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CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheel SAMPLING QUALITY* Project Label: PCAP GENERAL INFORMATION □ Perm. water □ Paved □ Slope □ Safety Minimum required fields in Bold and Underlined TAXONOMIC STANDARD TAXONOMIC ACCURACY Effort Level: PLOT NOT SAMPLED: Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc. End date (if > 1 day): ロッパタリ みりしち Date (mm/dd/yyyy):07 /33 2015 Very thorough lot No.: roject Name: ODWC 2015 Accurate Level 4 (no nested corners sampled) Pura Plot Knaw 55 Level 5 (nested corners sampled) reitaeu high modera. may still provide good subjective evaluation of sampling. Hurried plots how much effort put into Pub Date: Plot leader low o Other not smp □ Fuzz 100m □ Fuzz 250m □ Fuzz 500m Check one: Public data Private Date Quadrangle: Cleveland GPS location in plot x=0 to 5, y=-1,0,+1) Datum: ■ NAD83/WGS84 □ NAD27 □ Other (specify) ■ Lat/Long □ UTM □ StatePlane Source of coordinates

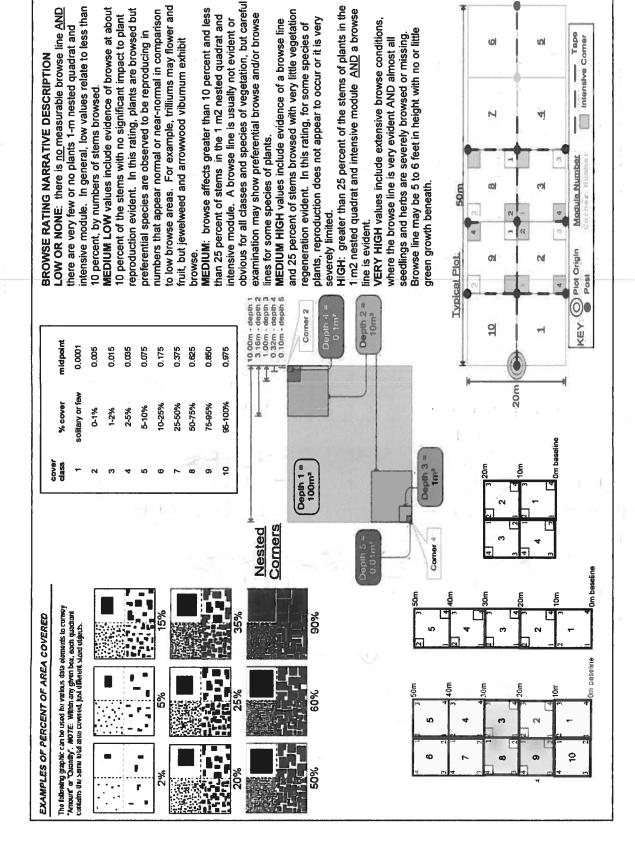
MAP If data not public why? Data Confidentiality: LOCATION □ Systematic (grid) □ Capture specific feature □ Other Plot placement: oGRTS Camera No.:_ Coord. Accuracy: om n ft Coordinate system: Random Stratified Random CTransect component GPS File Name: Intensive modules: 2, 3, 8, 9 ocal Place Names *Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide andowner: Nest (reck 0 y = 0 (base of plot x=0, y=0)X-axis Bearing of plot: ■ deg □ deg min 2 3 SEDIT IF MODIFIED Representative Coord. Units ■ GPS (hectares) Vez. Characters Har > Canopy 15 dominated by red oak. Red maple, Rationale > GRTS; PCAP re-sample content), Ranonale (why here), and Veg Characterization (description of community, NOTES: Include Layout (eny unusual shape details). Location (directions and landscape tollow APT, then gravel trails directly to plot. dominants, strata, BROWSE). Additional notes in space on back. Ney: O(0.0) point Open also present. from Watershed Stewardship Center. Layout J/x5 Location > Located approx. 950 m ery sparse herb/shrub layer tulip, beech, cucamber magnolia 9 photo taken, with direction Ø (Charaland Matrupa Page 1 of 2 location of

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CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

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CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Strata - Cov. entire plot **Cieveland Metroparks** Total modules: Project Label: | H |(F)|(A)|Br Q foucage sp Poorens sp. o Carpinus trecht tes Jassatras albidum "arex Munus seratina xwereus sp describe amount of browse per species over laccontuna STOTAL ragus Br = Browse Level. Use cover classes to remarkus so gers/a propholis americana ider sp. riodendron 1055 agnotic acuminato catoe gous cec 5 axiculmis *(wbrum*) arandifelia rotundifolia entire plot Virginica caroliniana Species PCAP Meraed iselfation Dall dum tulialka roducans 50. tella ဂ Intensive modules: %unveg. ground (bare soil) Estimate for each %unvegetated open water intensive module: %unveg. litter (bare litter) Project name: <u>DawCaors</u> Voucher# %open water 4 corner mod cov | depth cov i depth Plot configuration: th Billing ğ ğ depth dep# 9 ş cov i depth Plot no.:_ / depth mod SX ş ğ 1376 depth mod corner mod cov 1 depth cov , depth 0 2 Plot area (ha): ş § depth Page 3) 2 8 cov depth 2 ٥ G ב L of 2 mod 05 comer ş ş depth Bom depth Z



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4	90	Page _	70			•				et	a Sh	r Dat	Cove	cies	yram Spe	nt Prog	smen	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet	NETRO	AND	EVE	ठ

obvious for all classes and species of vegetation, but careful HIGH: greater than 25 percent of the stems of plants in the to low browse areas. For example, trilliums may flower and LOW OR NONE: there is no measurable browse line AND intensive module. In general, low values relate to less than MEDIUM: browse affects greater than 10 percent and less 1 m2 nested quadrat and intensive module AND a browse MEDIUM LOW values include evidence of browse at about reproduction evident. In this rating, plants are browsed but numbers that appear normal or near-normal in comparison and 25 percent of stems browsed with very little vegetation examination may show preferential browse and/or browse 10 percent of the stems with no significant impact to plant than 25 percent of stems in the 1 m2 nested quadrat and intensive module. A browse line is usually not evident or **MEDIUM HIGH** values include evidence of a browse line plants, reproduction does not appear to occur or it is very VERY HIGH values include extensive browse conditions, regeneration evident. In this rating, for some species of there are very few or no plants 1-m nested quadrat and Browse line may be 5 to 6 feet in height with no or little preferential species are observed to be reproducing in seedlings and herbs are severely browsed or missing. Intensive Comer fruit, but jewelweed and arrowwood viburnum exhibit where the browse line is very evident AND almost all Ø tol BROWSE RATING NARRATIVE DESCRIPTION 10 percent, by numbers of stems browsed. N 41 lines for some species of plants: Module Number green growth beneath. col 50m severely fimited. fine is evident. Plot Origin browse OI Typical Plot. 10.00m - depth 1 3.16m - depth 2 1.00m - depth 3 0.32m - depth 4 0.10m - depth 5 Depth 2 = 10m² 0 Corner 2 KEY midpoint 0.0001 0.005 0.015 0.175 0.375 0.625 0.975 0.035 0.075 0.850 20m colitary or few % cover 10-25% 25-50% 50-75% 75-95% 5-10% 95-100% 61% 2-5% 1-2% Om baseline cover Depth 1 = 100m² ē Corners Nested Corner 4 Om baseline ê 퉏 The following graphic can be used for vraticus data elements to corresy "Amount" or "Quantily". MOTE: Within any given box, each quadrant cuntains the same to take area covered, Jusy different sized objects. 15% 80% **EXAMPLES OF PERCENT OF AREA COVERED** Om Daseline #0# 30m 30m 0 u 26 ŝ • 우 ø Œ 2% 20% r

% COVER Strate - Cov. entire plot Tell - Cov. entire plot Species C					П						
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Natural Resource Management FORM NR/2010-02a

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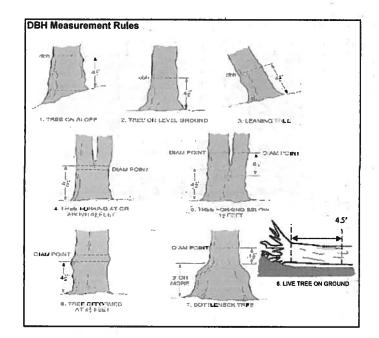
CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet

PCAP

Project Label:

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Explain subsample (additional room on back): STANION OF THAT SULTANTAL MANUEL SOUTH COLUCY Hormornous Vindinion Lerr Jacon JAY (Uprom -contratoly 多なうの一大田 TANDEG TEAT 200 Jane BLOW STONE CINION DEMICUS ordiffit Project Label: DASK voucher# SCO # stems 区 browsed 0-1.4m C or super % sub Project Name: 07 NC 7015 clumps shrub 6 size class (cm) woody stems >1.4m 6 2 9 a . 1-<2.5 • • 2.5-<5 Plot No.: 1376 5-<10 . 10 - <15 15 - <20 0 20 - <25 Page: 25 - <30 30 - <35 으 Wyleveland Metroparks 35 - <40 õ • 17.2.4H >40 (record each tree) 16 51.5 =

PIOT OF



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. Dleback: 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.



C

D

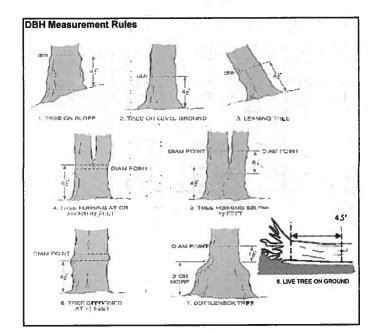
E

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.

mod t CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 5 Prospinos alloid 5 acris non Perus Brotina DIAN DNG DEW Explain subsample (additional room on back): SON STANSON STANSON ABricon STANDING DEAD Analandie 3 SIMPLE ASIANDING species Project Label: _ n PCAP voucher# C 6 # stems browsed 0-1.4m or super % sub Project Name: OZNICZOS clumps shrub size class (cm) woody stems >1.4m <u>م</u> ø 1-<2.5 2.5-<5 Plot No.: 1376 0 5<u>~10</u> 10-<15 • 15 - <20 20 - <25 Page: 25 - <30 3 30 - <35 (D) Glayeland Metroparks 35 - <40 ŏ 8,09 >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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С

D

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.

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)

_						$oxed{L}$																		1	Ti Module II	
25	24	23	22	21	20	19	18	17	க்	15	14	13	12	=	ō.	9	00	7	6	5	4	ω	2	1	Tree ID.	
																								NO FZWINS	Species	
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*** Change intensive module numbers when necessary

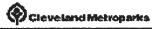
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工

Map all ash trees ≥10cm in each module using Tree ID number

国と

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tion to Food about	/ Danid servers							
Tier 1: Early detection	/ Kapid response			_	sence		GPS	
Adian - A - Illum - Illum	T1	100	NE	SE	SW	NW		Presence
Microstegium vimineum	Japanese stiltgrass							X: yes
Ranunculus ficaria	Lesser Celandine			+	-			-
	Black Swallow-wort			+	-			-{
	l) Flowering Rush				┼			-
Heracleum mantegazzianum	Giant Hogweed							4
Tier 2: Assess	as Needed			_	Plants		comments	
		W-100	NE	SE	SW	NW		# of Plants
Acer platanoides	Norway Maple							1: 1-10
Ailanthus altissima	Tree of Heaven			_	—			2: 11-50.
onicera japonica (vine)				₩	—			3: 51-100
·	Purple Loosestrife				↓			4: 101-1,000
Aegopodium podagraria (G-cover					↓			5: >1,000
Celastrus orbiculatus (vine)					╄			_
Torilis sp.	Hedgeparsley			↓_	 			4
Conium maculatum	Poison Hemlock							_
Rhamnus cathartica		(shrub)						_
Berberis thunbergii	 	(shrub)						
Alnus glutinosa	European Alder							_
Dipsacus laciniatus	Cut-leaf Teasel							
laeagnus umbellata	Autumn Olive	(shrub)						
onicera maackii	Amur Honeysuckle	(shrub)						
Euonymus fortunei	Wintercreeper						1 5	
Tier 3: 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 (G-cover	Crown Vetch							2: 11-50.
leutherococcus pentaphyllus	Five-leaf Aralia ((shrub)						3: 51-100
Pachysandra terminalis (G-cover	Japanese Pachysandra							4: 101-1,000
Philadelphus coronarius	Mock Orange	(shrub)						5: >1,000
Pulmonaria officinalis (G-cover	Lungwort							
Rubus phoenicolasius	Wineberry							
ris pseudacorus (wetland	Yellow Flag Iris							7
Ornithogalum umbellatum	Star of Bethlehem							7
/iburnum opulus var. opulus	European Cranberry (shrub)						7
/iburnum plicatum	Doublefile Viburnum (1			7
Tier 4: Widespread	and abundant			Pre	sence		comments	
		LES	NE	SE	sw	NW		# of Plants
Alliaria petiolata	Garlic Mustard				I			1: 1-10
igustrum vulgare		shrub)						2: 11-50.
morrowii, L. tatarica		shrub)		1				3: 51-100
Phalaris arundinacea	Reed Canarygrass			1	1			4: 101-1,000
Phragmites australis (wetland)	Phragmites			1				5: >1,000
Polygonum cuspidatum	Japanese Knotweed			†	1			T
rangula alnus		shrub)		†	1			7
Rosa multiflora		shrub)	-					┪
Typha angustifolia, T. x.glauca	Cattails (wetland)	J G.D.		+	 			┪
Cirsium arvense	Canada thistle			t	 			┪
Dipsacus fullonum	Common Teasel			1				┪
lesperis matronalis	Dame's Rocket			+	1	 		┥
/inca minor (G-cover)	Periwinkle	-		\vdash	1			┥
mica minor (G-cover)	Trenwinkie					LL		

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

10	9	œ	7	6	5	4	ω	2		mod #			CLE
					none	2	Fans cranchicaliza		Favors oran	species		Project Label:	CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Sheet
							170		discort	voucher#			Community
									,	clumps	shub *	PCAP	Assessme
							00			0- <u>K</u> 1	size class (cm) woody stems >1m	Projec	nt Program
							6			1-<2.5	m) woody	t Name:(Forest
									:	2.5-<5	stems >1n	Project Name: OZNC ZOXS	Pest an
										5-<10	<u> </u>	700	d Patho
										10 - <15	ن 		gens Da
										15 - <20	on .	Plot No.: 137	ta Shee
								T. Color		20 - <25	7	376	
			,							25 - <30	œ		
										30 - <35	9	Page:	
										35 - <40	-	-	Clevela
										10 - <15 15 - <20 20 - <25 25 - <30 30 - <35 35 - <40 >40 (record each tree)	:::	oţ.	Cleveland Matroparks
							1			٣		-	

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

Strata	# of stem infected	Severity (H,M, or L)	*	* Write None Present if no evidence:	
Tree (size class 3 or above)	1	i	7	Beech (Fungus)	Asian Longhorned Beetle
Shrub (size class 2 or below including shrub clumps)	上	I	7	Hemlock (HWA)	Other Pest or Pathogen
				Walnut (Thousand Canker)	
Severity					
High = more than 50% of leaf/needle cover exhibiting symptoms	eedle cover	exhibiting syn	nptoms	1	
Medium = Less than 50% of leaf/needle cover exhibiting symptoms	af/needle cov	er exhibiting:	symptoms		
Low = Only a few leaves or branches are exhibiting symptoms	inches are ex	chibiting symp	toms		

CLEVELAND METROPAR Project Label:	PCAP) Pr	nity Assessme Project Name:	CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cower and Earth Surface Project Label: PCAP Project Name:	Plot No
STANDING BIOMASS (required for emergent wellands); collected in 0.1m clip plots (32x32 cm) from comers 1 and 3 in each intensive module. Required for VIBI-E score calculation. C'=check when collected	ired for emerge rom corners 1 an	nt welland d 3 in each C'=check	s): collected intensive when	CLASSIFICATION	
Module #	C?	Corner Corner	Comer	(FII = excellent g Fit and Confidence	
				Hydrogeomorphic class (WETLANDS ONLY):	
				D DEPRESSION	3
		T		□ IMPOUNDMENT □ Beaver □ Human	Fit=
				o RIVERINE o Headwater o Mainstem o Channel	E
				OF ORE Committee had been as a short of the	ī

CLASSIFICATION (HIT = specifical, e. Fit and Confidence		
Hydrogeomorphic class (WETLANDS ONLY):		
DEPRESSION	Ties.	Conf-
□ IMPOUNDMENT □ Beaver □ Human	- Fi	Conf
□ RIVERINE □ Headwater □ Mainstem □ Channel	7	Conf
□ SLOPE (ground water hydrology or on a physical slop)	7 	Conf =
n FRINGING n Reservoir n Natural Lake	T I	Conf=
COASTAL (specify subclass)	1	Conf-
BOG (strongly, moderately, weekly ombrotrophic)	Fit=	Conf
Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):	Ü	
□ FOREST □ swamp forest □ bog forest □ forest seep □ EMERGENT □ marsh □ wet meadow □ open bog	7 7 	Conf Conf
a SHRUB a shrub swamp a tall sh. bog a tall sh. fen	Fit=	Conf

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				
c.w.d cour	t for pieces with	minimum 1m lengtt		
c.w.d	c.w.d	p.w.0	microhab.	microhab
(2-12 cm)	(12-40cm)	>40 cm	interspers	IA N
depth 1	depth I	depth 1	depth 1	SLOPE
10x10m	10x10m	10x10m	10x10m	10x10m
(count)	(count)	(count)	(rank)	(rank)
V	(7))	_	_
I	1	O	7	
91		0	_	
13	Ct	O	7	_
	c.w.d cour c.w.d (2-12 cm) depth 1 10x10m (count)	c.w.d count for pieces with c.w.d. c.w.d (2-12 cm) (12-40cm) depth 1 depth 1 10x10m 10x10m (count) (count)	c.w.d count for pieces with minimum 1m length c.w.d count for pieces with minimu	w.d count for pieces with minimum 1m length w.d count for pieces with minimum 1m length w.d count for pieces with minimum 1m length 2 cw.d cw.d cw.d. c.w.d count for pieces with minimum 1m length c.w.d count for pieces with minimum 1m length w.d count for pieces with minimum 1m length c.w.d cw.d cw.d. c.w.d cw

McNAB INDICES (degrees) + for up - for down

Plot No.:

@ Glaveland Metroparts Page: 1 of 1

[FILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD]

+315 degrees NW	+270 degrees W	+225 degrees SW	+180 degrees S	+135 degrees SE	+90 degrees E	+45 degrees NE	At aspect N
	away	standing -10 m	recorders eye to	angle from	local slopes For	honzon TSI is	LFI is angle of

Terrain Shape Index (site microtopographic shape)

CROWN COVER (DENSIOMETER) Make 4 readings per module facing N. S. E. W. Place dot count in corresponding space. (4 dots per gnd square)

24	()	2	3	Module	
C	-	_	5	z	
D	7	G	_	s	
0	_	g		(F)	
0	3	_	7	ŧ	ľ

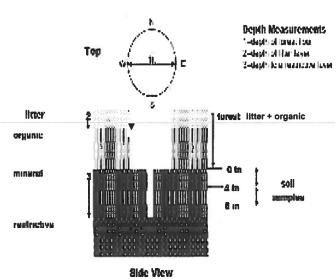
NOTE: tussock and hummocks are counted in BOTH nested quadrat comers but counts are aggregated.

COVER BY STRATA

STRATUM	GENERAL FORM
Tree (generally >5 m)	Tree (overstory), very tall shrubs*, liana, epiphyte)
Shrub (generally 0.5 to 5 m)	Tree (sapling), shrub, liana, epiphyte)
Herb (Field)	Herb, dwarf-shrub**, tree (seedling***)
Floating	Floating
Aquatic (submerged)	Submerged

"Very tall shrubs are sometimes included in the tree stratum

^{***}Tree seedlings are often defined as up to 1.4 m height or as <2.5 cm DBH in which case they would span the herb and shrub layers.



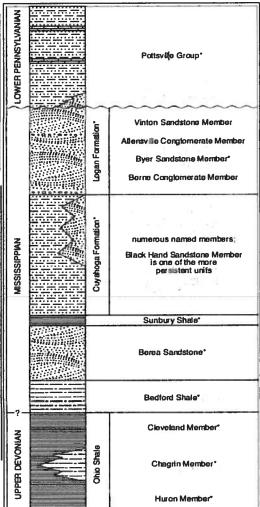


FIGURE 3-20.—Generalized section of Upper Devonian, Mississippinn, and Lower Pennsylvanian formations in northeastern Ohio Asteriaks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to calle, but the thicknesses indicated are proportional. The term "Waverty" is used in the clder literature to refer to Mississippian rocks in Ohio. Some geologists use the European nerm "Carboniferous," 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 Mand Member is a speciacular massive sandstone that is fairly widespread but discontinuous. See Hyde (1953), Hoover (1960), and Colins (1979) for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of rock types.

^{**}Can also include seedlings of shrubs, i.e. all shrubs <0.5m

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

Project label: PCAP Project Name: 700 200 Plot No.: 1376

(Cicroland Metroparks

Page: 1 of 1

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

Soil pit module # ____ (one per entire plot)

						20 cm							5 cm
hydro. cond.***	redox features**	texture*	oxid roots	%mottle	mottle color	matrix color	hydr. cond.***	redox features**	texture*	oxid roots	%mottle	mottle color	matrix color
S I	4		~				ı s	4		4			
M D	z		z				Ŋ M	z		z			
			2-0		2000	200.000							

* refer to texture classes on reverse side

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

lotes: include evidence of earthworms (worms, indundated S=saturated M=moist D=dry

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 ModuleHorizon (A, B, C)	
2,3,8,9 composited A	
Web Sell Survey Information:	
Soil Series/Type:	
Soil Series Source: Ohio Soil Survey	
Landform type:	
Depth to rest. Layer:	
Parent Material:	
DRAINAGE*	
ロ Excessively dr. ロ Somewhat excessively	
□ Well drained □ Moderately well dr.	
□ Somewhat poorly dr. □ Very poorly dr.	
□ Impermeable surface	ı
	-

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

	1	100		
17	,3	2	1	mod#
CO	1.4	11.O	03	1 litter+ organic depth (cm)
77	Til	h'O	0.8	2 litter depth (cm)
		-	l	water depth depth sat
١	V)	١	depth sat soil (cm)

1	Other	meter	**** <5 cm in diameter
5%	Rood/Trail	neter	*** >5 cm in diameter
15%	Bare Soil	5	**Boulder => 10 in
1	Water	1/16-10"	* Gravel-Cobble = 1/16-10*
27.	Bryophyte- Lichen	1	Bedrock
1	Duff (Ferm.+ Humus)	1	Boulder**
75%	Litter	1	Gravel-Cobble*
4%	Fine Woody Debris****	10090	Mineral Soil
6%	Coarse Woody Debris***	(Histosol
percent	(Each ≤ 100%)	percent	(Sum = 100%)
	Ground Cover	Surface*	Underlying Earth Surface*
	D COVER	CE & GROUN	EARTH SURFACE & GROUND COVER

□ Bridle
□ Hiking sanctioned L'Bootleg unsanctioned

ype

%Cover

All Purpose

ecord type and cover for each RAIL INFORMATION:

COVER BY STRATA estimate using midpoir
Stima
m YE
3 %
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= 2
1 7 - 1
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ai A
) Dints
A Dints o
A pints of
A pints of 5
A pints of 5,6
A Dints of 5,ex
A bints of 5,ex:
A bints of 5,ex:3,
A bints of 5,ex:3, §
A bints of 5,ex:3, 8,
A bints of 5,ex:3, 8, 1
A bints of 5,ex:3, 8, 13
COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13
A bints of 5,ex:3, 8, 13
A bints of 5,ex:3, 8, 13

*

(Floating)*	Herb 0-0.5 189	Shrub 0.5. 5 28%	Tree 5.00 88%	Strata Height Range (m) Total Cover	
	18%	28%	881.	Total Cover (%)	

3-10 x plot size

< plot size 1-3 x plot size

rooted and floating or slightly emersed

submersed, most plant mass below surface

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

	н	
□ Deer	□ Gravel	

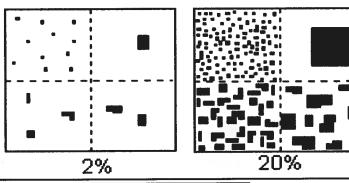
□ > 100 x plot size	□ >600 x plot size	STAND SIZE
---------------------	--------------------	------------

3) costings present, no worms 6aCM PCAP Soils_Crown cover_Landform_Standing Biomass_Data Sheet_ver 3.xls last revised 6/4/2012 ceh

4) both costings 3 warns procent

PERCENT MOTTLES (USE CLASS CODES):

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



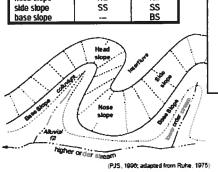
SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but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

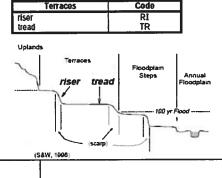
- 0= Organic
- 1= Loamy
- 2= Clavev
- 3= Sandy
- 4= Coarse Sand
- 9= Not measured make plot note

summit

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.

Hills Code NASIS PNP interfluve head slope HS H\$ nose slope NS NS SS side stope SS





Code

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 stope; e.g., backstope or BS. This is best applied to transects or points, not areas.

shoulder backslope footslope toeslope	SH BS FS TS		
Su Sh Bs	Fs Ts / TS	Sh Bs	Su
All the season from Branch	Albritum		

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

PERMANENTLY FLOODED: Water covers the land surface at all times of the year in all years. Equivalent to Cowardin's "permanently

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

•							FO	RM B-1:	BUFF	ER	SAI	MPL	EΡ	LO	TS (F	ront)		Reviewed t	y (initia	i):	_	•
Site	ID:	135	76	u	20										DAT	E: 07	124	1/2	0	1 5	5	19
Locati							N. A.		Fill	l in b	ubb	le(s) if p	lot(uld not be		_			Г	\neg
O AA	Center	C	N	0	S	0	E C	W	01	Plot	1	0	Plot	2	01	Plot 3						
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Buffer	Canop	у Тур	e: 🕖) () A	bser	t: O	Buffer	Canop	у Тур	e: () () A	bsen	t: ()	Buffer	Canopy	Type: (<u> </u>) At	sent	: ()
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Small Trees (<	0.3m DBH	0	0	(1)	0	0		Small Trees (<0.3m DB⊦	,0	0	0	0	0		Small Trees	(<0.3m DBH)	00	0	0	0	
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Woody Shrubs (<0	s, Saplings .5m HIGH)		(0	0	0		Woody Shrub			0	0	0	0		Woody Shru	bs, Saplings 0.5m HIGH)	00	0	0	Ō	
	orbs and Grasses	0	(1)	0	0	0			orbs and Grasses	0	0	0	0	0			Forbs and Grasses	00	0	0	0	
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Road - two	lane	***		0	0	0		Dike/Dam/		R Bed		0	0	0		Range	in de		0	0	0	
Road - fou	r lane	201	TA.	0	0	0		Water Leve		ol Stru	cture	+	0	0	-	Row Crops			0	0	0	
Parking Lo	t/Pavem	nent		0	0	0		Excavation	, Dredgi	ng	m	0	0	0		Fallow Field		RESTING	0	0	0	
Golf Cours	e	i i i i		0	0	0		Fill/Spoil B	anks		RE	0	0	0		Fallow Field	d (OLD - GR	ASS,	0	0	0	
Lawn/Park				0	0	0		Freshly De		Sedim	ent	0	0	0		Nursery	The sale		0	0	0	
Suburban	Residen	tial		0	0	0		Soil Loss/F	Root Exp	osure		0	0	0		Dairy			0	0	0	
Urban/Mul	tifamily		175	0	0	0		Wall/Ripra)			0	0	0		Orchard			0	0	0	
Landfill				0	0	0		Inlets, Outl				0	0	0		Confined A	nimal Fee	ding	0	0	0	
Dumping			grid.	0	0	0		Point Source (EFFLUENT O	R STORM	WATER)	0	0	0	<u></u>	Rural Resid	dential		0	0	0	
Trash				0	0	0		Impervious (SHEETFLOW		input		0	0	0		Gravel Pit			0	0	0	
Other:				0	0	0		Other:				0	0	0		Irrigation			0	0	0	
Other:				0	0	0		Other:				0	0	0		Other:			0	0	0	
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Oil Drilling				0	0	0		Forest Clear	Cut			0	0	0		Herbicide U	se		0	0	0	
Gas Wells				0	0	0		Forest Selec	tive Cut			0	0	0		Mowing/Shr	ub Cutting		0	0	0	
Mine (surfa	ice)			0	0	0		Tree Plantat	ion			0	0	0		Trails			0	0	0	
Mine (unde	erground)		0	0	0		Tree Canopy	/ Herbivo	ory		0	0	0		Soil Compa			0	0	0	
Military		Hin)	188	0	0	0		Shrub Layer	Browse	d		0	0	0		Offroad veh	A Page 1	ge	0	0	0	
Other:				0	0	0		Highly Graze	ed Grass	ses		0	0	0		Soil erosion	Control of the latest and the latest	D, WATER,	0	0	0	
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Fill bubble if present - Plot	1	2	3	Flag	FIII bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Eurasian Watermilfoil	0	0	0		Purple Loosestrife	0	0	0		Johnson Grass	0	0	0	_
Water hyacinth	0	0	0		Knotweed	0	0	0		Kudzu	0	0	0	
Yellow Floating Heart	0	0	0		Japanese Knotweed	0	0	0		Multiflora Rose	0	0	0	
Giant Salvinia	0	0	0		Perennial Pepperweed	0	0	0		Common Buckthorn	0	0	0	
Garlic Mustard	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry	0	0	0	
Poison Hemlock	0	0	0		Cheatgrass	0	0	0		Tamarisk	0	0	0	
Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	0		Other:	0	0	0	
Birdsfoot Trefoil	0	0	0		Common Reed	0	0	0		Other:	0	0	0	
Canada Thistle	0	0	0		Leafy Spurge	0	0	0		Other:	0	0	0	
		1991				65				Other:	0	0	0	
BEREIT TO THE	23.15				PLOT COORI	DINA	TES		576					
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05/27/2011

Buffer Sample Points - Targeted Alien Species

	D			<u> </u>			FO	RM B-1:							•	•	Reviewed by			_ (
Site I		NC)(37	۵										DATE	: 07	sampled and	O	i :	5	
Location	on:																sampled and t	lag -	→		
OAAC	Center		N	0	S	01	E C	W	OP				Plot			Plot 3				L	
								ıs; E = Evergre		ype: E	B = Bro	oadlea	f; N =	Needl	e Leaf. /	Absent: No tree	e canopy. %); 3 = Heavy (40-75%); 4 = \	ery H	eavy (>75%)
Buffer	Canopy	у Тур	e: 🕡) () AI	bsen	t: O	Buffer	Canop	у Тур	e: 🌘) AI	bsen	t: O	Buffer	Canopy Type: @	() Ab	sent	: O
Plot 1	Lea	f Typ	e: 偱	<u>C</u>		,	Flag	Plot 2	Lea	f Typ	e: 🌘	<u>(</u>			Flag	Plot 3	Leaf Type: @	•			Flag
Big Trees (>	0.3m DBH)	0	0	0	0	0		Big Trees (0.3m DBH)	0	0	0	0	<u></u>		Big Trees	(>0.3m DBH)	0	0	(1)	
Small Trees (<	0.3m DBH)	0		0	0	0		Small Trees (<0.3m DBH)	0	0		0	<u>O</u>		Small Trees	(<0.3m DBH)	0	0	0	
	5m HIGH)	0	0		(1)	0		Woody Shrub (0.5m	s, Saplings +5m HIGH)	0	0	3		<u>O</u>			rbs, Saplings m-5m HIGH)	0	(0	
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Landfill				0	0	0		Inlets, Out				0	0	0		Confined A	nimal Feeding	0	0	0	
Dumping	April 1	Dan	100	0	0	0		Point Sour		VATER	0	0	0	0		Rural Resid	dential	0	0	0	
Trash		(50)		9	0	0		Impervious (SHEETFLOW	surface			0	0	0		Gravel Pit		0	0	0	
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Buffer Sample Plots 05/27/2011



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