CLEVELAND MET	ROPARKS Plant Community Assess		• • • • • • • • • • • • • • • • • • •
Project Label:	PCAP PCAP	_ Plot No:	1347 Date Sampled: 7-16-13 Lead: Lance
			Comment required if item answer is NO
Parking/Access outside	de of Park Boundaries:	Y (N)	If yes, write details in Comments section below
Field journals comple	eted	(Y) W	
Site sketch made on 1	:3000 map?	Y) N	
Check cover page	X-axis Bearing of plot recorded	Y N	
1	GPS coords. Recorded	N N	
	North direction recorded	YN	
	Photographs taken?	Y N	
Plot No., Date agreen	nent on all pages?	N	
Header data complete	d all pages?	YN	
Cover classes recorde	d in all Intensive modules	Y) N	
Browse Level By Spe	cies	YN	
Woody stem quality o	control check	YN	
Invasive plant quality	control check	Y N	
Ash trees mapped		Y N	NONE
Cover by Strata? (con	firm cover type)	Y) N	
Soil samples collected	with matching plot #.	YN	
Vouchers labeled on o	datasheet with initials and number	W (W)	NO VOUCHERS
Vouchers labeled on o	collection bag	Y N	
Pink flags removed		YN	
Data sheet QA before	leaving site?	Y N	
Common equipment r	eturned to tub.	YN	
Data sheets scanned?		7/19/13	Enter date to left Cmc
Final data sheets scan	ned?	, ,	Enter date to left
Buffer Widths measur	red?	Y N	BB 6-28-13
Web Soil Survey		Y N	Cond 7/19/13
Voucher Location	Refrigerator	YN	
(# vouchers collected)	Press (#)		Enter number to left
	Drier	Y N	
	Identified	YN	
	Mounted	Y N	
	Thrown away	YN	
GRTS point verificat	tion: Is plot sampleable?		
∠¥ Yes	Original GRTS point is sampleable		
□ No	Original GRTS point lands in a non-sa	ampleable area (fi	ill in category below)
	□ Point falls in a water (i.e. river, la	ke)	
	☐ Managed moved area (i.e. golf co	ourse, picnic area, righ	ul-of-way)
	Paved area (i.e. parkinglot, road) Unsafe to sample (i.e. steep slope)		
	Other		
Additional Comment	ts:		
			-
	10011		

Minimum required fields in Bold and Underlined *Definitions and val	Authority: G&C Pub Date: 1998 Systematic (grid) Car	Plot placement:	bryo Photo Nos.: 268	high modera. low not smpl	TAXONOMIC ACCURACY Depth: (1-5): * 4	L	Accurate may still provide good Plot size for cover data:	GPS File Name:	ξ	SAMPLING QUALITY* Longitude: W 0%	□ Perm. water □ Paved □ Slope □ Safety Latitude: N 41.	PLOT NOT SAMPLED: \Box Other $x = 0$ $y = 0$	** Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc. GPS location in plot x=0 to 5, y=-1,0,+1):	Datum: III NAD83/WGS84	C. Dellono Wardy Cow - Other (specify)	B. Doulland Wasday Crew LavLong - UTM - StatePlane	S. Eyzenbuch Pristant Coordinate system:	A. Lance Plot leader Source of coordinates	Role**	1 1	Date (mm/dd/yyyy): 07 / 16 / 2013 □ Fuzz 100m □ Fuzz 250m	Level 5 (nested corners sampled) Check one: Public data	Level 4 (no nested corners sampled) Data Confidentiality:	Plot No.: 1347 Landowner: CMP	Plot Name: 1344 Someway to 62 Local Place Names 27	nc: 01 Be 2013	Project Label: PCAP State: OH	GENERAL INFORMATION LOCATION	CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet
*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide	□ Random □ Stratified Random □ Transect component □ Systematic (grid) □ Capture specific feature □ Other □ Systematic (grid) □ Capture specific feature □ Other	FORTS - Representative herbaceous	dominated	3, 8, 9 (EDIT IF MODIFIED)		of plot: [64] °	(hectares)	347A Vea. Characteristics	m o ft +-3	51488 Rationale:		(base of plot $x=0$, $y=0$) $T-2$	Location:	□ NAD27	1	atePlane deg deg min Layout: 7×5	Coord. Units dominants, strata, BROW	□ MAP ■ GPS NOTES: Include Layout content). Rationale (why		!	250m - Fuzz 500m #1	D Private Data		pior: #10	ir's Creak		County: Cuyahoa.		ent Program - Background Data Sheet
OVER	vere are several large clumps		by beech. Very thin	s include sassatras re	inant species in the canopy.	of Tall real maps	+ b. T = 771 b. 1 m. al	Chanacteristics. This plot is bordered	717-10	CRTS point		bridge Walked S ~450 m.	Parked off Ocators - Vingin mounder the	The state of the s				t (any unusual shape details), Location (directions and landscape) there), and Veg Characterization (description of community)		4 3 4	#2 #3 #4 #5	2 1 2	2	#9 #8 #7 #6	3 4 3		99	17071	Page 1 of 2

Project Label: PCAP Project Name: ON PLANS MODIFIED NATURESERVE CLASS* CODE (on separate form): Fit= Conf= type* severi	PCAP Proj	- Background Data Sheet Project Name: On the 2613 DISTURBANCES type* severity**	yrs ago °	Plot No.:	347 description	Page 2 of 2
COMMUNITY NAME:	Copet d III	Human	9	002. 0	gorbage, fine pit	
Mixed Forest	"Mixed" determine post-sample	Cut Animal VH Other	0	00%	oranse.	
■ Conspicuous inclusions □ Irregular/pattern mosaic	□ Compositional trend across the plot □ Irregular/pattern mosaic	**L=low, ML=mcd lo Current Land Use: Former Land lise:	w, M=med, M	IH≔med hig	**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high Current Land Use: Park Former Land Use:	
	HYDROLOGIC REGIME*	Control Control	DE CHOLOND	(DOL)		
SALINITY*	☐ Intermittently/seasonally saturated	Semipermanently flooded				
□ Saltwater □ Brackish	(seldom flooded)	Permanently flooded Tidal/Seighe flooded Asily				
□ Fresh □ Opland (n/a)	(dry <1/yr, seldom flooded) Occasionally flooded (<1/yr)	☐ Tidal/Seiche flooded monthly ☐ Tidal/Seiche flooded irregular				
(by default unless plot is a wetland)	D lemporarily flooded	(e.g. wind, storms) Unknown				
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.) Of Carek Swanii.	s of plot to the stand, successional status, man	urity, etc.)				

2aCM PCAP Species C		-	Ø)		0	20		E	N)	<u>ت</u> و	دو	حو	2)	دو	又	ر ا ا	93	25	56		92	5	12 12 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14	7	26	T S H (F)(A) Br	Strata - Cov. entire plot	•	Cieveland Metroparks	-	③		Total modules:	Project Label:
et Page 1 of x_ver	Sp. Seed	Quercus sp. Seedling	heersta virginica	Acer saccharum	Catua ovata	Carya cordifornis	Fraxinus Sp.	Florida	ullian Frightly	Cratagons sp.		hunbergii	Fraxinus sp. seedling	Mitetta repens "Hereila		Sassafras albidum	Carya sp. seed	sp. seedlin	Fagus grandifolia	1		ξ	Primus sevotion	Quercus rubra	Acer rubrum	r Species		dime pro-	describe amount of browse per species over	Br = Browse Level. Use cover classes to			5	Project Label: PCAP PCAP Project name: 01 82 2013
l 5/29/2012 ceh						>			5																	c Voucher#	%unveg. litter (bare litter)	%inved drought bare soil	%open water	intensive module:	Estimate for each	illelisive illoudies.		ment Program Species (Project name: <u>01</u>
							-	- 5	<u>-</u>		1 2	0.3				-	ಬ	تع د ۵	<u>a</u> 6	E E	20	3	6 H	1 H	4 9	depth o	1 9	7		depth	mod comer	-	r L	es Cove
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Natural Resource Management FORM NR/2010-02a				7							છ					2		رو	7		_		ಬ		0	8	9		ØK.	COV	COMPE	ja -	•	Page _
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02a			\dashv						7				_									\perp			$\overline{}$	depth	1			131	R mod			2
L												,					- 2									8				8	R			

Depth 1 = 100m²

%06

Depth 5 = 0.01nn²

Corners Nested

20%

LOW OR NONE: there is no measurable browse line

mid point 0.0001 0.005 0.015 0.035 0.075 0.175 0.375 0.625 0.850 0.975

dass

The following graphic can be used for various data elements to convey *Amount" or "Cluanishy" #07E: Within any given box, each quadrant contains the same total area covered, just different sized objects.

EXAMPLES OF PERCENT OF AREA COVERED

olitary or few % cover

0-1%

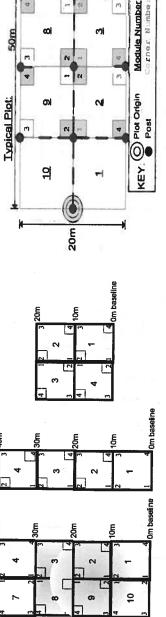
10-25% 25-50% 50-75% 75-95% 35-100%

2%

% •

5-10% 2-5% 1-2%

BROWSE RATING NARRATIVE DESCRIPTION



1m2

Corner 4

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

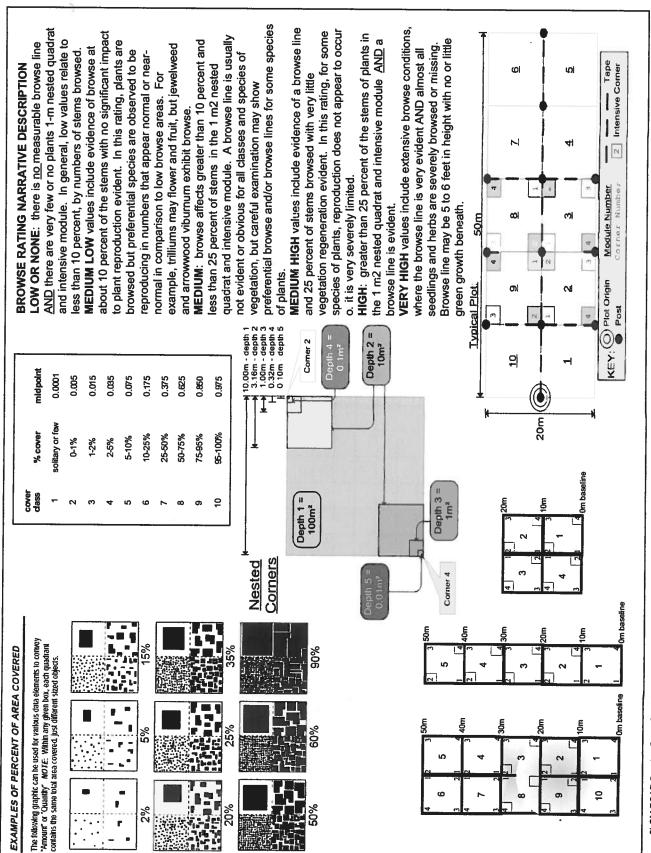
Intensive Comer

N

K

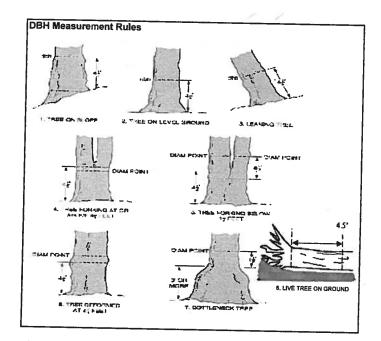
41

CLEVELAND MET	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a	nent Program Species Cover Data	cies Cov	er Data	Sheet		Plot no : 1247	247				Pa	Page		2	2	
Total modules:	10	Intensive modules:	s: 4	Plot	Plot configuration:	ration:	2,2			77	Plot area (ha):	ea (h	H	_			
Cleveland	Br = Browse Level. Use cover classes to describe amount of browse per species over	Estimate for each intensive module:	그 ^호 원 3	cov depth	cov depth	NGS COMME	\$ W \$	corner mod	84 ~ come		α γυπας α	depth oc	cov depth		comer mod		8 2 Dille
Strata - Cov. entire plot	entire piot	%unvegelated open water %unveg. ground (bare soil) %unveg. litter (bare litter)	e si e						\forall								
Т S H (F)(A) Вг	Species	c Voucher#	depth	cov depth	cov depth	90	depth	cov depth		cov depth	Q0 V	depth	cov depth	apth cov	ov depth	_	8
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\(\mathcal{3}\)	Fraxinus americana														D	1	
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2bCM PCAP Species Cover Data Sheet Back Page_ver 1.3.ppt

	CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Project Label: PCAP Project Name: 0 302013 Plot No	PCAP	ssessm	ent Prog	yram Na Name: <u>⟨</u>	nt Program Natural Woody S Project Name: 0 302013	1013	tem Dai	Plot No.:	1347		Page:		9	N Slevela	(P) Gleveland Metroparks
	Explain subsample (additional room on back):	ck):														
			# stems	% sub	#	ize class (cm) wood	size class (cm) woody stems >1.4m	1.4m							
	mod # species c	voucher#	_		clumps	7	1-<2.5	2.5-<5	5-<10	10 - <15	15 - <20	20 - <25	25 - <30	30 - <35	35 - <40	>40 (record each tree)
-	1 traxinus so									- 2676						51.3 58 0
1	1 train standatolia							•								0
	1 Aler rubrum							•	e			•	•			
	IX Smilex retundatellic		•													
	2 Fagus grandifora															
	2 Standing dead							××.			•					
	2 Sussafrass albidun							メ・								
	2 Berberis Hunbersii															
	2 Aprel rubrum							•								
	2 Querque pubra														٠	다.
	2 Sniles compatibilis		U													
	3 Sailay rotundi Folio		•													
	3 Queraus rubra													•		STED 6 OF
	4								•							
	3 Actr rubrum		il.						9	•						
	3 Standing dead				300				6	×						
	3 Fagus glandifilling	۶						•								
	3 Prunus sérotina								•							
	3 Carya Naster		L													429
	> Hee'r saccharum							•	6							
	4 Prunus serotion								0							
\	4 Standing dead							•								
-	4 Acer rubours								68		8					553
	- Range + Torre				•						South Property					



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

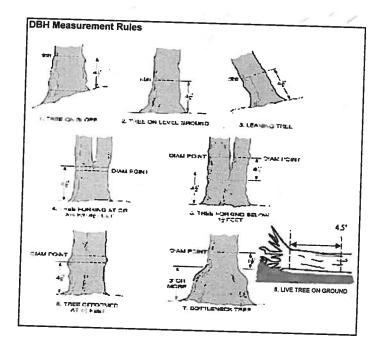
E

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.

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Explain subsample (additional room on back): Prudus serotina Standing 1700 Cretagus Sp Acer Nothing and suppose supp Carya ovata tagus sianditulia Wergus rubra lestres us so Taxinus americans Standing xssx trasable Dieraus alba ldergus rulara mily potalifilia grandifuli **TUBREUM** Total Folk Project Label: __ PCAP voucher# # stems 0-1.4m 6 0 or super % sub Project Name: 016-2013 clumps shrub size class (cm) woody stems >1.4m 2 1-<2.5 . 2,5-<5 • \$ 9 . u × Plot No.: 347 5-<10 .. . 8 10 - <15 15 - <20 20 - <25 Page: ğ 25 - <30 7 N 30 - <35 1 . 으 Silerve land Metropa iks 35 - <40 . ō 57.9 6.5 548 >40 (record each tree) 61.4



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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- 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



C

D

E

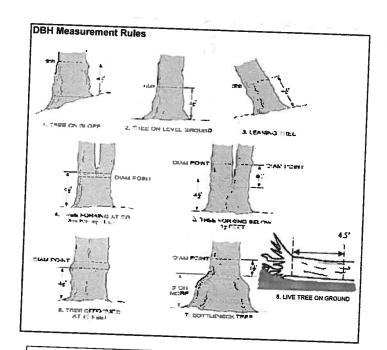
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- E: Central stem still standing.

3aCM PCAP Natural Woody Stem Data Sheet ver 2.0.xls last revised 5/29/2012 jim

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 0 Explain subsample (additional room on back): Acer Worum Hoen Cubrum Sussificass albi Fasus granditoli Smiles columbification Setsa Flass all to us granditulia Project Label: PCAP voucher# prowsed # stems 0-1.4m 7 . or super % sub Project Name: 01 & 2013 shrub size class (cm) woody stems >1.4m Q-<1 1-<2.5 2.5-<5 Plot No.: 1347 5-<10 . . 10 - <15 15 - <20 ŧ 6 20 - <25 Page: 25 - <30 30 - <35 . 으 (A) Chaye land Metroparks 35 - <40 ō >40 (record each tree) 40.7.40.4 =



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







2







ASH CANOPY CONDITION

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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)

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- 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)

May Section							-	-	•	-		
Species Carry Ca				1							4	2
Decision Deliconosision Deliconosi							-				3	2
Condition Cond											2	2
Time Species Ba C Voucher# (cm) DBH condition co												2
Species Call Country Call Candillon Candil	each module using Tree	Man all ash trees ≥10cm in			+		-					2
Comparison Com												-
Carrier Carr	-											=
Continent Cont												=
Decision Condition Condi						+						1
Description		•]										175
Decision							0					1.
Inc. Species Bit C Voucher to (cm) DBH condition holes present holes Provided the condition holes present holes C Voucher to (cm) DBH condition holes present holes Provided the condition holes present holes present holes Provided the condition holes present ho		Bas										13
Tire Species 6 C Voucher# (cm) DBH condition condition holes present holes 1		eline										12
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ID. Species a c Voucher# (cm) DBH condition condition holes present)	`										ľ
			noies	present	holes	ion condition	DBH conditi	- 1	Voucher#		Species	

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey Cleveland Metroparks Tier 1: Early detection/ Rapid response Presence GPS SW Microstegium vimineum NW Japanese stiltgrass Presence Ranunculus ficaria X: yes Lesser Celandine Cynanchum louiseae (vine) Black Swallow-wort Butomus umbellatus (wetland) Flowering Rush Heracleum mantegazzianum Giant Hogweed Tier 2: Assess as Needed # of Plants comments NE SE Isw NW Acer platanoides # of Plants Norway Maple Ailanthus altissima 1-10 Tree of Heaven Lonicera japonica (vine) Japanese Honeysuckle 11-50. Lythrum salicaria (wetland) Purple Loosestrife 3: 51-100 Aegopodium podagraria (G-cover) 4: 101-1,000 Bishop's Goutweed Celastrus orbiculatus (vine) Asian Bittersweet >1,000 Torilis sp. Hedgeparsley Conium maculatum Poison Hemlock Rhamnus cathartica Common Buckthorn (shrub) Berberis thunbergii Japanese Barberry (shrub) Alnus glutinosa European Alder Dipsacus laciniatus **Cut-leaf Teasel** Elaeagnus umbellata Autumn Olive (shrub) Lonicera maackii Amur Honeysuckle (shrub) **Euonymus fortunei** Wintercreeper Tier 3: Presence is of Interest # of Plants comments NE SE SW NW Convallaria majalis (G-cover) # of Plants Lily of the Valley Coronilla varia (G-cover) Crown Vetch 1-10 Eleutherococcus pentaphyllus Five-leaf Aralia 2: 11-50. (shrub) Pachysandra terminalis (G-cover) 3: 51-100 Japanese Pachysandra Philadelphus coronarius **Mock Orange** 4: 101-1,000 (shrub) Pulmonaria officinalis (G-cover) Lungwort 5: >1,000 Rubus phoenicolasius Wineberry Iris pseudacorus (wetland) Yellow Flag Iris Ornithogalum umbellatum Star of Bethlehem Viburnum opulus var. opulus European Cranberry (shrub) Viburnum plicatum Doublefile Viburnum (shrub) Tier 4: Widespread and abundant Presence comments NE SE SW NW Alliaria petiolata Garlic Mustard # of Plants Ligustrum vulgare 1: 1-10 Common Privet (shrub) L. morrowii, L. tatarica **Bush Honeysuckles** 2: 11-50. (shrub) Phalaris arundinacea Reed Canarygrass 3: 51-100 Phragmites australis (wetland) 4: 101-1,000 **Phragmites** Polygonum cuspidatum Japanese Knotweed >1,000 Frangula alnus Glossy Buckthorn

Vinca minor (G-	cover) Periwinkle		╀──┤──┤	
Note: For Ground-cover plant 4bCM PCAP Invasive speci	s record "stem #" but in comm	nont field describ		
4bCM PCAP Invasive speci	es datasheet.xls last revised 6/11/	/2012 - I describe # (of colonies a	id patch size (S,M, L)
•	The state of the s	/2012 ceh		N1.

(wetland)

Multiflora Rose

Canada thistle

Common Teasel

Dame's Rocket

Cattails

Rosa multiflora

Cirsium arvense

Vinca minor

Dipsacus fullonum

Hesperis matronalis

Typha angustifolia, T. x.glauca

(shrub)

(shrub)

STANDING BIOMASS (required for emergent wetlands) of in 0. Im clip plots (32x32 cm) from comers 1 and 3 in each inten-module. Required for VIBI-E score calculation. Circheck where

collected

lodule #

S

P
Plot No
ň
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4
1
4

Page: 1 of 1	(A) Gleveland Metro

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

F

LFI is angle of plot to the

horizon TSI is

ollected				
nsive				
3				
		CLASSIFICATION		11
ner		(FIT excellent, g Fit and Confidence		
		Hydrogeomorphic class (WETLANDS ONLY):		
	it.	DEPRESSION	F16	Conf=
		o IMPOUNDMENT o Beaver o Human	FICE	Coní=
		o RIVERINE o Headwater o Mainstern o Channel	1	Conf=
		□ SLOPE (ground water by drology or on a physical slop)	F	Conf=
		D FRINGING D Reservoir D Natural Lake	F	Conf=
		© COASTAL (specify subclass)	Fir	Conf=
		n BOG (strongly, moderately, weekly embrotrophic)	Fil-	Conf
		Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):	הא	
		□ FOREST □ swamp forest □ bog forest □ forest seep	F	Conf
		DEMERGENT of marsh of wet meadow of open bog	1	Conf=
		O SHRUB O shrub swamp O tall sh. bog O tall sh. fen	File	Conf=

+135 degrees

æ

+ 90 degree

angles formed by local slopes For TSI measure

+180 degrees +225 degrees

SW

eye of person standing ~10 m 4c.wc

recorders eye to angle from

\$

+45 degrees

K

At aspec

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only anks for microhabital features. Selectione 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 3 = maximum steepness that can be safely sampled ~45°

Stope 2 = falls on slope -20°

feature is absent or functionally absent from the wetland

ilope 1 = slight elevational grade across module (hill)

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

12 mod# O ٥ depth 3 tussocks no. of 0 lxlm iplands (Tip-Ups) 3,16x3,16m hummocks depth 2 no. of по, тасго. depressions depth 1 10x10m (count) (2-12 cm) 10×10m c.w.d depth 1 c.w.d. - count for pieces with minimum 1m length (12-40cm) W depth 1 10x10m c.w.d >40 cm 0 (count) 10x10m depth I c.w.d interspers nucrohab. 1212 depth 1 m01x01 nucrohab. SLOPE 10x10m

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

Landform Index (position within landscape) Terrain Shape Index (site microtopographic shape)

+315 degrees +270 degrees

Z

9	コーンコー	* 12 17 15	, 21 19 10	2 28 19 27	Module N S E	corresponding space (* dots bet Bits advance)
	<u> </u>	15	ō	27	m	
	Į,	-	6	5	8	-

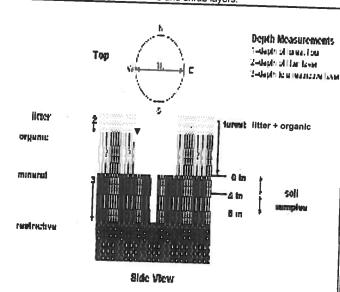
NOTE: tussock and hummocks are counted in BOTH nested quadrat comers but counts are aggregated

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
**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.



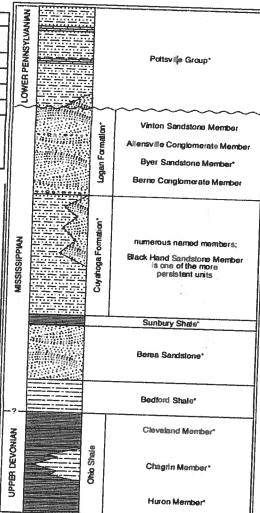


FIGURE 3-20.—Generalized section of Upper Devomian. Missesippian, and Lower Pennsylvanian formations in northeastern Ohio Asteriaks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Waverly 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 sandatone 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 2.512.5/ matrix color texture* hydro. cond.*** hydr. cond *** edox features** xid roots redox features** lexture* mottle ottle color MONE xid roots mottle ottle color 2.5/3/2 200 I S M < (Z) (z)P z

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

I indurdated S-saturated M-moist D-dry
Notes: Include evidence of earthworms (worms,
castings, middens)

Horm sported in

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

DRAINAGE* □ Excessively dr. □ Somewhat excessively	Depth to rest. Layer: 780 nd of an a	Soil Series Source: Ohio Soil Survey	Soil Collection ModuldHorizon (A. B. C) 2,3,8,9 composited A
	Pagent Syden	(Tax)	

and 7/19/13

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

				1	
mod#		1	V	α	0
1 litter+ organic depth (cm)		1.0	2.5	W	27
2 litter depth (cm)	=	600	2.5	ω	4.2
water depth (cm)	water depth (cm)	*	Ø	Ø	Q
depth sat soil (cm)	depth sat soil (cm)		730	>30	730

	_	Le	8		_	<u> </u>	- 1	7 1	5		F51
**** <5 cm in diameter	*** >5 cm in diameter	**Boulder => 10 in	Gravel-Cobble = 1/16-10*	Bedrock	Boulder**	Gravel-Cobble*	Mineral Soil	Histosol	(Sum = 100%)	Underlying Earth Surface*	EARTH SURFACE & GROUND COVER
	neter			02	0%	07.	100%		Ť.		E & GROUNG
Other	Road/Trail	Bare Soil	Water	Bryophyte- Lichen	Duff (Ferm. + Humus)	Litter	Fine Woody Debris****	Coarse Woody Debris***	(Each ≤ 100%)	Ground Cover	COVER
07.	0%	9.	0%	1%	0%	100%	35%	9%	percent		

Tradi INFORMATION:
record type and cover for each
Type NONE %C

%Cover

All Purpose

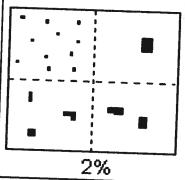
COVER BY STRATA estimate using midpoi	COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13	% ex:3, 8, 13
Strata	Height Range (m)	Total Cover [%]
Tree	2	987.
Shrub	· ^ · ^	18%
Herb	2 . 0	8%
(Floating)*		
(Aquatic)	'	
rooted and f	rooted and floating or slightly emersed	rsed
** submersed	** submersed, most plant mass below surface	ow surface
SEE BACK O	SEE BACK OF PAGE FOR "TYPICAL"STRATA	SEE BACK OF PAGE FOR "TYPICAL"STRATA

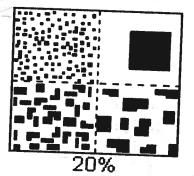
o < plot size</p>

1-3 x plot size

□ 3-10 x plot size	○ > 100 × plot size	a >600 x plot size	STAND SIZE		□ Deer	n Gravel	Bootleg unsanctioned	D Hiking sanctioned	- Bridle

PERCENT MOTTLES (USE CLASS CODES): Class Code Criteria: % of Conv. **NASIS** Surface Area Covered Few < 2 Common C # 2 to < 20 Many m ≥ 20





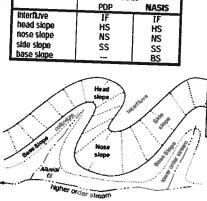
SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper, the sample should be wet enough that all of the particles are saturated but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

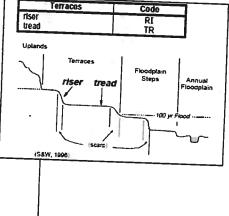
- 0= Organic
- 1= Loamy
- 2= Clayey
- 3= Sandv
- 4= Coarse Sand
- 9= Not measured make plot note

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.

Code

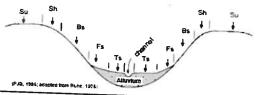
(PJS, 1998; adapted from Ruhe, 1975)





Hilistope - Profile Position (Hilistope 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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S



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

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

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

						i l	FOI	RM B-1:	BUFF	ÉR	SAN	/PL	E PI	LOT	S (F	ront)	R	eviewed	by (initia):	111	
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																Absent: No tree oderate(10-40%		y (40-75	%); 4 = '	/ery H	eavy ((>75%)
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mall Trees (<	0.3m DBH)	0	0	<u> </u>	0	•		Small Trees (<0.3m DBH)	0	0	0	0	0		Small Trees	(<0.3m DBH)	\odot	0 (0	0	0	
Woody Shrubs (0.5m-	, Saplings 5m HIGH)		0	0	0	0	8	Woody Shrub (0.5п	s, Saplings -5m HIGH)	0	0	0	0	0			ibs, Saplings m-5m HIGH)	\odot	<u> </u>	0	0	
Noody Shrubs (<0.	, Saplings 5m HIGH)	0	0	0	0	0		Woody Shrub (<0	s, Saplings).5m HIGH)	0	0	0	0	0		Woody Shru (<	bs, Saplings :0.5m HIGH)	\odot		0	0	
Herbs, F	orbs and Grasses	0	0	0	0	0		Herbs,	Forbs and Grasses	0	0	0	0	0	ŧ	Herbs,	Forbs and Grasses	0	0 (0	0	
Bare	ground	0		0	0	0		Bare	ground	0	0	0	0	0	U	Bar	e ground	\odot	0 (0	0	0	
Litt	ler, duff	0	0	0	0	1		Li	lter, duff	0	0	0	0	0	100	L	itter, duff	0	0	0	0	
	Rock	0	0	0	0	0			Rock	0	0	0	0	0			Rock	<u> </u>		0	0	
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		senc	e/Ab	senc	e - (Confi	rm that			ndica	les pi	resen	ce and	d an	unfilled	bubble indic		nce by 1	illing th	is but	ble.	•
Resi	dential	and	Urba	an Si	tress	sors			Hydrolo	gy S	tres	sors			1		Agricultu	ral & F	Rurai S	Stres	sors	
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Road - gra	vel			0	0	0		Ditches, C	hanneliza	ation		0	0	0		Pasture/Ha	ıy		0	0	0	
Road - two	lane	Harl		0	0	0		Dike/Dam/		Bed		0	0	0		Range			0	0	0	
Road - fou	ır lane	, tw		0	0	0		Water Lev		l Stru	cture	0	0	0		Row Crops			0	0	0	
Parking Lo	ot/Paven	nent		0	0	0		Excavation	n, Dredgir	ng		0	0	0		Fallow Field		RESTING	0	0	0	
Golf Cours	se			0	0	0		Fill/Spoil B	anks			0	0	0		Fallow Field SHRUBS, TRE		SS.	0	0	0	
Lawn/Park				0	0	0		Freshly De		Sedim	ent	0	0	0		Nursery		i le	0	0	0	
Suburban	Residen	itial		0	0	0		Soil Loss/	Root Exp	osure		0	0	0		Dairy			0	0	0	
Urban/Mul	tifamily			0	0	0		Wall/Ripra	р	751		0	0	0		Orchard			0	0	0	
Landfill	VIETE-	J. I		0	0	0		Inlets, Out				0	0	0		Confined A	nimal Feed	ting	0	0	0	
Dumping				0	0	0		Point Sour (EFFLUENT C	OR STORM	VATER	()	0	0	0		Rural Resid	dential		0	0	0	
Trash				0	0	0		Impervious (SHEETFLOV		input		0	0	0		Gravel Pit			0	0	0	
Other:				0	0	0		Other:				0	0	0		Irrigation		127.1	0	0	0	
Other:				0	0	0		Other:			_	0	0	0		Other:			0	0	0	
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Gas Wells				0	0	0		Forest Sele	ctive Cut			0	0	0		Mowing/Shr	rub Cutting		0	0	0	
Mine (surfa	ace)		14	0	0	0		Tree Planta	tion			0	0	0		Trails			0	0	0	
Mine (unde	erground	1)		0	0	0		Tree Canop	y Herbivo	ory		0	0	0		Soil Compa	ction UMAN)		0	0	0	
Military				0	0	0		Shrub Laye	r Browse	d		0	0	0		Offroad veh		je	0	0	0	
Other:				0	0	0		Highly Graz	ed Grass	ses		0	0	0		Soil erosion		D, WATER	4	0	ō	
Other:				0	0	0		(OVERALL <3* Recently Bu	rned For	est		0	0	0		OR OVERUSE) Other:			0	0	0	
Other:				0	0	0		Canopy Recently Bu		asslar	nd	0	0	0		Other:			0	0	0	
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FORM B-1: BUFFER SAMPLE PLOTS (Front) Reviewed by (Initial): DATE: 071 / 61 20 /	_	
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Site is: 12 1 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Location: O AA Center ON QS OE OW O Plot 1 O Plot 2 O Plot 3		
Buffer Natural Cover Strata		
ill in bubbles for all that apply: Canopy Type: D = Deciduous; E = Evergreen. Leaf Type: B = Broadleaf; N = Needle Leaf. Absent: No tree canopy. Strata Section: Fill in appropriate cover class bubble for each strata type for each plot. 0 = Absent; 1 = Sparse(<10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very No. 10 10 10 10 10 10 10 10		
Buffer Canopy Type: (a) Classent: O Buffer Canopy Type: (b) Absent: O Buffer	Absen	
Plot 1 Leaf Type: (b) Flag Flot 2 Leaf Type: (c) Flag	10	Flag
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mail Trees (<0.3m DBH)	-	1
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Voody Shrubs, Saplings (<0.5m HIGH) (<0.5m H	-	
Herbs, Forbs and Grasses Grass	_	
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Residential and Urban Stressors Hydrology Stressors Agricultural & Rural Stre	\neg	
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Road - gravel OOO Ditches, Channelization OOO Pasture/Hay OO	_	_
Road - two lane O O O Dike/Dam/Road/RR Bed (IMPEDE FLOW) O O O Range O O O	-	_
Road - four lane		_
Parking Lot/Pavement O O O Excavation, Dredging O O O Row CROP FIELD) Excavation, Dredging O O O Row CROP FIELD) Fallow Field (OLD - GRASS)		_
Golf Course OOO Fill/Spoil Banks OOO SHRUBS, TREES)		
Lawn/Park O O O (UNYEGETATED)	0 0	
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Urban/Multiramily 0 0 0 VVain tipe Southern Souther	3	
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Dumping O O (EFFLUENT OR STORMATER) O O Convol Dit	_	5
Trash O O O (SHEETFLOW)	_	5
Other:		5
Other:	010	<u> </u>
Industrial Development Stressors Habitat/Vegetation Stressors		
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Oil Drilling O O O Forest Clear Cut		2 _
Gas Wells OOO Forest Selective Cut) _
Mine (surrace)	_)
Mine (underground) OOO Tree Canopy Herbivory OOO Soil Compaction (ANIMAL OR HUMAN) OOO	0	이
Adillace O O Shrub Layer Browsed O O O Offroad vehicle damage O	0	0
Highly Grazed Grasses Soil erosion (FROM WIND, WATER, O	0	9
Other: Other: Other: Other:	0	0
Canopy Recently Burned Grassland Other: Other:	0	0
Other: [BLACKENED]		
Explain all flags in comment section on the back of this form Buffer Sample Plots 05/27/2011		

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