Project Label:	РСАР	Plot No:	Quality Control Form Cleveland Metroparks 3389 Date Sampled: 8/28/15 Lead: CKM
- "			Comment required if item answer is NO
Parking/Access outside	e of Park Boundaries:	Y (N)	If yes, write details in Comments section below
Field journals complet	ed	RY N	
Site sketch made on 1:	3000 map?	(Ŷ) N	
Check cover page	X-axis Bearing of plot recorded	YN	
	GPS coords. Recorded	N	
	North direction recorded	(Y)N	Table 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
	Photographs taken?	N N	
	Relocated Pins Mapped	YY)N	
Plot No., Date agreeme	ent on all pages?	(A) N	
Header data completed	all pages?	N	
Cover classes recorded	in all Intensive modules	(Y) N_	
Browse Level By Spec	ies	Y. N	
Woody stem quality co		Y N	Check every line and cross check with the Tree Cover Sheet
Invasive plant quality		YN	NA
Ash trees mapped		Y N	
Completed Forest Pest	Pathogen Datasheet	YN	
Cover by Strata? (conf	înn cover type)	(Y) N	
Soil samples collected	with matching plot #.	Y N	1/A
Cross check 2010 info	rmation	N	Highlight any changes from 2010 information
Vouchers labeled on d	atasheet with initials and number	Y N	
Vouchers labeled on c	ollection bag	₩ N	= 34 =
Pink flags removed			LEFT FLAGS UP
Data sheet QA before	leaving site?	N (S)	
Common equipment re		Y N	
Data sheets scanned?			Enter date to left
Final data sheets scanr	red?	-	Enter date to left
Buffer Widths measure	ed?	Y N	Systematic Court Survey - Court Surv
Web Soil Survey		YN	
Voucher Location	Refrigerator	YN	
(# vouchers collected)	Press (#)		Enter number to left
VOUCHERS	Drier	YN	
	Identified	YN	
CKM440-	Mounted	Y N	Intensives
442	Thrown away	YN	1,2,5,6
			וומוטוע
GRTS point verificat	ion: Is plot sampleable?	-	Strata hts.
□ Yes	Original GRTS point is sampleable		
□ No	Original GRTS point lands in a non-	sampleable area (fi	Shrub 25-5
	O Point falls in a water (i.e. river, i		Herb 0-25
	Managed mowed area (i.e. golf		ni-of-way
	Paved area (i.e. parkinglot, road)		-Fully set up
	Unsafe to sample (i.e. steep slope)	
	D Other		- Decent walk
Additional Comment			-4 pages
All pir	is found		

bryo vascul. Plot No.: SAMPLING QUALITY* PLOT NOT SAMPLED: CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet Minimum required fields in Bold and Underlined TAXONOMIC STANDARD TAXONOMIC ACCURACY Effort Level: □ Perm. water □ Paved □ Slope □ Safety 17 Plot Name: Day Campers GENERAL INFORMATION Very thorough Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc. ind date (if > 1 day): ate (mm/dd/yyyy): 8 roject Name: 02502015 Level 5 (nested corners sampled) Level 4 (no nested corners sampled Manney Sweet (Shirts) PCAP modera. may still provide good sampling. Hurried plots how much effort put into subjective evaluation of 28, 2015 Pub Date: Bot Ass Role** Plot leader low o Other not smp State Plot placement: MRTS Photo Nos.: C4900 - Photo take 5m Check one: XPublic data Drivate Data Systematic (grid)
 Capture specific feature
 Other □ Random □ Stratified Random □ Transect component Depth: (1-5): GPS location in plot x=0 to 5, y=-1,0,+1): Source of coordinates

MAP □ Fuzz 100m □ Fuzz 250m □ Fuzz 500m Plot size for cover data: GPS File Name: Coord. Accuracy: Other (specify) ■ Lat/Long □ UTM □ StatePlane Coordinate system: If data not public why? Data Confidentiality: Landowner: CMP Local Place Names: Chagrin Blvd
Field Quadrangle: < hagrin LOCATION Intensive modules: 3,3,8,9,1,2,5,6 Datum: ■ NAD83/WGS84 □ NAD27 *Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide 0 y= 0 X-axis Bearing of plot: 81.40547 3389 Mm of (base of plot x=0, y=0) County: Luyahoga Representative deg o deg min ■ m oft o Coord. Units ■ GPS [30H] ° (hectares) from River. for ~ 300 M along bridle trail east ~ 100m into woods. Plot dominants, strata, BROWSE). Additional notes in space on back. Rd and Chagrin Blud there is a small purking area. Park here. From this point walk North NOTES: Include Layout (any unusual shape details), Location (directions and landscape content), Rationale (why here), and Veg Characterization (description of community, by Populus, Bux Elder, Buckeye and Black Maple. The shrub layer is dominated by Buckeye, Rationale: GRTS Diagram Plot origin S GPN location Key: (0,0) point point Veg Characterization: The canopy is dominated Layout: 2×3 Grape and Box Elder. The herb layer Location: East of intersection of Chagrin River Argopodium. dominated by Wingstein and 4 MOUND 3 with direction trail then cut
Plat 13 ~ 20m Page 1 of 2 (P Ciurulum Mutrup location of permanent posts OVER

H-0-2.5 MERCHANN 1

3/4=12,5 1/4=4

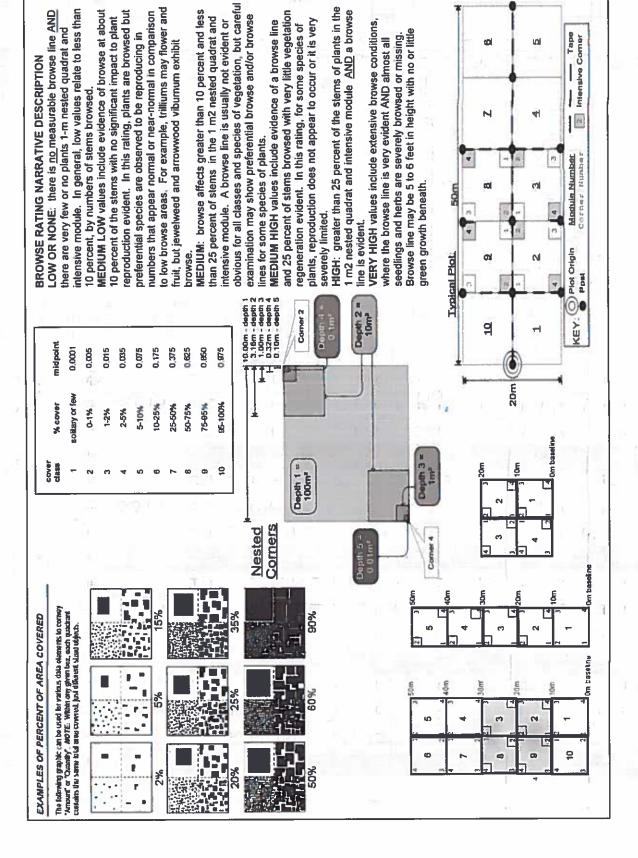
CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Strata - Cov. entire plot Cleveland Metroparks Total modules: Project Label: S H (F)(A) Br 5=2 Ü 6 E Ø 00 Solidago gigantes Parthenocissus quinquetolic Acappod wars NEW YORKHING KIN TOLYACHUM VICAMINAMIN Hydrophyllum canadens ARSCHINS CANIMOCHIA CHIANA FIL ALLIARIA Sanicula Eupatorium rugosum Leersia virginica Verbesena alternitalia Da I who describe amount of browse per species over loxicodendran radican de shabable erbena urticitolia Br = Browse Level. Use cover classes to YSIMACHIA halictrum dasycarpum itis so. (sle chemos later Harus Species gregaria entire plot alahra PCAP Seedling PETIONATA anageura T-BYTONWOW. horleral Ses SRE 12-8-15 O Intensive modules: %unveg, ground (bare soil Estimate for each %unvegetated open water intensive module: C4903 %unveg. litter (bere litter) CH 901 **CH402** CKM HHO Project name: 02 5C 2015 Voucher # %open wat 6 N E 2 N 4 N ۵ W N N W 2 N corner mod $\hat{\mathcal{O}}$ 400 1 W 2 4 _ 214 J W cov i depth N £ Plot configuration: N Man comer ğ ğ Plot no.: 3 N 0 t r 0 N ۵ 7 ğ W 1 W W cov depe Dow 2 × 3 N W 00 cov i depth 4:2 7 1 H W 7 27 N 7 W ğ N N 3 mod JI Plot area (ha): . 06 N ğ Ş N Page | of υį W 6 0 90 W ul C Ş 9 depth

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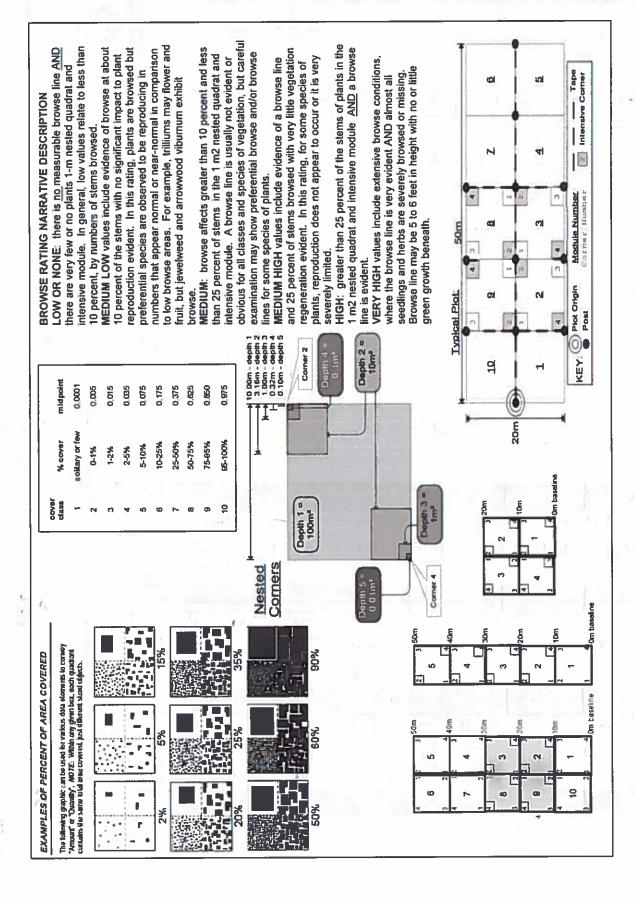
typtotacnia canadensis

leaves



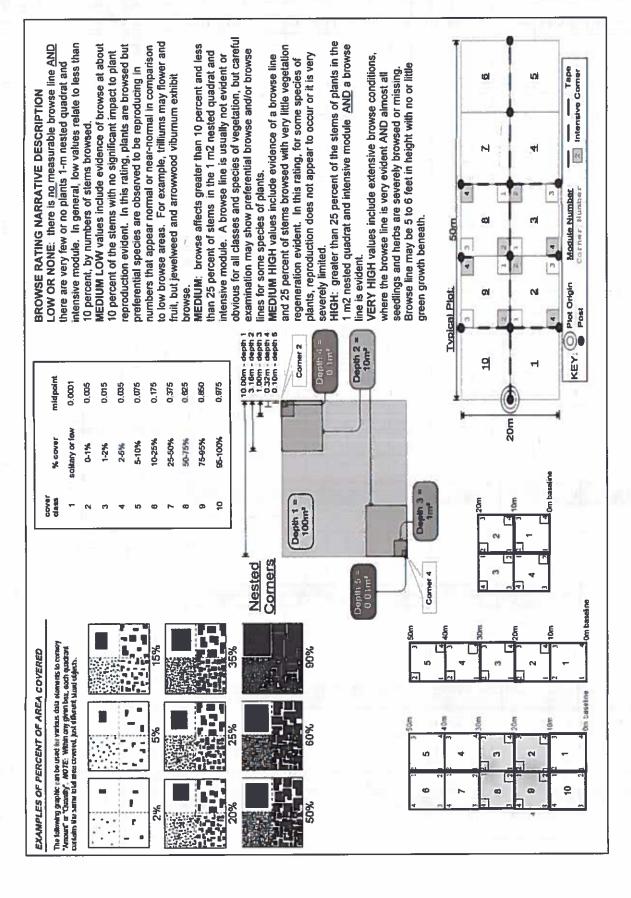
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CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Project Label: PCAP Project name: F			Species															
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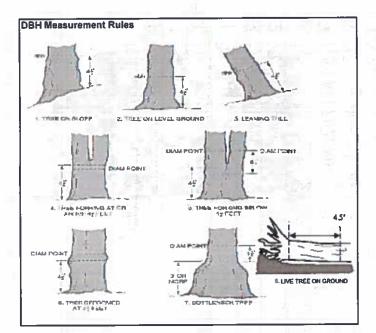
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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP Project Name: 02SC 2015 Plot No.: 3389 Page: 으 (Dateweising Metroparks

8 છ 87 e 83 Oesculus glabia Over negundo Standing Dead Explain subsample (additional room on back): Standing Dead Buthing is si southilla ROSA MULTIFLORA Patanus occidentalis ROSA MILTIFLORA Vitis riparia Toxicorendron radicars Clar negundo loxicodention lodicans Standing Dard LIGUSTRUM VULGARE Standard Bart arthenacissus quinquefillia Bathunocissus quinquetolia Crataryus sp. Desculus glabia LIGUSTRUM VULLDARS HOUSTRAM VILLIARS litis ripania ILUSTRUM VUILLARS dur pigando voucher# N permond 0-1.4m sterns ! or super % sub dumps shrub size class (cm) woody stems >1.4m P^ :1 1-<2.5 2.5-<5 5-10 10 - <15 | 15 - <20 20 + <25 25 - <30 30 - <35 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

10













ASH CANOPY CONDITION

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



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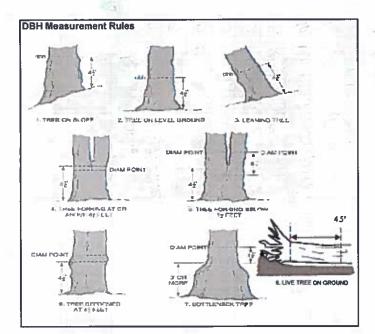
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ASH CANOPY BREAKUP CONDITION (for dead trees):

(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.

		Project Label: PCAP Project Name: 02 20 10 15	PCAP	My Assess	Proje	ct Name:	Project Name: 02 W.1015	1015		Plot No.: 3589	25%		Page: 2	23	<u>S</u>	Solder Solder	Gleveland Metroparks
	104	Explain subsample (additional room on back):	back):									Ŋ.					
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Woody Stem Deer Browse

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Record using the tally system from 1 to













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* If Ash Condition scores 5 (dead) provide breakup score (A-E)
Count EAB exit holes 1.25m≥ x ≥1.5m
Woodpecker and epicormic marked present (1) or absent (0)

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Map all ash trees ≥ 0cm in each module using Tree ID number

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Cleveland Metroparks CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey Tier 1: Early detection/ Rapid response Presence **GPS** SW NW NE SE Presence X: yes Microstegium vimineum Japanese stiltgrass Ranunculus ficaria Lesser Celandine (vine) Black Swallow-wort Cynanchum louiseae (wetland) Flowering Rush Butomus umbellatus **Giant Hogweed** Heracleum mantegazzianum Tier 2: Assess as Needed # of Plants comments SE SW NW # of Plants NE 1-10 Norway Maple Acer platanoides 11-50. Ailanthus altissima Tree of Heaven (vine) Japanese Honeysuckle 3: 51-100 Lonicera japonica 4: 101-1,000 (wetland) Purple Loosestrife Lythrum salicaria 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) Alnus glutinosa European Alder Dipsacus laciniatus **Cut-leaf Teasel** Elaeagnus umbellata Autumn Olive (shrub) Amur Honeysuckle (shrub) Lonicera maackil **Euonymus fortunei** Wintercreeper Tier 3: Presence is of Interest # of Plants comments # of Plants NE SE SW NW 1-10 Convallaria majalis (G-cover) Lily of the Valley 2: 11-50. (G-cover) Crown Vetch Coronilla varia Five-leaf Aralia (shrub) 3: 51-100 Eleutherococcus pentaphyllus Pachysandra terminalis (G-cover) Japanese Pachysandra 4: 101-1,000 5: >1,000 Mock Orange (shrub) Philadelphus coronarius Pulmonaria officinalis (G-cover) Lungwort Rubus phoenicolasius Wineberry (wetland) Yellow Flag Iris Iris pseudacorus 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 SW NE SE NW 1: 1-10 Garlic Mustard Alliaria petiolata (shrub) 2: 11-50. Ligustrum vulgare Common Privet 3: 51-100 **Bush Honeysuckles** 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 Multiflora Rose (shrub) Rosa multiflora Typha angustifolia, T. x.glauca Cattails (wetland) Canada thistle Cirsium arvense Dipsacus fullonum Common Teasel Hesperis matronalis Dame's Rocket Vinca minor Periwinkle (G-cover)

10	မှ	œ	7	თ	5	4	ဒ	2		mod #				CLE
									Noru Present	species			Project Label:	CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Shee
										voucher#			P	Communit
										shrub clumps	*		PCAP	/ Assessme
									-	오 -	size class (cm) woody stems >1m		Proje	nt Progran
							5			2 1-<2.5	m) woody	712	ct Name:	Forest
										3 2.5~5	stems >1r		Project Name: 025 2015	Pest an
										4 5-<10	_		1015	d Patho
	A									5 6 10 - <15 15 - <20				gens Da
												1	Plot No. 3389	ta Sheet
										7 20 - <25 2	_		380	
										5 + <30				
										9 30 - <35			Page:	2
										10 35 - <40		Ž,	-	2
										7 8 9 10 11 20 - <25 25 <30 30 - <35 35 - <40 >40 (record each tree)			of	

* IF EVIDENCE OF PEST OR PATHOGEN RECORD TOTAL SPECIES POPULATION IN THE PLOT EVEN THE NOT INFECTED

Tree (size class 3 or above)
Shrub (size class 2 or below including shrub

建	多	AMA	* Write None
Walnut (Thousand Canker)	Hemlock (HWA)	Beech (Fungus)	* Write None Present if no evidence:
nker)		Nou	
	Other Pest or Pathogen	Asian Longhorned Beetle	

Severity	
High = more than 50% of leaf/needle cover exhibiting symptoms	
Medium = Less than 50% of leaf/needle cover exhibiting symptoms	
Low = Only a few leaves or branches are exhibiting symptoms	1

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			Module # C7 Corner Corner	STANDING BIOMASS (required for merges) wetland() collected in 0.1m clip plots (32\cdot 32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C?=check when collected	Project Label: PCAP Project Name: 035(30)	CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface
o IMPOUNDMENT o Beaver o Human	o DEPRESSION	Hrdraecomorphic class (WETLANDS)	(FIT = excellent, g Fit and Confidence	CLASSIFICATION	3015	ram - Plant Cover and Earth Surface

Plot No.: 3389

Chevetand Medicants Page: 1 of 1

LASSIFICATION The excellent a Fit and Confidence		
Infraecomorphic class (WETLANDS ONLY):		
DEPRESSION	7	Conf
IMPOUNDMENT o Beaver o Human	Fir	Conf=
RIVERINE o Headwater o Mainstern o Chunnel	Fig.	Conf=
SLOPE (ground water by drology or on a physical sleph	- Fig.	Conf*
FRINGING to Reservoir to Natural Lake	File	Conf=
COASTAL (specify subclass)	FI.	Conf*
BOG (strong)v, moderately, weekly ombrotrophic)	Film	Conf=
this EPA VIBLED ant Community Class (WETLANDS ONLY):	CATING	
FOREST a swamp forest a bog forest a forest seep	III	Conf*
EMERGENT o marsh o wet meadow or open bog	===	Conf =
SHRUB a shrub swamp a tall sh. bog a tall sh. fen	File	Conf.

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

Steps 1 = slight elevational grade across module (NII)

while for microhabital fleatures. Gelect one or select two and everage the score,MDTE: If mod falls on a slope automatically gets ranked based on steepmess (1-3) to begin + any features present

Slope 2 = falls on slope -20*

Slope 3 = maximum steepness that can be safely sampled ~45°

testure is present in moderate amounts, but not of highest quality, or in small amounts of highest quality

feature is present in the wetlend in very small emounts or if more common, of low quality

feature is absent or functionally absent from the wetland

		6	S	نۆ	-	modif						
						COFFICE					i	
		0	0	0	0	(count)	ixim	depth 3		lussocks	no. of	
		0	0	0	0	(count)	3.16x3.16m	depth 2	uplands (Tip-Ups)	hummocks	no. of	
		_	•	0	0	(count)	10x10m	depth 1		depressions	по. гласто.	
				ø	ຍ	(count)	19x10m	depth I		(2-12 cm)	c.w.d	c.w.d cou
		-	0	0	0	(count)	10×10m	depth 1		(12-40cm)	c.w.d	t for pieces with
		0	0	0		(opurit)	IO110m	depth I		>40 cm	cwd	c.w.d count for pieces with minimum tra length
	0,000		_	_	ย	(rank)	10x10m	depth I		interspers.	microhab.	3
			_			(rank)	10x10m	SLOPE			microhab.	

NOT FILL OUT IN FILE FILL OUT IN FILE FILL OUT IN FILE FILL OUT IN FILE FI	* Landform index (position within landscape) ** Terrain Shape Index (site microtopograph)	+315 degrees	+270 degraes	+ 225 degrees	+ 130 degrees	+135 degrees	+3() degraes	₩5 degrees	Al aspect	i —	LLED OUT USING GR	CNAB INDICES (d
TOT down	n within landscape) He microlopographic si	WW	W	SW	s	SE	E	Zi .	z	LEI	S PROGRAM - DO NO	(egrees) + (or up
ELDJ Lift is angle of plot to the horizon. TSI is angles formed it local slopes. Fit TSI measure angle from recorders eye to recorder ey	(age)		dens	standing -10 m	recorders eye to	TSI measure	angles formed by focal slopes. For	horizon.	LFlisangle of	ł	T FILL OUT IN FIELD!	- for down

1 2		1 t	Mediale	CROWN COVER (DENSIOMETER). Make 4 readings per module facing N. S. E. W. Place dot count in corresponding space. (4 dots per grid square)
) 15	0	ss	DENSIOMETER): Ma facing N. S. E. W. Plac (4 dots per grid square)
	the	S	E.	ate 4
	28	88	¥	اللقيا

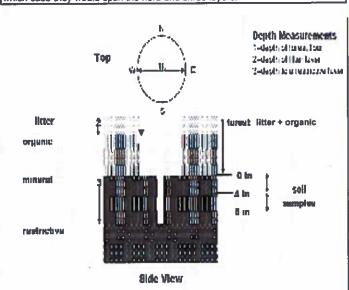
COVER BY STRATA

STRATUM	GENERAL FORM
Tree (generally >5 m)	Tree (overstory), very tall shrubs*, liana, epiphyte)
Shrub (generally 0.5 to 5 m)	Tree (sapling), shrub, llana, 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.



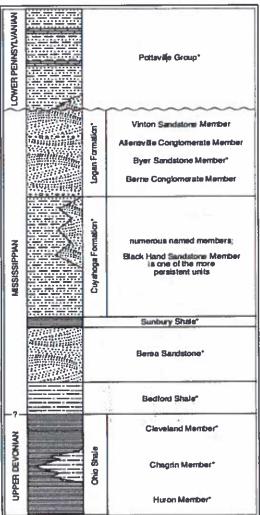


FIGURE 3-20.—Generalized section of Upper Devenian Ministrpusa, and Lower Pennsylvanian formations in northeastern Ohio Asteriaks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to earle, but the thicknesses indicated are propertional. The term "Waverly is used in the older interactive to refer to Missistrypian rocks in Ohio. Some geologists use the European nerm "Carbomistrous," which encompasses the Missistrypian and Pennsylvanian Periods of the U.S. Many units have been named within the Cuyahoga Formation, but most units are local and crimer be traced over great distances. The Black Hand Member is a spectacular massive sandstone that is finity widespread but discontinuous. See Hyd. (1953), Hoover (1960), and Collins (1978) for more information on Missisterman rocks in Ohio. See figure 3-18 for explanation of rock types.

CLEVELAND METROPARKS Plant Community Assessment Program - Solls, Crown Cover, Standing Blomass Data Sheet 6a
Project label: PCAP Project Name: 125,2015
Plot No.: 3389 Project label: PCAP

(P) Gleveland Metroparts

Page: 1 of 1

SOIL PIT DESCRIPTION: Excavate 20 cm plug with shove! Describe using Munsell chart, visual exam, texture, and odor:

Soil pit module # ____ (one per entire plot)

20 cm 6 cm **таттх** сою matrix color edox features** oxid roots exture. exid roots edox features** smottle mottle ydr cond *** ottle color ottle color -S < ķ M D X D z z

tydro, cond.***

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

emdundated Sesaturated Memoist Dedry otes: include evidence of earthworms (worms

stings, middens)

mod5: Non present and midduns present mable. Nary present modi: Worms, castings and midduns present

0

0

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

submersed, most plant mass below surface

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

EARTH SURFACE & GROUND COVER

Inderlying Earth Surface*

Ground Cover

Histosoi

me = 100%

percent

Coarse Woody Debris*** (Each < 100%)

perces

Travel-Cobble* dineral Soil

100

Fine Woody Debris****

Landform type: Depth to rest. Layer: Parent Material: DRAINACE* DEX. Somewhat excessively dr. Somewhat excessively dr. Moderately well dr. Somewhat poorly dr. Very poorly dr. Impormeable surface	Soil Series Source: Ohio Soil Survey	Soil Series/Type:	Web Soil Survey Informations	2.3.8.9 composited A	Soil Collection Modul Horizon (A, B, C)
--	--------------------------------------	-------------------	------------------------------	----------------------	---

ledrock oulder**

Gravel-Cobble = 1/16-10*

Water

0

0

Bryophyte- Lichen Duff (Ferm + Humus)

Bare Soil

Road/Trail

*** >5 cm in diameter *Boulder = > 10 in

*** <5 cm in diameter

양

SOIL DEPTH MEASUREMENT: Measure to the nearest 0.1 cm in center of intensive modules. If >30.5 cm, record as >30 08 depth (cm 9 2 litter ū water depth (m) depth sat soil (cm) g

organic depth

(cm)

I litter+

80

8

Buckeyes haves * estimate using midpoints of 5,ex:3, 8, 13 COVER BY STRATA

×

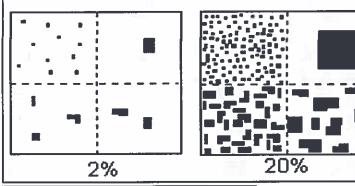
Strata	Height Range (m)	Total Cover (%
Tree	50.1	63
Shrub	2.5 5.0	8h
Herb	0 .2.5	48
(Floating)*	. (-
(Aquatic)*	1	1

TRAIL INFORMATION Υþe Hiking sanctioned All Purpose Gravel Bridle ecord type and cover for each Bootleg unsanctioned %Cover

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



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



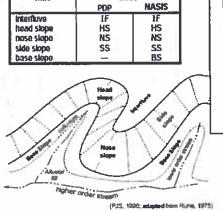
SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but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

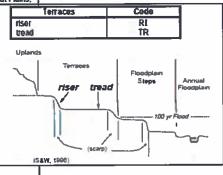
- 0= Organic
- 1= Loamy
- 2= Clayey
- 3= Sandy
- 4= Coarse Sand
- 9= Not measured make plot note

Geomorphic Component - Three-dimensional descriptors of parts of landforms of 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.

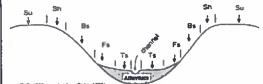
Hills





Hilistope - Profile Position (Hilistope Position in PDP) - Twodimensional descriptors of parts of time 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
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.