CLEVELAND MET	ROPARKS Plant Community Assess	sment Program: Quality Co	ntrol Form ©Clew	land Metroparks
Project Label:	PCAP PCAP	Plot No: 1303	Date Sampled: <u>6/24, 6/25</u>	Lead: J. Miller

				Comment required if item answer is NO
Parking/Access outs	ide of Park Boundaries:	Y	N	If yes, write details in Comments section below
Field journals comp	leted	(2)	N	
Site sketch made on	1:3000 map?	<u>(v)</u>	N	
Check cover page	X-axis Bearing of plot recorded	Y	N	
	GPS coords. Recorded	Y	N	
	North direction recorded	Y	N	
	Photographs taken?	(V)	N	
Plot No., Date agree	ment on all pages?	(Ŷ)	N	
Header data complet	ed all pages?	N S	N	
Cover classes record	ed in all Intensive modules	(Ý)	N	
Browse Level By Sp	ecies	Y	N	
Woody stem quality	control check	(Y)	N	
Invasive plant quality	control check	(Y)	N	
Ash trees mapped		(V)	N	
Cover by Strata? (cor	nfirm cover type)	Y	N	
Soil samples collecte	d with matching plot #.	Y	N	
	datasheet with initials and number	8	N	
Vouchers labeled on		Y	N	
Pink flags removed		Y	(N)	can theep (not a publically-accessed ones)
Data sheet QA before	leaving site?		N	a contract of the contract of
Common equipment	returned to tub.	(V)	N	1
Data sheets scanned?		612	RIB	Enter date to left
Final data sheets scan	ned?		<u> </u>	Enter date to left
Buffer Widths measu	red?	(y)	N	AL 6-20-13
Web Soil Survey		(7)	N	RC 6-28-13
Voucher Location	Refrigerator	Y	N	
# youchers collected)	Press (#)	1	-	Enter number to left
JAM 036-	Drier	Y	N	THE TOTAL TOTAL
252	Identified	Y	N	
	Mounted	Y	N	
_	Thrown away	Y	N	

₩ Yes	Original GRTS point is sampleable	
□ No	Original GRTS point lands in a non-sampleable area (fill in category below)	
	□ Point falls in a water (i.e. river, lake)	
	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 @ Cunalway Center or use APT off Canalway Center to apt =300 m from plot (a parted pullfoss to a gare.

* Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc. le Valno Schrautnagu

SAMPLING QUALITY* Effort Level: Perm. water □ Paved □ Slope □ Safety

PLOT NOT SAMPLED:

o Other

atitude: 41,

ongitude: 081.

66673

GPS location in plot x=0 to 5, y=-1,0,+1): Datum: ■ NAD83/WGS84 □ NAD27

(base of plot x=0, y=0)

Very thorough Hurried Accurate how much effort put into subjective evaluation of sampling. Hurried plots may still provide good

> GPS File Name: 1308 A Coord. Accuracy: of m a ft

Plot size for cover data: \mathcal{O}_{\bullet}

X-axis Bearing of plot:

° [308]

hectares)

TAXONOMIC ACCURACY vascul. B modera. wo not smp

n/a

Intensive modules: 2. 3, 8, 9

EDIT IF MODIFIED

Depth: (1-5): 4

TAXONOMIC STANDARD ichen G&C Pub Date:

> Plot placement: VGRTS Photo Nos.: 1322 Camera No.: C3

Representative

Random

Stratified Random

Transect component

Systematic (grid)

Capture specific feature

Other

Minimum required fields in Bold and Underlined 1998

	bot. 1751st Coordinate system:	lot leader Source of coordinates	ole** If data not public why?	E/7/12 Reason:	Rol Fuzz 100m	S sampled) Check one: Public data	ners sampled) Data Confidentiality:	Landowner:	M Canolinay Center	Local Place Names:	Quadrangle: (JONCION A	State: OH	TION LOCATION
■ LavLong □ UTM □ StatePlane ■ deg □ deg min	coord. Units	inates OMAP GPS	c why?		□ Fuzz 100m □ Fuzz 250m □ Fuzz 500m	Public data 🛘 Private Data	iality:	CMP	Center	les:	pulliand Southing	County: Cuyahous	
Layo	dominan	content),	Diagram Key:				est.	plot:	2 10 module	5			
Layout: 2x5	dominants, strata, BROWSE). Additional notes in space on back.	content), Rationale (why here), and Veg Characterization (description of community	Key: (0.0) point point point		3	5	W 1	#10	-6	•••			
	E). Addition	ere), and Ve	S GPS loc) 1	ا	5	2	#9	3				
	nal notes in st	g Characteri	shape details			1) - 	#8	3				
	pace on ba	ization (d	with di		,	_[.J		4				
	ack.	escription	with direction	ol-en		4		#7					
1	*	of community.	rection permanent pos	location of		<u>.</u>	1	*				(Z

Plot Name: Carpe

Diew

roject Name: 8/ OF 2013

roject Label:

PCAP

Plot No.: | 30%

Level 4 (no nested corn Level 5 (nested corners

ate (mm/dd/yyyy):

nd date (if > 1 day):

GENERAL INFORMAT

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

(Clumium Muinum Page 1 of 2

Apt (w/ permission) to get there. Between a pand and the s. end of a shroom of as well as cuyahoung to the south west. APT just N. E. of plot. gute w/o a read on the other side, south, of polot used Location: Parked @ a grand pull-off wear a No Truspassing 1 2×5

to the flood plain community. Herbaucous Layur strata is dominant in concept, a lot of light coming through although to 0-4 m b/c of giant wingstern, poison humbers, etc. Japanese hops and cucumber throughout. Vea Characterization: Sycamore Cofforwood (sport) bewave of nettles.

*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide

OVER

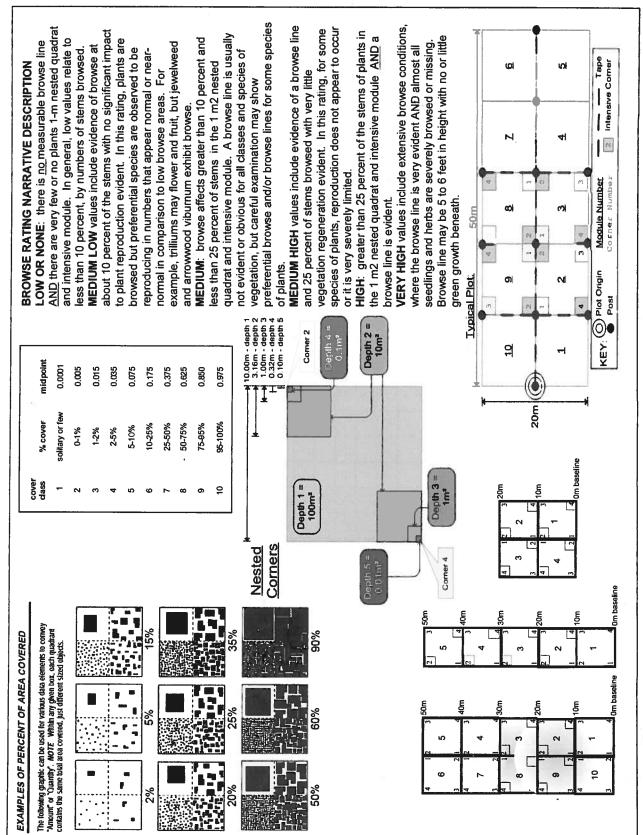
about moon 3-love gen 828 2000 3

permanent posts

	CLEVELAND METROPARKS Plant Community	mmunity Assessment Program - Background Data Sheet	am - Backgrour	nd Data	Sheet				•	Г
	Project Label:		Project Name: N 1 DE 2013	1 DE	2013		Plot No.:	1308	Page 2 of 2	of 2
	RVE			DISTU	DISTURBANCES					Τ
	CODE (on separate form):	Fit Conf		type*	severity**	yrs ago	% of plot	description		
		7 56-+ 5		Human	1	1-3	00	same rubbish overgraun	3	Plants
				Natural					b	
	COMMUNITY NAME:	Flood plain	Yi	Fire						Τ
	the Mariadas Tovest (upland)	Forest (upland)		Cut						1
	(Utan was First	Cottanwood	>	Animal	٦	0	100	Sparse deen browge	Spouge	П
7	HOMOGENEITY	(c) A find	-	Other **! = ouv	M =mad lon	M	7.00	10.0		Т
	Homogeneous			L 10W	WIT-IIICU IOW	M-med.	MH=med	L-10%, Mtilicu 10%, M-ilicu, MrH=med high, H=high, VH=very high	=very high	7
		Compositional trend across the plot		Current 1	Current Land Use: CMP	MP				
	Conspicuous inclusions Irregular/pattern mosaic	n mosaic		Former L	Former Land Use: VN Known	n Knowr	_			
	_	HYDROLOGIC REGIME*	>							7
		Upland (seldom flooded)	D Interm	Intermittently flooded	oded					
>	SALINITY*	Intermittently/seasonally saturated		Semipermanently flooded	flooded					
	n Saltwater	(seldom flooded)		Permanently flooded	ded				(10)	
	D Brackish	□ Permanently/Semipermanent, saturated		□ Tidal/Seiche flooded daily	ded daily					
	a Fresh	(dry <1/yr, seldom flooded)		eiche floo	Tidal/Seiche flooded monthly					
	✓ Upland (n/a)	□ Occasionally flooded (<1/yr)	D Tidal/S	eiche floo	D Tidal/Seiche flooded irregular					
		☐ Temporarily flooded	(c.g. w	(e.g. wind, storms)	(S)					
	(by default unless plot is a wetland)		a Unknown	٧n						
1	Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)	ess of plot to the stand, successional st	atus, maturity, etc.)							Г
>	The GRTS point fell in	n a relatively open	nart of	3	wrother	pao	ionopy.	公本	n frasing	
	were plotted to sample this spared-canopied anea. Along borders of polot were silver maple,	this sparred-canop	ited area.	Alm	prod of	2 55 of	tolor =	were silv	ar majole,	
	box elder, sycamore. The plot ?	papel may			>		-			-
- IO - 97										

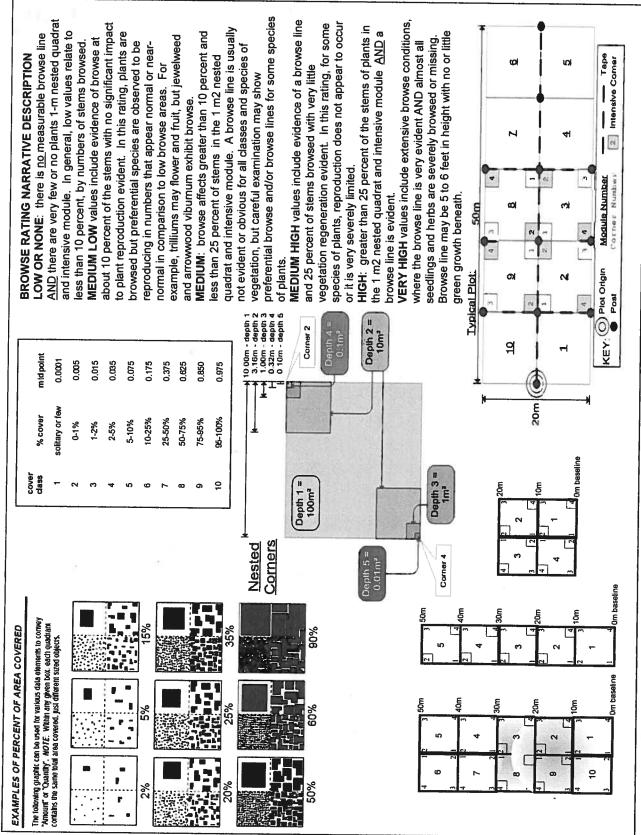
	Project Label:	Project Label: PCAP Project name: 01 0 2013 PCAP Project name: 01 0 2013	nent Program Species Cover D Project name: 0\ 0\ E 2013	0) 0E	/er Data	Shee		Plot no.: 1308	130	00				Page	ge _		2	T	
	Total modules:	10	Intensive modules:	T	Plot	Plot configura	uration:	n: 2×5	5			ס	lot ar	Plot area (ha):		0.1			
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	Mateparks		%unvegetated open water	-	0			D		- -	0				9	Н			
	* - adjusted	7	%unveg. ground (bare soil)		- 0			-		1	Q	+		-	0				
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2aCM PCAP Species Cover Data sheet Page 1 of x_ver 3.xls last revised 5/29/2012 ceh



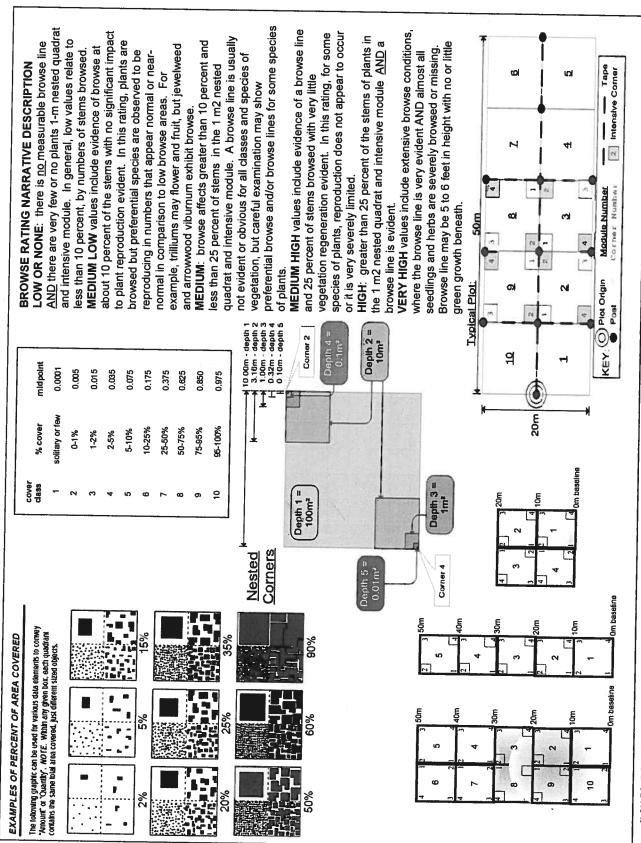
2bCM PCAP Species Cover Data Sheet Back Page_ver 1.3.ppt

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Natural Resources Management FORM NR/2010-02b

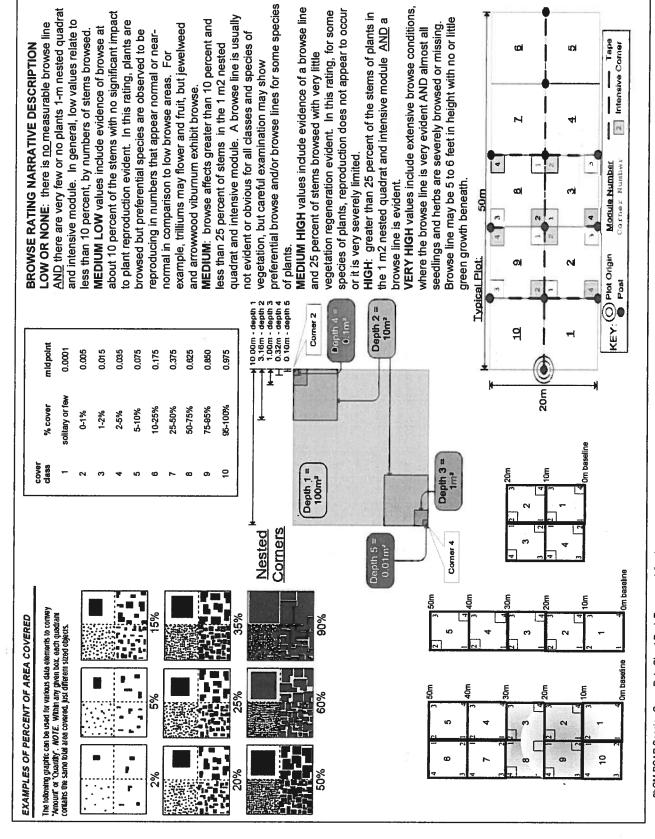
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cov depth cov depth cov depth cov depth	depth	c Voucher#	3r Species	S H (F)(A) Br
		%unveg. litter (bare litter)		Strata - Cov. entire plot
		%unvegetated open water	entire plot	Metroparks
	10	%open water	Br = Browse Level. Use cover classes to describe amount of browse per species over	Cleveland
- 0	mod comer mod comer mod 2 4 2 2 3 depth cov depth cov depth	Estimate for each intensive module:		③
tion: 2×5 Plot area (ha): 0.1	Plot configuration:	Intensive modules	(0)	Total modules:
Plot no.: 1308	01 0E	Project name:	PCAP	Project Label:
Plot no.: 13.0\$ ion: 2x5 Plot area (ha): 0.	NOE Z∪(3	Project name	PCAP (d)	t Label:



Natural Resources Management FORM NR/2010-02b

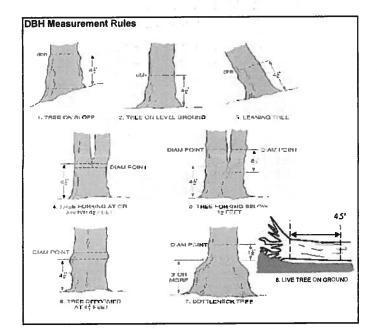
CLEVELAND MET Project Label:	ROPARKS Plant Community Assessi	ment P	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a Project Label: PCAP Project name: 0\(0\) 7\(2\) 9\(3\) Plot no.: 1\(5\) 9\(8\)	808	Page 4 o	9
Total modules:	10	Inter	Intensive modules: 4 Plot configuration: 2×5		Plot area (ha): O.I]
③	Br = Browse Level. Use cover classes to	Estir	mod comer mod corner m	er mod comer mod	mod comer mod comer mod comer 8 4 8 7 8 4 9 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	mer mod comer R R R
Metroparks	describe amount of browse per species over entire plot	%unv	ТТ			
Strata - Cov. entire plot		%un	%unveg. litter (bare litter) 1			
T S H (F)(A) Br	Species	ဂ	Voucher# depth cov depth cov depth cov depth cov	depth cov depth	cov depth cov depth cov	ov depth cov
2	Platanus Occidentalis					70
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2aCM PCAP Species Cover Data sheet Page 1 of x_ver 3.xls last revised 5/29/2012 ceh



2bCM PCAP Species Cover Data Sheet Back Page_ver 1.3.ppt

En Charba Cymmians CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 10 Was acstration O Populus delto ide Fraxinus permylianida Ropulus de Hoides Ropy lus de Hoides Fraxing sp the gestivating Explain subsample (additional room on back) Project Label: __ PCAP voucher# # stems 0-1.4m browsed or super % sub sample Project Name: 91 OE 2015 clumps shrub size class (cm) woody stems >1.4m <u>V</u> 1-<2.5 2.5-<5 Plot No.: 3508 5-410 10 - <15 15 - <20 20 - <25 Page: 25 - <30 30 - <35 으 Cleveland Metroparks 35 - <40 5 101,5 75.2 78.4, 115.0 >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

- 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

Ε

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)

													T						41						Module	
25	24	23	22	21	20	19	6	17	6	15	14	13	12	=	ő	9	00	7	თ	თ	4	ω	2	-	Tree	
																	4								Species	
						L						L						6							Dead	
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_				T	2)								T							Γ					*Dead condition	
_	3	Γ			-	Γ							- 81												# Exit Epic	
																									Epicormic present	Only
															1										Woodpecker holes	
											Ва	selir	10													
				Map all ash trees ≥10cm in each module using Tree ID numb					2						9			*** Change intensive module numbers when necessary				Z				
				nodule using Tree ID num				[·	•		:			E	89			imbers when necessary								

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

Tier 1: Early detection/	Rapid response		2 11	Pres	ence	11 7 1	GPS	
		1971/201	NE	SE	sw-	NW		Presenc
Microstegium vimineum	Japanese stiltgrass							X: yes
Ranunculus ficaria	Lesser Celandine							
Cynanchum louiseae (vine)	Black Swallow-wort							
Butomus umbellatus (wetland)	Flowering Rush							1
Heracleum mantegazzianum	Giant Hogweed							
Tier 2: Assess as			- Enus	# of I	Plants		comments	
		Usual III	NE	SE	sw	NW		# of Plan
Acer platanoides	Norway Maple							1: 1-1
Ailanthus altissima	Tree of Heaven	,			-			2: 11-5
The second secon	Japanese Honeysuckle							3: 51-1
	Purple Loosestrife							4: 101-1
<u> </u>	Bishop's Goutweed		. 2			2		5: >1,0
	Asian Bittersweet						Ÿ	[31,0
Torilis sp.	Hedgeparsley					\vdash	X	
Conium maculatum	Poison Hemlock		2	13	3	3		
Rhamnus cathartica	Common Buckthorn	(shrub)	-	72				
Berberis thunbergii	Japanese Barberry	(shrub)		\vdash		\vdash		
	European Alder	(Stit UD)						
Alnus glutinosa	Cut-leaf Teasel				 			
Dipsacus laciniatus	***	(alamah)						
Elaeagnus umbellata	Autumn Olive	(shrub)	7	2	3	3		
Lonicera maackii	Amur Honeysuckle	(shrub)	2	<u> </u>	2	9		
Euonymus fortunei	Wintercreeper			M -61	N			
Tier 3: Presence is	of interest		115	_	Plants		comments	H - 6 DI
			NE	SE	SW	NW		# of Plan
	Lily of the Valley		3	- 0				1: 1-10
Coronilla varia (G-cover)	Crown Vetch		9 L	2	2.			2: 11-5
Eleutherococcus pentaphyllus	Five-leaf Aralia	(shrub)						3: 51-1
	Japanese Pachysandra							4: 101-1
	Mock Orange	(shrub)						5: >1,0
	Lungwort							
Rubus phoenicolasius	Wineberry							
	Yellow Flag Iris						±	à
Ornithogalum umbellatum	Star of Bethlehem					\sqcup		
Viburnum opulus var. opulus	European Cranberry	(shrub)		~				
Viburnum plicatum	Doublefile Viburnum	(shrub)						
Tier 4: Widespread a	and abundant	1		-	ence		comments	
			NE	-	SW	NW		# of Plan
Alliaria petiolata	Garlic Mustard		5	5	5	45		1: 1-10
Ligustrum vulgare	Common Privet	(shrub)						2: 11-5
L. morrowii, L. tatarica	Bush Honeysuckles	(shrub)				1		3: 51-1
Phalaris arundinacea	Reed Canarygrass		2	5	5	5	present in all 4 man	101-1
Phragmites australis (wetland)	Phragmites			3				5: >1,0
Polygonum cuspidatum	Japanese Knotweed		3	3	3	5		
Frangula alnus	Glossy Buckthorn	(shrub)			<u> </u>			
Rosa multiflora		(shrub)	1					
Typha angustifolia, T. x.glauca	Cattails (wetland)							
Cirsium arvense	Canada thistle		1	3:	2			0)
Dipsacus fullonum	Common Teasel		•	-				
Hesperis matronalis	Dame's Rocket		1	1				
		1	1		1	F		

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

Project Label: PCAP Project Name: (2) 06 2013

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

Module # C? Corner Corner Hydrogeomorphic class (WETLANDS) on DEPRESSION on DEPRESSI

Plot No.: | 308

Page: 1 of 1

CLASSIFICATION		
(FTI excellent g Fit and Confidence		
Hydrogeomorphic class (WETLANDS ONLY):		
DEPRESSION	Fi	Conf
□ IMPOUNDMENT □ Beaver □ Human	7	Conf-
□ RIVERINE □ Headwater □ Mainstem □ Channet	E 	Conf=
E SLOPE (ground water hydrology or on a physical slope	F 	Conf=
n FRINGING to Reservoir in Natural Lake	3	Conf
COASTAL (specify subclass)	æ l	Conf-
BOG (strongly, moderately, weekly ombrotrophic)	Fil	Conf
Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):	NT.Y.	
□ FOREST □ swamp forest □ bog forest □ forest seep	F	Conf
Continue of the state of the st	1	Cont
O SHKUB O shrub swamp O lail sh. bog o tall sh. ten	Fit=	Conf=

		9	a	W	7	mod#							/ Teature is pre:	3 feature is pres	0 feature is abso	Ranks for microh	III e e e e e e e e e e e e e e e e e e
						corner						,	sent in moderate	sent in the wetta	ent or functional	abitat features. elevational grad	
	~	Ó	Ø	0	0	(count)	ixim	depth 3		tussocks	no of		e or greater amour	nd in very small an	feature is absent or functionally absent from the wetland	Renks for microhabitet features. Select one or select Slope 1 = slight efevational grade across module (hill)	
		0	Ó,	0	Q	(count)	3.16x3.16m	depth 2	uplands (Tip-Ups)	hummocks	no of		/ reature is present in moderate amounts, but not of highest quarty, or in small amounts of righest quarty 10 feature is present in moderate or greater amounts and of highest quarty	feature is present in the wetland in very small amounts or if more common, of low quality	wetland	Renks for microhabitat features. Select one 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 Stope 1 = stight elevational grade across module (hill) Stope 2 = falls on slope -20° Stope 3 = maximum steepness that can be safely sampled -45°	
		Ø	Ø	8	-	(count)	10x10m	depth I		depressions	no. macro.		small amounts of rig	non, of low quality		score.NOTE: If mod falls on a Slope 2 = falls on slope ~20°	
	1	S	4	Chi.	T M	(count)	10x10m	depth 1		(2-12 cm)	c w d	c.w.d cou	hest quality			falls on a slope autom tope ~20°	
		0	0	es es	0	(count)	10x10m	depth 1		(12-40cm)	c.w.d	c.w.d count for pieces with minimum 1m length				atically gets ranked bu Slope 3 = maximu	
	-	0	Ó	0	0	(count)	10x10m	depth 1		>40 cm	c.w.d	inimum 1m length				ssed on steepness (1 m steepness that ca	
		1 7	-3	0	<u>_</u>	(rank)	10x10m	depth 1		interspers	microhab.					cally gets ranked based on steepness (1-3) to begin + any feature Stope 3 = maximum steepness that can be safely sampled -45°	
		ST	B	0	Ø	(rank)	I0x10m	SLOPE			nncrohab					eatures present	(

* Landform Index (position within landscape)	+315 degrees	+270 degrees	+225 degrees	+180 degrees	+135 degrees	+9/) degrees	+45 degrees	At aspect		[FILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD]	McNAB INDICES (degrees) + for up - for down
bon within landsc	WW	¥	sw	s	SE	m	NE	z		GIS PROGRAM .	(degrees) + f
ape)									LFI	DO NOT FILL (or up - for de
		away.	e) e of person	recorders eye to	TSI measure	angles formed by local slopes. For	horizon. TSI is	LFI is angle of	TSI**	OUT IN FIELD]	OWO

										2
	2		% C	W	9	æ	w	2	Module	CROWN COVER (DENSIOMETER) Make 4 readings per module facing N. S. E. W. Place dot count in corresponding space. (4 dots per grid square)
	E.	600	SUT.	15 to	66	6	なれ	39	z	eR (DENSION tule facing N. S ce. (4 dots pe
	40	42	70 00	57	14	33	55	69	s	DENSIOMETER). Ma facing N. S. E. W. Place (4 dots per grid square)
7	oc	00	五元	36	86	7	33 (36	e-	ke 4 e dot count in
	35	5	200	九十	9	3	17	6	¥	

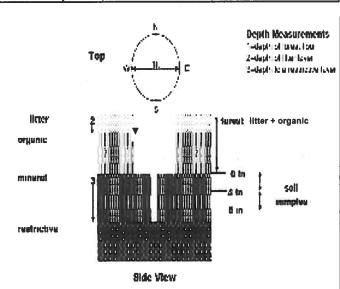
COVER BY STRATA

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.



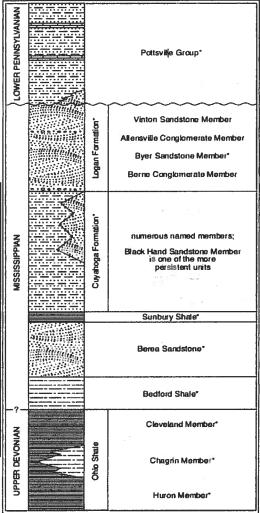


FIGURE 3-20.—Generalized section of Upper Devonian, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to escale, but the thicknesses indicated 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 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 massive sandstone that is fairly widespread but discontinuous. See Hyde (1953), Hoover (1960), and Collins (1979) for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of rock types.

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 (2) (one per entire plot) 20 cm 5 cm matrix color 2.54 matrix color 2.54 3/ hydro. cond.*** texture* redox features** exture* ydr. cond.*** oxid roots oxid roots mottle tottle color 1000 mottle ottle color none dox features** 0 I S M I S M D z Z z

refer to texture classes on reverse side

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

*** Circle one

|-indundated S-saturated M=moist D=dry

Notes: include evidence of earthworms (worms,

surface of Soil

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 ModuldHorizon (A. B. C) 2,3,8,9 composited A 2,3,8,9 composited A 2,3,8,9 composited A 2,3,8,9 composited A Soil Series Type: Ub - Urboon Land Soil Series Source: Ohio Soil Survey Landform type: N/A Depth to rest. Layer: N/A Parent Material: N/A Parent Material: N/A Parent Material: N/A DRAINAGE* © Excessively dr. © Somewhat excessively Well drained © Moderately well dr. N/ © Somewhat poorly dr. Very poorly dr. N/ © Somewhat poorly dr. © Very poorly dr. N/	888	□ Impermeable surface
Soil Collection ModuldHorizon (A. B. C) 2,3,8,9 composited A 2,3,8,9 composited A 2,3,8,9 composited A Soil Series Type:	N	<u>Z</u>
Soil Collection ModuldHorizon (A. B. C) 2,3,8,9 composited Web Soil Survey Information: Soil Series/Type: (1150 Urboon Land Soil Series Source: Ohio Soil Survey Landform type: N/A Depth to rest, Layer: N/A Parent Material: N/A Parent Material: N/A		
Soil Collection ModuldHorizon (A. B. C) 2,3,8,9 composited A 2,3,8,9 composited A Soil Series/Type: (115 - Urbon Land Soil Series/Type: (115 - Urbon Land Soil Series/Source: Ohio Soil Survey Landform type: N/A Depth to rest Layer: N/A Parent Material: N/A		DRAINAGE*
Soil Collection ModuldHorizon (A. B. C) 2,3,8,9 composited A Web Soil Survey Information: Soil Series/Type: U.D.— Urboon, Land Soil Series Source: Ohio Soil Survey Landform type: N/A Depth to rest, Layer, N/A	H	
Soil Collection ModuldHorizon (A. B. C) 2,3,8,9 composited A 2,3,8,9 composited A Soil Series/Type: (115 - Urbon, Land) Soil Series/Source: Ohio Soil Survey Landform type: N/A	<u> </u>]
Soil Collection ModuldHorizon (A. B. C) 2,3,8,9 composited Web Soil Survey Information: Soil Series/Type: (1) b - Urbon Land Soil Series Source: Ohio Soil Survey		
Soil Collection ModuldHorizon (A. B. C) 2,3,8,9 composited A Web Soil Survey Information: Soil Series/Type: (115 - Urboon, Land		Soil Series Source: Ohio Soil Survey
Soil Collection Modul(Horizon (A. B. C) 2,3,8,9 composited A Web Soil Survey Information:	0	Soil Series/Type: Ub - Urban Lan
Soil Collection ModuldHorizon (A. B. C) 2.3.8.9 composited A		100
Soil Collection Modul (Horizon (A. B. C)		2,3,8,9 composited A
	1	Soil Collection ModuldHarizon (A. B. C)

QC/6/24/2013

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

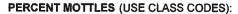
9	8	3	2	mod#
0,0	0,0	0.0	0.0	l litter+ organic depth (cm)
0,0	0,5	0.0	0.0	2 litter depth (cm)
P	φ	Ø	Ø	water depth (cm)
730	\30	730	730	depth sat soil (cm)

EARTH SURFACE & GROUND COVER	CE & GROUP	ID COVER	
Onderlying Earth Surface	Juriace"	Ground Cover	
(Sum = 100%)	percent	(Each ≤ 100%)	percent
Histosol	0%	Coarse Woody Debris***	5%
Mineral Soil	100%	Fine Woody Debris****	3%
Gravel-Cobble*	0 %	Litter	3%
Boulder**	o2	Duff (Ferm.+ Humus)	0%
Bedrock	0 %	Bryophyte- Lichen	6 %
* Gravel-Cobble = 1/16-10*	1/16-10"	Water	o's
**Boulder => 10 in	5	Bare Soil	٥٪،
*** >5 cm in diameter	eter	Road/Trail	0%
**** <5 cm in diameter	meter	Other	

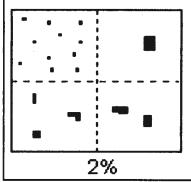
COVER BY STRATA estimate using midpoi	COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13	%,ex:3, 8, 13
Strata	Height Range (m)	Total Cover (%)
Tree	>5 -	53%
Shrub	4 - 5m	7,0
Herb	0 - 4m	%8 b
(Floating)*	•	40
(Aquatic)*	•	%0
* rooted and for	* rooted and floating or slightly emersed	sed
** submersed.	** submersed, most plant mass below surface	w surface
SEE BACK OF DESCRIPTION	SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS, STRATA CAN VARY BY CO	SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS, STRATA CAN VARY BY COVER TYPE.

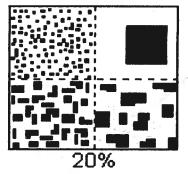
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	SIZE	t size	lot size	ıt size	t size	ZE



Class	C	ode	Criteria: % of
	Conv.	NASIS	Surface Area Covered
Few	ſ	# '	< 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 microleatures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains;

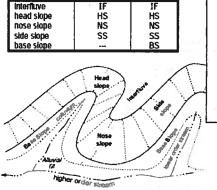
Code

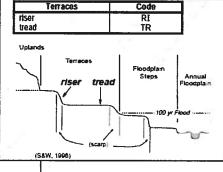
PDP

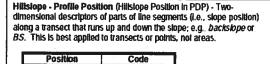
NASIS

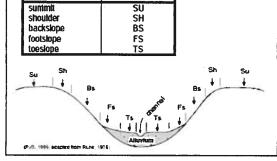
e.g., (for Hills) nose stope or NS.

HHis









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 .

•	FORM B-1: BUFFER SAMPLE PLOTS (Front) Reviewed by (I Site ID: PCAP OF 1308 DATE: 06/24/20/12((initial)	:	_	•									
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