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TAXONOMIC STANDARD SAMPLING QUALITY* PLOT NOT SAMPLED: CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet Minimum required fields in Bold and Underlined TAXONOMIC ACCURACY GENERAL INFORMATION wery thorough Perm. water Plot No.: roject Label: Roles: Co-leader, Asst., Guide, Owner, Taxonomia, etc. roject Name: OR HI 2015 Accurate ate (mm/dd/yyyy): 07 / 08 2015 Good Hople Cree! nd date (if > 1 day) Level 5 (nested corners sampled) Level 4 (no nested corners sampled) ANCE Knauss □ Paved □ Slope □ Safety modera. subjective evaluation of may still provide good how much effort put into sampling. Hurried plots Pub Date: Role** (Sem Plot leader low o Other dus you Plot placement: LGRTS Source of coordinates

MAP Check one: Deblic data Derivate Date Quadrangle: West Random - Stratified Random - Transect component GPS File Name: x = O y = O (base of plot x=0, y=0) GPS location in plot x=0 to 5, y=1,0,+1): ■ Lat/Long □ UTM □ StatePlane o Fuzz 100m o Fuzz 250m o Fuzz 500m LOCATION Camera No.: Depth: (1-5): Other (specify) Coordinate system: Data Confidentiality: Photo Nos.: Plot size for cover data: If data not public why? Local Place Names oord. Accuracy: ntensive modules: + 3.8,9 atitude andowner: CMP Systematic (grid)

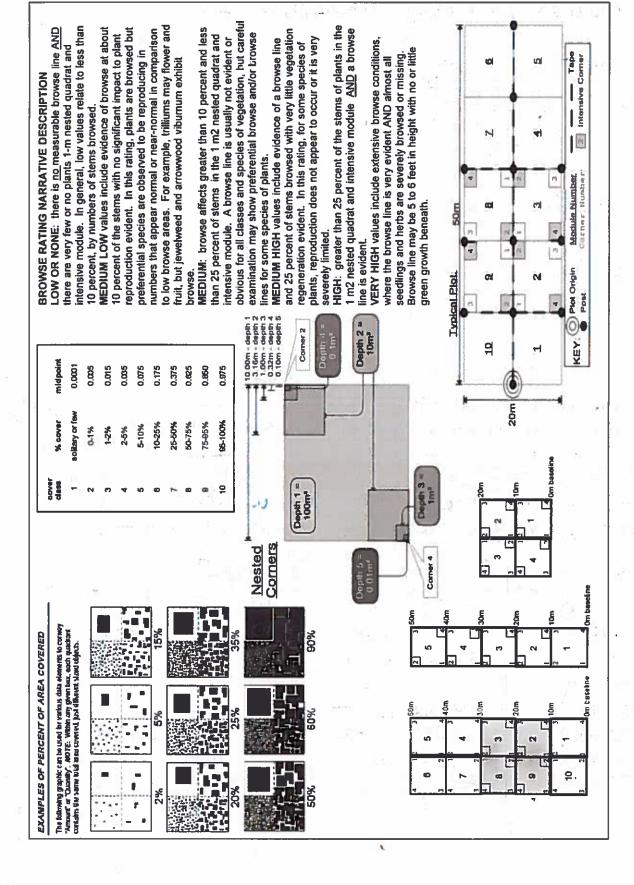
Capture specific feature

Other atum: ■ NAD83/WGS84 □ NAD27 *Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide X-axis Bearing of plot: o Representative deg o deg min Coord. Units ■ GPS hectares is black walnut and sugar maple, content), Rationale (why here), and Veg Characterization (description of community dominants, strata, BROWSE). Additional notes in space on back. very close to bridge trail. Canopy Veg. Characteristics > Plot is located NOTES: Include Layout (any unusual shape details), Location (directions and landscape with a large number of dead Rationale > GRTS point; PCAP re-sample Key: Ophic point Sprint Location > Plot is adjacent to bridge Layout > 2×3 trail, approx. 100 m south of green ash. Hinckley Hills Rd. Bridal Trail Parking Deer trail, NO PINS ON alion. photo taken, CENTER LINE (ChrulumdMulnum Page 1 of 2 location of OVER

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	mmunity Assessment P	rogram - Backgrou	nd Data Sheet	± 1	(A Clumbum Muhamba
Project Label:	1: PCAP	Project Name	Project Name: OAHI 2015	Ptot No.: 103(Page 2 of 2
MODIFIED NATURESERVE CLASS*			DISTURBANCES		
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The second secon	Service Committee of the Committee of th		Cut		
Meste Floodplain for	a tonesof		Animal		
HOMOGENEITY			**L=low, ML=med low	one. **L=low, ML=med low, M=med, MH=med high, H=high, VH=very high	-
	ם Compositional trend across the plot	ï	Current Land Use:	PARK	
nclusions	m mosaic		Former Land Use:	LANKATOWN	
	HYDROLOGIC REGIME*	SIME*			
	□ Upland (seldom flooded)	a Inter	□ Intermittently flooded		
SALINITY*	o Intermittently/seasonally saturated		a Semipermanently flooded		
o Saltwater	(seldom flooded)	a Perm	Permanently flooded		
O Brackish	ם Permanently/Semipermanent. saturated		□ Tidal/Seiche flooded daily		
O Fresh	(dry <1/yr, seldom flooded)		☐ Tidal/Seiche flooded monthly		
Coupland (n/a)	accasionally flooded (<1/yr)		□ Tidal/Seiche flooded irregular		
	□ Temporarily flooded	(e.g	(e.g. wind, storms)		
(by default unless plot is a wetland)		c Unknown	помп		
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)	ness of plot to the stand, success	sional status, maturity, et	(c.)		
Shub layer dominated by spicebush.	inated by	spicebush	7		
Lush herb layer Tr		bruatten	of desir	able natives and	
invasives. Chosphas	1.0	everal Ran	lanculas,	Seum, Virginia C.	ee per
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to reach canopy strata.	stata.			-	

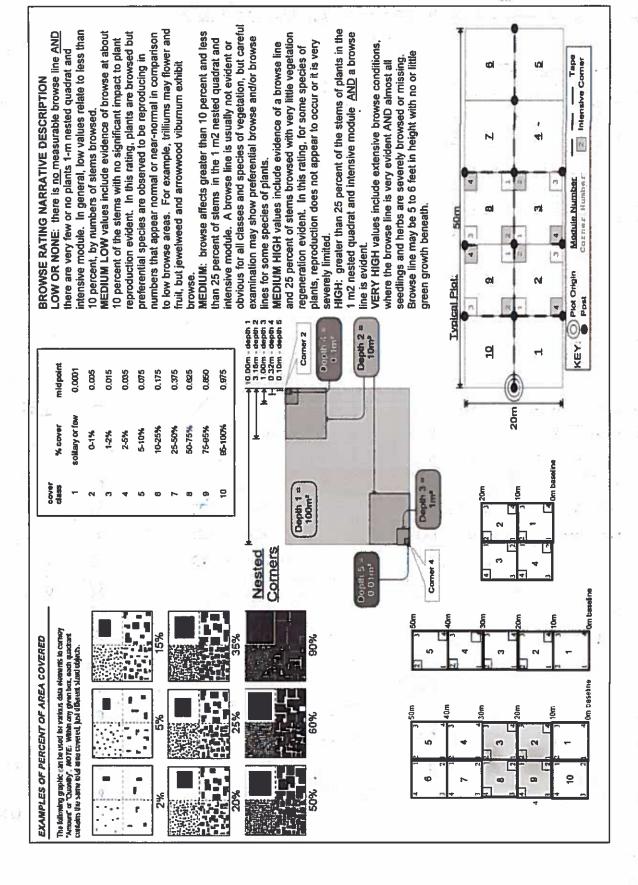
Project Label: Total modules: CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Project name: 1014; 2015 Plot no.: 102 Intensive modules: 4 Plot configuration: 2 × 3 Plot no.: 1021 Plot area (ha): , 06 Page of 3

⊗	Br = Browse Level. Use cover classes to describe amount of browse per species over	Estimate for each intensive module:	med corner med depth cov depth	depth cov	- B w Z	or L comer mod	BOY SU BONNIAN		Coy depth	pth cov
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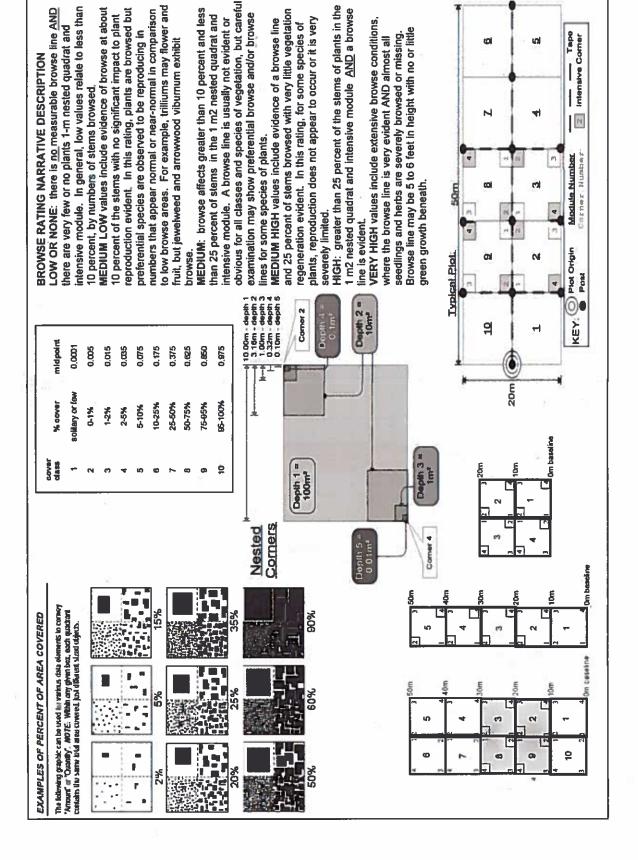


	S H (F)(A) Br	Strata - Cov. entire plot		ų,	Cleveland describe amov	Br = Browso	3		Total modules:	Project Label:	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet	
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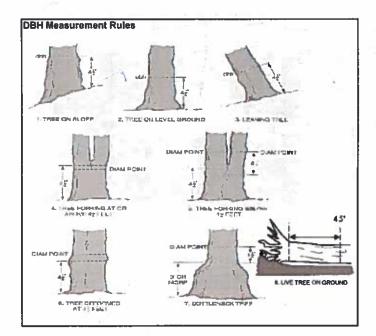
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CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet % COVER Strata - Cov. entire plot Project Label: **m** tarthe nocessus quinqueblic Juglans pigra traxinus pensylvanica Prince sentina their saccharum i crodendion till pile a llmus rubra corditacinis Species PCAP n species (X) | 2 5 Project name: Oaki 2015 Voucher# Plot no.: 1021 **7**0 20 Page _ ۲ عر

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CLEVE	Proje	% COVER	Strata - 1	⊢									1											,			į

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 2 Standing dead Acer Sacchaiam Explain subsample (additional room on back): LLIMUS SAMPLICATIO Prunus Scrotina blanum dulca mara VITIS QUSTAVALIS Standing dead Icer saccharum Liquistrum Vulgart Parthenocissus guingueldia Fraxinus pensiphonica Parthenodissus minaueto live Parthenocissus Acer saccharum Oxicoperation radicans arya cordiformis lugions nigra indera benzan indera benzoir ratarque Sp. drya contiformis indera benzoin Project Label: Quinquefoto PCAP *: * browsed 0-1.4m or super sample % sub Project Name: 8241 2015 4 <u>: ؛</u> shrub clumps size class (cm) woody stems >1.4m 2 1-<2.5 2.5-45 Plot No.: |02 5-<10 10 - <15 15 - <20 20 - <25 Page: 睫 30 - <35 (P) Gereiand Metroparks 35 - <40 5 4,5 5,3 42.42 46.7 >40 (record each tree) = 17 201 8 17 201 8



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.
- 3. 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

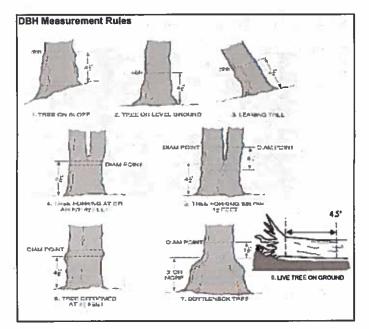
E

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.

R +03 CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet HPCAP Natural Woody Stem Data Sheet ver 2.0.xls last revised 3/29/2912-jin hosa much flora Parthenbossus Standing duad Explain subsample (additional room on back) Prunus suntine Parthenocissus a Kosamultiflora Parthenocissus guing wholia Standing dead NITIS UP Acer Saccharum Standing dead Kosa muttiflora Toxi codendron radicans Froxinus pensulvanica -igustrum vulgar traxious penositianica Windera benzon ualans high limus rubra Surratherns Murry inderal benzoin tratacque sp indent benzin variations Sp Saccharum Project Label: 8 without the ling up Bul voucher# gi, 3 U 33 prowaed 0-1,4m SITTE or super % sub Project Name: 02日 23 . 7 shrub 量 size class (cm) woody stems >1.4m 25 2 1-<2.5 - 8 2.5-<5 Plot No .: 1024 1 5×10 10-<15 (A 15-20 9 20 - <25 Page: • 25 - <30 CAL Management FORM NR/2010-038 30 - <35 잌 (D) Gleveland Metroparks 35 - <40 5 4.6 >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













ASH CANOPY CONDITION

- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
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- D: Stem still standing and tertiary main branches present.
- E: Central stem still standing.

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



	100								
Tier 1: Earl	y detection/	Rapid response				sence		GPS	
				NE	SE	SW	NW		Presence
Microstegium vimineum	161	Japanese stiltgrass			-	_	\vdash		X: yes
Ranunculus ficaria		Lesser Celandine			₩	╄	\vdash		4
Cynanchum louiseae		Black Swallow-wort		<u> </u>	_		\perp		4
Butomus umbellatus		Flowering Rush				<u> </u>	\vdash		
Heracleum mantegazzianı		Giant Hogweed							
Tie	2: Assess a	s Needed				Plants		comments	
		though the second		NE	SE	SW	NW		# of Plants
Acer platanoides		Norway Maple							1: 1-10
Ailanthus altissima	3	Tree of Heaven							2: 11-50.
Lonicera japonica	(vine)	Japanese Honeysuckl	e						3: 51-100
Lythrum salicaria	(wetland)	Purple Loosestrife							4: 101-1,000
Aegopodium podagraria	(G-cover)	Bishop's Goutweed							5: >1,000
Celastrus orbiculatus	(vine)	Asian Bittersweet							
Torilis sp.		Hedgeparsley		-					
Conium maculatum		Poison Hemlock							
Rhamnus cathartica		Common Buckthorn	(shrub)						
Berberis thunbergii		Japanese Barberry	(shrub)						
Alnus glutinosa		European Alder							
Dipsacus laciniatus	W 10	Cut-leaf Teasel							
Elaeagnus umbellata		Autumn Olive	(shrub)						
Lonicera maackii	11 %	Amur Honeysuckle	(shrub)						
Euonymus fortunei		Wintercreeper							
	: Presence is	of interest			# of	Plants		comments	
				NE	SE	SW	NW:		# of Plants
Convallaria majalis	(G-cover)	Lily of the Valley							1: 1-10
Coronilla varia		Crown Vetch							2: 11-50.
Eleutherococcus pentaphy	yllus	Five-leaf Aralia	(shrub)						3: 51-100
Pachysandra terminalis		Japanese Pachysandr	a		\top				4: 101-1,000
Philadelphus coronarius		Mock Orange	(shrub)						5: >1,000
Pulmonaria officinalis	(G-cover)								7
Rubus phoenicolasius		Wineberry			1				
Iris pseudacorus	(wetland)				†				┑
Ornithogalum umbellatun		Star of Bethlehem			1				7
Viburnum opulus var. opu		European Cranberry	(shrub)	\vdash	†	1			7
Viburnum plicatum		Doublefile Viburnum			+				\dashv
	Videspread :	and abundant			Pre	sence		comments	
				NE	SE	sw	NW	W-1	# of Plants
Alliaria petiolata		Garlic Mustard							1: 1-10
Ligustrum vulgare		Common Privet	(shrub)	1	\top	1			2: 11-50.
L. morrowii, L. tatarica		Bush Honeysuckles	(shrub)	1		1			3: 51-100
Phalaris arundinacea		Reed Canarygrass	(514 45)	1	+	1	 		4: 101-1,000
Phragmites australis	(wetland)	Phragmites		t	+				5: >1,000
Polygonum cuspidatum	(Tructianu)	Japanese Knotweed			+		 		
Frangula alnus		Glossy Buckthorn	(shrub)	\vdash		1	 		┥
Rosa multiflora		Multiflora Rose	(shrub)			1	 		┪
Typha angustifolia, T. x.gla	21102	Cattails (wetland)					 		┪
Cirsium arvense	auta .	Canada thistle		+	1	+			7
Dipsacus fullonum		Common Teasel		\vdash	+	+	 		-
		}			+	┼──	 		\dashv
Hesperis matronalis	IC acres	Dame's Rocket		+	+	-	 		\dashv
Vinca minor	(G-cover)	Periwinkle				<u> </u>			

Note: For Ground-cover plants record "stem #" but in comment field describe # of colonies and patch size (5,M, L)

SRE_CM PCAP Forest Pest and Pathogen Data.xls last revised 6/10/2015 jjm

Exple		mod #		2	ω	4	O1	6	7	œ	ω ω	9 8
Explain subsample (additional room on back):		species	No prisence	0								
on back):	,	voucher#	6									C 1000000000000000000000000000000000000
1	% sub or super	sample										
1 2	##	dumps									ì	
riujed Nalle, Or n. 12-17	size class (cm) woody stems >1m	<u>3</u>										
710	(cm) wood	1-<2.5										
	ty stems >	2.5-<5			2.1							
		5~10	,			- T						
FOI NO. 100	Un	10 - <15 15										
100	5	15 - <20										
	7	20 - <25										
Tage G	Cro	25 - <30										F
-	ю	30 - <35								-	100	
_ _	16	35 - <40										
	=	- <20 20 - <25 25 - <30 30 - <35 35 - <40 >40 (record each tree)						2				

Strata	Total % Cover
Tree	
Shrub	
Herbacous	

-Beech (Fungus)	* Write None Present if no eviden
-Asian Longhorned Beetle	widence: None

-Hemlock (HWA) -Other Forest Pest or Pathogen

-Walnut (Thousand Canker)

) .

collected
module. Required for VIBI-E score calculation. C?=check when
in 0, Im clip plots (32x32 cm) from corners 1 and 3 in each intensive
STANDING BIOMASS (required for emergent wetlands) collected

Module #	C?	Comes	Comer
		ili	

CLASSIFICATION			
(FIT = excellent, g Fit and Confidence			
Hydreggemerahk class (WETLANDS ONLY):			į
DEPRESSION	Fig	Conf	
O IMPOUNDMENT IS Beaver IS Human	- F	Conf-	
o RIVERINE o Headwater o Mainstein o Channel	ET .	Conf.	
C SLOPE (ground water brdrology or on a physical slop)	F 1	Conf.	
o FRINGING o Reservoir o Natural Lake	FIC=	Conf =	
a COASTAL (specify subclass)	Fit=	Conf	
a BOG (strongly, moderately, weekly ombretrophic)	Fit=	Conf=	
Ohio EFA VIBI Flant Community Class (WETLANDS ONLY):	CLAING		
a FOREST a swamp forest a bog forest a forest seep	7	Conf	
u EMERGENT o marsh o wet meadow in open bog	7	Conf-	
a SHRUB a shoob swamp a tail sh, bog a tail sh, fen	Film	Confa	

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

lope 1 = sight elevational grade across module (hill) what for microhabited thebures. Selections or selections and everage the score.NOTE: If modifield on a slope automatically gets ranked based on steepness (1-3) to begin + any feetures present Slope 2 = tats on slope ~20* Slope 3 = maximum sleepness that can be safely sampled -45°

- feature is absent or functionally absent from the wedlend
- feature is present in the wettend 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 feeture is present in moderate or greater amounts and of highest quality

61	7	2	-	medil						
		١	1	CBFBCF						
0	0	o	0	(count)	ixim	depth 3		tussocks	no of	
0	0	0	ø	(count)	3.16x3.16m	depth 2	uplands (Tip-Ups)	hummocks	ne. of	Contract of the contract of th
2		2	2	(count)	10x10m	depth 1		depressions	по. пасто.	
8	2	22	ō	(count)	10x10m	depth 1		(2-12 cm)	p./a/2	
0	G		:: 4	(count)	10x10m	depth 1		(12-40cm)	cwid	
0	0	0	Ø	(count)	10%1000	depth 1		×40 cm	c.w.d	
w	4	w	n	(rank)	10x10m	depth 1		interspers.	microhab.	
-				(rank)	10x10m	SLOPE	117		niemhab	

** Termin Shane Index (site microtopographic shape) Landform Index (position within landscape)

McNAB INDICES (degrees) + for up - for down

FILLED OUT USING OIS PROGRAM - DO NOT FILL OUT IN FIELD]

+315 Jegroes	+270 degrees	+225 degrees	+ Rt) degrees	+ 35 degrees	90 degrees	45 degrees	Al aspect	
WW	*	WS	(A	SE	co	ZE C	z	
								1.FJ+
								IST

CROWN COVER (DENSIOMETER): Make 4 readings per module facing N. S. F., W. Place dot count in corresonding space. (4 dots per grid square)

1	1	1	1	Medak
0.	N	2		
S X	30 3	25	6	2
e e	970	0	S	S
30	S	12	0	es
-	6	0	W	¥

PACITE: Suspeck and hummocks are counted in BOTH nested quadral corners but counts are aggregated.

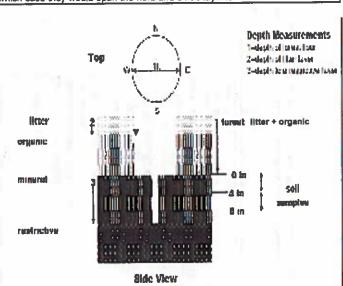
		ΔΤΔ

00121121					
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.



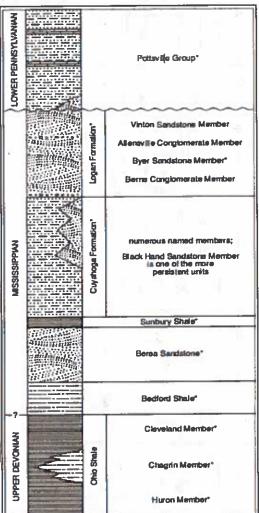


FIGURE 3-20.—Generalized section of Upper Devenian. Ministippian, and Lower Pennsylvanian formations in northeastern Ohio. Asteriaks institute units that are feasibletons. This composite section represent about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The north wavely is used in the older literature to refer to Ministippian rocks in Ohio. Some geologists use the European term 'Carboniferous, 'which encompanies the Ministippian and Pennsylvanian Periods of the U.S. Many innit have been named within the Cuyahoga Formation, but more using 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 Collina (1978) for more information on Ministippian rocks in Ohio. See figure 3-18 for explanation of rock types.

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Blomass Data Sheet 6a
Project label: PCAP Project Name: 02 4 2015
Plot No.: (02)

Cicretand Metroparies

Page: 1 of 1

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

Soil pit module # (one per entire piot)

20 cm 8 CH metrix color matrix color stoor bux estoor bex edox features** monte dr. cond. *** ottle color ottle color SMD

ydro. cond *** _ \$2 Z D

odox features**

<

z

refer to texture classes on reverse side

** e.g. hydrogen stillide odos, gleying, etc.

lotes: include evidence of earthworms (worms indundated S-saturated M-moist D-day

-castings

2-worm (# present, 2 015)
5-presence of wormeds 6 1.1
6-nowlarms, but castings

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

o impermeable surface Soil Series/Type: a Somewhat poorly dr. Well drained Soil Series Source: Ohio Soil Survey Soil Collection Moduli Herizon (A. B. C) Excessively dr. Depth to rest, Layer. 3.8,9 composited andform type: rent Material to Sell Servey Interns AINAGE: Moderately well dr. Somewhat excessively a Very poorly dr.

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

5	2	1	mod#
4.0	015	0,3	t litter+ organic depth (cm)
4.0	0.5	6,0	2 litter depth (cm)
			water depth (cm)
			depth sat
	5 0.4 0.4	2 0.5 0.5	, l lo

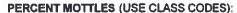
Underlying Earth Surface*	h Surface*	Ground Cover
(NG001 - 10030)	percent	(Each ≤ 100%)
Histosol	1	Coerse Woody Debris***
Mineral Soil	7/1862	Fine Woody Debris****
Gravel-Cobble*	2%	Litter
Boulder**	1	Duff (Ferm.+ Humus)
Bedrock	1	Bryophyle- Lichen
• Gravel-Cobble = 1/16-10*	* 1/16-10*	Water
••Boulder=> 10 in	5	Bare Soil
•••>5 cm m diameter	neter	Road/Trail
2		

Strate	Height Range (m)	Total Corer (%)
Tree	7	200
Herb	0 /	93
(Floating)*		

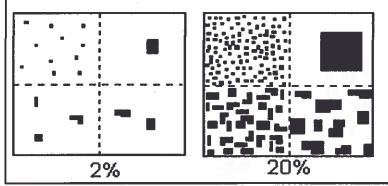
2 Grave	a Bootleg unsanctioned	Hiking sanctioned	o Bridle	a All Purpose	Туре	record type and cover for each	TRAIL INFORMATION:
5 9				T	%Cover	w each	2

a < plot size	a 1-3 x plots	3-10 x plot	0 10-100 x pl	= > 100 x plot size	n >600 x plot	STAND SI	
	E.	şıze	plot size	SIZE	size	JE J	

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



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

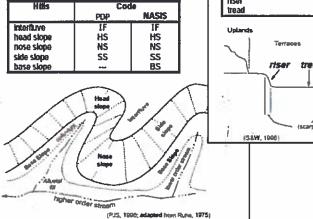


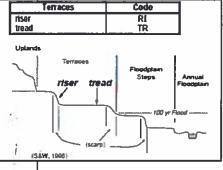
SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but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

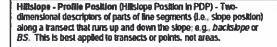
- 0= Organic
- 1= Loamy
- 2= Clayey
- 3= Sandy
- 4= Coarse Sand
- 9= Not measured make plot note

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

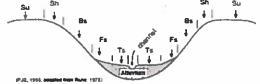
e.g., (for Hills) nose slape or NS.







Position	Code	
summit	SU	
shoulder	SH	
backslope	BS	
footslope	FS I	
toeslope	TS	
Su Sh		
T 1 1		



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.