Project Label:	PCAP	Plot No	
			Comment required if item answer is NO
arking/Access outsid	le of Park Boundaries:	YW	If yes, write details in Comments section below
ield journals comple	ted	N	
Site sketch made on 1	:3000 map?	N N	
heck cover page	X-axis Bearing of plot recorded	N N	
	GPS coords. Recorded	(V) N	
	North direction recorded	(X) N	
	Photographs taken?	Y N	
	Relocated Pins Mapped	N	
lot No., Date agreen	ent on all pages?	C N	
leader data complete	d all pages?	N (V)	
Cover classes recorde	d in all Intensive modules	(V) N	
Browse Level By Spe	cies	(Y) N	
Woody stem quality o	ontrol check	O N	Check every line and cross check with the Tree Cover Sheet
nvasive plant quality	control check	Y N	N/H
Ash trees mapped		Y N	11/4
Completed Forest Pes	t/Pathogen Datasheet	N N	
Cover by Strata? (con	firm cover type)	Ø N	
Soil samples collected	with matching plot #.	Y N	
Cross check 2010 info	onnation	Ø N	Highlight any changes from 2010 information
Vouchers labeled on	datasheet with initials and number	YN	NA
Vouchers labeled on o	collection bag	XN	NIA
Pink flags removed		O N	/
Data sheet QA before	leaving site?	Ø N	
Common equipment	returned to tub.	Y N	
Data sheets scanned?			Enter date to left
Final data sheets scan	ned?	4	Enter date to left
Buffer Widths measu	red?	Y N	
Web Soil Survey		Y N	
Voucher Location	Refrigerator	Y N	
# vouchers collected)	Press (#)	-	Enter number to left
	Drier	Y N	
	Identified	Y N	
	Mounted	Y N	
	Thrown away	Y N	
			- 100 T
GRTS point verifica	tion: Is plot sampleable?		I35
Yes	Original GRTS point is sampleable	-7.5	
□ No	Original GRTS point lands in a non-	sampleable area	fill in category below)
	Point falls in a water (i.e. river.		
83	☐ Managed mowed area (i.e. golf	course, picnic area, r	ght-of-way)
	Paved area (i.e. parkinglot, road)		
	Unsafe to sample (i.e. steep slop	e)	
	Other Other		
Additional Commen	fer		

taCM PCAP Background Data Sheet Page 1_ver 3.0.xls last revised 5/29/2012 ceh	Aumority: G&C Pub Date: 1998 Minimum required fields in Bold and Underlined	OMIC STANDARD	lichen	yascul. n/a	high modera low not smpl	TAXONOMIC ACCURACY	may still provide good data	Accurate sampling. Hurried plots		SAMPLING QUALITY*	□ Perm. water □ Paved □ Slope □ Safety	PLOT NOT SAMPLED: DOther	** Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc.		α	D. Sweet Woods	_	Ey senbouth	Party Role**	Date (mm/dd/yyyy): 8 /12/ 2015	Level 5 (nested corners sampled)	 Level 4 (no nested corners sampled) 	PIOL No.: 1071	Sticky Pants	Project Name: 02 pro 26 15	Project Label: PCAP	
3.0.xls last revised 5/29/2012 ceh	*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide	ed Random 🏻 Trans	Plot placement: QUATS - Representative	Camera No.: (2 - 4598-99) Photo Nos.:	Intensive modules: 2.3, 8, 9 (EDIT IF MODIFIED)	Depth: (1-5): 4	X-axis Bearing of plot: [67]	4	¥: E ∃	Longitude: 81. +9400	Latitude: 41. 31740	x = b $y = 0$ (base of plot $x=0$, $y=0$)	GPS location in plot $x=0$ to 5, $y=1,0,+1$):	Datum: 11 NAD83/WGS84 □ NAD27		■ LavLong □ UTM □ StatePlane ■ deg □ deg min	Coordinate system: Coord, Units	Source of coordinates O MAP GPS	If data not public why?	 m o Fuzz 250m	Check one: Pablic data Private Data	Data Confidentiality:	Landowner: (M)	Local Place Names: Royalvistrance	Quadrangle:	State: OH County: Cuy	LOCATION
Merb: Mixture of Metive and Novapotive Natural Resources Mangement FORM NR/2010-018		C Keel tim. (ottonwood area	Carapy Black Maple of cox was	Very Char		Rationals: BPTS of	the exboun & the & slope	the expan. Plotis located being	The Oxlow Ot 10 Tell	Cost le d'anna d'anna de la cost	across Valley Plans west on the Aft	Royalize of Crit area. Valk ~ 700 m	Location. Paric arma umana	the orters of	Layout: 2x5 All others town	(1.1) to nig (N	dominants, strata, BROWSE). Additional notes in space on back.	NOTES: Include Layout (any unusual shape details), Location (directions and landscape content). Rationale (why here) and Year Characterization (description of community	Key: 0(0,0) point point point with direction permanent posts	1		9 2 - 0 -	phot: #10 #9 #8 #7 #6	3 4 3 4	- -	Chouce homes	

Project Label:	CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sneet Project Label: PCAP Project Name: 07 MS 10	Program - Background Data Sneet Project Name: 07 MS 1015	OTMS	Slow		Plot No.: /04/	-	Page 2 of 2
MODIFIED NATURESERVE CLASS*			DISTU	DISTURBANCES				
CODE (on separate form):	Fit=_Conf=_	3.5	type	severity**	yrs ago	% of piot	description	
101			Human					
2			Natural	H	0	100	Flowding	
COMMUNITY NAME;			Fire					
Mazic	Masic Elizabelala		Cut			5		
T NOTE T	and I may	. V.	Animal	トサイ	0	100	Browle	
			Other		ŭ N			
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	
	n Compositional trend across the plot		Current 1	Current Land Use:	Park			
nclusions	o Irregular/pattern mosaic		Former Land Use:	and Use:		- 4		
	HYDROLOGIC REGIME*	GIME*						
	Dpland (seldom flooded)	100	nitemittently flooded	oded				
SALINITY*	D Intermittently/seasonally saturated		a Semipermanently flooded	, flooded				
D Saltwater	(seldom flooded)	2	□ Permanently flooded	ded				
o Brackish	D Permanently/Semipermanent, saturated		Tidal/Seiche flooded daily	ded daily				
Fresh	(dry <1/vr. seldom flooded)		Seiche floo	☐ Tidal/Seiche flooded monthly				
Opland (n/a)	Cocasionally flooded (<1/yr)		Seiche floo	n Tidal/Seiche flooded irregular				
	□ Temporarily flooded	(c.g.)	(e.g. wind, storms)	us)				
(by default unless plot is a wetland)		a Unknown	own					
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)	ativeness of plot to the stand, succe	essional status, maturity, etc.						•
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and	Multifles Ro	5.g.	•					
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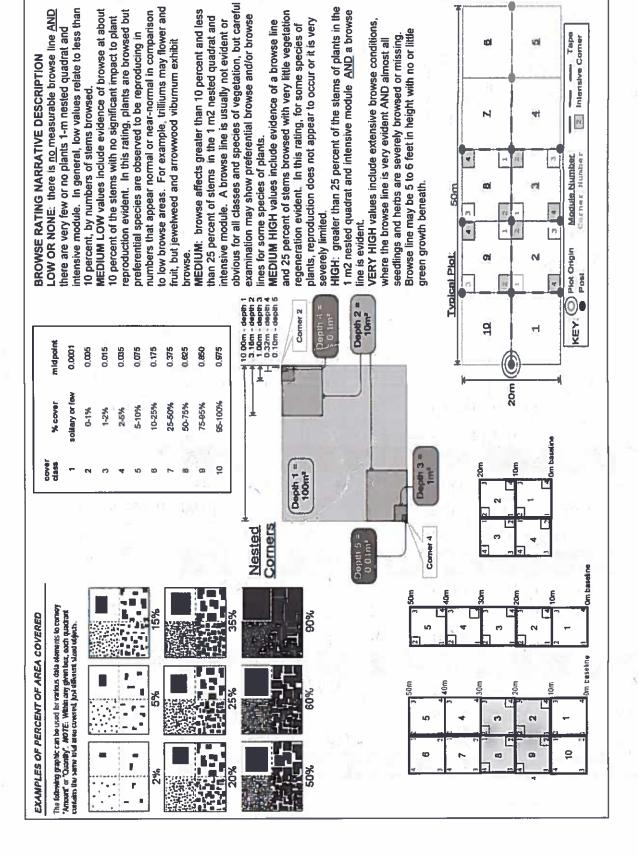
Plot no.: 1071 ation: 2 x 5 Plot area (ha): 0 . 1 Page of 2

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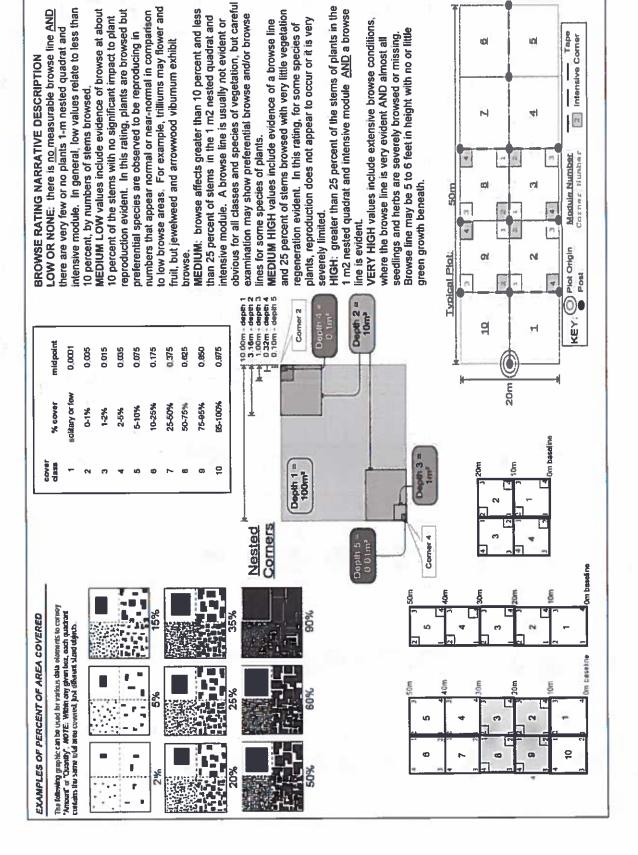


Cleveland Metroparks CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Strata - Cov. entire plot Total modules: Project Label: 7 S H (F)(A) Br د S دو 0 Os mar hij za Traxinus amuricana Chana president cope Alba Ribes Arisasma triphyllim Orgopteris Qurcus sp Hear cacharon Dorani un CACIACION PARPICI Solium tritalium Par alsoles MY SO. Carria cordiformis Jak di cot describe amount of browse per species over Lubinia Br = Browse Level. Use cover classes to 4. Simina ACLX SO. usimachic. 00 131G 1115 50 Dum VIOLUNG Species Synosbudi entire plot (seed line Mairica psendouracia triloba 0 (seedling) maculatum 2 longistylis Carthusian nummaleri read in るも E W (100 242 The La 22.50 Intensive modules: 4 %unveg. ground (bare soil) Estimate for each %unvegetated open water intensive module: IN YOUSE %unveg. litter (bare litter) ishy/ww Asteroceus) lox iffers Project name: 02ms 2015 Voucher # %open wa C Sec P cov i depth cov ; depth No. Plot configuration: ğ ş 7) 3 P 22 8 Plot no.: 1501 8 8 depth J corner mod WOD cov i depth Plot area (ha): 0.1 8 ğ Page 2 of 2 ş 8 ر W Ş ğ depth

SRE_CM PCAP Species Cover Data .xls last revised 6/10/2015 jjm

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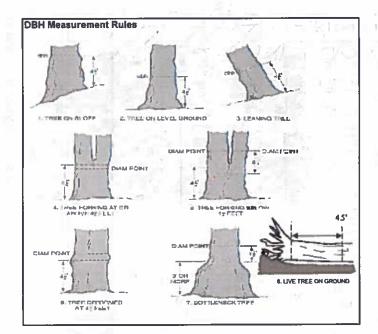
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	-71	Explain subsample (additional room on back):	back):						10	5 20					110		
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Woody Stem Deer Browse

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 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 teaves 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

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D

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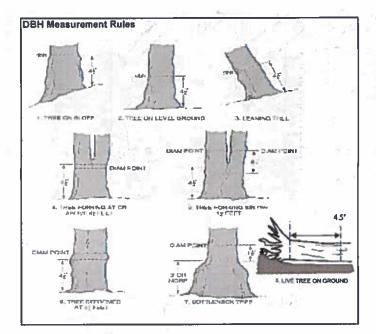
ASH CANOPY BREAKUP CONDITION (for dead trees):

(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.

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Standing parthenocissus guingue form Asimina briloba Rosa MIHPlora Rosa Multiflora Standing dead Rosa MultiPlora Ulaws audiosition Acel Harm Standing dead ついまない teer airnor Aces algania なっていれいたらった Traxing Kinden benzoin Fraxins tout mote for the inder benzon indusa berlow benzoin gensylvence Project Label: track PCAP 1:5 0-1.4m 2 2 or super % sub Project Name: 02AS 2a/5 shoub size class (cm) woody stems >1.4m 7 1-<2.5 : 2.5-<5 Plot No.: 1071 Page: 2 30 - <35 으 (Cieveland Metroparks 35 - <40 5 75.9 >40 (record each tree) 56.9 Ξ

traxinus gennylvaniu



Woody Stem Deer Browse

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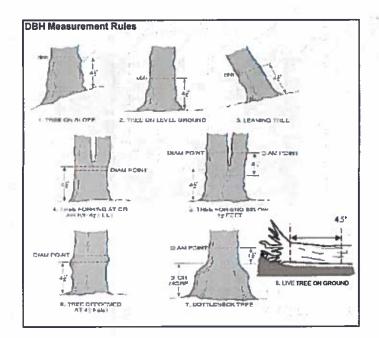
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CLE	CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Project Label: PCAP Project Name: 02 W C 2015 Plot No.:	Community PCAP	Assessn	Project	gram N	atural V	nt Program Natural Woody St Project Name: 0といく2から	tem Da	ta Sheet Plot No.: 107/	1071		Page:	CO	으	W Slevels	Seveland Metropaiks
-117	Explain subsample (additional room on back):	back):														
			# stems	% sub	#	ize class	(cm) wood	size class (cm) woody stems >1.4m	1.4m							
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Woody Stem Deer Browse

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10













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CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet D Trad 25 23 21 강 ᇂ 15 13 11 6 o Çħ 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) More present Project Label: PCAP Project Name: 02662015 (cm) HBQ DBH (8) Ash condition *Dead condition ASH Only
Exit Epicomic
n holes present INTENSIVE MODULES ONLY Plot No.: 107/ Woodpecker holes Date: 8/12/15 Baseline Map all ash trees ≥10cm in each module using Tree ID number *** Change intensive module numbers when necessary .**1**0 Page: 1 of 2 Ç0 ü

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early	detection/	Rapid response			Pre	sence		GP5	
				NE	SE	sw	NW		Presence
Alcrostegium vimineum		Japanese stiltgrass							X: yes
Ranunculus ficaria		Lesser Celandine			1		 		
Synanchum louiseae	(vine)	Black Swallow-wort			_		\vdash	1851	_
Butomus umbellatus		Flowering Rush			+	_			\dashv
leracleum mantegazzianui		Giant Hogweed			+		 		-
	2: Assess a				# of	Plants		comments	
Fiel	Z. M33E33 B	o iteeded		NE	SE	SW	NW	Commence	# of Plants
\		Norway Maple		IVE	36	344	21.4 4 4 2 2 2 2 2	92-1	1: 1-10
Acer platanoides	-	Tree of Heaven		-	+-	+-	 	 .	2: 11-50.
Ailanthus altissima	1: \	****			-		 		3: 51-100
onicera japonica		Japanese Honeysuckle			-	-	 		4: 101-1,000
ythrum salicaria		Purple Loosestrife			+			· · · · · · · · · · · · · · · · · · ·	
Negopodium podagraria		Bishop's Goutweed			+	-			5: >1,000
Celastrus orbiculatus	(vine)	Asian Bittersweet		-	+	-	 		_
orilis sp.		Hedgeparsley		-	-		\vdash	<u>.</u>	-
Conium maculatum		Poison Hemlock	1.6		-	1	-		-
Rhamnus cathartica		Common Buckthorn	(shrub)	ļ	-	-	 		
Berberis thunbergii		Japanese Barberry	(shrub)	<u> </u>	-	1	 		
Alnus glutinosa		European Alder			1_	1	\sqcup		_
Dipsacus laciniatus		Cut-leaf Teasel			\bot			·	_
laeagnus umbellata		Autumn Olive	(shrub)						
onicera maackii		Amur Honeysuckle	(shrub)						_
uonymus fortunei		Wintercreeper							
Tier 3:	Presence is	of Interest			# of	Plants		comments	
				NE	SE	SW	NW		# of Plants
Convallaria majalis	(G-cover)	Lily of the Valley			1			11	1: 1-10
Coronilla varia	(G-cover)	Crown Vetch			\top				2: 11-50.
Eleutherococcus pentaphy	llus	Five-leaf Aralia	(shrub)						3: 51-100
Pachysandra terminalis		Japanese Pachysandra			Ť			 .	4: 101-1,000
Philadelphus coronarius		Mock Orange	(shrub)		1			-	5: >1,000
Pulmonaria officinalis	(G-cover)		,,						
Rubus phoenicolasius	10 001017	Wineberry			1				┑
ris pseudacorus	(wetland)				\top	1			
Ornithogalum umbellatum		Star of Bethlehem				1	 	· .	_
Viburnum opulus var. opul		European Cranberry	(shruh)		+	+	 		
Viburnum plicatum	us	Doublefile Viburnum		-	+	+	 		\dashv
	fideenread	and abundant	(SIN GD)		Pre	sence	d" 9 8	comments	
	iacopicae			NE	SE	sw	NW		# of Plants
Alliaria petiolata		Garlic Mustard		1	1	1			1: 1-10
Ligustrum vulgare		Common Privet	(shrub)	1	+	1	 		2: 11-50.
L. morrowii, L. tatarica	1907	Bush Honeysuckles	(shrub)	 	1	\top			3: 51-100
Phalaris arundinacea		Reed Canarygrass	(3111 00)	t	+	+	 		4: 101-1,00
Phragmites australis	(wetland)	Phragmites Phragmites		\vdash	+	+	 	,	5: >1,000
Polygonum cuspidatum	(wettariu)	Japanese Knotweed		\vdash	+		+		<u> </u>
			(chuish)	-	+	+	 		
Frangula alnus		Glossy Buckthorn	(shrub)	+	+	+-	 -		
Rosa multiflora		Multiflora Rose	(shrub)	+	+	+	+		
Typha angustifolia, T. x.gla	uca	Cattails (wetland)		 	+	+-	+		\dashv
Cirsium arvense		Canada thistle		 	-	+	-		
Dipsacus fullonum		Common Teasel		₩	+-	-	+	<u>.</u>	-
Hesperis matronalis		Dame's Rocket		₩	+	-	+	·	\dashv
Vinca minor	(G-cover)	Periwinkle					1		

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

	1	9	8	. 7	თ	טז	4	ω	2		mod#				CLEV
										None present	species			Project Label:	CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Sheet
											voucher#				t Communit
		٠									shrub clumps	#		PCAP	ty Assessme
											<u>2</u> -	size class (cm) woody stems >1m		Projec	nt Program
											² 1-<2.5	m) woody	100	Project Name: 02 WC 2015	Forest
						1					3 2.5≺5	stems >1n		0200	Pest an
											5-<10			1927	d Patho
											5 6 10 - <15 15 - <20			ĺ	gens Da
											6 15 - <20			Plot No.	ata She
											7 20 - <25			1071	35
											8 26 - <30		2	9 190.	_
											9 30 - <35			Page	A
											10 35 - <40			_	Clevel
											7 8 9 10 11 20 - <25 25 - <30 30 - <35 35 - <40 >40 (record each tree)			of ·	Cleveland Metroparks
Ш										L		\dashv		_	

Shrub	Tree	Strata
		# of stem Infected
		m Severity d (H,M, or L)
		*
Deech (Fungus)	NO BOOK IT	* Write None Present if no evidence:

(size class 2 or below including shrub clumps)

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

Walnut (Thousand Canker)	Hemlock (HWA) Other Pest or Pathogen	NONE Beech (Fungus) None 2 research Asian Longhorned Beetle	* Write None Present if no evidence:
	r Pathogen	orned Beetle	

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

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

Project Label: PCAP Project Name: 02 W C 20/5

Plot No.:

Oleveland Metroparts Page: 1 of 1

STANDING BIOMASS (required for emergent wetlands) collected in 0. Im clip plots (32-32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C7=check when collected	uired for emerge from corners 1 an score calculation.	at wetland d 3 in each C7=check	(s) collected intensive when
Module #	C7	Corner Corner	Corner
		7	
71057			
701 77 120	1.033		

CLASSIFICATION		
(FIT = excellent g Fit and Confidence	l y	
Hedroestorskie class (WETLANDS ONLY):		
o DEPRESSION	Fi	Conf=
D IMPOUNDMENT ID Beaver ID Human	F	Conf-
o RIVERINE o Headwater o Mainstern o Channel	Fit*	Conf*
O SLOPE (ground water hydrology or on a physical slop)	- F	Conf*
n FRINGING o Reservoir o Natural Lake	F .	Conf=
to COASTAL (specify subclass)	Fit	Conf=
n BOG (strongly, moderately, weekly ambrotrophic)	Fit=	Conf
Ohje EFA VIBI Flant Community Class (WETLANDS ONLY):	CLINC	
o FOREST o awamp forest orbog forest or forest seep	- E	Conf.
DEMERGENT a marsh a wet meadow a open bog	F	Conf [±]
Charles of Street Stree	717	Call

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

lope 1 = slight elevational grade across module (hill) white for microhabitat features. Selections or select two 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 steepress that can be safely sampled ~45°

- feature is absent or functionally absent from the wettend
- 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

				5,8.0. • 000	H Inter-section in the h	C.W.O COOK for previous your measurement in the your		
	no. of	no. of	во, тасто.	c.w.d	emd	c.w.d	microhab.	microhab.
79	lussocks	hummocks	depressions	(2-12 cm)	(12-40cm)	>W cm	interspers.	
No.	di i	uplands (Tip-Ups)						
	depth 3	depth 2	depth 1	depth 1	depth 1	depth I	depth t	SLOPE
	IX III	3.16x3.16m	10x 10m	10x10m	IOx I Um	10x10m	10410m	10x10m
mod# corner	r (count)	(count)	(count)	(count)	(count)	(count)	(rank)	(rank)
2	0	D	-	0	1	0	Z	
S	0	Ó	1	17	7	G	4	/
9	Ö	0	1	7	তা)	3	1
9	0	0	0	14	3	2	3	1

TION		
it and Confidence	γ	
CHASI (WETLANDS ONLY):	0)	
	E.	Conf*
iT o Beaver o Human	1	Conf*
eadwater o Mainstern o Channel	Fit*	Conf*
rater hydrology or on a physical skept	- F	Conf*
eservoir o Natural Lake	Fire	Conf=

THLLED OUT USING OIS PROGRAM - DO NOT FILL OUT IN FIELD! McNAB INDICES (degrees) + for up - for down Landforn Index (position within landscape) +180 degrees +225 degrees +315 degroes +270 degrees +45 degrees +135 degrees +90 degrees At aspect

H z

LFI is angle of plot to the horizon. TSt is angles formed by

TSI**

N.

WS

angle from recorders eye to eye of person standing ~10 m

local slopes. For TSI measure

SE

8

anay.

9	on .	w	2	Medule	- Authorities
7	0	2	2	2	contracting the Canada has Bus adverted
0	0	٩	4	s	or Breakers
_	0	12	7	3	
C	C	G	7	¥	L

NOTE: baseck and hummocks are counted in BOTH nested quadrat corners but counts are aggregated.

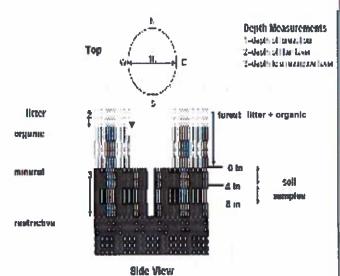
SeCM PCAP Plant Cover_Earth Surface Data sheet Page 1_ver 3.xis last revised \$/29/2012 ceh

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
"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.



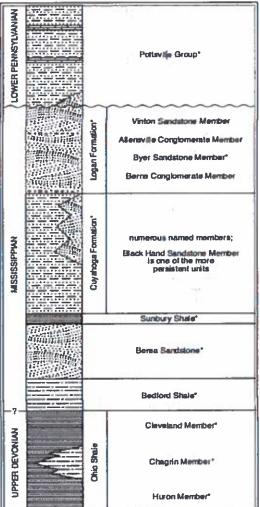


FIGURE 3-20.—Generalized section of Upper Devoman, Missempsian, and Lower Pennsylvanian formations in northeastern Ohio Asterisks instincts units that are fesselferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Wavety" to used in the older literature to refer to Missimppian rocks in Ohio. Some geologists use the European term "Carbonistrous," which encompasses the Missimppian 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 meserve sanctons that is furly widespread but discontinuous. See Hyde (1953), Hoover (1960, and Calma (1979) 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 Biomass Data Sheet 6a
Project label: PCAP Project Name: 02 W < 2015
Protot label: PCAP Project Name: 02 W < 2015 Project label: PCAP

1071

(E) Other cland Methoparks

Page: 1 of 1

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

Soll pit module # ____ (one per entire plot)

20 cm S CM matrix color matrix color oxud roots lexture. edox features** ydr. cond *** edox features** ziwe. mottle xid roots ottle color mottle ottle color ~ S N

rydro, cond *** I S M D

refer to texture classes on reverse tide

e.g. hydrogen sulfide odor, gleying, etc. dundated S-saturated M-moist D-day

xies: include evidence of earthworms (worms, stinge, middens)

Mod 3- Worms gresent a Mod 8- Worms gresent a 8 Mod 9- Worms gresent a Mad 2 - lots of words

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

c Impermeable surface D Somewhat poorly dr. ti Well drained D Excessively dr. Depth to rest. Layer. Soil Series Source: Ohio Soil Survey Soil Collection Modul, Horizon (A. B. C) Soil Series/Type: 2,3,8,9 composited arent Material. andform type: AINAGE! & Sail Survey Inform ti Moderately well dr o Somewhat excessively Very poorly dr

9	문	×
record as >30	Ω	¥
ä	=	М
v	ğ	7
8	ğ	픠
	70	죮
	=	S
	큺	둒
	0.1 cm in center of intensive modules. If >30.5 cm,	Ã
	8	剪
	쿵	3
	를	Σ
	es.	38
	⇉	듄
	ä	ğ
	2.0	2
	2	5
		SOIL DEPTH MEASUREMENT: Measure to the nearest
		95

	كنوس	Ar .		
P	8	3	2	mod#
. 1 8	68	1.5	21	l litter+ organic depth (cm)
1.8	8.0	1.5	2.1	2 litter depth (cm)
0	0	0	0	water depth (cm)
0	0	0	0	depth sat soil (cm)

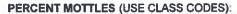
EARTH SURFACE & GROUND COVER	CE & GROU	ND COVER	
PK001 - Hangs	percent	(Each ≤ 100%)	percen
Histosol	0	Coarse Woody Debris***	14
Mineral Soil	100	Fine Woody Debris****	S
Gravel-Cobble*	C	Litter	8
Boulder	0	Duff (Ferm.+ Humus)	0
Bedrock	Ø	Bryophyte- Lichen	4
Gravel-Cobble = 1/16-10	1/16-10"	Water	0
••Boulder •> 10 m	5	Bare Soil	7
•••>5 cm m diameter	neter	Road/Irail	0
•••• <5 cm in diameter	meter	Other	

(Aquatic)*	(Floating)*	Herb	Shrub	Tree	Strata	OVER BY
(Aquatic)*		52	2.5	25	Height Range (m)	COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13
ed	×	53	28	88	Total Cover (%	ex:3, 8, 13

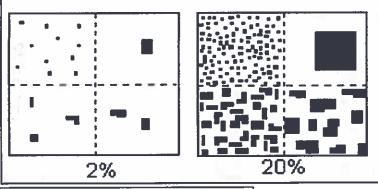
Decr Decr	g Gravel	Bootleg unsanctioned	Hiking sanctioned	o Bridle	All Purpose	Type %Cover	scord type and cover for each	None.	The second secon
-----------	----------	----------------------	-------------------	----------	-------------	-------------	-------------------------------	-------	--

\$ ±			y y	V.I.S
<pre></pre>	-10 x plot size	10-100 x plot size	>600 x plot size	TAND SIZE

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



Class	Code		Criteria: % of	
3=	Conv.	NASIS	Surface Area Covered	
Few	0.000	#	< 2	
Common	c	#	2 to < 20	
Many	m	#	≥ 20	



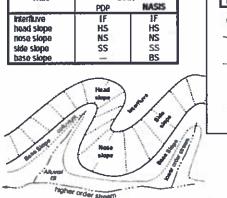
SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but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

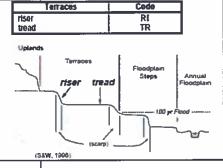
- 0= Organic
- 1= Loamy
- 2= Clayey
- 3= Sandy
- 4= Coarse Sand
- 9= Not measured make plot note

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.

Hills





Hitistope - Profile Position (Hitistope 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.

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.

(PJS, 1990; adapted from Rune, 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 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.