Project Label:	РСАР			o: 1646_ Date Sampled: 7/23/15 Lead: LA
			1	Comment required if item answer is NO
Parking/Access outs	side of Park Boundaries:	X	N	If yes, write details in Comments section below
Field journals comp	lded	- K*	N	
Site sketch made on	1:3000 map?	X	N N	
Check cover page	X-axis Bearing of plot recorded	No.	N	
	GPS coords. Recorded	10	) N	
	North direction recorded	X	) N	
	Photographs taken?	LY	N	
	Relocated Pins Mapped	Y	N	INIA
Plot No., Date agree	ment on all pages?	/Y	) N	
Header data comple	ted all pages?	8	N	<
Cover classes record	led in all Intensive modules	(3	) N	1 Jan 12 12 12 12 12 12 12 12 12 12 12 12 12
Browse Level By Sp	oecies	Y	N	N/A
Woody stem quality	control check	Y	N	Check every line and cross check with the Tree Cover Sheet
Invasive plant qualit	y control check	Y	N	NIA
Ash trees mapped	2 W W25	Y	N	NIA
	est/Pathogen Datasheet	(Y	N	
Cover by Strata? (co	50	(Y	) N	
	ed with matching plot #.	Y	N	N/A
Cross check 2010 in		Cy.	N	Highlight any changes from 2010 information
	datasheet with initials and number	/Y	) N	
Vouchers labeled or		10		
Pink flags removed	redirection des	V	) N	
Data sheet QA before	re leaving site?	100	) N	
Common equipmen		V	N	
Data sheets scanned		10	-	Enter date to left
Final data sheets sea		TV		Enter date to left
Buffer Widths meas	A.2	Y	N	
Web Soil Survey	wied.	v	N	
Voucher Location	Refrigerator	V	N	
( # vouchers collected)	Press (#)	10	14	Enter number to left
( = voliciters collected)	Drier	Y	N	End named to tell
HUL				
279-	Identified	Y		
201	Mounted Thrown away	Y		

Yes	Original GRTS point is sampleable
□ No	Original GRTS point lands in a non-sampleable area (fill in category below)
	D Point falls in a water (i.e. river, lake)
170.00	Managed mowed area (i.e. golf course, picnic area, right-of-way)
	Paved area (i.e. parkinglot, road)
	Unsafe to sample (i.e. steep slope)
	D Other

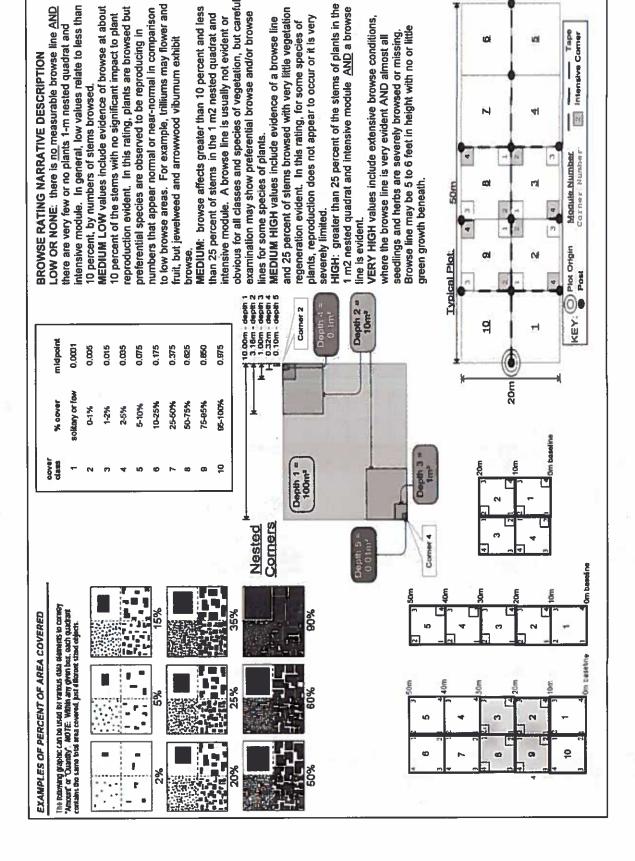
PARK AT MEDICAL ARTS BULLDING 2 OFF OF HEPBURN AUE.

¥)

CLEVELAND METROPARKS Plant Co	CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	THE PARTY OF THE P
GENERAL INFORMATION	LOCATION	
Project Label: PCAP	State: OH County: Churches	Z
Project Name: 02BC2015	angle: Lakewood	( )
- 1	Names	v.
Lake Abram SW	Lake Abram	2-10 3 4 3 4
Plot No.: 1646	Landowner: CMP	Part #304 #37
<ul> <li>Level 4 (no nested corners sampled)</li> </ul>	Data Confidentiality:	
■ Level 5 (nested corners sampled)	Check one: L'ablic data u Private Data	
Date (mm/dd/yyyy): 07 /23/ 2015	□ Fuzz 100m □ Fuzz 250m □ Fuzz 500m	
End date (if > 1 day): / /	Reason:	
Party Role**	If data not public why?	Key: (0,0) point point with direction permanent posts
A. Lance Plot leader	Source of coordinates   MAP   GPS	NOTES: Include Layout (any unusual shape details), Location (directions and landscape content) Rationale (why here) and Ver Characterization (description of community.
M. Geitger, Bot. Asst.	Coordinate system: Coord. Units	dominants, strata, BROWSE). Additional notes in space on back.
M. Busan Cru	■ Lat/Long □ UTM □ StatePlane ■ deg □ deg min	
E. Knaws Crew	□ Other (specify) ■ m □ ft □	Cayout 1) 2×2
	Datum: ■ NAD83/WGS84 □ NAD27	Port of the things
** Roles: Co-leader, Assi,, Guide, Owner, Taxonomist, etc.	GPS location in plot x=0 to 5, y=-1,0,+1):	
PLOT NOT SAMPLED: a Other	x = 1 $y = 0$ (base of plot x=0, y=0)	corner of Lake Abram. Park car
o Perm. water	Latitude: 41, 37843	at Medical Act, 2 building off of
SAMPLING QUALITY*	Longitude: 81 . 83884	
Effort Level: subjective evaluation of	Coord. Accuracy: of the of 7.6+-	Hepburn Ave.
ery thorough how much effort put into	GPS File Name: 1046A	P. Kr. 1 . C. O. C. O. C. O.
Accurate may still provide good	Plot size for cover data: , OH (hectares)	racionale & GICIS, TCAP Tesample
o Hurried data	X-axis Bearing of plot: [ O] o	Voc Charachichic DI
TAXONOMIC ACCURACY	Depth: (1-5): 4	7 1 104 15
high modera low not smpl	Intensive modules: 2, 3, 8, 9 (EDIT IF MODIFIED	entirely adminated by cartail.
	Camera No.: 3	Retard Rice City orace
bryo	Photo Nos.: 0143	The state of the s
lichen	Plot placement: merts a Representative	itea intersparsed with the contail.
TAXONOMIC STANDARD	Random    Stratified Random    Transect component	I tem soroute of hittory best wantshad
Authority: G&C Pub Date: 1998	□ Systematic (grid) □ Capture specific feature □ Other	
Minimum required fields in Bold and Underlined	*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide	CVS Field Guide OVER

idea

Project Label:	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet  Project Label:  PCAP  Project name: OBBC2015  Total modules:  Plat configuration	nent Program Species Cover Data Sherica modules: U Plot co	E COV			Jeer Jeer	P	Z	3	1	21		<u>D</u>		rage	-	5 ,5	L
Total modules:	<del>  f</del>	Intensive modules:	f		Plot configuration:	nfigu	ration		2X	l b			Pot	area	(ha):	Plot area (ha):	104	
>			med.	corner mod	od comer	$\neg$	d comer	mod .	come	mod	comer	mod	comer		Ω		СОПТИЕ	mod
3		Estimate for each		<u>+</u>		7		U	υ	W	4	W	V	4	1	4	2	
3	Br = Browse Level. Use cover classes to	intensive module:	depth	Ωγ de	depth cov	v depth	_	į	NB0	depth		depth	ğ	depth		dopth		
Cleveland	describe amount of browse per species over	%open water		0			G			_	0			_	0			
Metroparks	entire plot	%unvegetated open water	1 (	0			0	1	100	1	0			_	0	П		
		%unveg, ground (bare soil)	1	9		1	0		100	1	0			1	9		The same	
Strata - Cov. entire plot		%unveg. litter (bere litter)	1	0			0			1	0			E	0			
S   H  (F) (A) Br	r Species	c Voucher#	depen	cov de	depth cov	∾ depth	P 007	dep	NOS 4	depth	9	depth	QQ	depen	8	depar	99	
20	Tupha 1	X RL 379	4 1	101	ፗ	t	10	2		t	100	7		t	Depres	_		
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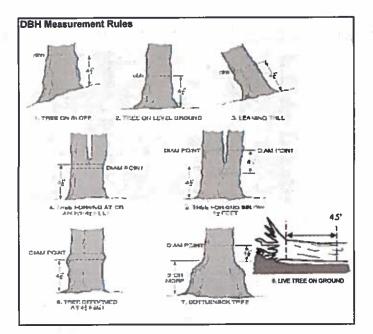


CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet % COVER Strata - Cov. entire plot Project Label: 막 Prensence of tree mod and mod and Project name: 02 80295 Voucher # Plot no.: 1046 Z) 2 Page \_

	Plot no.:	œ	ĸ																	
Sheet	_	рош													9					
ata		mod		1																
Ver D	$\parallel$	pom				oud					440	ericu	e I							
ပ္ပ																				_
ent Program Tre	Project name:	Prensence of tree mod	species (X)	Voucher #	į							,								
SSIII				Ü																
CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet	PCAP			Species												200	,			
IETROP/		,	plot					,												
LAND I	Project Label:	ÆR	Strata - Cov. entire plot	ធ				,	,											
CLEVE	Proje	% COVER	Strata - (	۲																

Page of

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet mod # 2 6 2 Explain subsample (additional room on back): moody 6 species Project Label: oresen. voucher# browsed sample 0-1.4m # stems or super % sub Project Name: 028C2015 shrub clumps Q-<1 size class (cm) woody stems >1.4m 1-<2.5 2.5-<5 Plot No .: 1046 5-<10 10-<15 15-<20 20 - <25 Page: 25 - <30 30 - <35 잌 Cieveland Metropaires 35 - <40 5 >40 (record each tree) =



### Woody Stem Deer Browse

Record the number of stems/plants between 0.5-1.0 meters talt 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.



В

C

D

E

# ASH CANOPY BREAKUP CONDITION (for dead trees):

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

- A: All main branches contain fine twigs (newly dead).
- B: Over 50% of main branches have fine twigs.
- C: Less than 50% of main branches have fine twigs.
- D: Stem still standing and tertiary main branches present.
- E: Central stem still standing.

CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet Tree 25 23 2 강 10 7 16 5 13 5 If Ash Condition scores 6 (dead) provide breakup score (A-E)
Count EAB exit holes 1.25m2 x 21.5m
 Woodpecker and epicormic marked present (1) or absent (0) Mesent Project Label: PCAP Project Name: 028CLOIS (E) E 9 E Dead condition ASH Only

# Exit Epiconnic present # Ext PIOT NO.: 1046 Date: Woodpecker holes DATE: 3/23/)5 Baseline Map all ash trees ≥ 10cm in each module using Tree ID number \*\*\* Change intensive module numbers when necessary 2 Page: 1 of 2

# CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detection	Rapid response		Pre	sence	Louis II	GPS	7
tion of month moneyers		NE	SE	sw	NW		Presence
Aicrostegium vimineum	Japanese stiltgrass						X: yes
Ranunculus ficaria	Lesser Celandine	1	+	_			
	Black Swallow-wort	+	+	+			_
	Flowering Rush	+	+			_	$\dashv$
Heracleum mantegazzianum	Giant Hogweed	-	+	+-			$\dashv$
Tier 2: Assess a			H of	Plants		comments	
Her 2: Masess a	s reeueu	NE	SE	SW	NW	COMMITTEE	# of Plants
Name al de la constante de la	Interview Manufa	IAE	35	244	1444		1: 1-10
Acer platanoides	Norway Maple	+	╫	+	<del> </del>		2: 11-50.
Ailanthus altissima	Tree of Heaven	-	+			lii .	3: 51-100
onicera japonica (vine)	Japanese Honeysuckle		+	+	1		4: 101-1,000
ythrum salicaria (wetland)	Purple Loosestrife	-	<del> </del>		1		
Aegopodium podagraria (G-cover)		1	+	-		<del></del>	5: >1,000
Celastrus orbiculatus (vine)		+	+	┼		<del> </del>	-
Torilis sp.	Hedgeparsley	+	+	-			
Conium maculatum	Poison Hemlock	-	+-	+		<del></del>	-
Rhamnus cathartica	Common Buckthorn (shrub)		-	-	$\vdash$	· · · · · ·	$\dashv$
Berberis thunbergii	Japanese Barberry (shrub	1	+	-			
Alnus glutinosa	European Alder	₩	┼	$\leftarrow$			-
Dipsacus laciniatus	Cut-leaf Teasel		-	-			
Elaeagnus umbellata	Autumn Olive (shrub)	_	-			<u></u>	_
Lonicera maackii	Amur Honeysuckle (shrub)		╄	_			_
Euonymus fortunei	Wintercreeper						
Tier 3: Presence	s of Interest	la hours		Plants		comments	
	T1 W1 01 26/39	NE	SE	SW	NW		# of Plants
	Lily of the Valley	╄	╄	_			1: 1-10
	Crown Vetch		<b> </b>		$\vdash$		2: 11-50.
Eleutherococcus pentaphyllus	Five-leaf Aralia (shrub)	4			$\vdash$		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)			1				
Rubus phoenicolasius	Wineberry				$\bot$		
Iris pseudacorus (wetland)	Yellow Flag Iris					95	_
Ornithogalum umbellatum	Star of Bethlehem		<u> </u>				_
Viburnum opulus var. opulus	European Cranberry (shrub)						
Viburnum plicatum	Doublefile Viburnum (shrub)						
Tier 4; Widespread	and abundant			sence		comments	
	1900	NE	SE	SW	NW		# of Plants
Alliaria petiolata	Garlic Mustard		-	_	$\perp$		1: 1-10
Ligustrum vulgare	Common Privet (shrub)	_	╄		<del>                                     </del>		2: 11-50.
L. morrowii, L. tatarica	Bush Honeysuckles (shrub)						3: 51-100
Phalaris arundinacea	Reed Canarygrass						4: 101-1,000
Phragmites australis (wetland)	Phragmites						5: >1,000
Polygonum cuspidatum	Japanese Knotweed						
Frangula alnus	Glossy Buckthorn (shrub)						
Rosa multiflora	Multiflora Rose (shrub)						_]
Typha angustifolia, T. x.glauca	Cattails (wetland)		T				
Cirsium arvense	Canada thistle		1				
Dipsacus fullonum	Common Teasel						
Hesperis matronalis	Dame's Rocket	$\top$	$\top$				
Vinca minor (G-cover)	Periwinkle						
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				<u> </u>		

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

	CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Sheet	t Communit	V Assessme	nt Program	n Forest	Pest an	d Patho	dens D	ata She	2				
	Project Label:	PC	PCAP	Proje	Project Name: 02862015	028	12015	-01	Plot No.: 1	1046	1	Page:	-	of
			#	size class (cm) woody stems >1m	cm) woody	stems >1	3							
} #		voicher#	shrub	ζ -	<u>,</u> 2	, , , ,	<u> </u>	5 10 - <15	15 - < 20 15 - < 20	70 - < 25	کر د د د د د د د د د د د د د د د د د د د	35.7 - UE	16 - 240	10 - <15   15 - <20   20 - <25   25 - <40   >40 (moord each tree)
			or or other								200	000		
-1	Nous nesent													
2														
ω														
4										STATE OF				
ენ :				,										
6												1 - JII		
7														
œ					103						97 (1.5)			
9					4									
10														
								> m						

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

(size class 3 or above)  Shrub (size class 2 or below including shrub clumps)  Move Beech (Fungus)  Nove Hemlock (HWA)  Walnut (Thousand Canker)	Strata	# of stem Infected	Severity (H,M, or L)	* Write None Present if no evidence:	ica:
Nove Hemlock (HWA)    Walnut (Thousand Cank	Tree (size class 3 or above)				Nove Asian Longhorne
Walnut (Thousand Canker)	Shrub (size class 2 or below including shrub clumps)			Nowe Hemlock (HWA)	Other Pest or Pa
				Wainut (Thousan	d Canker)

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

Sin .\*

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

Project Label: PCAP Project Name: 02802015

Flot 110: 1046

(Cleveland Heingarte Page: 1 of 1

in 0.1m clip plots (32x32 cm) from corners I and 3 in each intensive module. Required for VIBI-E score calculation. C7=check when collected	from corpers 1 an score calculation.	d 3 in each C7=check	when
Module #	C?	Corner Corner	Comer

LASSIFICATION		
TT = excellent Fit and Confidence		
hirogremerable class OVETLANDS ONLY):		
DEPRESSION	File.	Conf
IMPOUNDMENT o Beaver o Human	₹ 	Conf
MVERINE prendwater a Mainstein a Channel	=======================================	Confe
SLOPE (ground water bridrology or on a physical slop)	7	Conf=
FRINGING to Reservoir to Natural Lake	<u>=</u>	Confa _
COASTAL (specify subcless)	7	Conf
BOG (strongly, moderately, weekly understrophic)	File	Conf=
THE ETA VIBITION COMMUNITY CLAN (NETLANDS ONLY):	CULINO	
FOREST IS SWAMP, Reset to boy forest to forest seep	F	Conf
CMERGENT whenh is wel meadow is open bog	Ein 	Conf*
		Confin

# MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

lape 1 = slight elevational grade across module (NII) with for microhabilet feebures. Selections on select two and everage the score.NOTE: If mod falls on a slope automatically gets tented based on steepness (I-3) to begin + any feebures present Slope 2 = falls on slope -20 \* Stope 3 = maximum steepness that can be safely sampled ~45°

- feature is absent or functionally absent from the wetland
- feature is present in the wetland 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 highest quality

2	W	2	1	med#						
				corner						
9	0	0	0	(count)	IX IN	depth 3		lussocks	no of	
0	0	a	0	(count)	3.16x3.16m	depth 2	uplands (Tip-Ups)	hummocks	no. of	
0	0	0	0	(count)	10x10m	depth 1		depressions	no. macro.	
0	0	0	0	(pount)	JOX IOm	depth 1		(2-12 cm)	cwd	
0	0	0	0	(count)	10x10m	depth 1	,	(12-40cm)	cwd	
0	0	0	0	(osunt)	10:10:	1		>40 cm	pwd	
0	0	0	0	(rank)	10x10m	depth I		interspers.	mecrohab.	
0	0	0	O	(rank)	10x10m	SLOPE			microhab.	

# McNAB INDICES (degrees) + for up - for down FILLED OUT USING OIS PROGRAM - DO NOT FILL OUT IN FIELD)

LFI\*

-	+315 degrees	+270 degrees	+225 degrees	+   \$0 degrees	+135 degrees	+90 degrees	+45 degrees
	NW	W	WS	s	SE	ET .	XII

LFI is angle of plot to the horizon. TSI is angles farmed by local slopes. For TSI measure angle from reconders eye to eye of person standing -10 m

Landform Index (position within tandecape)

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

¥	1	4	1	Medu
ع	w	2	_	•
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25	79	83	46	(n
24	080	80	95	e3
とれ	78	74	86	8

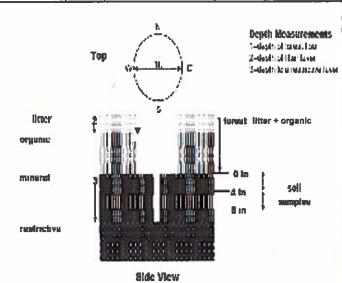
SeCM PCAP Plant Cover\_Earth Surface Data sheet Page 1\_ver 3.ris last revised 5/29/2012 ceh

COL	/ED	DV	STD	ATA

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.



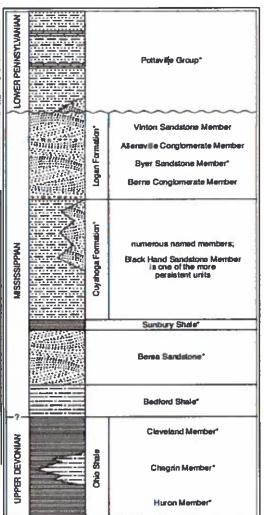


FIGURE 3-20.—Generalized section of Upper Devonian, Mississippian, and Lower Permaylvanian firmations in northeastern Ohio Asteriaks melicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to soule, but the chicknesses insheated are proportional. The term "Waverty" is used in the older literature to refer to Mississippian rocks in Ohio. Some geologists use the European term "Carboniferous," which encompasses the Mississippian and Pennayrivanian 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 massive sandstone that is fairly undergread but disconitizations. See Hyde (1953), Hoover (1950), and Collins (1979) for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of rock types.

Carreland Metroparks

Page: 1 of 1

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

(one per entire piot)

20 cm § cm matrix color exid mots matrix color hydr. cond.\*\*\* redox features\*\* extrac. esta por principal edure. edox features\*\* smottle ottle color mottle nottle color s M

hydro, cond \*\*\* S M D

refer to texture classes on reverse side

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

xtes: include evidence of earthworms (worms ndundated 5-saturated M-moist D-day

stings, middens) Town. アングル

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

o impermeable surface Somewhat poorly dr. o Well drained a Excessively de Depth to rest, Layer: Soil Series Source: Ohio Soil Survey Soil Series/Type: Seil Collection Modul Herizen (A. B. C) 2,3,8,9 composited andform type: rent Material eb Sell Survey Infer Somewhat excessively Moderately well dr. U Very poorly dr.

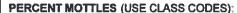
	ecord as >30	of om i	OL D
1	>30	.1 cm in center of intensive modules. If >30.5 cm,	OIL DEPTH MEASUREMENT; Measure to the nearest
ı		700 16	EAS
1		ntensi	
1		WE THO	ENT.
1		dules.	Meas
1		=	2
┨		>30.5	to the
		3	eare
_	_		8

	3 0	9 2	1 6	l litter+ organic de mod# (cm)
,	5	0	0	pth 2 litter depth (cm)
4	31	2.6	3.1	water depth (cm)
	0	0	0	depth sat soil (cm)

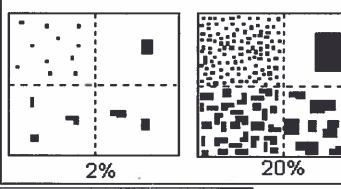
EARTH SURFACE & GROUND COVER	CE & GROU	ND COVER	
Linderlying Earth Surface*	h Surface*	Ground Cover	
(Sum - 100%)	percent	(Each ≤ 100%)	percent
Histosol	100%	Coarse Woody Debris***	+
Mineral Soil	1	Fine Woody Debris****	-
Gravel-Cobble*	١	Litter	59
Boulder**	l	Duff (Ferm + Humus)	+
Bedrock	1	Bryophyte- Lichen	-)-
• Gravel-Cobble = 1/16-10*	1/16-10"	Water	+
• Boulder - > 10 in	s	Bare Soil	1
*** >5 cm in diameter	neta	Road-Trail	+
	**** Com in diameter	Other	1

estimate using midpoints of 5,ex:3, 8, 13	
Strata Height Range (m) Too	Total Cover (%)
Tree 5.0- C	57
Shrub 2.0. 5.0	0%
Herb 0 - 2.0 / (	9
(Floating)*	100/0
	0/0

n Deer	o Gravel	a Bootleg unsanctioned	a Hiking sanctioned	n Bridle	a All Purpose	Туре	record type and cover for each	HONE
						%Caver	or each	*/



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

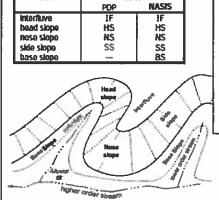


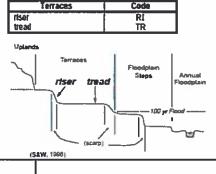
SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but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

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

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





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.

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HYDROLOGIC REGIME Modified from Grossman et al 1998. (Frequency and duration of flooding.)

UPLAND: Not a wetland. Very rarely flooded.

(PJS, 1000; adapted from PL/vs. 1975)

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 takes, 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.