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SAMPLING QUALITY\* CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet Minimum required fields in Bold and Underlined TAXONOMIC STANDARD PLOT NOT SAMPLED: \*\* Roles: Co-leader, Assa., Guide, Owner, Taxonomist, etc. Project Label: GENERAL INFORMATION TAXONOMIC ACCURACY Effort Level: Date (mm/dd/yyyy): 8 / 25/ 2015 ichen Perm. water Not No.: 3369 Humled Very thorough roject Name: nd date (if > 1 day): Beech Borcdom Minney Level 4 (no nested corners sampled) Level 5 (nested corners sampled) bei tally 5 n Paved in Slope in Safety PCAP 021/2015 modera. how much effort put into may still provide good sampling. Hurried plots subjective evaluation of Role\*\* Pub Date: Mody Plot leader Moody low 32F 127-1 Tech o Other not smp lech lec) 1998 State: OH Plot placement: XGRTS GPS location in plot x=0 to 5, y=1,0,+1) ■ Lat/Long □ UTM □ StatePlane Source of coordinates 

MAP o Fuzz 100m o Fuzz 250m o Fuzz 500m Check one: XPublic data o Private Data Quadrangle: May Field GPS File Name: Coord. Accuracy: Datum: III NAD83/WGS84 II NAD27 Data Confidentiality: Local Place Names LOCATION Photo Nos.: C4888 Сашега №.: Depth: (1-5): Plot size for cover data: Coordinate system: If data not public why? Reason: Systematic (grid) 

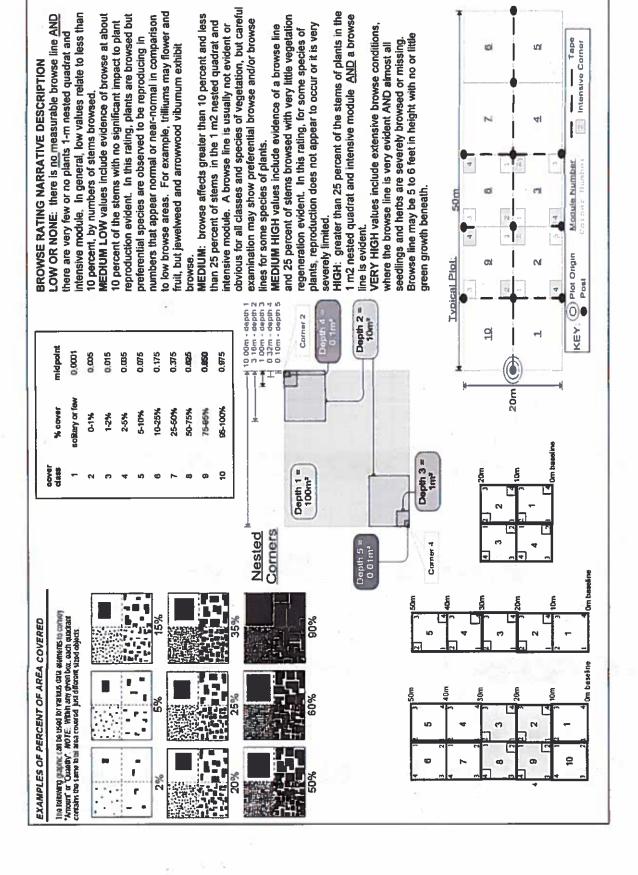
Capture specific feature 

Other Random Stratified Random G Transect component ntensive modules: 2, 3, 8, 9 Other (specify) andowner: CMP atitude: \*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide Forest PICAL Area X-axis Bearing of plot: y = O (base of plot x=0, y=0) 8/ 3369 A 42592 County: ( uya hoga □ Representative deg a deg min mono Coord. Units ■ GPS 132 0 EDIT IF MODIFIED (hectares) 2.10 module plot: content), Rationale (why here), and Veg Characterization (description of community, Kationale: Plot is a Spin was of rock. The trail system in the intersects with Bridle/Alakeye trail. Take or less East for ~ 200 m slyvan Loop Trail dominants, strata, BROWSE). Additional notes in space on back. NOTES: Include Layout (any unusual shape details), Location (directions and landscape Veg Characterization: The canopy dominated by Booch and Sugar Maple with Tulip. The sparse dominated by Acer seedlings. shrub layer is dominated by Diagram Plot origin GPS location Kry: (0,0) point point from the eastern edge of parking area, take Sylvan Location: Park at Forcest Piculc, Apen Layout: 2 x 5 is conting with multiple names for trails. #10 æ 20m ti 10 143 #8 8 Beach and maples, photo taken, with direction Ë #7 (BClurelundMula Page 1 of 2 permanent posts location of OVER **₹**5 #

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	munity Assessment	Program - Backgrou	nd Data	Sheet				Cherrit	(A Clumium Mutaperta
Project Label:	PCAP	Project Name: 02 NL 2015	02 ML	2015		Plot No.:	3369	ŀ	Page 2 of 2
MODIFIED NATURESERVE CLASS*			DISTU	DISTURBANCES					
CODE (on separate form):	Fit=Conf=		type*	severity**	yrs ago	% of plot	description		
000			Human	4	_				
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COMMUNITY NAME:			Fire						
+ 1 1 W			Cut						
Beach - Maple Foresi			Animal	٤	0	100	Dock Br	Browse	
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HOMOGENEITY			**L=low	ML=med lov	, M=med	MH=med	**L=low. ML=med low. M=med. MH=med high, H=high, VH=very high	H=very high	
romogeneous a Compositional to	Compositional trend across the plot		Current	Current Land Use: (	CMP				
Conspicuous inclusions	mosaic		Former	Former Land Use:					
	HYDROLOGIC REGIME*	GIME*							
	Upland (seldom flooded)		□ Intermittently flooded	poped					
SALINITY*	a Intermittently/seasonally saturated	saturated	□ Semipermanently flooded	y flooded					
© Saltwater	(pepooli mobles).	□ Perm	☐ Permanently flooded	oded					
D Brackish	Dermanently/Semipermanent, saturated		□ Tidal/Seiche flooded daily	oded daily					
o Fresh	(dry <1/yr, seldom flooded)		//Seiche flo	☐ Tidal/Seiche flooded monthly					
Upland (n/a)	□ Occasionally flooded (<1/yr)		/Seiche flo	☐ Tidal/Seiche flooded irregular					
	□ Temporarily flooded	(c.g.	(e.g. wind, storms)	ns)					
(by default unless plot is a wetland)		a Unknown	nwor						
Additional notes & diagrams: (Representativeness of plot to	=	the stand, successional status, maturity; etc.)	£.)						
The stand is mature and	and un-even	un-evengged. Some nice lange Sugar Maples and Beech in	nice	/ange	Sugar	Map	les and	Beech	ů,
plot. There is some browse	ouse from H	from this season & but the heavy and continuous browse	out	相	heav	x and	continuo	us bran	255
from pravidus years	s obvibus. Pla	+ is very le	7	her	9	er a	ad diver	sity.	
Beech disease is present in many shrubs. I saw what I thought was an old piece of tile in Mod 7. Brhaps this area was drained in the past. Several older lip-ups in plot	sent in mai	ny shrubs. I	E saw	what sast.	Seven H.	Hough	t was	an old	piece
and in surrounding area.	rd.								
7									

Brech drops

CLEVELAND MI	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet	nent Program Spec	es Cover Data	Sheet			Page '	or -
Project Label:	PCAP	Project name:		S Plot no.:	3369			
Total modules:	10	Intensive modules:	工	Plot configuration:	2×5	Plot a	Plot area (ha):	
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3	Dr = Drugo   qual	intensive module:	-	cov depth cov depth	8	depth cov	depër cav depër	V V
Claveland	describe amount of browse per species over	%open water	0	-	-		0	
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		%unveg. ground (bare soil)	-	1 2	1 2		1 2	
Strata - Cov. entire plot	ot	%unveg. Riter (bare litter)	1 9	1 9	1 9		1 9	
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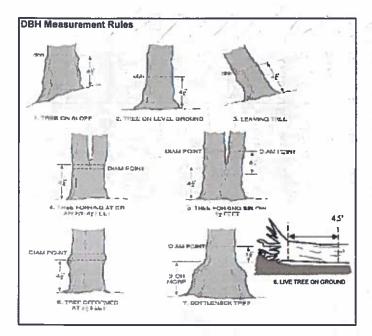
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CLEVELAND METROPARKS Plant Community Assessment Project Name: 02 NC2015 Plot No.:3309

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CORECT SINGULARS H			:1	**						
14 Apr rubrum				2:	•					-
No Browse										



### 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.



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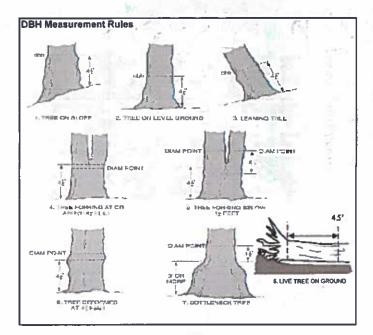
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### ASH CANOPY BREAKUP CONDITION (for dead trees):

(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.

2010 CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Acer Hybrum Explain subsample (additional room on back): STANDING DAD Acer rubrum STAMIDIAL DEAD Acer son harum STANDING DEAD Acer Sacranous Fugus grandifalia Acer saccharum Fagys granditalia No Browse frunus Seratina fraxins sp. Acer Saccinarym STANDING DEAD Fagus grandifolia Ager Stocharum Fagus grandifalia Fagus granditalia Acer rubrum Filgus avandirabila No Browse STANDING NEED Project Label: browsed 0-1.4m or super % sub Project Name: 02NC2015 shrub clumps size class (cm) woody stems >1.4m b 2 :I . -. . . N 6 ij Q u . 11 00 Plot No.: 3304 \* : • 0 10-<15 • • 15 - <20 × Page: 30 - <35 잌 Acieveland Metroparks 35 - <40 5 48.2 79.8 >40 (record each tree) 65.5 13.5



### 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.
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В

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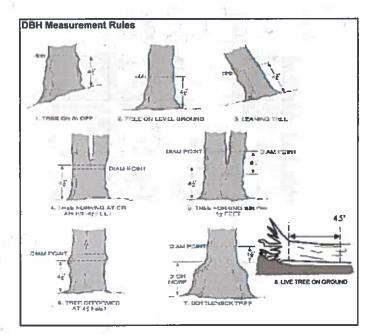
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(If an ash receives a score of 5 (dead) under canopy condition it must also receive a breakup condition rank as described below)

- A: All main branches contain fine twigs (newly dead).
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- D: Stem still standing and tertiary main branches present.
- E: Central stem still standing.

0 10 CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Explain subsample (additional room on back): Acer rubrum Acer sucharum Linodention tuliated Project Label: PCAP voucher# 0-1.4m or super % sub Project Name: 02 NC 2015 Plot No.: 3306 shrub clumps \* size class (cm) woody stems >1.4m 1-<2.5 2.5-<5 . • × Page: 25 - <30 30 - <35 Circuland 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

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- 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.

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 Emerald Ash Borer - Fraxinus Sheet Project Label: PCAP Project Name: 02 NCZOIS

Page: 1 of 2

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				nodule using Tree ID num				[	w	1		[III] D2			8			mbers when necessary							

### © Cleveland Metroparks CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey Tier 1: Early detection/ Rapid response Presence **GPS** SW NW Presence NE SE X: yes Microstegium vimineum Japanese stiltgrass Ranunculus ficaria Lesser Celandine (vine) Black Swallow-wort Cynanchum Iouiseae (wetland) Flowering Rush **Butomus umbellatus** Heracleum mantegazzianum Giant Hogweed Tier 2: Assess as Needed # of Plants comments NW # of Plants NE SW 1-10 Acer platanoides Norway Maple 2: 11-50. Tree of Heaven Ailanthus altissima (vine) Japanese Honeysuckle 3: 51-100 Lonicera japonica 4: 101-1,000 Purple Loosestrife Lythrum salicaria (wetland) 5: >1.000 Aegopodium podagraria (G-cover) Bishop's Goutweed Celastrus orbiculatus (vine) Asian Bittersweet Hedgeparsley Torilis sp. Conium maculatum Poison Hemlock Rhamnus cathartica Common Buckthorn (shrub) Berberis thunbergii Japanese Barberry (shrub) European Alder Alnus glutinosa Dipsacus laciniatus **Cut-leaf Teasel** Elaeagnus umbellata **Autumn Olive** (shrub) Lonicera maackii Amur Honeysuckle (shrub) Euonymus fortunei Wintercreeper # of Plants Tier 3: Presence is of Interest comments NW # of Plants NE SE SW (G-cover) Lily of the Valley 1: 1-10 Convallaria majalis 2: 11-50. Coronilla varia (G-cover) Crown Vetch Eleutherococcus pentaphyllus 3: 51-100 Five-leaf Aralia (shrub) 4: 101-1,000 Pachysandra terminalis (G-cover) Japanese Pachysandra 5: >1.000 Philadelphus coronarius **Mock Orange** (shrub) Pulmonaria officinalis Lungwort (G-cover) Rubus phoenicolasius Wineberry Iris pseudacorus (wetland) Yellow Flag Iris Ornithogalum umbellatum Star of Bethlehem Viburnum opulus var. opulus European Cranberry (shrub) Viburnum plicatum Doublefile Viburnum (shrub) Tier 4: Widespread and abundant Presence comments # of Plants NE SE SW NW Alliaria petiolata Garlic Mustard 1-10 2: 11-50. Ligustrum vulgare Common Privet (shrub) **Bush Honeysuckles** 3: 51-100 L. morrowii, L. tatarica (shrub) 4: 101-1,000 Phalaris arundinacea Reed Canarygrass >1,000 Phragmites australis (wetland) **Phragmites** Polygonum cuspidatum Japanese Knotweed Glossy Buckthorn (shrub) Frangula alnus Rosa multiflora Multiflora Rose (shrub)

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

(wetland)

(G-cover)

Cattails

Canada thistle

Common Teasel

Dame's Rocket

Periwinkle

Typha angustifolia, T. x.glauca

Cirsium arvense

Vinca minor

Dipsacus fullonum

Hesperis matronalis

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Other Pest or Pathogen		VA)		Joe C	tal o	410	apple Cet St	ZIN E	(size class 2 or below including shrub clumps)	9
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				rt	4 4				Fagus grandifolia	6
79.8	×	<u></u>	\$			:			Fagus grandifalia	Ch
T. T.	×		××	n 4	X				Fagus gandinia	4
			ě	×	11.	:			taque grandifolia	ယ
				N		6			Focus grandithia	2
			ę	•	:1	e			Fagus grandifolic	
8 9 10 11 25 - <30 30 - <35 35 - <40 >40 (record each tree)	6 7 15 - <20 20 - <25 2	5 10 - <15 15 -	5 <u>~10</u>	2.5-<5	(cm) wood 2 1-<2.5	size class (cm) woody stems > im 1	shrub clumps	voucher#	species	mod #

CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface

Project Label: PCAP Project Name: ON CROSS

Plot No.: 3369

Gleveland Melrap Page: 1 of 1

STANDING BIOMASS (required for emergent wetlands) collected in 0.1m clip plots (32x32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C7=check when dule # S

OI ACCIDICATION		
CLASSIFICATION  (FIT = excellent g Fit and Confidence		
Hrdrossomerabik class (WETLANDS ONLY):		
a DEPRESSION	=	Conf.
g IMPOUNDMENT is Beaver is Human	# 	Conf.
a RIVERINE a Headwater o Mainstein o Charrel	Fit=	Conf
CI SLOPE (ground water hydrology or un a physical slop)	₽ 	Conf=
n FRINGING in Reservoir in Natural Lake	Fig.	Conf=
n COASTAL (specify subclass)	Fil=	Conf
n BOG (strongly, moderately, weekly ombrotrophic)	File	Conf
Ohie ETA VIBI Plant Community Class (WETLANDS ONLY):	CATINO	- 1
o FOREST o awamp forest to bog forest to forest seep	F 1	Conf
to EMERGENT to marsh to wet meadow to open bog		Conf*
the SHRUB to shrub swamp to tall sh. bog to tall sh. Get	F)(=	Conf

# MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

ope 1 = slight elevational grade across module (hill) was for microhabitat features. Selections or selective and average the score.NOTE: If mod falls on a slope automatically gets ranked based on steepness (1-3) to begin + any features present Slope 2 = falls on slope -20 \* Slope 3 = maximum steepness that can be safely sampled -45"

- feature is absent or functionally absent from the wettand
- feature is present in the wettand 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 tighest quality

9	~	Ü	نو	mod#						
	4	,		состаст					i i	
0	Ø	Ø	Ø	(count)	lalm	depth 3		nussocks	no. of	
Ø	Q	a,	Ø	(count)	3.16x3.16m	depth 2	uplands (Tip-Ups)	hummocks	na. of	
i		۲	2	(count)	10x10m	depth I		depressions	no, macro.	
13		Į,	Ó	(count)	10x10m	depth I		(2-i2 cm)	c.w.d	
0	8	Ø,	Q	(count)	10x10m	depth I		(12-40cm)	c.w.d	
Ø	Q	Q	-	(count)	10x10m	depth 1		ŽĘ ČĮ	c.w.d	
ĺ	ىو	ນ	بو	(rank)	10x10m	depth 1		interspers.	microhah.	
			-	(rank)	10x10m	SLOPE			microhab.	

McNAB INDICES (degrees) + for up - for down IFILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD) Landform Index (position within landscape) +135 degrees +270 degrees + i 80 degrees +315 degrees +225 degrees +45 degrees

+90 degre

88

Al aspect

z

Hi.

LFI is angle of piot to the horizon. TSI is

angles formed by local slopes. For TSI measure angle from

CROWN COVER (DENSIOMETER): Make 4 readings per module facing N. S. E. W. Place dot count orimesonding space. (4 dots per grid square)

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

¥N

€

Sena. e) e of person recorders eye to standing - 10 m

WS

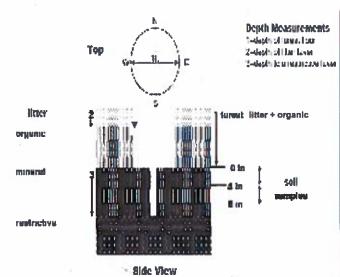
	בע בע גע	3 00 1	× ×	Module	The second secon
	6	_	Q	E	1
)	ນ	Ø	_	*	L

### COVED 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.



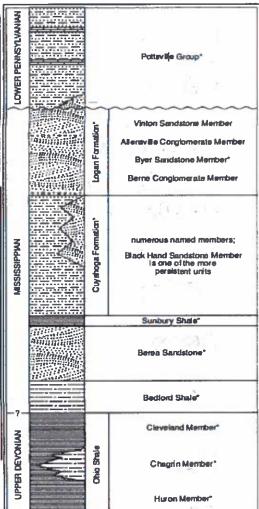


FIGURE 3-20.—Generalized section of Upper Devenian, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio Asteriaks indicate units that are matchesius. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proparational. The term "Waverly is used in the older literature to refer to this samples in rocks in Ohio. Some geologists use the European rerm "Carbomferous," 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 3-16 for explanation of rock types.

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Blomass Data Sheet 6a

Project label: PCAP Project Name: 3309

Project label: PCAP Project Name: 3309

Cicretand Retroparts

Page: 1 of 1

1626

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

e cm (one per entire plot)

matrix color

xid roots dox features\*\* ittle color S Z

matrix color exture\* ydr cond \*\*\* and roots mortie ottle color

20 cm

edox features\*\* 4 S × z

refer to lexture classes on reverse side

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

MODE (WORMS PRESE

AND MIDDENS PERSON

MOD 8: WOEMS, CASTINGS,
AND MIDDENS PECSENT Moda: castings present

NO LUCENS OBSCENED

GaCM PCAP Soils\_Crown cover\_Landform\_Standing Biomass\_Data Sheet\_ver 3.vis last revised 6/4/2012 ceh

MODS: WOISTO Cashing

astings, middens)

indundated S-saturated M-mout D-dry
otes: include evidence of earthworms (worms,

CASTINUES AND MIDDA

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

Soil Collection Modult Horizon (A. B. C) 2,3,8,9 composited	A .0
Web Sall Servey Informations	
Soil Series/Type:	
Soil Series Source: Ohio Soil Survey	
Landform type:	
Depth to rest. Layer:	
Parent Moterial	
DRAINAGE*	
a Excessively dr. a Somewhat excessively	xccssively
a Well drained	well dr
o Impermeable surface	

0.1 cm in center of intensive modules. If >30.5 cm,
SOIL DEPTH MEASUREMENT Measure to the hearest

			_	-
_0	UC)	W	ىرو	mod#
מ	دو دو	ير	1.7	1 litter+ organic depth
S S	R R	1.6	1.7	2 litter depth (cm)
<b>Ø</b>	Ø.	Ø	Ø	water depth (cm)
Ø	Ø	0	Ø	depth sat soil (cm)

Underlying Earth Surface*	h Surface*	Ground Cover	
(Sum - 100%)	percent	(Each ≤ 100%)	percent
losostili	1	Coarse Woody Debris***	<u></u>
Mineral Sed	100	Fine Woody Debris****	2
Gravel-Cubble*	1	Litter	85
Boulder**	-	Duff (Ferm + Humus)	0-
Bedrock	1	Bryophyte- Lichen	_
* Gravel-Cobble = 1/16-10*	* 1/16-10*	Water	0
**Boulder => 10 in	ឆ	Bare Soil	
••• >5 cm in diameter	neter	Road/Trail	c.
The last of the la	uncter	Other	1-

Bridle
 Hiking sanctioned

Bootley unsanctioned

All Purpose

ype

%Cover

scord type and cover for each TRAIL INFORMATION:

NONE

Gravel

(Aquatic)*	(Floating)*	Herb	Shrub	Tree	Strata	COVER BY STRATA estimate using midpoir
.1	1	0	ະນ ເປ	.0	eight Range (m)	COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13
==]	1	W		93	Total Cover (%)	x:3, 8, 13

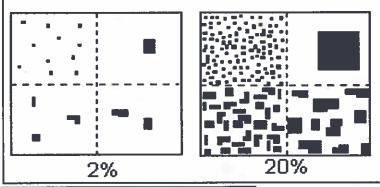
	a < plot size	□ 1-3 x plot size	□ 3-10 x plot size	10-100 x plot size	a > 100 x plot size	a >600 x plot size	STAND SIZE
--	---------------	-------------------	--------------------	--------------------	---------------------	--------------------	------------

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	#	< 2
Common	c	#	2 to < 20
Many	m	#	≥ 20



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

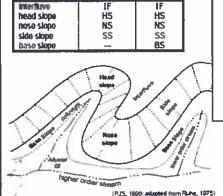
- 0= Organic
- 1= Loamy
- 2= Clayey
- 3= Sandy
- 4= Coarse Sand
- 9= Not measured make plot note

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

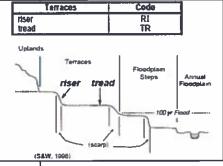
MASIS

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

Hills

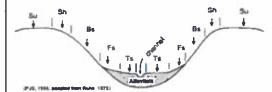


PNP



Hillstope - Profile Position (Hillstope Position in PDP) - Twodimensional descriptors of parts of line segments (i.e., stope position) along a transect that runs up and down the stope; e.g., backstope or BS. This is best applied to transects or points, not areas.

Position	Code
Summit	SU
shoulder	SH
backslope	BS
footslope	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 flooded".

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