roject Label:	PCAP	Plot No	: <u>3400</u> Date Sampled: <u>6-38-</u> 11 Lead: <u>Lys</u> e
. 1	L. CD. L. D L. '.	Y 😡	Comment required if item answer is NO
	le of Park Boundaries:		If yes, write details in Comments section below
ield journals complet		_	
te sketch made on 1	T	N N	
heck cover page	X-axis Bearing of plot recorded	Ø N	
	GPS coords. Recorded	N N	
	North direction recorded	N Q	
	Photographs taken?	Q N	
ot No., Date agreem	ent on all pages?	G N	
eader data completed	d all pages?	Y) N	
over classes recorde	d in all Intensive modules	Ø N	
rowse Level By Spec	cies	Ø N	
oody stem quality c	ontrol check	Ø N	
vasive plant quality	control check	Ø N	
sh trees mapped		Y N	NA
over by Strata? (conf	firm cover type)	(2) N	
	with matching plot #.	N (Y)	
	latasheet with initials and number	(Y) N	
uchers labeled on c	Λ:	₩ N	
ik flags removed	oncetion bag	W N	
	loguino sito?	(Y) N	
ta sheet QA before			
mmon equipment re	eturned to tub.	Y N	
ta sheets scanned?		7/1/11	Enter date to left
nal data sheets scanr		+	Enter date to left
ffer Widths measur	ed?	N O	
eb Soil survey		GY N	
ucher Location	Refrigerator	Y N	
vouchers collected)	Press (#)		Enter number to left SE 362
	Drier	Y N	
	Identified	(Y) N	
	Mounted	Y N	
	Thrown away	Y) N	SE 34 359-361
RTS point verificat	ion: Is plot sampleable?		
Yes	Original GRTS point is sampleable		
□ No	Original GRTS point lands in a non-	campleable area (f	ill in category below)
1 NO	Point falls in a water (i.e. rive		in in category below)
	Managed mowed area (i.e.		ea, right-of-way)
	Paved area (i.e. parkinglot, roa		
	□ Unsafe to sample (i.e. steep	slope)	
-	□ Other		
iditional Comment	s:		



SAMPLING QUALITY* PLOT NOT SAMPLED: Plot Name: Touga mama CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet Minimum required fields in Bold and Underlined TAXONOMIC STANDARD vascul TAXONOMIC ACCURACY □ Perm. water □ Paved □ Slope □ Safety Plot No.: SHOO GENERAL INFORMATION Project Name: OI RE 201 5. Eysenbuch and date (if > 1 day): Very thorough Accurate Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc. i). (collection ate (mm/dd/yyyy): Cowratura 30-01 Level 4 (no nested corners sampled) Level 5 (nested corners sampled) high/ modera. G&C sampling. Hurried plots may still provide good how much effort put into subjective evaluation of Pub Date: Ray Assign and 10E 188 Plot leader //Byzon/spice low o Other not smpl n/a 1998 Source of coordinates

MAP Photo Nos.: (2 - 1012 Camera No.: 2 $k = \bigcirc y = \bigcirc$ (base of plot x=0, y=0) GPS location in plot x=0 to 5, y=-1,0,+1): State: OH Stems present Plot size stems: Of Chis 7-15-11 Plot size for cover data: GPS File Name: 3400A Datum: ■ NAD83/WGS84 □ NAD27 Other (specify) ■ Lat/Long □ UTM □ StatePlane Coordinate system: If data not public why? □ Fuzz 100m □ Fuzz 250m □ Fuzz 500m Check one: DiPublic data - Private Data Data Confidentiality: Local Place Names: 4.746 Ovor1001 Quadrangle: The Hole Coord. Accuracy: wm oft Latitude: 41.38 406 Landowner: CM LOCATION Depth: (1-5): ၂ Stems not sampled on this plot Stems absent ongitude: 08 SUSS *Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide itensive modules: 2, 3, 8, 9, 4, 7 (EDIT IF MODIFIED X-axis Bearing of plot: County: Lyyahoga ■ deg 🗆 deg min Coord. Units ■ GPS <u>ශ</u> ☐ Transect component ☐ Systematic (grid) ☐ Capture specific feature ☐ Other NOTES: Include Layout (any unusual shape details), Location (directions and landscape content), Rationale (why here), and Veg Characterization (description of community, Rationule: GRTS dominants, strata, BROWSE). Additional notes in space on back Plot placement: Representative GRTS Random Stratified Random Dlagram

☐ Plot origin
☐ GPS location
☐ photo taken, with direction Vey Cher; Location Fack at Little Overlook

Walk along APT to Dirt trail

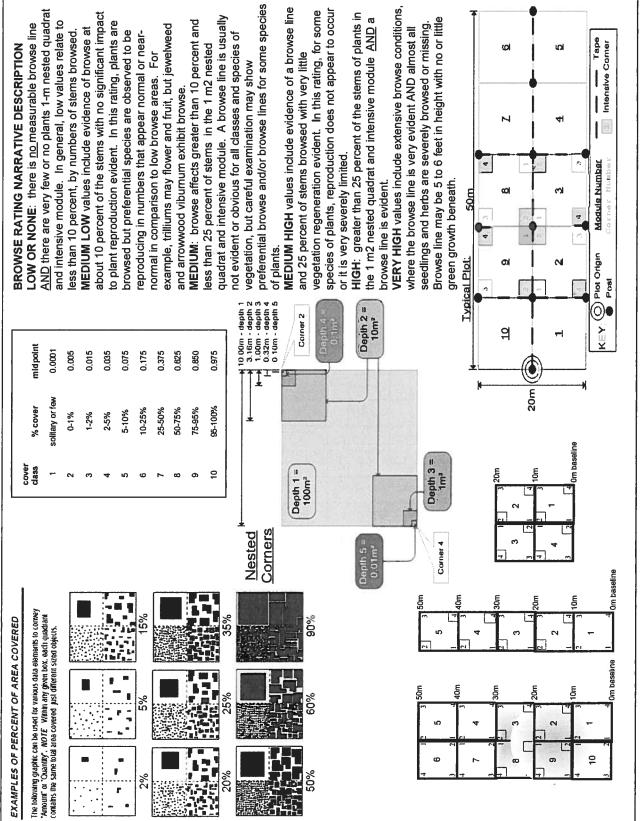
Plat is along slope Layout 2XX 47-15-11 ₫ # understob : Far ns, Elderber 3-Curropy: Sugar Maple, Boach, Hamlock Shrub: Very deparperate - Small sugar #2 Oxpurperate #4 Ġ location of permanent posts Page 1 of 2 (P) Clust land Matroparks OVER

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	v Assessment Program	m - Background Data	Sheet			⊗ Chu	(Schwelund Muteum Ru
Project Label:	I: PCAP	Project Name:	Project Name: OISE 2011	(/(Plot No.:	Plot No.: 3400	Page 2 of 2
CLASSIFICATION		STAND SIZE	DISTURBANCES	CES			
(FIT = excellent, good, fair, poor, CONF = high, med, low)	Fit and Confidence		type* severity**	ity** yrs ago	% of plot	description	
Hydrogeomorphic class (WETLANDS ONLY):		□ >1,000 x plot size	Human				
o DEPRESSION	Fit=Conf=	□ > 100 x plot size	Natural				
□ IMPOUNDMENT □ Beaver □ Human	FireConf=	√10-100 x plot size	Fire				
□ RIVERINE □ Headwater □ Mainstem □ Channel	FireConf=	a 3-10 x plot size	Cut				
□ SLOPE (ground water hydrology or on a physical slope)	Fir Conf	a 1-3 x plot size	Animal \mathcal{M}	0	100	Dear Browse	
in FRINGING in Reservoir in Natural Lake	Fit=Conf=	□ < plot size	Other				
□ COASTAL (specify subclass)	FirConf=		**L=low, ML=m	ed low, M=med	l, MH=med	**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high	high
□ BOG (strongly, moderately, weekly ombrotrophic)	Fi⊏ Conf=		Current Land Use:	se: (\mathcal{M})			
Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):	<u>ONLY)</u> :		Former Land Use:	se: 1/N/K			
□ FOREST □ swamp forest □ bog forest □ forest seep	Fir Conf		HYDROLOGIC REGIME*	IC REGIM	E*		
© EMERGENT © marsh © wet meadow © open bog	Fit=Conf=	SALINITY*	Vipland (seldom flooded)	ı flooded)		□ Intermittently flooded	_
□ SHRUB □ shrub swamp □ tall sh. bog □ tall sh. fen	Fit= Conf=	D Saltwater	□ Intermittently/seasonally saturated	easonally satura	ited	a Semipermanently flooded	pape
MODIFIED NATURESERVE CLASS*		🗅 Brackish	(seldom flooded)	()		□ Permanently flooded	
CODE (on separate form): 1808	Fit=Conf=	□ Fresh	□ Permanently/Semipermanent. saturated	mipermanent. s	aturated	□ Tidal/Seiche flooded daily	daily
)	_	Sylphand (n/a)	(dry <1/yr, seldom flooded)	lom flooded)		n Tidal/Seiche flooded monthly	monthly
COMMUNITY NAME: 1-LEM Ode Hardwood Forest	JOCO FOREST	(by default unless plot is a \square Occasionally flooded (<1/yr)	□ Occasionally fl	ooded (<1/yr)		□ Tidal/Seiche flooded irregular	irregular
(Lots of Sygar Maple)	Maple	wetland)	□ Temporarily flooded	poped		(e.g. wind, storms)	
HOMOGENEITY	Additional notes & diag	Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)	f plot to the stand	, successional st	tatus, maturi	ty, etc.)	
Homogeneous							1
□ Compositional trend across the plot	11+07/21/17	to books in way in the state of	to do u	さってする	W W CK	nimbers, ougar maples	naples
□ Conspicuous inclusions	a Jen bolle	en and 4 tol	P+1987	1 (Leed	d a	COR.	
□ Irregular/pattern mosaic	Very depo	uperate un	durstor	ST ST	2 X	· 大2480	
	51 75	plot is on a slope.	3				

pennivunius Drytolacca? Cleveland Metroparks **CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet** 6 Strata - Cov. entire ptot Visual est. % open water entire site: Total modules: Project Label: لل S H (F)(A) Br B D S S D 2 Q 0 Prunus serutina Trax 1000 Acer Polystitchum Parthenocussius - Lockalia Crachition tolucionat um くだい describe amount of browse per species over Jallum Ja A/XX rejocknown tollo Here Oxi codlindron Acer soodune Br = Browse Levet. Use cover classes to DIERCUS SEEDLING Chrotoria MUS M055 50 I Sue me 500 It accesse 10118 Souchorum CUBCYR Speed lives Q granel toll a Species entire plot PCAP Specifical Trio W V1/91/10100 213 Miercitol 16-11 (thuista no truit DVIDAL Stand ata radi Visual est. %unveg.o.w. entire site: SRE Intensive modules: %unveg. ground (bare soil) %unvegetated open water Estimate for each intensive module: %unveg. litter (bare litter 5 nown dicot 9-12-11 -HP-2 325 Project name: 018 2011 Voucher # DIR %open water depth الا D 0 Q ىلا C 2 corner 0 cov | depth 104 2 cov | depth 0 mod Plot configuration: Q (J) 0 2) 111 60 6 Visual est. %invasives entire site: depth D 2 2 2 6 م N Plot no.3400 ation: 2x4 cov depth cov | depth 9 N 2 8 2 COV deplh depth 9) N 9 9 COV corner mod cov | depth 20 depth رو 0 corner Plot area (ha): 0.08 ç COV depth depth 2 90 mod N B Page / of & cov depth L corner mod cov | depth corner 8 COV 0 depth mod COV COV

2aCM PCAP Species Cover Data sheet Page 1 of x_ver 1.5.xls last revised 6/9/2011 jim

Natural Resource Management FORM NR/2010-02a



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

Tora: Esaft ix 2aCM PCAP Species Cover Data sheet Page 1 of x_ver 1.5.xls last revised 7/15/2010 ||m CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Strata - Cov. entire plot Cleveland Metroparks /Isual est. % open water@ntlre site: Total modules: Project Label: S H (F)(A) Br S) 3 2 \vec{c} 0 Poa Carex Demopteris intermede Ridens CHOUS WOW FOITAGUS TANA TANA Nyssa Rubus FUCINAMA describe amount of browse per species over Unknown ducos J/y cerin Carex sp Jader & Br = Browse Level. Use cover classes to HS+SV VS arax digitalis pipastus 15000 onopholis Sm Ducus Invarior marginalis 1 burning dentation 2240 erex laxiflora " nknown duco alsodis on SVIVATICO 1050en Seeding Cata floods Chradense Species Carosus Cadulars Steers 11 entire plot 710200g PCAP leanenensis 0 obovatus 1/4/12/0000 hellaboure (Suxuni ? No gruit Strictu americana ولد سم عامرها DWV II tingot, عرز Visual est. %unveg.o.w. enlire site. Intensive modules: %unveg. ground (bare soll) %unvegelated open water intensive module: Estimate for each %unveg. litter (bare litter SRE 10/20 SRE 360 SRE 359 Project name: OSTaoil 19-1014 Voucher # 05-10-10 Z %open water 4 depth e depth cov depth cov depth Plot configuration: mod COV comer COV Visual est. %invasives enlire site COV Comer Plot no. 3400 3 ggy W رو HXB U AOD g, depth 100 6 Natural Resource Management FORM NR/2010-02a 4 Comer cov | depth ç 2 1-18-5 285 depth 6 100 Plot area (ha): 0.08 60 COV deplh 1104 corner Ϋ́ -cov depth 5 dapih W mod 900 ADD 0 depth depth mod æ COV 607 U b

Natural Resources Management FORM NR/2010-02b

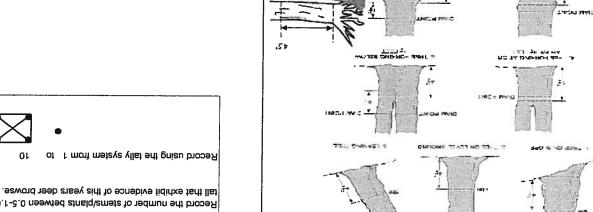
2bCM PCAP Species Cover Data Sheet Back Page_ver 1.3.ppt

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet نن S 0 ش U CN Explain subsample (additional room on back): Standing Desco Fagus grandifolica Standing Dead Fasus granditolia Acer saccharum Strunching Dead Fagus grandifelia Vites cestavelis Acer rubrum Liriodendron bulipher Acer Seeharum Acer Saccharum Acer Sacharum Acer Saucharum Brager CADONA Ace Secharum Isuga Canadensis Steading Deces 15 Usa Considers 13 Deer sucharum Aces suchesum species aestavalis Project Label: Dead voucher# # stems 0.5-1m 90 browsed or super % sub Project Name: OLOCAOI clumps shrub size class (cm) woody stems >1m 0-<1 9 . 1-<2.5 2.5-<5 0 0 • • • 9 .. Plot No.: 3400 • 9 5-<10 • • . . 9 10-<15 0 • • 15 - <20 20 - <25 ø • Page: 25 - <30 • 30 - <35 (P) Cleveland Metroparks 35 - <40 ö 63,3 9.9h 93,2 69.8 >40 (record each tree) 40,2 =

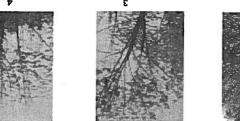
Woody Stem Deer Browse

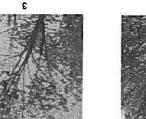
Record the number of stems/plants between 0.1-3.0 meters



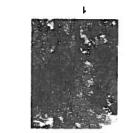


LIVE TREE ON GROUND

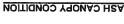








DBH Measurement Rules



- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
- 3. Dieback: Canopy is thinning and some top branches exposed to sunlight are dead (have no leaves). Lower branches, not exposed to 2. Thinning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.
- 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. sunlight, die naturally and are not considered.

(lowest branch) on the trunk. 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



3

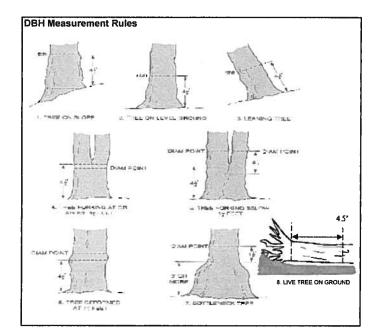
а

(if an ash receives a score of 5 (dead) under canopy condition it must also receive a breakup condition ASH CANOPY BREAKUP CONDITION (for dead trees):

tsuk 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 00 Explain subsample (additional room on back): Canadasis Project Label: ဂ PCAP voucher# # stems browsed 0,5-1m or super sample % sub Project Name: CX Be 2011 shrub clumps size class (cm) woody stems >1m Q-<1 1-<2.5 2.5-<5 Plot No.: 3400 9 5-<10 10 - <15 15 - <20 20 - <25 Page: 25 - < 30 N 30 - <35 으 © Cleveland Metropaiks 35 - <40 • 6 65.7 >40 (record each free) =



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 1













ASH CANOPY CONDITION

- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
- 2. Thinning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.
- Dieback: Canopy is thinning and some top branches exposed to sunlight are dead (have no leaves). Lower branches, not exposed to sunlight, die naturally and are not considered.
- 4. >50% Dieback: The canopy has less than half of the leaves that should be there and/or half of the top branches are dead.
- 5. Dead canopy: No leaves remain in the canopy portion of the tree. It still counts as a 5 even if there are epicormic sprouts below the canopy (lowest branch) on the trunk.



R

С

D

F

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: Invasive Species Survey



Tier 1: Early detection	/ Rapid response		Pr	esence		GPS	
	THE PERSON WITH THE PARTY OF TH	N		sw	NW		Presence
Microstegium vimineum	Japanese stiltgrass						X: yes
Ranunculus ficaria	Lesser Celandine						
	Black Swallow-wort						
) Flowering Rush	17					_
Heracleum mantegazzianum	Giant Hogweed						
Tier 2: Assess a			# c	f Plants		comments	
		N		sw	NW		# of Plants
Acer platanoides	Norway Maple						1: 1-10
Ailanthus altissima	Tree of Heaven						2: 11-50.
Lonicera japonica (vine)	Japanese Honeysuckle			+-	† †		3: 51-100
Lythrum salicaria (wetland)				+			4: 101-1,00
	Bishop's Goutweed			+-			5: >1,000
Celastrus orbiculatus (vine)				_			3. 72,000
				 	+ +-		
Torilis sp. Conium maculatum (wetland)	Hedgeparsley Poison Hemlock		+	+	+-+-		\dashv
		cheub\		+	+ +		-
Rhamnus cathartica	<u></u>	shrub)	1	+	+		\dashv
Berberis thunbergii		shrub)	1 7 4		+ +		\dashv
Alnus glutinosa	European Alder			+	+		-
Dipsacus laciniatus	Cut-leaf Teasel		$-\!\!\!\!\!-$				_
Elaeagnus umbellata		shrub)			ļļ		
Lonicera maackii		shrub)	71				_
Euonymus fortunei	Wintercreeper						
Tier 3: Presence	is of Interest	THE ME		f Plant		comments	20
		N	E SE	SW	NW		# of Plants
Convallaria majalis (G-cover	Lily of the Valley					·······	1: 1-10
Coronilla varia (G-cover	Crown Vetch						2: 11-50.
Eleutherococcus pentaphyllus	Five-leaf Aralia (s	shrub)					3: 51-100
Pachysandra terminalis (G-cover	Japanese Pachysandra						4: 101-1,00
Philadelphus coronarius	Mock Orange (shrub)					5: >1,000
Pulmonaria officinalis (G-cover	Lungwort						
Rubus phoenicolasius	Wineberry						
Iris pseudacorus (wetland	Yellow Flag Iris						
Ornithogalum umbellatum	Star of Bethlehem						
Viburnum opulus var. opulus	European Cranberry (s	shrub)					
Viburnum plicatum		shrub)					
Tier 4: Widespread	<u>`</u>		Pı	esence		comments	999
		N	E SE	SW	NW		Presence
Alliaria petiolata	Garlic Mustard	>	< X				X: yes
Ligustrum vulgare	Common Privet (s	shrub)	1	Т			
L. morrowii, L. tatarica		shrub)					
Phalaris arundinacea	Reed Canarygrass						7
Phragmites australis (wetland)	Phragmites		\neg	+	1		
Polygonum cuspidatum	Japanese Knotweed			\top	1		7
Frangula alnus		hrub)	\dashv		1 1		7
Rosa multiflora		hrub)	- x		1		7
	Cattails (wetland)	,,,,,,,,,,		+^	1 -		┪
Typha angustifolia, T. x.glauca	Canada thistle			+-	+		-
Cirsium arvense				+	+		-
Dipsacus fullonum	Common Teasel		+	+	 		\dashv
	Dame's Rocket			1	1 I		
Hesperis matronalis Vinca minor (G-cover)	Periwinkle						

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

* 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)

Coarse Woody Debris*** Fine Woody Debris****

Each ≤ 100%)

Water

0

Bryophyte-Lichen

Duff (Ferm + Humus)

S

٩

Bootleg unsanctioned Hiking sauctioned

Road/Trail Bare Soil

O

l	Plot No.:
l	 6
	3400
•	

(Cheveland Metropartos Page: 1 of 1

TRAIL INFORMATION: If trail falls in plot record type and cover for each Type

%Cover

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

17	200	ω.	2	Module
y)-	-	5	2	z
Z	<u>ۍ</u>	- (5	s
V	-	0 (5	Е
W	_	S	نع	W

10 feature is present in moderate or greater amounts and of highest quality

mod#

corner

depth 3 tussocks

> depressions no. macro.

(2-12 cm)

(12-40cm)

cwd

c.w.d. - count for pieces with minimum 1m length

c.w.d

microhab

depth 1 10x10m

Ix Im

3.16x3.16m depth 2 ummocks no, of

10x10m depth 1

10x 10m depth i

10x10m depth 1 >40 cm

10×10m

(rank)

depth 1

SLOPE

0

2 (count)

Ś ע

0 Ø 0

0 0

G

0

00 0 0

6

 \mathcal{C}

0

XO 0 feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality

feature is present in very small amounts or if more common, of low quality feature is absent or functionally absent (Golf Course Flat) slope 1 = slight elevational grade across module (h朝)

anks for microhabitat features. Selectione or select two and average the score. NOTE: If mod falls on a slope automatically gets ranked based on steepness (1-3)

Slope 2 = falls on slope ~20 °

Slope 3 = maximum steepness that can be safely sampled ~45 °

[FILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD] McNAB INDICES (degrees) + for up - for down -andform Index (position within landscape) +315 degrees +270 degrees +180 degrees +225 degrees +135 degrees +90 degrees +45 degrees At aspect NN SIV € 3S Ä incasure angle from recorders eve to eve of person standing horizon TSI is angles formed by local slopes. For TSI LFI is angle of plot to the

Terrain Shape Index (site microtopographic shape

5aCM PCAP Plant Cover_Earth Surface Data sheet Page 1_ver 2.xls last revised 6/9/2011 ceh

nacro depressions = macrolopographic depressions with module. These may extend into other modules and be counted again

.w.d. = course woody debris

rohab. Interspers.. = overall ranking of plot microtopographic interspersion

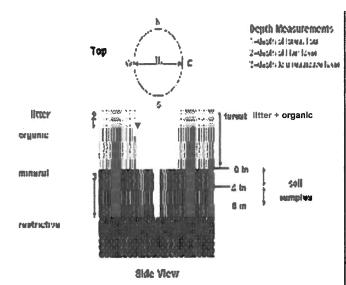
NOTE: tussock and hummocks are counted in BOTH nested quadrat corners but counts are aggregated.

COVER BY STRATA

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

*Very tall shrubs are sometimes included in the tree stratum

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



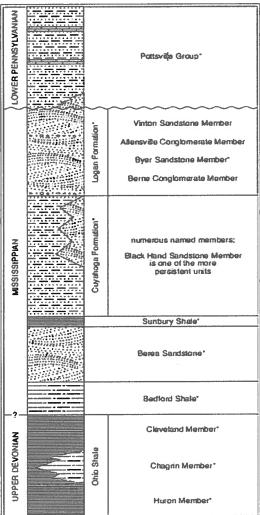


FIGURE 3-20.—Generalized section of Upper Devonian, Ministrippian, and Lower Pennsylvanian formations in northeastern Ohio. Asceriaks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to each, but the bindinesses 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 flyde (1953), florver (1950), and Collins (1979) for more information on Mississippian rocks in Ohio. See figure 3-16 for explanation of rock types.

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

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet Project label: PCAP Plot No.:

Project Name OI BEROI

3400

(P) Cleveland Metroparks

Page: 1 of 1

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

Soil pit module #_ (one per entire plot)

20 cm 5 cm matrix color matrix color texture* hydro. cond. *** redox features** texture* oxid roots %mottle hydr. cond. *** redox features** oxid roots %mottle nottle color nottle color IOYR STU S OYR 2/1 S **∂** 3 2 8 2 2 U

refer to texture classes on reverse side

*** Circle one: ** e.g. hydrogen sulfide odor, gleying, etc.

indundated S=saturated M=moist D=dry

Notes: include evidence of earthworms (worms, castings, middens)

in soil pit

worms were found 3

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

236,7	2,3,8,9 composited	Soil Collection Module
A	Α	Horizon (A, B, C)

Module #

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Corner

Corner

lepth to restrictive

20-40 in

Soil Description/notes:

Soil Series Source: Ohio Soil Survey Soil Series/Type: Drecksyille Web Soil Survey Information: DRAINAGE* Parent Material: and form type: Urana sewow Residuum wenthered trom 51H loam 042/0

□ Excessively drained

Somewhat excessively

Moderately well dr. Well drained

 Somewhat poorly dr 🗆 Poorly dr

Very poorly dr

Impermeable surface

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

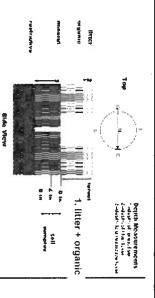
_		_	
	SOIL DEPTH MEASUREMENT INSTRUCTIONS: Measure to the		

nearest 0.1 cm in center of intensive modules. If >30.5 cm,

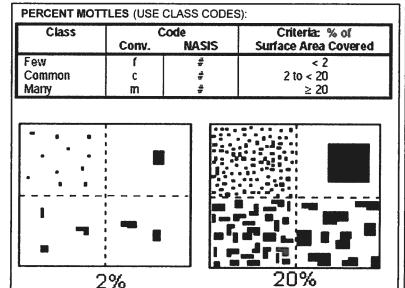
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7	5		2	mod#			
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Ö.	3,0	4.5	7.0	(cm)	depth	2 litter	rec
55	62	> I∞	94	*[wss]	depth(cm)	2 litter 3 restrict.	record as >30
0	0	0	0	(cm)	depth	water	
25	730	730	736	(cm)	sat soil	depth	

Length of soil probe = 125 cm

Use Web Soil Survey for #3 Restrictive layer dept.



からしのかり



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

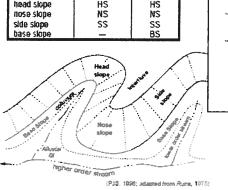
3= Sandy

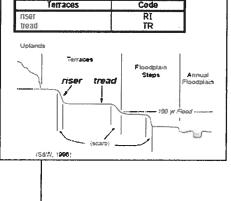
4= Coarse Sand

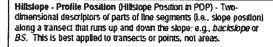
9= Not measured - make plot note

Position

Geomorphic Component - Three-dimensional descriptors of pans 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 stone or MS.







Code

shoulder backslope footslope toeslope	SU SH BS FS TS	
Sh i Be	Fs Ta Gordon	Sh Su Bs + +

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.

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CLEVELAND METROPARKS Plant Co	CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet $arrho _{\mathcal{O}}$	ind Data Sheet Plot is on a Stope! (Creveland Metroparks)
GENERAL INFORMATION	LOCATION	
Project Label: PCAP	State: OH County:	
Project Name:	angle:	(
Plot Name:	Local Place Names:	**
		210 3 4 3 4
Plot No.: 34/00	Landowner:	phot: #8 #7 #6 #0 /#6
 Level 4 (no nested corners sampled) 	X-axis Bearing of plot: [30] o	2 1 2 1
Level 5 (nested corners sampled)	Data Confidentiality:	1 2 1 2
Date (mm/dd/yyyy): / /	Check one: Dublic data Private Data	#1 #2 #3 #4
End date (if > 1 day): / /	🛚 Fuzz 100m 🗸 Fuzz 250m 🔾 Fuzz 500m	Delocation (1998) Involved Albert (1998)
Party Role**	Reason:	Key: (0,0) point point point with direction — permanent posts
Plot leader	If data not public why?	Plot placement: u Representative e GRTS u Random u Stratified Random
	Source of coordinates □ MAP ■ GPS	□ Transect component □ Systematic (grid) □ Capture specific feature □ Other
	GPS location in plot $x=0$ to 5, $y=-1,0,+1$):	NOTES: Include Layout (any unusual shape details). Location (directions and landscape content). Rationale (why here) and Vec Characterization (description of community
	x = y = (base of plot x=0, y=0)	dominants, strata, BROWSE). Additional notes in space on back
	Coordinate system: Coord. Units	Lavout: Ux L
** Roles: Co-lender, Asst., Guide, Owner, Taxonomist, etc.	■ Lat/Long □ UTM □ StatePlane ■ deg □ deg min	5 5
PLOT NOT SAMPLED:	□ Other (specifi) ■ m □ ft ti	
□ Perm. water □ Paved □ Slope □ Safety	Datum: # NAD83/WGS84 □ NAD27	Unit of April 2 april 2 april 2 april 2
SAMPLING QUALITY*	Latitude:	
Effort Level: subjective evaluation of	Longitude:	Kationale GRTS pt. We come only on it was
<u>,</u>	Coord. Accuracy: am an +-	because the the area got really just
D Accurate plots may still provide	GPS File Name:	and constituting but of an hamilacit stopping
o Hurried good data	Plot size for cover data: (hectares)	Mark DR H 11 CR STOOPER Dies
TAXONOMIC ACCURACY	□ Stems not sampled on this plot □ Stems absent	
high modera. low not smpl	□ Stems present Plot size stems: (ha)	
	Depth: (1-5):	
bryo	Intensive modules: 2, 3, 8, 9 (EDIT IF MODIFIED)	
lichen	Camera No.:	
TAXONOMIC STANDARD	Photo Nos.:	
Authority: G&C Pub Date 1998		
Minimum required fields in Bold and Underlined	*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide	nd CVS Field Guide OVER

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	Assessment Progra	ım - Background Data	Sheet	Ø	(2) Cleveland Metropa
Project Label:	PCAP	Project Name:		Plot No.:	Page 2 c
CLASSIFICATION		STAND SIZE	DISTURBANCES		
(FIT = excellent, good, fair, poor; CONF = high, med, low)	Fit and Confidence		type* severity** yrs ago	noitdissed question	
Hydrogeomorphic class (WETLANDS ONLY):		□ >1,000 x plot size			
□ DEPRESSION	Fit= Conf=	□ > 100 x plot size	Natural		
□ IMPOUNDMENT □ Beaver □ Human	Fit= Conf=	□ 10-100 x plot size	Fire		
□ RIVERINE □ Headwater □ Mainstem □ Channel	Fit=Conf=	□ 3-10 x plot size	Cut		
□ SLOPE (ground water hydrology or on a physical slope)	Fit=Conf=	□ 1-3 x plot size	Animal		
□ FRINGING □ Reservoir □ Natural Lake	Fit= Conf=	□ < plot size	Other		
□ COASTAL (specify subclass)	Fit=Conf=		**L=low, ML=med low, M=med,	L=med low, M=med, MII-med high, II-high, VII-very high	every high
BOG (strongly, moderately, weekly ombrotrophic)	Fit= Conf=	<u> </u>	Current Land Use:		
Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):	NLY):		Former Land Use:		
□ FOREST □ swamp forest □ bog forest □ forest seep	Fit=Conf=		HYDROLOGIC REGIME*	E*	
□ EMERGENT □ marsh □ wet meadow □ open bog	Fit=Conf=	SALINITY*	ים Upland (seldom flooded)	Intermittently flooded	looded
□ SHRUB □ shrub swamp □ tall sh. bog □ tall sh. fen	Fit= Conf=	□ Saltwater	□ Intermittently/seasonally saturated	ted	ly flooded
MODIFIED NATURESERVE CLASS*		Brackish	(seldom flooded)		oded
CODE (on separate form):	Fit=Conf=	□ Fresh	Permanently/Semipermanent. saturated	aturated 🛮 🛭 Tidal/Seiche flooded daily	oded daily
		□ Upland (n/a)	(dry <1/yr, seldom flooded)	☐ Tidal/Seiche flooded monthly	oded monthly
COMMUNITY NAME:		(by default unless plot is a Occasiona wetland)	Occasionally flooded (<1/yr)	Tidal/Seiche flooded irregular	oded irregular
			•	□ Unknovn	
HOMOGENEITY	Additional notes & diag	rams: (Representativeness	Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)	tatus, maturity, etc.)	
□ Homogeneous			100		
□ Compositional trend across the plot					
Conspicuous inclusions					
□ lrregular/pattern mosaic					
	77				