_			Comment annieral (Cityman in NO
Parking/Access outsid	e of Park Boundaries:	Y 🔊	Comment required if item answer is NO If yes, write details in Comments section below
Field journals comple	*	(V) N	if yes, while details in Comments section below
Site sketch made on 1	<u> </u>	N C	
Check cover page	X-axis Bearing of plot recorded	And I	
Check cover page	GPS coords. Recorded	S N	3
	North direction recorded	₩ N	
		N (Y)	
	Photographs taken? Relocated Pins Mapped	YN	None found
Dist No. Data sesses			Worke Shung
Plot No., Date agreem		W W	
Header data complete			P9 8
	d in all Intensive modules	1	
Browse Level By Spec		1 7	
Woody stem quality c		 	Check every line and cross check with the Tree Cover Sheet
Invasive plant quality	control check	Y N	N/A
Ash trees mapped		YN	N/A
Completed Forest Pes		N (S)	
Cover by Strata? (con		, Y N	0.40
	with matching plot #.	Y N	N/A
Cross check 2010 info	nnation	(Q) N	Highlight any changes from 2010 information
Vouchers labeled on d	atasheet with initials and number	YN	NONE
Vouchers labeled on c	ollection bag	Y N	
Pink flags removed		N (Y)	
Data sheet QA before	leaving site?	₹ N	- 35
Common equipment r	eturned to tub.	Y N	
Data sheets scanned?			Enter date to left
Final data sheets scan	ned?		Enter date to left
Buffer Widths measur	ed?	YN	
Web Soil Survey		Y N	
Voucher Location	Refrigerator	YN	
(# vouchers collected)	Press (#)		Enter number to left
Jano 1	Drier	Y N	
No	Identified	Y N	A CONTRACTOR OF THE PROPERTY O
	Mounted	YN	
	Thrown away	YN	
A 100 May 1			
GRTS point verificat	ion: Is plot sampleable?		
√ Yes	Original GRTS point is sampleable		
□ No	Original GRTS point lands in a non-	eamnleable area /f	ill in category below)
2 110	Depoint falls in a water (i.e. river.		in in entegory delowy
	Managed mowed area (i.e. golf		ht-of-way)
	Paved area (i.e. parkingiot, road)		
	☐ Unsafe to sample (i.e. steep slope	e)	
	Other	732	
Additional Comment	S:		

Minimum required fields in Bold and Underlined TAXONOMIC STANDARD vascul TAXONOMIC ACCURACY SAMPLING QUALITY* PLOT NOT SAMPLED: Plot No.: 33% GENERAL INFORMATION CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet Plot Name: Sloody Jun Day Wery thorough roject Label: PCAP Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc. roject Name: 07 By 7015 - Tyl Sewbooch Plot leader Level 4 (no nested corners sampled Level 5 (nested corners sampled) Paved Slope Safety modera. may still provide good sampling. Hurried plots how much effort put into subjective evaluation of 2010 not smp o Other © Random © Stratified Random © Transect component Plot placement: QGRA'S Photo Nos.: Camera No.: Plot size for cover data: GPS File Name: GPS location in plot x=0 to 5, y=-1,0,+1); Source of coordinates

MAP o Fuzz 100m o Fuzz 250m o Fuzz 500m Check one: Deblic data - Private Data Data Confidentiality: ■ Lat/Long □ UTM □ StatePlane Coordinate system: Coord. Accuracy: Datum: ■ NAD83/WGS84 □ NAD27 Local Place Names: Errorald Circle Quadrangle: Shaller LOCATION If data not public why? ntensive modulese 2. 3. 8. 9 1, 7, 3, LEDIT IF MODIFIED Landowner: CM *Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide Systematic (grid)

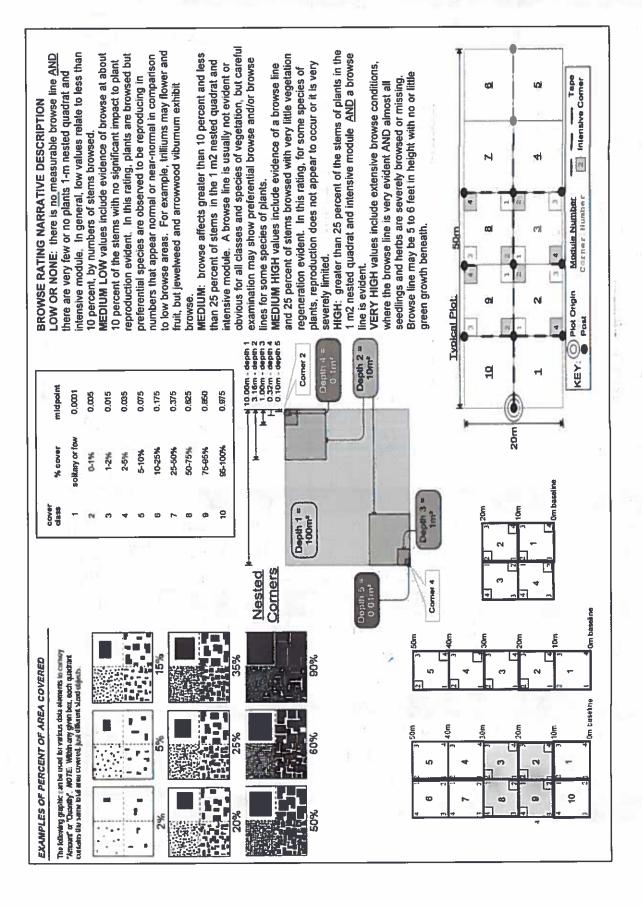
Capture specific feature

Other \bigcirc y= \bigcirc (base of plot x=0, y=0) X-axis Bearing of plot: 3350A County: Cuyahoga Representative deg 🗆 deg min Coord. Units ■ GPS (hectares) Vey New: No Canopy or shrub layer less top, Bromes Rational: GRTS pot Resumple content), Raffonale (why here), and Veg Characterization (description of community, dominants, strata, BROWSE). Additional notes in space on back. NOTES: Include Layout (any unusual shape details), Location (directions and undscape) Diagram Plot origin GPS location photo taken, point with direction Location: Park at the 2nd of Button 2d Walk approx 500m to the worst post the pond. Plot is located Layout: 1X4 No pins Journel Near 2013 meadow plot! Plot is between Brook and Bluestern planting on Mound intermixed hospitals OVER (Clurchard Matrupart Page 1 of 2 Tugzmy

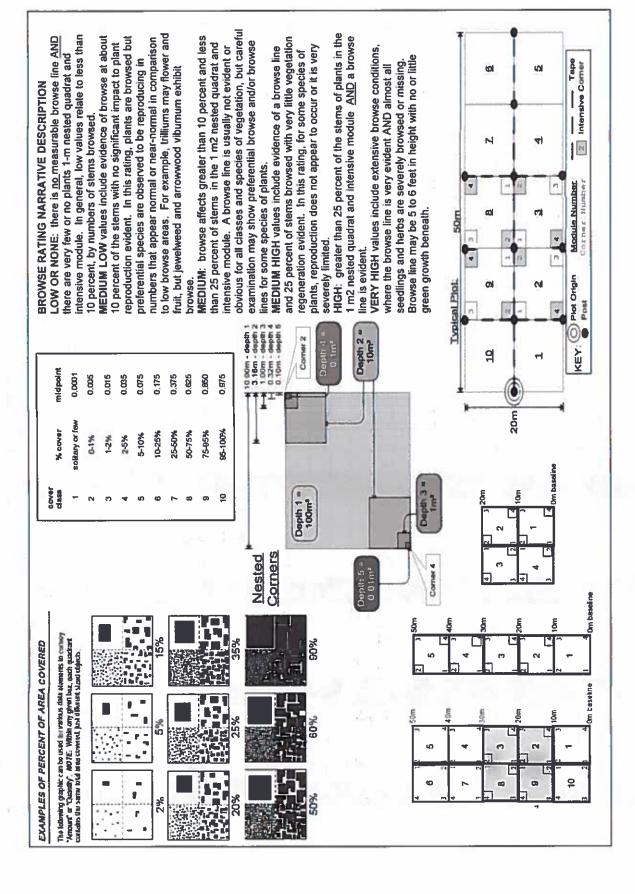
CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet
Project Label:

PCAP
Project Label:

PCAP
Project Label: Cleveland Metroparks Strata - Cov. entire plot Total modules: S H (F)(A) Br ري در دو 8 W Ø 5 a حو Solidago Phlewa CHALL Poa forces 2 Aster describe amount of browse per species over testucca ZYnws (WY &X Moss multillorg Kubus et bubani sais MALDERACA Asschapias Syriaca nilobium Appeynon Verbena Harostis Br = Browse Level. Use cover classes to JCS VM ver none attissand X007 Agrimenia parrilloru Aster they annicted? pre lensis [atoritle ruve \$ THE cibulpides e Physics Dove godina controdersis Species entire plot SEURANTO pakense SC OUGIUM CO araminitalia And repease out at folia hastata Gicantee Dip secus fullopon fi Serutionium Coloratur Connadiavina Wu Toingi de persiy ventury Š C 2 Intensive modules: %unveg. ground (bare soll) %unvegetaled open wat intensive module: Estimate for each 20100 %unveg. litter (bare litter) tea SRE Voucher# H(10) 3755 107-15 %open wate 51-2-0 r **(L** S W e S 814 نع depth voo b P T dept (A) mod comer Plot configuration: 900 COV 2 Q S \$ S 2 0 S S Ş D Plot no.: 33 80 1 6 Ē mod hХļ comer ğ depe mod 6 2 × 36 W ىرو د ٥ L T E mod comer Plot area (ha): O.OH ş ğ CG TO Page of 3 W × h D 0 COMMET **Q** § Θ (ğ ğ depen depth



Project Label: Total modules:	PCAP L	Project Label: PCAP Project name ○ 23€ 2015 Total modules: Unitensive modules: H Plot configu	0 236 20 15 Plot cor	Plot no.	× 4	Plot area (ha): O. G	ار
9		Estimate for each	med corner mod	2 2 4 2	corner mod corner mod	Corner mod corner mod o	comer mod
4	Br = Browse Level. Use cover classes to	intensive module:	depth cay depth	cov depth cov depth	Ugdep Acce queep Acce	uppe vec	depth depth
Metroparks	enlire plot	%unvegetated open water			1		
		%unveg. ground (bare soil)		4 -4	1		
S H (F) (A) Br	Species	c Voucher#	depth cav depth	cov depth cov depth	9	cov dapan	depth
○	Gramus Jalknus	2 57 57		بر	hi土	T Q U	
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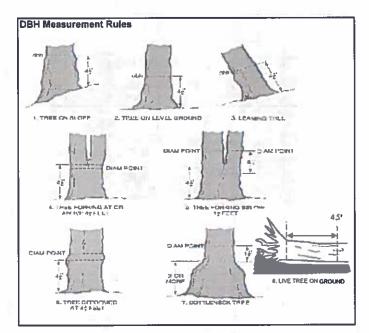
CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet

Project Label: PCAP Project name: 02800 Plot no.: 3380 % COVER Strata - Cov. entire plot 막 Species ဂ Prensence of tree mod mod mod R species (X) Voucher # Page 1 9

CLEV	CLEVELAND MI Project Label:	CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Project Label: Project Label: PCAP	ESSI	ent Program Tree Project name:	ပို	er Da	S S	heet	lot no.:	Pag
							ıll			l
% COVER	VER			Prensence of tree	po	pou po	рош		œ	
Strata -	Strata - Cov. entire plot			species (X)	1		+	290	2	
H	ğ	Species	O	Voucher #			+	+		
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mod # CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Rubus pansylvan Explain subsample (additional room on back) Rosa multiflora Orahogus sp Rosa multifluna Project Label: PCAP voucher# # stems 9 browsed 0-1.4m or super shrub sample | clumps % sub Project Name: 02/30/2015 size class (cm) woody stems >1.4m 0-<1 1-<2.5 25-<5 Plot No. 3360 5-<10 10-<15 15 - <20 • 20 - <25 Page: 25 - < 30 30 - <35 으 P gleveland Metroparks 35 - <40 5 >40 (record each tree) =



Woody Stem Deer Browse

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

Record using the tally system from 1 to













ASH CANOPY CONDITION

- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple,
- 2. Thinning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.
- Dieback: Canopy is thinning and some top branches exposed to sunlight are dead (have no leaves). Lower branches, not exposed to sunlight, die naturally and are not considered.
- 4. >50% Dieback: The canopy has less than half of the leaves that should be there and/or half of the top branches are dead.
- 5. Dead canopy: No leaves remain in the canopy portion of the tree. It still counts as a 5 even if there are epicormic sprouts below the canopy (lowest branch) on the trunk.



В

C

D

E

ASH CANOPY BREAKUP CONDITION (for dead trees):

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

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

Natural Resources Management FORM 2010-04a

If Ash Condition scores 5 (dead) provide breakup score (A-E)
 Count EAB exit holes 1.25m2 x 21.5m
 Woodpecker and epicormic marked present (1) or absent (0)

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detection	n/ Rapid response		Pre	sence		GPS	
		NE	SE	SW	NW		Presence
Microstegium vimineum	Japanese stiltgrass						X: yes
Ranunculus ficaria	Lesser Celandine						
	Black Swallow-wort						
	d) Flowering Rush						
Heracleum mantegazzianum	Giant Hogweed		\top	\vdash			
Tier 2: Asses:			# of	Plants		comments	
		NE	SE	SW	NW		# of Plants
Acer platanoides	Norway Maple				(,1300)		1: 1-10
Ailanthus altissima	Tree of Heaven	$\overline{}$		1	 		2: 11-50.
Lonicera japonica (vine	*	 	+	 			3: 51-100
ythrum salicaria (wetlan		+-	+	 		- -	4: 101-1,00
		1-	+	+			5: >1,000
		+-	+-	+	 	·	31,500
Celastrus orbiculatus (vin	· · · · · · · · · · · · · · · · · · ·	+	+-	+-	 		
Torilis sp.	Hedgeparsley	+	╅	+	 		_
Conium maculatum	Poison Hemlock	-	+	+	 	<u> </u>	\dashv
Rhamnus cathartica	Common Buckthorn (shrub	+	+				\dashv
Berberis thunbergii	Japanese Barberry (shrub)	4	+		 		
Alnus glutinosa	European Alder	 	+	₩			\dashv
Dipsacus laciniatus	Cut-leaf Teasel	-	+	 			⊣
Elaeagnus umbellata	Autumn Olive (shrub)	_	4—	╄		·	_
Lonicera maackii	Amur Honeysuckle (shrub)	4		↓			_
Euonymus fortunei Wintercreeper							_
Tier 3: Presence is of Interest				Plants		comments	
		NE	SE	SW	INW		# of Plants
Convallaria majalis (G-cove	r) Lily of the Valley						1: 1-10
Coronilla varia (G-cov	r) Crown Vetch						2: 11-50.
Eleutherococcus pentaphyllus	Five-leaf Aralia (shrub)			<u> </u>		<u>.</u>	3: 51-100
Pachysandra terminalis (G-cove	r) Japanese Pachysandra						4: 101-1,00
Philadelphus coronarius	Mock Orange (shrub)					5: >1,000
Pulmonaria officinalis (G-cove	r) Lungwort						
Rubus phoenicolasius	Wineberry		\top	Т	\Box		
Iris pseudacorus (wetlar	d) Yellow Flag Iris				\Box		
Ornithogalum umbellatum	Star of Bethlehem						
Viburnum opulus var. opulus	European Cranberry (shrub)						
Viburnum plicatum	Doublefile Viburnum (shrub)			1			
Tier 4: Widesprea		10000	Pre	sence		comments	7.
		NE	SE	SW	NW		# of Plants
Alliaria petiolata	Garlic Mustard						1: 1-10
Ligustrum vulgare	Common Privet (shrub)			1	_	<u> </u>	2: 11-50.
L. morrowii, L. tatarica	Bush Honeysuckles (shrub)	_	1	+	 		3: 51-100
Phalaris arundinacea	Reed Canarygrass		+	+-	 		4: 101-1,00
		+	+	+-	 		5: >1,000
	Japanese Knotweed	+-	+	+	+	<u> </u>	<u> </u>
Polygonum cuspidatum		+-	+	+	+		
Frangula alnus	Glossy Buckthorn (shrub)		-	+	1		\dashv
Rosa multiflora	Multiflora Rose (shrub)	+		+	+		\dashv
Typha angustifolia, T. x.glauca	Cattails (wetland)	+	-	+	+		\dashv
Cirsium arvense	Canada thistle	+	+	+-	+-+		_
Diameter feellen van	Common Teasel	1	1		1 I		1
Dipsacus fullonum		_	_		+ +	'	
Hesperis matronalis Vinca minor (G-cove	Dame's Rocket						

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

	0 0 0	Ie -	l/a	· -		10	ဖ	8	7	o o	Çħ	4	ш	2		mod #		CLEV
	Shrub (size class 2 or below including shrub clumps)	Tree (size class 3 or above)	Strata	IF EVIDENCE OF PEST OR PATHOGEN RECORD TOTAL SPECIES POPULATION IN THE PLOT EVEN		the contract						2 1, 400				species		CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Sheet Project Label: PCAP Project Name: 01 Se 2015 Plot No.: 3
			# of stem infected	ATHOGEN									- J.		uda uda	voucher#		Communit
			Severity (H,M, or L)	RECORD TO			1.0									shrub clumps	*	nity Assessme
				TAL SPECI									ţ		}	0-<1	size class (cm) woody stems >1m	nt Program Projec
			* Write None Present if no evidence:	ES POP					,							1-<2.5	m) woodv s	ogram Forest Pest and Pathogens Project Name: 01 13e 2015
			one Pre	JLATIOI												3 2.5-<5	lems >1m	est and
Valnut (Hemlock	Зеесh (F	sent if	H NI												5-<10		(Patho
Thousa	Hemlock (HWA)	Beech (Fungus)	no evide	E PLOT												5 10 - <15	╝	S Da
Walnut (Thousand Canker)			ince:													6 15 - <20		olot No.:
er)				THE NOT INFECTED												7 20 - <25		Data Sheet Plot No.: 338(
		•		T NFE												25 - <30		0
	. Other F	Asian L	i	STED				.								9 30 - <35		Page
	est or P	onghor.														10 35 - <40	1	
	Other Pest or Pathogen	Asian Longhomed Beetle														>40 (record each tree)		Cieveland Metroparks Of
				3	i de		11									2	1	+-

Medium = Less than 50% of leaf/needle cover exhibiting symptoms

Low = Only a few leaves or branches are exhibiting symptoms

High = more than 50% of leaffneedle cover exhibiting symptoms

Severity

CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface
Project Label: PCAP Project Name: 07 327015

Plot No.: 3360

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

EF!

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

@ Glaveland Makes parks Page: 1 of 1

3 i Anultine situation irrequired for emergent wellands) collected in 0 lim dip plots (23-22 cm) from comers i and 3 in each intensive module. Required for VIBI-E score calculation. C7-check when collected	time for energy from corners 1 an score calculation.	d 3 in each C?=check	intensive
Module #	C7	Corner Corner	Comer
	200		

CLASSIFICATION		
(FIT = corellent, g Fit and Confidence		
Hydrogeomerobic class (WETLANDS ONLY):		
DEPRESSION	Į.	Conf.
a IMPOUNDMENT a Beaver a Human		Conf=_
a RIVERINE a Headwater a Mainstern a Channel	Fit:	Conf=
a SLOPE (ground water by drology or on a physical slope)	₹ 	Conf=
o FRINGING o Reservoir o Natural Lake	7	Conf-
ti COASTAL (specify subclass)	File	Conf=
a BOG (strongly, moderately, weekly ombrotrophic)	Fitz	Conf=
Ohio EPA VIBLETANT Community Class (WETLANDS ONLY):	CTIN	
n FOREST n swamp forest n bog forest n forest seep	F	Conf.
o EMERGENT o marsh in wet meadow in open bog	=	Conf
O SHRUB O shoub swamp o tall sh. bog o tall sh. for	Fil=	Conf=

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liope 1 = sight elevational grade across module (NII) what for microhabitat features. Selections or select two and everage the score, NOTE: If mod falls on a slope automatically gets ranked besed on steepness (1-3) to begin + any features present Slope 2 = falls on slope -20° Stope 3 = maximum steepness that can be safely sampled -45°

- feature is absent or functionally absent from the wedard
- 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

mad# cerner (count)	1909	nassocks depth 3	no. of
76		harranocks uplands (Tip-Upz) depth 2 3 16c3 16m	no. of
00	,	depressions depth 1 10x 10m	no macro
0	3	(2-12 cm) depth 1 t0x (0m)	c.w.d cou
00)	(12-40cm) depth 1 10x10m	c.w.d count for pieces with minimum 1m length
9 0	7	>40 cm depth 1 10x10xz	nisimum 1m lengti cw:d
> 0	7	interspers. depth 1 10x10m	microhab.
9	7	SLOPE 10x10m	microhab.

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

+ \$1) degrees

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

+ 35 degrees +90 degrees 45 degrees At aspect

SE

+270 degrees +225 degrees

> € S.W

+315 degrees

Ž

corresponding space. (+ dots per grid square)	readings per module facing N. S. E. W. Place dol count in	CROWN COVER (DENSIOMETER). Male 4	
3	face dol count in	Make 4	

1	ω	2	-	3	F
6	•			Meduke	
96	20	96	96	2	The state of the s
96	06	96	96	S	anthe need on
36	96	96	96	m	
96	98	96	46	*	

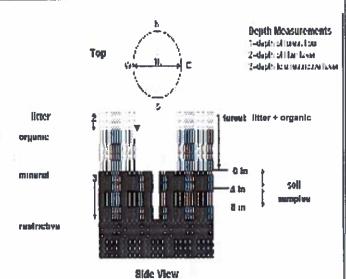
PACTE: baseck and hummocks are counted in BOTH nested quadrat corners but counts are aggregated.

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.



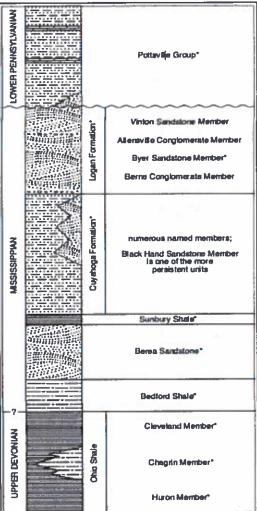


FIGURE 3-20.—Generalized section of Upper Devonian, Mississippian, and Lower Pennsylvanian formations in northeastern Okio Astatuks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed actors the area. The section is not to scale, but the thicknesses 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 "Carbonistrous," 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 distances. The Black Hand Member is a spectacular missive sandstone that is fairly widespread 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 took types.

CLEVELAND METROPARKS Plant Community Assessment Program - Soits, Crown Cover, Standing Biomass Data Sheet 6a Project label: PCAP Project Name: 52 By 2015 Plot No.:

3340

Citeresand Metroparks

Page: 1 of 1

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

Soil pit module # ____ (one per entire plot)

20 cm E CE matrix color matrix color lexture* extine. oxud roots oxid roots edox features** edox features** mottle tottle color ydr. cond *** onle color ≺ S M D Z z z

refer to texture classes on reverse side ydro. cond *** I S M D

** e.g. hydrogen sulfide odor, gleying, etc. include evidence of earthworms (worms, ndundated S-salurated M-moist D-dry

stings, middens)

1,2,3,4

Castings or muradours No ell teluna Ut garthum

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

Impermeable surface Soil Series Source: Ohio Soil Survey Soil Series/Type: Soil Collection Modul Horizon (A. B. C) Depth to rest. Layer. Somewhat poorty dr. Well drained andform type: Excessively dr. 3.8,9 composited arent Material: MINAGE* eb Sell Survey Inton Moderately well dr. Somewhat excessively Very poorly dr.

0.1 cm in center of intensive modules. If >30.5 cm, SOIL DEPTH MEASUREMENT: Measure to the neare ecord as >30 G organic depth C 0 9 I litter+ (cm) depth (cm) 2 litter water depth 9 depth sat soil (cm)

Underlying Earth Surface*	Surface*	Ground Cover	
(NO01 - 100%)	percent	(Each ≤ 100%)	percent
Histosol	0	Coarse Woody Debris***	0
Mineral Soil	1 00	Fine Woody Debris****	0
Gravel-Cobble*	0	Litter	-
Boulder**	0	Duff (Ferm.+ Humus)	0
Bedrock	0	Bryophyte- Lichen	2
Gravel-Cobble = 1/16-10	1/16-10"	Water	0
**Boulder = > 10 m	S.	Bare Soil	-
*** >5 cm in diameter	neter	RoudTrail	6
•••• <5 cm in diameter	meler	Other	

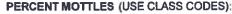
	(Floating)*	Herb	Shrub 2	Tree	Strata Height
-	•	42	· (5	75	ht Range (m)
	W	38	0	0	Total Cover (%)

3Dear	Conve	n Bootleg unsanctioned	o Hiking sanctioned	o Bridle	3 All Pupose	Туре	record type and cover for each	TRAIL INFORMATION:
6		-			T	%Cover	reach	3

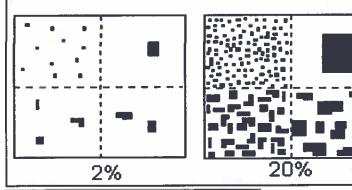
L				L			
□ < plot size	□ 1-3 x plot size	a 3-10 x plot size	a 10-100 x plot size	> 100 x plot size	a >600 x plot size	STAND SIZE	

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

submersed, most plant mass below surface



Class	С	ode	Criteria: % of
	Conv.	NASIS	Surface Area Covered
Few	ſ	큐	< 2
Common	c	#	2 to < 20
Many	m	#	≥ 20

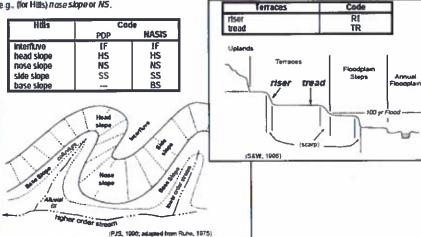


SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but 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

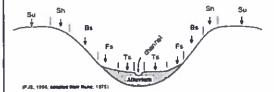
Geomorphic Component - Three-dimensional descriptors of parts of landforms or microfe atures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains;

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



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
lootslope	FS
toeslope	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

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