data sheets scanned?			Enter date to left
Final data sheets scan	ned?		Enter date to left
Buffer Widths measu	red?	Y N	
Web Soil Survey		Y N	
Voucher Location	Refrigerator	Y N	
(# vouchers collected)	Press (#)		Enter number to left
MONE	Drier	Y N	
NONE	Identified	Y N	
1	Mounted	Y N	8118-
	Thrown away	Y N	
324555	200	- 05 7500	
			······································

GRTS point verifica	tion: Is plot sampleable?
t Yes	Original GRTS point is sampleable
□ No	Original GRTS point lands in a non-sampleable area (fill in category below)
	Point falls in a water (i.e. river, take)
	Managed mowed area (i.e. golf course, picnic area, right-of-way)
	Paved area (i.e. parkinglot, road)
	Unsafe to sample (i.e. steep slope)
	Other
	Original GRTS point lands in a non-sampleable area (fill in category below) Point falls in a water (i.e. river, lake) Managed mowed area (i.e. golf course, picnic area, right-of-way) Paved area (i.e. parkinglot, road) Unsafe to sample (i.e. steep slope)

Additional Comments:

1.45 ·. : ·

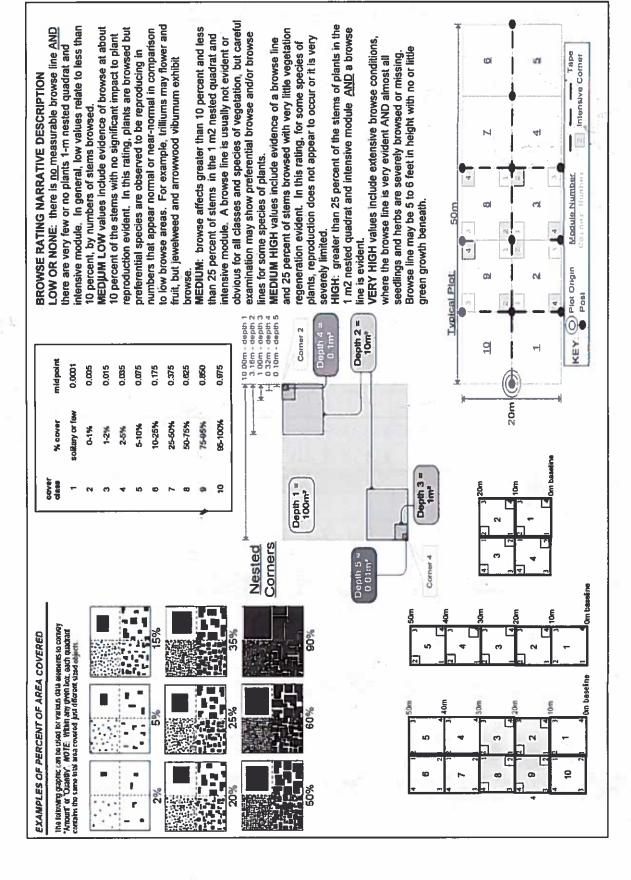
Plot Name: A D S TAXONOMIC STANDARD **CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet** Accurate PLOT NOT SAMPLED: GENERAL INFORMATION Minimum required fields in Bold and Underlined TAXONOMIC ACCURACY Wery thorough SAMPLING QUALITY* Plot No.: 10'38 /ascul Perm. water D Paved D Slope D Safety Hurried Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc. ate (mm/dd/yyyy): 07 / 2 | / 20/5 roject Name: ORRANIS Level 4 (no nested corners sampled) Knauss Level 5 (nested corners sampled) modera. how much effort put int subjective evaluation of may still provide good sampling. Hurried plots Plot leader Role** CRE low o Other not sm Rocky River State □ Systematic (grid) □ Capture specific feature □ Other □ Random □ Stratified Random □ Transect component Plot placement: WRTS GPS location in plot x=0 to 5, y=1,0,+1): Other (specify) o Fuzz 100m o Fuzz 250m o Fuzz 500m Check one: Deplic data Derivate Data Quadrangle: Lakewood Camera No.:_ ■ Lat/Long □ UTM □ StatePlane Source of coordinates

MAP If data not public why? Data Confidentiality: LOCATION Photo Nos.: Plot size for cover data: GPS File Name: Datum: III NAD83/WGS84 II NAD27 Coordinate system: Local Place Names *Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide ntensive modules: 2. 3. 8. 9.4 epth: (1-5): X-axis Bearing of plot: 1038A (base of plot x=0, y=0) County: Luyahoga □ Representative deg to deg min Coord. Units ■ GPS (EDIT IF MODIFIE) (hectares) Veg. Characteristics > Canopy is dominated by beech and hemlock. 2.10 module plot: the base of a skeep slope. Rathanale -> GRTS | PCAP re-sample Old Lorain Rd. bridge walk through floodplain. Plot is located at dominants, strata, BROWSE). Additional notes in space on back content), Rationale (why here), and Veg Characterization (description of community, NOTES: include Layout (any unusual shape dejails), Location (directions and landscape Location & Cross Rocky River by the also present. Very large dead yellow Diagra Plot origin Sq. GPS location with direction with direction local point with direction of the point of Sugar maple, red maple, and red oak Layout > 1 × 6 些 まじ location of permanent posts Clumburd Mulny Page 1 of 2 #5 9

34075

CLEVELAND METROPARKS Plant Community A	Community Assessment P	ssessment Program - Background Data Sheet	ound Data She	t ,			(Actural	(A Clumberd Mutnumbe
Project Label:	bel: PCAP	Project Nar	Project Name: OZKN2015	51.5	Plot	Plot No.: O S &		Page 2 of 2
MODIFIED NATURESERVE CLASS*			DISTURBANCES	ANCES				
CODE (on separate form):	Fit= Conf=		type* se	severity** yr	yrs ago % of plot	plot description		
		21-00 0 70-16	Human	w	0 10	1007 trash		
18-02		(1)	Natural					
COMMUNITY NAME: KOOR	Booch Mople		Fire					
	1		Cut	MH	0 10070	deer	browse	
How lock Hard was to	towest		Animal					
			Other			The state of the s	# 10 PM 10 PM	2000
HOMOGENEITY			**L=low ML	=med low. N	(=med, MH=	**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high	/H=very high	
	Compositional trend across the plot	ý	Current Land Use:	1 Use: P	PARK (COUSERVATION	(non	
nclusions	ittern mosaic		Former Land Use:		UNKNOWN	MUN		
	HYDROLOGIC REGIME*	;IME*						Ξ
	Mipland (seldom flooded)	o Înî	□ Intermittently flooded	-				
SALINITY*	□ Intermittently/seasonally saturated		□ Semipermanently flooded	oded				
D Saltwater	(seldom flooded)	o Pe	Permanently flooded					
o Brackish	□ Permanently/Semipermanent. saturated		□ Tidal/Seiche flooded daily	daily				
a Fresh	(dry <1/yr, seldom flooded)		☐ Tidal/Seiche flooded monthly	monthly				
Philand (n/a)	□ Occasionally flooded (<1/yr)		Tidal/Seiche flooded irregular	irregular				
	a Temporarily flooded	3)	(e.g. wind, storms)					
(by default unless plot is a wetland)		υŪ	o Unknown					
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)	iveness of plot to the stand, success	sional status, maturity,	etc.)					
birch in mod 3.	200							
Herb and shrub layer		are almost non-existent, Spinulose wood fern,	non-ex	Isten	t, S,	somulose	wood	to y
maple seedlings, and Vinginia creeper are preant,	and Vinginia	creper	are p	RRY	t.	2		
Yellow brich seems to	ems to be in	be in decline throughout the area.	through	int 4	a A	ra.		
A Sping 2015 Sun	ing Enhanced	Study s	ampled	the	ht in	Comecti		
(sampled 10 in too much upslope)	on too muc	h upsle	- A					11 00 00
•		,						

CLEVELAND ME Project Label:	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Project Label: PCAP Project Label: PCAP	nent Program Species Cover Data Project name: OAKR 2015	0000	S Ver	Data 005	She	~	Piot	Plot no.:	5	*					Page	96	1	, 8,	H
Total modules:	6	Intensive modules:	4		Plot configuration:	confi	gura	9		x6				P	ot an	Plot area (ha):	<u>.e</u>	.06	6	
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3	Br = Browse Level. Use cover classes to	intensive module:	depth	3 ₹	depth	8 8	deb) §	G B B		depth.		-1:	_	279	+*+		_	8	depth
Cleveland Metroparks	describe amount of browse per species over entire plot	%unvegetated open water		Ó		Ц		α				00	_	\pm		-1	9			
Irata - Cov entire plot		%unveg. ground (bare soll)		342	. 8		<u> -</u> .	g		d)		S		Н		+	QИ	\sqcup		
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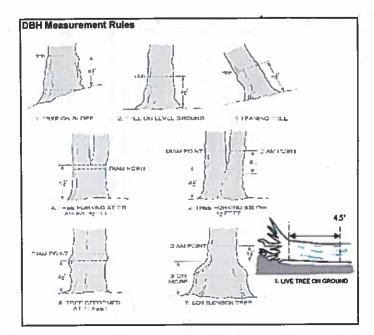


CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet

Project Label: PCAP Project name: OF RR20(5 Plot no.: 1038) Strata - Cov. entire plot % COVER 뫄 6 Fagus grandifi Acer rubrum shiercus rubra Acer saccharum canadensis aranditalia Species Prensence of tree mod mod mod R species (X) & 3 4 5 R Voucher# X Page ___ of

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Plot no.:		œ	~[•						!						\neg						\neg
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CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet	ב ב		1	Species							i							,			0.04			. = 1		
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ELAND MI	Project Label.	VER	Strata - Cov. entire plot	B															L							
CLEV	Proje	% COVER	Strata -	-																						

	3	CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Project Label: PCAP Project Name: 02880000000000000000000000000000000000	PCAP	Assessi	nent Pro	gram N	atural M	nt Program Natural Woody St Project Name: 028805	tem Dat	ta Sheet Plot No.: 1038	038		Page:	_	e o	Ciercia	Scienciand Metropus
		Explain subsample (additional room on back):	back):			2									3		
				# stems 0-1.4m	% sub or super	##	ize class I	size class (cm) woody stems		>1.4m	US .		7	•	•	6	
क्रिक्य हैं		species	c voucner#	browsed	sample	ciumps	2	6.72	2.5-6.5	9/10	GL> - 01	07> - 61	20 + <25	25 - <30	30 - <35	35 - <40	>4U (record e
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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.



B

С

D

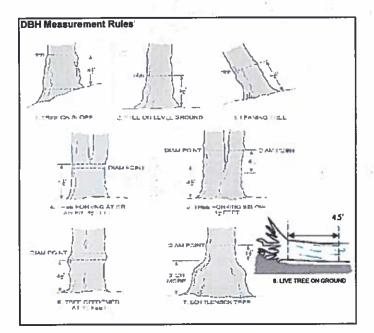
E

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 6 mod # Explain subsample (additional room on back): No browse present Tsugo conoders a Stand Folia Project Label: PCAP voucher# browsed 0-1.4m # stems or super % sub Project Name: DZRR 7015 clumps shrub size class (cm) woody stems >1.4m 2 1-<2.5 2.5-<5 Plot No.: 1038 5-<10 10 - <15 15 - <20 20+<25 Page: 7 25 - < 30 30 - <35 으 (Gleveland Metroparks 35 - <40 5 50.0 >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















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CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detection/	Rapid response		Pre	sence		GPS	l
		NE	SE	SW	NW		Presence
Microstegium vimineum	Japanese stiltgrass			-			X: yes
Ranunculus ficaria	Lesser Celandine				-1 4		1
	Black Swallow-wort						1
	Flowering Rush					H H made	1
Heracleum mantegazzianum	Giant Hogweed					81Te	1
Tier 2: Assess a		18.00	# of	Plants		comments	
		NE	SE	sw	NW		# of Plants
Acer platanoides	Norway Maple	111					1: 1-10
Ailanthus altissima	Tree of Heaven						2: 11-50.
	Japanese Honeysuckle	+	_			1	3: 51-100
	Purple Loosestrife	1					4: 101-1,00
	Bishop's Goutweed	1		1			5: >1,000
Celastrus orbiculatus (vine)	Asian Bittersweet	+	+	 	† 		1 2 7 7 7 7
Torilis sp.	Hedgeparsley	+	+				1
Conium maculatum	Poison Hemlock			+	. 4		1
Conium maculatum Rhamnus cathartica	Common Buckthorn (shrub	1	+				1
Berberis thunbergii	Japanese Barberry (shrub		+		 		1
Alnus glutinosa	European Alder	4	+		 		1
<u> </u>	Cut-leaf Teasel	-	+-	·			1
Dipsacus laciniatus	Autumn Olive (shrub						1
Elaeagnus umbellata Lonicera maackii	Amur Honeysuckle (shrub				1 1		┨ .
	 	1		-			1
Euonymus fortunei Tier 3: Presence is	Wintercreeper		88 m6	Piants		comments	
Her 3; Presence is	of Interest	NE	SE	SW	NW	Commence	# of Plants
Complete modelle (Constant	Like of the Valley	INC	31.	344	1444		1: 1-10
	Lily of the Valley Crown Vetch		+	+			2: 11-50.
	Five-leaf Aralia (shrub		+	-			3: 51-100
Eleutherococcus pentaphyllus		' 		+	 		4: 101-1,00
	Japanese Pachysandra	1	-	+	 	·	5: >1,000
Philadelphus coronarius	Mock Orange (shrub	/ 		+-			3. 71,000
Pulmonaria officinalis (G-cover)	Lungwort	-	+	╫	 		-
Rubus phoenicolasius	Wineberry	+	+	+	+	<u> </u>	\dashv
	Yellow Flag Iris	┿	+	+	 	<u></u>	┨
Ornithogalum umbellatum	Star of Bethlehem	+-	+	-	-		-
Viburnum opulus var. opulus	European Cranberry (shrub	_	+-	+		<u></u>	-
Viburnum plicatum	Doublefile Viburnum (shrub		-				-
Tier 4: Widespread	and abundant	NE		sence	NW	comments	# of Plants
	le ti sa sa d	NE	SE	SW	MAA		
Alliaria petiolata	Garlic Mustard	+	+-	+	+-		1: 1-10 2: 11-50
Ligustrum vulgare	Common Privet (shrub	_	+	+			
L. morrowii, L. tatarica	Bush Honeysuckles (shrub	4	+-	+	+		3: 51-100
Phalaris arundinacea	Reed Canarygrass	+	+-	+	+		4: 101-1,00
Phragmites australis (wetland)	Phragmites	+	+-	+		<u> </u>	5: >1,000
Polygonum cuspidatum	Japanese Knotweed	-	+	+	 		
Frangula alnus	Glossy Buckthorn (shrub)	_	+	+-			-
Rosa multiflora	Multiflora Rose (shrub)	+	+-	-			
Typha angustifolia, T. x.glauca	Cattails (wetland)		+	+	100		
Cirsium arvense	Canada thistle	┿	+-	4			-
Dipsacus fullonum	Common Teasel		+	-	 		1
Hesperis matronalis	Dame's Rocket	+	-	+	+		10
Vinca minor (G-cover)	Periwinkle					Ti .	- 4

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

Project Label: PCAP Project Name: 07,127015 Plot No.: 1/2	i Commun	PCAP	Proj	Project Name: <u>DZLEZOIS</u>	DEL	27015) \ gens	Plot No.	Plot No.: 1038	140	Page:	Cleveland Metroparts
		*	size class	size class (cm) woody stems >1m	y stems >1	¯ 3						
mod # species	voucher#	dumps	것 -	2 1-<2.5	3 2.5-<5	5~10	. 5 10 - <15	6 15 - <20	7 20 - <25	25 <30	0 30 - <35	35 - <40
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5										\neg	\exists	ヿ
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7									-	\exists	7	コ
8		D)										
9												
10												П
* IF EVIDENCE OF PEST OR PATHOGEN RECORD TOTAL SPECIES POPULATION IN THE PLOT EVEN	ATHOGEN	RECORD TO	AL SPE	CIES PO	PULATIC	N IN T	E PLO1		THE NOT INFECTED		CTED	
Strata	# of stem infected	Severity (H,M, or L)		* Write	* Write None Present if no evidence:	esent if	no evide	nce:				
Tree (size class 3 or above)				None	م	Beech (Beech (Fungus)		Nov	۲	Asian Longhorned Beetle	.ongh
Shrub (size class 2 or below including shrub clumps)		3	3	عبر ال	þ	Hemioc	Hemiock (HWA)		Con	_	Other Pest or Pathogen	est o
				None	7	Walnut	Walnut (Thousand Canker)	nd Canl	(er)			
						1				-		
Severity					,							
High = more than 50% of leaf/needle cover exhibiting symptoms	needle cove	r exhibiting syn										
	OSI SOCIAL S		promo									
medium = Less mail 50% of learneedie cover exhibiting symptoms	alliegule o	over exhibiting	symptoms									

MCNAB INDICES (degrees) + for up - for down FILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD!

CLASSIFICATION		
(FIT = excellent g Fit and Confidence		
Hydroceomerphic class (WETLANDS ONLY):		
a DEPRESSION	# 	Cond
a IMPOUNDMENT to Beaver to Human		Conf
ORIVERINE O Headwater O Mainstein O Charmal	# 	Conf-
SLOPE (ground water by drology or on a physical slop)	7	Conf.
a FRINGING a Reservoir a Natural Lake	20	Conf
a COASTAL (specify subcless)	7	Conf-
a BOG (strongly, moderately, weekly ambirotrophic)	म्ब	Conf*
Ohio EPA VIBI Flant Community Class (WETLANDS ONLY):	SCTINE.	
a FOREST a swamp forest a bog forest a forest seep	1	Conf*
a EMERGENT a manh a wel mendow a open bog	# 	Conf
a SHRUB a shrub swamp a tall sh. bog a tall sh. fen	Film	Conf-

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

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

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

-	_		٧	4	W	2		-					
							COURCE						
			Ø	6	0	0	(count)	lx lm	depth 3		tussocks	no. of	
			0	0	0	0	(count)	3,16x3 16m	depth 2	uplands (Tip-Ups)	hummocks	no. of	
			0	0	0	C	(count)	10x10m	depth 1		depressions	no. macro.	
			8	7	16	10	(count)	lūxi ūm	depth 1		(2-12 cm)	cwd	
		. 10	0	0	6	-	(count)	10x10m	depth (2790	(12-40cm)	C.W.d	
			0	0	0	0	(pount)	10s10m	depath t		X#g	CW.d	and the same of th
			2	7	7	7	(rank)	10x10m	depth 1		interspers.	microhab.	
iA()			W	3	3	3	(rank)	10x10m	SLOPE			microhab.	

N	2		~ —	Module	contaonday sp
0	0	0	v	z	g space (4 dots po
0	_	0	0	v	(4 dots per grid square)
0	٥	٥	_	m	
C	0	0	1	*	-
		_	_		J

Landform Index (position within tandecape) Terrain Enape Index (sile microtopographic shape)

+270 degrees +125 degrees

€

\$8

recorders eye to eye of person standing ~10 m ARMB.

angle from

+315 degrees

X.

+ 35 degrees + | \$0 degrees

韶

90 degrees 45 degrees Al aspect

Ä

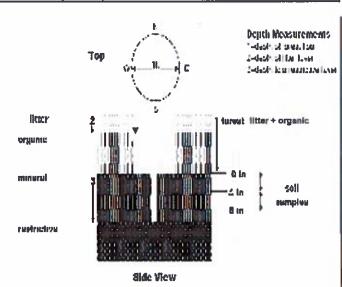
LFI is angle of plot to the horizon. TSI is angles formed by local slopes. For TSI measure

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

^{***}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.



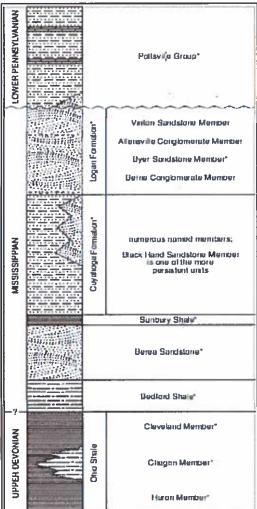


FIGURE 3-33.—Generalmed section of Upper Devonian Ministrphan and Lewer Pennsylvanian firmations in non-heastern Orio Asterials indicate units that are fossiliferous. This composite section regressions about 430 meters of rock exposed across the sival. But she common is not to social, but the riminasses indicated are proportional. The term "Variety" is used in the clear hierastic to refer to Minassippian rocks in Okion. Some geologists use the European serim "Carbomierous," which encoupasses the Afissimppian and Pennsylvanian Periods of the U.S. Many until have been named within the Cuyahoga formance, but most units are local and cament be traced over great distances. The Black Mina Member is a spectacular massive sandatone that is fairly widespread but discontinuous. See Hyde (1823), Hoover 1960), and Collins (1978) for more information on Mississippian rocks in Ohit. See Egure 3-15 for explanation of rock types.

^{**}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 Name: 022225 Pkot No.: 1038

(1) Cityreland Metroparks

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

Soil plt module # ____ (one per entire piot)

20 cm 6 CM matrix color matrix color hydr. cond *** lexture* hydro, cond *** acid roots edox features** edox features** nottle color stoor prix anortic . ottle color I S M D S MD z

** c.g. hydrogen sulfide odor, gleying, etc. refer to texture classes on reverse side

mindundated S-statutated M-most D-dry

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

t works present

2 - worms & costing

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

C Impermeable surface	a Somewhat poorly dr. a Very poorly dr.	n Well drained in 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 Soil Servey Information:	2,3,8,9 composited A	Soil Collection Module Herizon (A. B. C)
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SOIL DEPTH MEASUREMENT, Measure to the nearest 0.1 cm in center of intensive modules. If >30.5 cm, record as >30

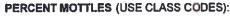
	-	i litter+ organic depth	2 litter	water depth	depth sat
٦.	nod#	(cm)	depth (cm)	(cm)	ooil (cm)
	3	1.3	13	0	0
	4	1,9	1,9	0	0
~	4	7.4	2.4	0	a

Underlying Earth Surface*	Surface	Ground Cover	
(YEO01 - 100%)	percent	(Each ≤ 100%)	percent
Histosol	J	Coarse Woody Debris***	5%
Mineral Soil	100%	100 % Fine Woody Debris****	4%
Gravel-Cobble*	J	Liner	902
Boulder	1	Duff (Ferm.+ Humus)	1
Bedrock	1	Bryophyte- Lichen	2%
• Gravel-Cobble = 1/16-10*	*1/16-10*	Water	1
••Boulder => 10 in	ī.	Bare Soil	42
*** >5 cm in diameter	neter	Roed/Trail	1
	•••• <5 cm in diameter	Other	1

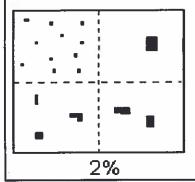
COVER BY STRATA	COVER BY STRATA selfmate using midpoints of 5,ex:3, 6, 13	x:3, 0, 13 %
Strate	Height Range (m)	Tetal Cover (%)
Tinee	5 .	985
Shrub	5.5.	8%
Herb	0.5	8%
(Floating)*		
(Aquatic)*		H
noted and #	rooted and floating or slightly emersed	8.
" submersed,	submersed, most plant mass below surface	surface
SEE BACK OF	SEE BACK OF PAGE FOR TYPICAL STRATA	STRATA

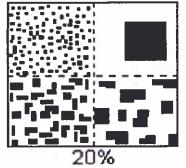
o Deer	n Gravel	Bootleg unsanctioned	a Hiking sanctioned	o Bridle	a All Purpose	Туре	record type and cover for each	NONE TRAIL INFORMATION:
		ned				%Cover	r for each	NON:

" submersed." " SEE BACK OF DESCRIPTION	(Aquatic)*	(Floating)*	Herb	Shrub	Tree	Sign of the state	SUMATE USING MICHOI
rooted and loating or slightly emersed ** submersed, most plant mass below surface ** see BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.			0.5	5.5.	5	Height Bange (m)	COVER BY SIRAIA selimate using midpoints of 5,ex:3, 8, 13
ed surface L'STRATA EY BY COVER TYPE			8%	8%	78%	Tetal Cover (%)	x:3, 8, 13
	□ < plot size	VI-3 x plot size	No x plot size	to 10-100 x plot size	a > 100 x plot size	a >600 x plot size	STAND SIZE



Class		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.

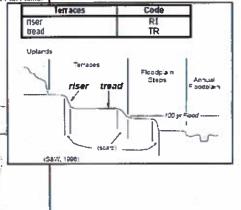
- 0= Organic
- 1= Loamy
- 2= Clayey
- 3= Sandy
- 4= Coarse Sand
- 9= Not measured make plot note

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

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

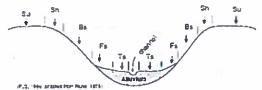
	T	ASIS IF HS NS SS BS
_		NS SS
_		NS SS
_		SS
_		SS BS
_		BS
	. Alex	
1		40
. 4	. A.	1./
	4	4

Oher order stream



Hitistope - Profile Position (Hillslope Position in PDP) - Twodimensional descriptors of parts of tine 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	B S
footslope	FS
toeslope	TS



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

UPLAND: Not a wetland. Very rarely flooded.

(FJS, 1005; adapt

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.