Minimum required fields in Bold and Underlined o Hurried SAMPLING QUALITY\* □ Perm. water □ Paved □ Slope □ Safety TAXONOMIC STANDARD pryo vascul. n Accurate PLOT NOT SAMPLED: TAXONOMIC ACCURACY CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet g Very thorough Date (mm/dd/yyyy):05 / 33/ doiD Plot No.: Project Label: GENERAL INFORMATION Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc. End date (if > 1 day): roject Name: Greenboner 442 Level 4 (no nested corners sampled) Level 5 (nested corners sampled) 96. きれる Or WC PCAP modera. may still provide good sampling. Hurried plots how much effort put into subjective evaluation of Pub Date: Plot leader Bosing/wyou low 0,00 MUDO n Other not smp п/a < 1998 State: Depth: (1-5): 4 Plot size for cover data: GPS File Name: 1/36 A ■ Lat/Long □ UTM □ StatePlane GPS location in plot x=0 to 5, y=1,0,+1): o Fuzz 100m o Fuzz 250m o Fuzz 500m Check one: gr Public data - private Data Photo Nos.: Camera No.:\_ □ Stems present Plot size stems O. ( Coordinate system: Data Confidentiality: Quadrangle: Clevelind Smoth Intensive modules: 2, 3, 8, 9 Stems not sampled on this plot 

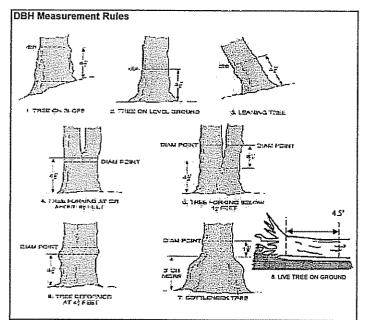
Stems absent Datum: ■ NAD83/WGS84 □ NAD27 If data not public why? LOCATION Coord. Accuracy: øm of \*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide \_andowner: Local Place Names: ongitude: 081, 69235 atitude: Other (specify:) West Creak Land Cill X-axis Bearing of plot: ОН <u>.</u> ひずら (base of piot x=0, y=0) 38466 County: Coy **■** deg □ deg mun 🛢 m ០៧ ០ Coord. Units (ha) EDIT IF MODIFIED (hectares) Vet Departe WC Plot. Mapie (res), three seedlings c Transect component to Systematic (grid) to Capture specific feature to Other

NOTES: Include Layout (any unusual shape details), Location (directions and landscape 3-10 modu is to largest service berry over @ Norm DBH bue berry also a Magnoin acom. Just I of M. 2 Outside to pior I saw some ML viboumm and more in. Just a few locky seembies in to show while represently the commentype the point fell content), Rationale (why here), and Veg Characterization (description of community, Diagram Key: Stend with some Black from, SessAlforss, beach mixed trying to have the least topographic toristion luyer love granting climed a top up into the top lugar Layout dx5, crosses over a formmants, strata, BROWSE). Additional notes in space on back. Retionale originally laid out in April by Terry, Sarah Eyeseabach and myself B. Nogan, we wer ruis perpandister to stope of large hill + Maple, Herb layor 13 all Avanbrier and O Plut origin S GPS location rails were #10 0 4: 15 15 socie fort-read and photo taken, with direction Ŧ **1**:7 Octovoland Metroparks 10ck (inst, white) Page 1 of 2 location of permanent posts OVER

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	/ Assessment Prograr	n - Background Data	Sheet					Cloveland Motroparks
Project Label:	PCAP	Project Name:				Plot No.: 115 C	115 €	Page 2 of 2
CLASSIFICATION		STAND SIZE	DISTU	DISTURBANCES				
(FIT = excellent, good, fair, poor. CONF = high, med, low)	Fit and Confidence	a >1,000 x plot size	type*	severity**	yrs ago	% of plot	description	
Hydrogeomorphic class (WETLANDS ONLY):		a > 100 x plot size	Human					
DEPRESSION	Fit=Conf=	z 10-100 x plot size	Naturai					
o IMPOUNDMENT o Beaver o Human	File Confe	a 3-10 x plot size	Fire					
□ RIVERINE □ Headwater □ Mainstem □ Channel	FireConf=	□ 1-3 x plot size	Cut					
G SLOPE (ground water hydrology or on a physical slope)	Fit=Conf=	□ < plot size	Animal	エン		(00	Brovee	
D FRINGING D Reservoir D Natural Lake	Fit Conf	DRAINAGE*	Other	J	G	ŝ	Tweil	
COASTAL (specify subclass)	Fit=Conf=	□ Excessively drained	**L=low,	ML=med low	, M=med,	MH=med	**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high	very high
n BOG (strongly, moderately, weekly ombrotrophic)	Fir Conf	Somewhat excessively	Current I	Current Land Use: P	Park			
Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):	NLY):	□ Well drained	Former L	Former Land Use: 6	Paur	Loud	Loudfill char h	<i>t</i> ,
□ FOREST □ swamp forest □ bog forest □ forest seep	Fit=Conf=	n Moderately well dr.	HYDR(	HYDROLOGIC REGIME*	EGIME	*		
□ EMERGENT □ marsh □ wet meadow □ open bog	FireConf=	n Somewhat poorly dr.	M Upland	WUpland (seldom flooded)	(g)		n Intermittently flooded	pepo
o SHRUB o shrub swamp o tall sh. bog o tall sh. fen	Fit= Cont=	a Very poorly dr.	o Intermit	□ Intermittently/seasonally saturated	lly saturate	70	☐ Semipermanently flooded	/ flooded
MODIFIED NATURESERVE CLASS*	;	🗆 Impermeable surface	(seldom	(seldom flooded)			a Permanently flooded	ded
CODE (on separate form): $A \mid (c^3)$	Fit= Conf M	SALINITY*	o Permane	o Permanently/Sempermanent. saturated	nanent. sal		n Tidal/Serche flooded daily	ded daily
COMMUNITY NAME:		o Saltwater	(dry <1/	(dry <1/yr, seldom flooded)	oded)		n Tidal/Serche flooded monthly	ded monthly
Dry Cak Forest	(Mapie/Oxil foust)	🗅 Brackish	n Occasion	n Occasionally flooded (<1/yr)	<1/yr)		n Tidal/Serche flooded irregular	ded irregular
LANDFORM TYPE*: LIII / CILLIA	8	n Fresh	a Tempora	a Temporarily flooded			(e.g. wind, storms)	ls)
1000 / 1011		Upland (n/a)					n Unknown	
HOMOGENEITY	Additional notes & diagr	Additional notes & diagrams: (Representativeness of piot to the stand, successional status, maturity, etc.)	f piot to th	e stand, succe	ssional sta	tus, maturi	ity, etc.)	
Homogeneous								
□ Compositional trend across the plot	***************************************							
n Conspicuous inclusions								
ם Irregular/pattem mosaic	1							
								-
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		***************************************		***************************************				

Troisin notation:
Product   Prod
Pot configuration: \(\frac{1}{2}\times\frac{1}{2}\)   Pot arrea (ha): \(\frac{1}{2}\). \(\frac{1}{2}\)   Pot arrea (ha): \(\frac{1}{2}\). \(\frac{1}{2}\). \(\frac{1}{2}\)   Pot arrea (ha): \(\frac{1}{2}\). \(\frac{1}\). \(\frac{1}{2}\). \(\frac{1}{2}\). \(\frac{1}{2}\). \(\fr
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Injuration: 175   Plot area (ha): O-
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mod # CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet ٧J 2 Quais ally 3 Amalanchier Sp. 2||Sm///ax TENNIH JA Nyssu Standing drad Aler rubrum Quecus coccin Pa Promos Some ting QUIROUS ruly Explain subsample (additional room on back): Stand Its Ofact 57,400/1-3 1856N Acer rubrum メッジアン Yalims Querios rubing Aver roman Quecus W (- '# Standing dead TO NIE 5-11 NOTICE species たばれ Project Label: 20 n PCAP voucher# or super % sub sample Project Name: 616(2010 clumps shrub U٦ い QΩ #Ł size class (cm) woody stems >1m 7 7 1-<2.5 • 2.5-<5 Plot No.: 1134 5-<10 10 - <15 | 15 - <20 | 20 - <25 Page: 25 - <30 30 - <35 o (R) Cleveland Metroparks 35 - <40 ä 40.5 1 2 2 >40 (record each tree) \*\*\*

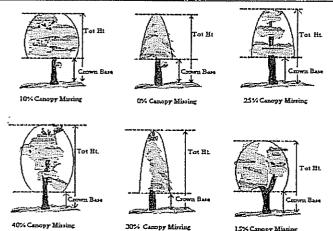


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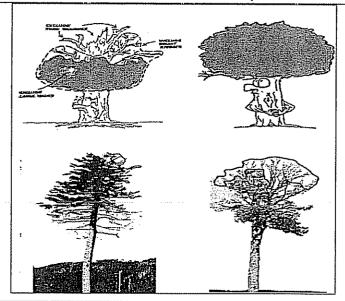
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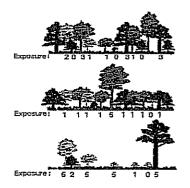
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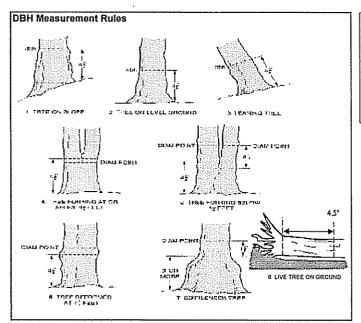
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1	CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sneet Project Label: PCAP Project Name: Otwored Victoria	I Co	PCAP	Projec	Project Name: Oi w(2010	Oi wez	cio	ody ste	Plot No.: 1136	1136	•	Page:	2	으 -	Sclevel:	Cleveland Metroparks
	Explain subsample (additional room on back):	on bac	ck):													
} t	230			% sub	# shrub	size class (cm) woody stems >1m	(cm) woo	ody stems	>1 m		† 61 50	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	25 8 25 25 25 25 25 25 25 25 25 25 25 25 25	9 9 9	10	11
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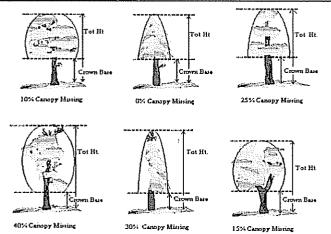


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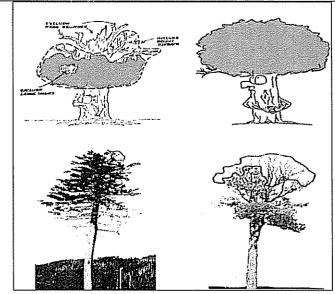
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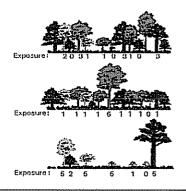
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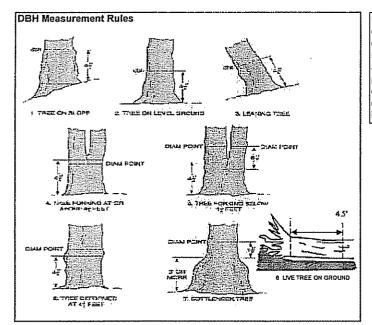
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CLEI	CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Project Label: PCAP Project Name: つしゅくかし Plot No.: トラ	ı, nt	Community As	sessmei Projei	nt Progr ct Name:	ssment Program Natural V Project Name: <u>Ol wくんし</u>	iral Woo	ody Ster	m Data Sheet Plot No.: │ ♦3७	heet     36		Page:	3	of (	Cloveln	Cloveland Metroparks
	Explain subsample (additional room on back):	n on	back):													
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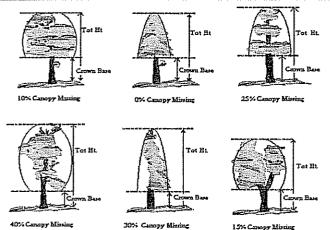


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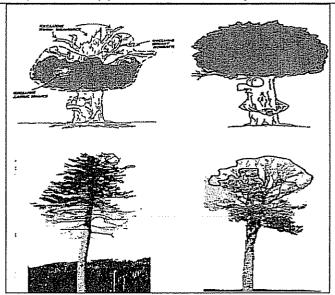
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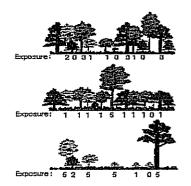
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Project label: PCAP CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet Project Name: 0 | w(1016

Plot No.: 1/56

(P) Cleveland Metroparks

Page: 1 of 1

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

Soil pit module # 3 (one per entire plot)

matrix color 10 /R3/2 mottle color ////// %mottle		:				20 cm							5 cm
S D D D S D D S D D D D D D D D D D D D	I s N	Y	texture*	Y		matrix color 10 YR 7/6	1 S 🐼	Υ,	texture*	Y	%mottle $O\gamma$	_	matrix color 10 YR3/2

- refer to texture classes on reverse side
- \*\* e.g. hydrogen sulfide odor, gleying, etc.
- \*\*\* Circle one:

=indundated S=saturated M=moist D=dry

than local Hit shape Pit Barely mage soil pit deeper Contained large Centifeete-

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

Soil Collection Module	Horizon (A, B, C)
2,3,8,9 composited	A
Soil Senes/Type:	
Soil Series Source: Ohio Soil Survey	rvey
Rock Type*	
Surficial Deposits**	
Soil Description/notes:	
ō.	Purt hussin i
14 Soil Samples	
<ul> <li>refer to 8.1.5 rock type - most common limestone, sandstone, shale</li> </ul>	non limestone,
** refer to 8.1.9 surf dep list	

GEOMORPHIC POSITION HILLSLOPE POSITION	HILLSLOPE POSITION
o interfluve	O Summit
□ Head siope	Shoulder
□ Nose slope	n Backslope
&Side slope	n Footslope
о Base slope	n Toeslope
o Terrace riser	
□ Terrace tread CHECK ONE B	CHECK ONE BOX IN EACH COLUMN

count in corresonding space. readings per module facing N, S, E, W. Place dol CROWN COVER (DENSIOMETER): Make 4

(4 dots per grid square)

9	8	LJ	2	Moduic
_	0	0	2	z
	0	0	0	S
<b>次</b> O	1	_	0	Е
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(32x32 cm) from corners 1 and 3 in each intensive STANDING BIOMASS (required for module. Required for VIBI-E score calculation. emergent wetlands): collected in 0. im clip plots C?=check when collected

/lodule#	· C?	Comer Comer	Comer

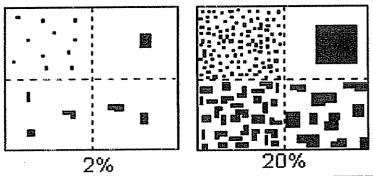
PHYSIOGNOMY	<b>~</b>	SEASON
X(1 Forest	na tale tale t name	Typ grow season
□ II Woodland		u Vernai
c III Shrubland		ם Aestival
n IV Dwarf shrubland	bland	o Autumnal
□ V Herbaceous		o Winter
□ VI Nonvascular		a Temp. flooded
VII Sparsely vegetated	getated	🗆 Temp. dry
lo VIII Barren		

PERCENT MOTTLES (USE CLASS CODES):

higher order atroom

(P3S, 1095; adapted from Rune, 1975)

Class	C	ode	Criteria: % of
	Conv.	NASIS	Surface Area Covered
Few		n. TI	< 2
Common	c	#	2 to < 20
Many	m	扩	≥ 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

summil

shoulder

backslope

footslope

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 Flat Plains: e g., (for Hills) nose slope or NS. Code Terraces RI riser Hills tread PDP NASIS interfluve [F Unlands head slope HS HS Terraces NS NS nose slope Floodplain side siope base siope SS SS Annual riser tread Flaodaia n Head

(SAW, 1998)

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.

SU

SH

BS

toeslope	1 12			
_ Sh			\$ħ	Su
Su	61		83 1	1
	1	and Fa	¥ /	•
`		FS FS		
		الرازا	,	
	ABUY	luin		
(Pub. 1894, acroma from	Hang. 19751			

PHYSIOGNOMY — Formation Classes and are defined by the relative percent cover of the tree, shrub, dwarf shrub, herbaceous, and nonvascular strata

- FOREST Trees over 5m with crowns interlocking (generally forming 60–100% cover) Shrubs, herbs and nonvascular plants may be present at any cover value.
- WOODLAND Open tree stands usually over 5m tall with crowns not usually touching (generally forming 25-60% cover) Shrubs, herbs, and nonvascular plants may be present at any cover value.
- SHRUBLAND Shrubs and/or small trees usually 0.5–5.0 meters tall with individuals or clumps not touching to interlocking (generally forming >25% canopy cover). Trees may be present but with cover 10 percent or less. Herbs and nonvascular plants may be present at any cover value.
- DWARF SHRUBLAND Low growing shrubs and/or dwarf trees usually under 0.5m tall (though known dwarf forms between 0.5 and 1m can be included), individuals or clumps not touching to interlocking (generally forming >25% cover). Trees and shrubs greater than 0.5m may be present but cover with canopy cover 10 percent or less. Herbs and nonvascular plants may be present at any cover value.
- HERBACEOUS Graminoids and/or forbs (including ferns) generally forming >10% cover. Trees, shrubs, and dwarf shrubs may be present, but with cover 25 percent or less. Nonvascular may be present at any cover value. If a woody layer of 10-25% trees, shrubs, or dwarf-shrubs is present, it should be noted and described (e.g., herbaceous with scattered evergreen tree layer of 10-25%).
- NONVASCULAR Non vascular vegetation (bryophytes, non-crustose lichens, and algae) generally exceeds 25%. Vascular vegetation is scattered or nearly absent at most 10 percent cover; in some cases the total cover of vascular vegetation may exceed 10 percent.
- SPARSE VASCULAR VEGETATION Abiotic substrate dominates; vascular vegetation is scattered or nearly absent The cover of each vascular lifeform (tree, shrub, dwarf shrub, herb) is at most 10 percent; in some cases the total cover of vascular vegetation may exceed 10 percent. Nonvascular vegetation is <25 %.

CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface
Project Label: PCAP Project Name: 6 | W (2 v/0)

Plot No.: 1136

Cleveland Molreparks

Page: 1 of 1

Bedro		rooted and floating or slightly emersed	, rooted and fi
Bould			(Aquatic)**
Grav		-	(Floating)*
Mine	と)	5 0 D	Herb
Histo	<b>X</b>	Ú.S - S	Shrub
Sum	タカ	5 - +	Tree
Und	Total Cover (%)	Height Range imi	Strata
EAF	ral % estimate)	COVER BY STRATA (Actual % estimate)	COVER BY

EARTH SURFACE & GROUND COVER	ACE & GRO	UND COVER	
Underlying Earth Surface	rth Surface*	Ground Cover	
(Sum = 101196)	percent	(Each ≤ 100%)	percent
Histosol	O	Coarse Woody Debris***	≫
Mineral Soil	9 b	Fine Woody Debris****	۷.
Gravel-Cobble*	7	Litter	93
Boulder**	C	Duff (Fenn. + Humus)	0
Bedrock	C	Bryophyte-Lichen	Ş
• Gravel-Cobble = 1/16 to 10 in	1/16 to 10 in	Water	6
**Boulder = > 10 in	7	Bare Soil	<b>X</b> )
** >5 cm in diameter		Road/Trail	8
**** <5 cm in diameter			

+315 degrees NW	+270 degrees W	+225 degrees SW	+180 degrees S	+135 degrees SE	+90 degrees E	+45 degrees NE	At aspect N	LFI* TSI**	(FILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD)
	10 m away.	eye to eye of	from recorders	For TSI	by local slones	horizon. TSI is	LFI is angle of		O NOT FILL OUT IN

\* Landform Index (position within fandscape)

\*\* Terrain Shape Index (site microtopographic shape)

3 feature is present in the welland in very small amounts or if more common, of low quality	D feeture is absent or functionally absent from the welland	Ranks for microhabital features. Selections or select two and average the score.	MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only	

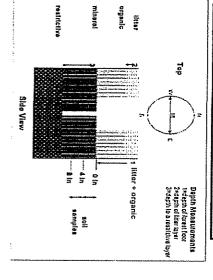
(ئوي.

CAN VARY BY COVER TYPE. STRATA DESCRIPTIONS, STRATA SEE BACK OF PAGE FOR "TYPICAL" ື submersed, most plant mass below surface

7 feature is p	resent in modera	le amounts, but not	feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality	in smail amounts of	highest quality			
10 feature is	present in modera	ite or greater amour	10 feature is present in moderate or greater amounts and of highest quality	fity	с.ж.d. – с	c.w.d count for pieces with minimum 1m length	minimum 1m length	
		no. of	no. of	по, тасто.	c,w,d	c.w.d	c.w.d	חווכונ
		tussocks	hunmocks	depressions	(2-12 cm)	(12-40cm)	>40 cm	micrs
		depth 3	depth 2	depth I	depth 1	depth 1	depth i	depi
		lxim	3.16x3.16m	10x10m	10×10m	10x10m	10x10m	<u> </u>
mod#	corner	(count)	(count)	(count)	(count)	(count)	(2011)	ì

				8	``	,	`,	mod#					10 feature is p
								corner					resent in moder
			Ō	0	0	, ,	7	(count)	lxim	depth 3	tussocks	no. of	ate or greater amour
			0	0	0	0		(count)	3.16x3.16m	depth 2	hunmocks	no. of	10 feature is present in moderate or greater amounts and of highest quality
			2	Ġ.	_		2	(count)	10×10m	depth I	depressions	по, тасто.	afity
		.,	<i>(</i> )	[0]	17	2		(count)	10x10m	depth 1	(2-12 cm)	c,w,d	c.w.d c
			ر	>>	graditional*-1	0	· ·	icount)	10x10m	depth 1	(12-40cm)	c.w.d	c.w.d count for pieces with minimum 1m length
			۵	0	0	0	(romit)	(count)	10x10m	depth i	>40 cm	c.w.d	minimum 1m length
			~	کی	حن	کس	(max)		10x10m	depth 1	interspers.	microhab.	

			: 125 cm	Length of soil probe = 125 cm	Length of
0/5	0	3 6	2.0	0	Ġ
986	0	37	3.0	0	e.
٠ رو	O	35	5.5	0	3
<b>%</b>	0	4ç	7,5	0	2
(cn)	(cm)	(cm)	(cm)	(cm)	#bom
depth	depth	depth	depth	depth	
sat soil	water	3 restrict	2 litter	1 litter +	
rd as >30	If depth to saturated soil is >30.5 cm, record as >30	soil Is >30.	salurated	If depth to	module.
ensive	depths to the nearest 0.1 cm in center of each intensive	n in center	rest 0.1 cn	to the nea	depths
Measure	SOIL DEPTH MEASUREMENT INSTRUCTIONS: Measure	NT INSTRU	SUREME	PTH MEA	SOIL DE



NOTE: lussock and hummocks are counted in BOTH nested quadrat comers but counts are aggregated. macro depressions = macrotopographic depressions with module. These may extend into other modules and be counted again.

ilcrohab. Interspers.. = overall ranking of plot microtopographic interspersion complexity using scale below

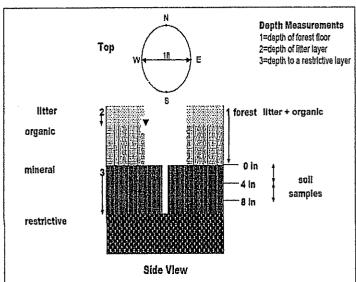
.w.d. = course woody debris

### 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

<sup>\*\*\*</sup>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.



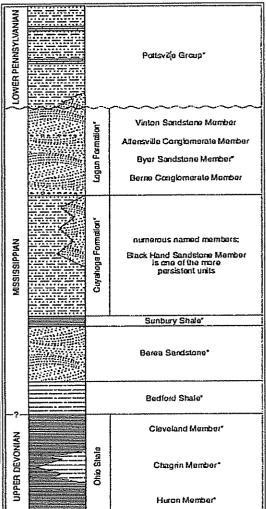


FIGURE 3-20.—Generalized section of Upper Dermaian, Misissippian, and Lower Pennsylvanian formations in northeastern Onio. Ascericka indicate units that are leastliferous. This composite section represents about 400 meters of rock exposed across the area. The section is nor to scale, but the thicknesses indicated are percentional. The term "Wareth" is used in the older literature to refer to Mississippian rocks in Onio. Some geologists use the European term "Caboniferous," which encoupasses the Alianistppian and Pennsylvanian Periods of the U.S. Many units have been animed within the Chyahoga Formation, but most units are local and cannot be traced over great distances. The Black Hand Member is a spectacular massive sandatume that is fairly widespread but discontinuous. See Hyde (1933), Hoover (1960), and Collins (1979) for more information on Mississippian rocks in Ohio. See figure 3-16 for explanation of rock types.

<sup>\*\*</sup>Can also include seedlings of shrubs, i e all shrubs <0 5m

Walk to SSW Corner of knoth freed and find "road" or trail, follow soudlos trail to the left ophill to play

/	