	TROPARKS Plant Community Asso PCAP		Quality Control Form
Project Label:	PCAP		: 1000 Date Sampled: 0/20/13 Lead: 110
			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	eted	Ø N	
Site sketch made on	1:3000 map?	Ø N	
Check cover page	X-axis Bearing of plot recorded	Y N	
	GPS coords. Recorded	Y) N	
	North direction recorded	(Ŷ) N	
	Photographs taken?	Ø N	
92	Relocated Pins Mapped	N Q	
Plot No., Date agree	ment on all pages?	Ø N	
Header data complet	ed all pages?	(Y) N	
Cover classes record	ed in all Intensive modules	(V) N	
Browse Level By Sp	ecies	N (V)	N N
Woody stem quality	control check	(Y) N	Check every line and cross check with the Tree Cover Sheet
nvasive plant qualit	The state of the s	YN	NA
Ash trees mapped		(Y) N	- C
Completed Forest Pe	st/Pathogen Datasheet	N (X)	
Cover by Strata? (co	nfirm cover type)	Y N	
	ed with matching plot #.	(Y) N	
Cross check 2010 in		Y N	Highlight any changes from 2010 information
Vouchers labeled on	datasheet with initials and number	N (V)	
Vouchers labeled on	collection bag	N (S)	
Pink flags removed		(V) N	
Data sheet QA befor	e leaving site?	(Y) N	
Common equipment	PROFES TO SECURITION OF THE PR	YN	
Data sheets scanned		DS 612	Enter date to left
Final data shects sca			Enter date to left
Buffer Widths meas		Y N	
Web Soil Survey	are that are the same and the same are the s	YN	
Voucher Location	Refrigerator	YN	AC 3000 (458)
# vouchers collected)	Press (#)	1 3	Enter number to left
	100 - 100 days	Y N	at health countries at the second
CKM093-	Identified	YN	1824 3 (2) Tr
110	Mounted	YN	
	Thrown away	YN	(e) =

GRTS point verifi	cation: Is plot sampleable?
□ 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

2015 Collect Soil For Sam

□ Tidal/Seiche flooded irregular

□ Occasionally flooded (<1/yr) (dry <1/yr, seldom flooded)

Upland (n/a)

- Brackish - Saltwater

a Temporarily flooded

(e.g. wind, storms)

□ Tidal/Seiche flooded monthly □ Tidal/Seiche flooded dailly

□ Semipermanently flooded

Intermittently/seasonally saturated

SALINITY*

(seldom flooded)

HYDROLOGIC REGIME*

a Compositional trend across the plot

□ Irregular/pattern mosaic

□ Conspicuous inclusions

HOMOGENEITY

Red Maple + Red Oak

Mixed Forest

Upland (seldom flooded)

o Permanently flooded

□ Permanently/Semipermanent, saturated

□ Intermittently flooded

Former Land Use:

Charland Humpark

DISTURBANCES

Human

Fit=__Conf=__

Project Name: 02 MS2015

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Project Label:

MODIFIED NATURESERVE CLASS

CODE (on separate form)

pose Claricularis Cpen-like the C- Swani New York 200 V. veco guston bland like CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet
Project Label: PCAP Project name: 02 M \$ 2015
Total modules: 10 Intensive modules: 1 Cleveland Metroparks Strata - Cov. entire plot 2.9 S H (F)(A) Br 9 3 Sassatras Prumus serotina Fyrus 50 GARREONS 20. Acer rubrum Acer 50 Arisa ema Traxious pennsylvanica Podophyllum pettatum Toxicodend Fraxinus sp. (spedling Moss sp Snep S S describe amount of browse per species over Br = Browse Level. Use cover classes to burnum acertolium NONS 40. V550 DATE CANTON OF arand tolia rotunditalia Sylvatica albidum Species entire plot caesia Kighy llum Ver They ton radicans arex smann seed in (seed)(na) spect ling CKS 306 C %unveg. ground (bare sol %unvegetated open were intensive module: Estimate for each CKM095 5-15 %unveg. litter (bare litter) CKM OS6 CKM097 CKMD93 CKMO94 Voucher # %open wate 1 N N W N 7 N N ş ş 7 2 2 4 22 depth Plot configuration: 2 x 15 U N Ş ş 2 mod comer N W 14 8 N 1 L 7 2 1 2 2 0 W 9 N N Plot no .: 1035 N w W mod 8 8 ş (LI) mod comer W 0 N W od 8 COV W F N 0 O N N mod conner depth N Plot area (ha): ş ş W 7 79 I N AGO 5 N 8 00 depen mod 9 ğ depth depth

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Caryo 50.

3850 130 C

- Chea Hice ars ans shippidg when pass Collanda Cleveland Metroparks Strata - Cov. entire plot Total modules: S H (F)(A)Br 4 7 4 4 6 Rubus ROSA MULTIFLORA BERBERTS THUNBERGE Carex RHAMNUS Euonymus oboratus Asteraceae Janee at Poaceae +mpatiens SALAIGSBO Prenanthes sp Cotentilla Mitchella repens Polygonalum biflorum for the nor issus quin que to li Ulmus americana Lind erg liola sp describe amount of browse per species over representations Maianthemum racemassum Megea ons era ornus . Br = Browse Level. Use cover classes to I've dandana tul 0 hi spidus lutetiana Species entire plot MARCHARM caroliniana FRANGULA MARCKIT florida arozanga Simplex Ortera MACE X Intensive modules: %unveg. ground (bare soll) %unvegetated open were intensive module: Estimate for each %unveg. litter (bare litter) CHHIP CKMDAG CKMORE CK310 Voucher # %open water 9 ٢ corner mod cov * depth cov , depth Plot configuration: 2 x 5 ą 8 N 2 COV 8 mod comer Q mod comer N N N N N 8 200 8 mod comer Plot area (ha): • 1 8 400 mod W N N N N h N 8 88 ş 8

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

Project name: 02 M S 20 15

Plot no.:

1035

Page

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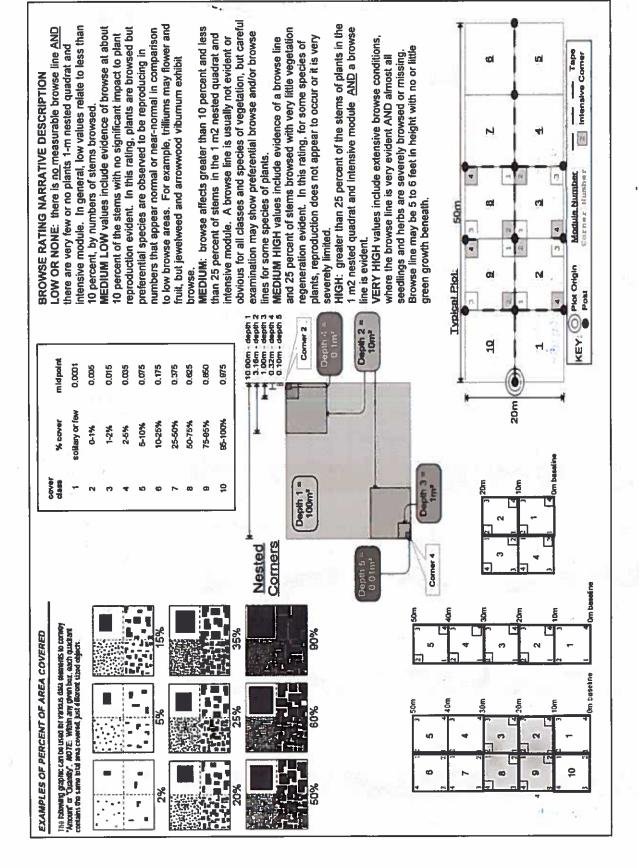
Project Label:

7 tests

-Glyceria

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- Harry The Tal TOS Att umb -laxiplor You-like train DAMMAD teavis 少りいり money ward Strata - Cov. entire plot Cleveland Metroparks S 7 10 4 7 H (F)(A)/Bc/5 logecae Ramunculus Asteraceae +2 UKA Dicot Danthonia spicata Carex DACTYLIS GLOMERATA Asteraceae * a Cratacque sp Unocled sensiblis Carex Vulu Apocyaum xperaceae + scripus Allium canadense LIGUS TRUM VULGARE Lasex BLY SIMACHTA describe amount of browse per species over ed stricta ASSA UNCUS TARAX ACUM OFFICE MALE Br = Browse Level. Use cover classes to Species entire plot STANDIATIS BOOK OUN - JULY SOO hispidus 100 is Var ma Jak chicot n Intensive modules: H Plot configuration: 2×5 %unveg. ground (bare soll) Estimate for each intensive module: %unvegetated open water %unveg. litter (bare litter) CKM 100 CKMIIG CKM 109 SOI WAS CKM106 CKM 1045 CKWIOH CKMIOZ CKIMIO Sawas Voucher# %open water depth depth Ą cav i depth N depth Nemoco Ş 8 mod comer ş 8 DQ. v SQ. 8 mod Œ H COTTIET S 8 i depth depth mod comer 8 ş depth T DOM 900 cov * depth 8 1 8 depan h ~ depay N N 2 N N 2 2 N N 2 N

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

Project name: 02 M 5 Zo 15

Plot no.: 10 3 5

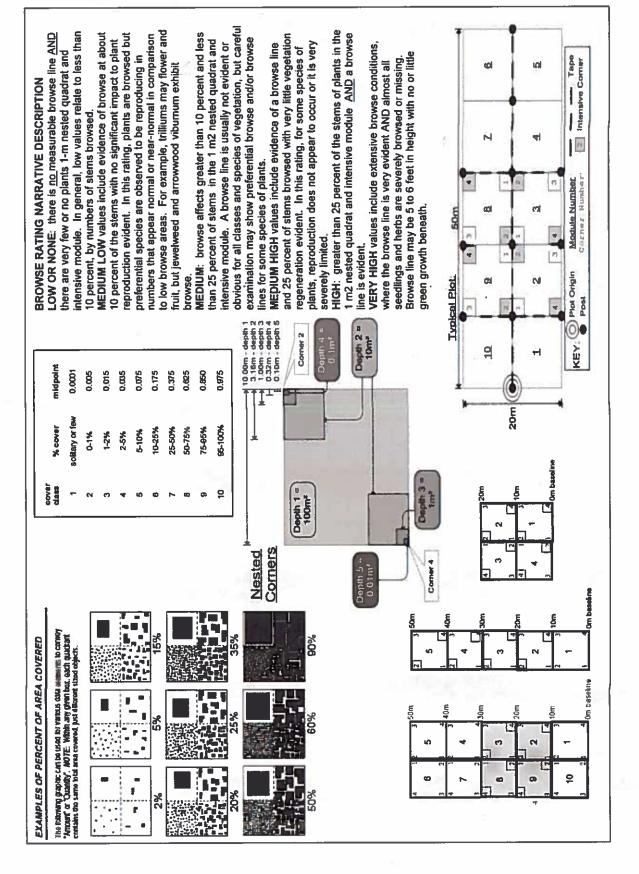
Plot area (ha):

Page

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Total modules: Project Label:

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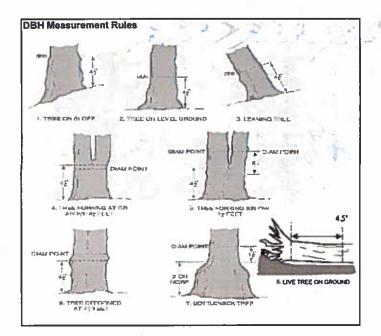
Project Label:	CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Project Label: PCAP Project name: 02M52015 F	essm	ent Program Tr	OZ/	r Data	Sheet 1	t Program Tree Cover Data Sheet Project name: O2M S2O\S Plot no.: 103 S	Page of
% COVER			Prensence of tree mod	mod med	3	ğ	2	
Strata - Cov. entire plot	ot		species (X)	i	S	00	R	
T Br	Species	ဂ	Voucher#					THE SECTION
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6	Querius rubra	-		X	×	X		
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ent Program Tre Project name:	Prensence of tree mod	Voucher #			-					:					:						,			
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CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Project Label: PCAP Project name: PCAP		Species																						
CLEVELAND ME Project Label:	/ER	T Br																·						2
CLEVE Project	% COVER	- Pinging -																						

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet MARY SOUTH Fraking Pros ACC YCOYUM Explain subsample (additional room on back) CHOCUS (COZ STANDONG DEAD STANDAG THE des Francis Tanas Individ ACEY STEPHENCYNO Sassafras alloid mi by rotundifairo 24 y south Gerberis BOX - NOS Broden DHANNE DEST ndera lanzon COTTON OT A STORY 1550 Sylvichich BUNDUNG SHAMES OCCUPE TO species 7 Project Label: 3 INCINCA DICO. voucher# browsed 0-1.4m Sterns or super % sub Project Name OZ + 5 Z D 5 Shrub size class (cm) woody stems >1.4m 1-<2.5 americand blane oldn • • :: Plot No.: 1035 • • . 15 - <20 20 - <25 Page: 25 - <30 30 - <35 잌 Spieweland Netroparks ä 46.0 41.4,780 >40 (record each tree) = STATE OF THE STATE

3aCM PCAP Natural Woody Stern Data Sheet ver 2.0.xls last revised 5/29/2012 j/m

Natural Resources Management FORM NR/2010-03a



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.
- 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.



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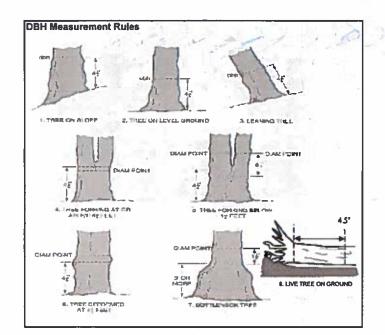
E

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 P COMME HUNCH STANDAY, DE Explain subsample (additional room on back) SUSTANCE SUPPLY HOMINIS DONS LINEDIA BURGE THOS GENERAL STATES 大気といめ tras orandifolis Aby rubrum Ctry Coun Fias orandisdiz FOOUX OCCIDENT SOM MAKE BOWNE SE TOXIC TO TOXIC MAKINUS 3 io strain yulotue was the PARTY SINGHOU Project Label: voucher# browsed storns 0-1.4m 01 or super % sub Project Name: 0245705 shrub size class (cm) woody stems >1.4m 2 × : 2.5-<5 Plot No.: 11355 0 10 - <15 15 - <20 a . 20 - <25 Page: 2 25 - < 30 30 - <35 Spiereiand Netroparts 35 - <40 5 5.8 54.0 42.5, 42.3 >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













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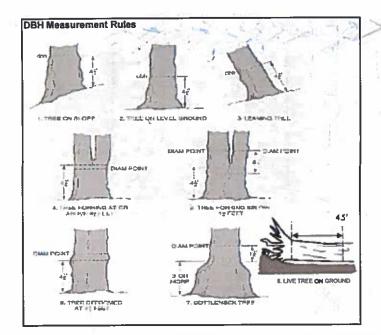
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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Explain subsample (additional room on back): 100537, floor ASOMICION ASON STANDING THE province Aprophania **XUNSBBOILT** STATE OF THE MOZUBA PADASA Handing dead CHANGE OF STREET NORA Barrow Whenka MOSTOR るとうと en and 2000 SW S Box Project Label: Too to * 0-1,4m Sterns or super dus % Project Name: 02457015 shrub size class (cm) woody stems >1.4m 3 1-<2.5 . 0.0 2.5-<5 Plot No.: 1085 5-<10 4 . 10-<15 15-<20 20 - <25 Page: 25 - < 30 30 - <35 Gloveland Metroparks 35 - <40 ö NANT TO SEE 3.04 p.84 >40 (record each tree) =

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

Natural Resources Management FORM NR/2010-03a



Woody Stem Deer Browse

Record the number of slems/plants between 0.5-1.0 meters tall that exhibit evidence of this years deer browse.

Record using the tally system from 1 to













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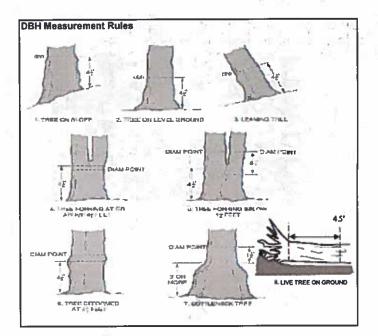
E

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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet ABY MORUM 1 interiorna British rotuno altrustupe Explain subsample (additional room on back) BOHITCH POS HININGS polyperal STANDA DES mitax randivara ととと Project Label: voucher# # sterns prowsed 0-1,4m or super % sub Project Name OT MS 7015 dumps shrub size class (cm) woody stems >1.4m 7 1-<2.5 2.5-<5 Plot No.: 1035 2 00 10-<15 0 15 - < 20 0 20 - <25 Page: 25 - <30 • 30 - <35 Gereland Metroparks 35 - <40 ಕ 17.0,45.6,0.8gd >40 (record each tree) 15h 100 = TVIDE



Woody Stem Deer Browse

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Natural Resources Management FORM 2010-04a

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey Cleveland Metroparks GPS Tier 1: Early detection/ Rapid response Presence SW NW Presence NE SE X: yes Japanese stiltgrass Microstegium vimineum Ranunculus ficaria Lesser Celandine Cynanchum louiseae (vine) Black Swallow-wort (wetland) Flowering Rush Butomus umbellatus Heracleum mantegazzianum **Giant Hogweed** Tier 2: Assess as Needed # of Plants comments # of Plants NE SE SW NW 1: 1-10 Acer platanoides Norway Maple 2: 11-50. Tree of Heaven Ailanthus altissima 3: 51-100 Japanese Honeysuckle (vine) Lonicera japonica 4: 101-1,000 Lythrum salicaria (wetland) Purple Loosestrife 5: >1,000 (G-cover) Bishop's Goutweed Aegopodium podagraria Celastrus orbiculatus (vine) Asian Bittersweet Hedgeparsley Torilis sp. Poison Hemlock Conium maculatum Common Buckthorn (shrub) Rhamnus cathartica Berberis thunbergii Japanese Barberry (shrub) European Alder Alnus glutinosa Dipsacus laciniatus **Cut-leaf Teasel** (shrub) Autumn Olive Elaeagnus umbellata Lonicera maackii Amur Honeysuckle (shrub) **Euonymus fortunei** Wintercreeper Tier 3: Presence is of Interest # of Plants comments # of Plants NW SW NE SE (G-cover) Llly of the Valley 1-10 Convallaria majalis 2: 11-50. (G-cover) Crown Vetch Coronilla varia 3: 51-100 Eleutherococcus pentaphyllus Five-leaf Aralia (shrub) Japanese Pachysandra 4: 101-1,000 Pachysandra terminalis (G-cover) 5: >1,000 (shrub) Philadelphus coronarius Mock Orange Pulmonaria officinalis (G-cover) Lungwort Wineberry Rubus phoenicolasius Iris pseudacorus (wetland) Yellow Flag Iris Ornithogalum umbellatum Star of Bethlehem (shrub) European Cranberry Viburnum opulus var. opulus Viburnum plicatum Doublefile Viburnum (shrub) Tier 4: Widespread and abundant Presence comments NE SE SW NW # of Plants Garlic Mustard 1: 1-10 Alliaria petiolata (shrub) Common Privet 2: 11-50. Ligustrum vulgare 3: 51-100 **Bush Honeysuckles** (shrub) L. morrowii, L. tatarica 4: 101-1,000 Phalaris arundinacea Reed Canarygrass 5: >1,000 (wetland) Phragmites australis **Phragmites** Japanese Knotweed Polygonum cuspidatum Glossy Buckthorn (shrub) Frangula alnus Multiflora Rose (shrub) Rosa multiflora Typha angustifolia, T. x.glauca Cattails (wetland) Canada thistle Cirsium arvense Dipsacus fullonum Common Teasel

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

(G-cover)

Hesperis matronalis

Vinca minor

Dame's Rocket

Periwinkle

SRE_CM PCAP Forest Pest and Pathogen Data.xls last revised 6/10/2015 jjm

CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Sheet Project Name: ヘンナイソン人 Plot No. Page: 1 of 1

E	Explain subsample (additional room on back):	on back):	ľ									j.		9	
			% sub	#	size class	size class (cm) woody stems >1m	dy stems	m							ال
			or super	shrub	_	~	ω		U I	o '	7	Ć#	•	5	
mod#	species	voucher#	sample	dumps	<u>Z</u>	1-<2.5	2.5-<5	5-<10	10 - <15	15 - <20	20 - <25	25 - <30	15 - <20 20 - <25 25 - <30 30 - <35 35 - <40 >40 (record each tree)	35 - <4	9
	MOTO AHOCK	DESM	1400							,					
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Strata	Total %
Tree	
Shrub	
Herbacous	

-Beech (Fungus) -Asian Longhorned Beette -Hemłock (HWA) -Other Forest Pest or Pathogen	* Write None Present if no evidence:	vidence:
	-Beech (Fungus)	-Asian Longhorned Beetle
	-Hemlock (HWA)	-Other Forest Pest or Pathogen

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet Sa,
Project label: PCAP Project Name: 0775 205

(P Gleveland Metroparks

Page: 1 of 1

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

Soli pit module # ____(one per entire plot)

20 CFS 9 matrix color hydro. cond *** mid roots ottle color dox features** ydr. cond_*** id roots dox features** Mitta color bottle Attle color SMD SMD < 4

refer to texture classes on revene side

e.g. hydrogen sulfide odor, gleying, etc. es: Include evidence of earthworms (worms, undated 9-saturated M-model D-day

3 - No marins of Mod Z-No costing

Auroma Soules out-8

9 - NO WOYMS /CXST IN S 8eCM PCAP Sole_Crown cover_Landown_Standing Blomman, State User 3.xts last revised 64/2012 cah

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

to Impermeable surface n Well drained a Somewhat poorty dr. a Very poorty dr. Soil Series Source: Ohio Soil Survey Dopth to rest. Layer: oil Seres/Type: Excessively dr. 3,8,9 composited ell Collection Medule Hertons (A, B, C) run Material: b Soil Survey Into diorn type: a Somewhat excessively Moderately well dr.

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

	7	1	V	
0	8	2	N	
らい	9.0	4.0	1,6	organic depth
7	Q'D	8.0	9.9	2 litter depth (cm)
	1	1	l	water depth (cm)
1	1	١	(depth sat soil (cm)

EARTH SURFACE & GROUND COVER	CE & GROU	ND COVER	-
Underlying Earth Surface	h Surface*	Greend Cever	
Chara - 100%	percent	(Each < 100%)	percent
Historial	l	Course Woody Debris***	UT:
Mineral Soil	100	Fine Woody Debris****	工
Genvel-Cabble*	1	Litter	79
Boulder*	7	Duff (Ferm.+ Humas)	4
Bedrock	ı	Bryophyte- Liches	_
* Gravel-Cobble = 1/16-10*	1/16-10"	Water	0
**Boulder *> 10 in		Bare Soil	
*** >5 cm in diameter	neter	Road/Trail	G
		2	0

Sep. 8 COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13 (Floating)* rooted and floating or slightly emersed submersed, most plant mass below surface STATE OF Shrub Heb 퀽 **U**1 0 - . 5 Total Count (N) 88 しより 0

썷

a Deer	o Gravel	Bootleg unsanctioned	u Hiking sanctioned	o Bridle	a All Purpose	Турю	record type and cover for	WONE
		10				%Caver	8	7

o 1-3 x plot size 3-10 x plot state a > 100 x plot size a >600 x plot size STAND SIZE - 40-100 x piot size < plot size

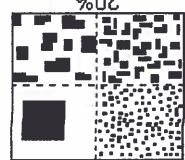
SEE BACK OF PAGE FOR "TYPICAL"STRATA
DEBCRIPTIONS. STRATA CAN VARY BY COVER TYPE.

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

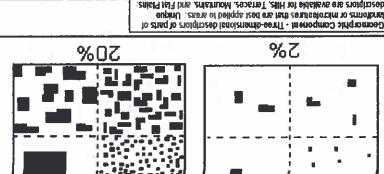
which form a ball but not a ribbon should be coded as loamy. both a ball and a ribbon should be coded as dayey; samples

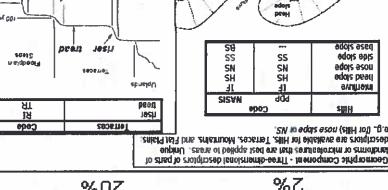
PERCENT MOTTLES (USE CLASS CODES):

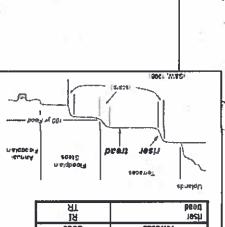
	Criteria: % of	epo	၁ ၂	Class
teq	Surface Area Cove	SISAN	COUN.	
	< 5	#	,	Fe/y
	2 to < 20	#] 0	Соштоп
	≥ 20	#	ш	Many

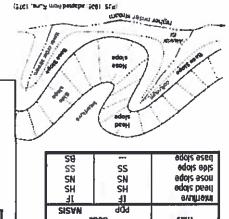






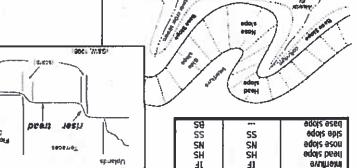






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Hitsiope - Profile Position (Hitsiope Position in PGP) - Two-dimensional descriptors of parts of thre segments (i.e., slope position) along a transect that up and down the slope e.g., backstope or

this is best applied to transects or points, not ofeas.

eqoistool

pockajobe

9= Not measured - make plot note

4= Coarse Sand 3= Sandy Z= Clayey 1= Loamy Organic =0

sponicien

MUUUINS

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

INTERMITTENTLY/SEASONALLY SATURATED. Dry at least once per year. Surface water is seldom present, but substrate is saturated UPLAND: Not a wetland. Very rarely flooded.

PERMANENTLY/SEMIPERMANENTLY SATURATED: Dry less than once per year. Surface water is seldom present, but substrate is to surface for extended periods during the growing season.

saturated to surface for extended periods during the growing season. Equivalent to Cowardin's Saturated modifier.

characterizes flood-plain upper terraces. OCCASIONALLY FLOODED: Surface water can be present for bhef periods during growing season, but not in most years. Often

surface. Often characterizes flood-plain levees and lower terraces. Equivalent to Cowardin's Temporary modifier. TEMPORARILY FLOODED: Surface water present for brief periods during growing season, but water table usually lies well below soil

developed for use in the and West for water regimes of Playa lakes, Intermittent streams, and dry washes but can be used in other parts of seasonal periodicity, inundation is not predictable to a given season and is dependent upon highly localized rain storms. This modifier was INTERMITTENTLY FLOODED: Substrate is usually exposed, but surface water can be present for variable perhods without detectable

Intermittently Flooded modifier. the U.S. where appropriate. This modifier can be applied to both wetland and non-wedand situations. Equivalent to Cowardin's

is normally saturated when water level drops below soil surface. Includes Cowardin's Intermittently Exposed and Semipermanently Flooded SEMIPERMANENTLY FLOODED (exposed <1/year); Surface water persists throughout the growing season in most years. Land surface

PERMANENTLY FLOODED: Water covers the land surface at all times of the year in all years. Equivalent to Cowardin's "permanently modifiers.

DNKNOWN: The hydrologic regime cannot be determined from the available information. "bebooft

Urces Mangement FORM MR/2010-06b

Back Page_Ver 1.5.xls last revised 6/9/2011 jim Nali



SaCM PCAP Plant Cover_Earth Surface Data sheet Page 1_ver 3.rte last revised 9/29/2012 ceh

NOTE: tussock and hammocks are counted in BOTH nested quadral corners but counts are eggingated.

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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

Module #	C7	Corner	Corner
100			
The second second			

CLASSIFICATION		
(FTI = excellent p Fit and Confidence		
Hydraetemerahik class (WETLANDS ONLY):		
a DEPRESSION	7	Conf =
a IMPOUNDMENT to Beaver to Human] 	Conf
DRIVERING offeadwater of Mainstern of Channel		Conf=
E SLOPE (pround water hydrology or on a physical sloy)	1	Conf=
o FRINGING o Reservoir o Natural Lake	Fig.	Confi
a COASTAL (specify subclass)	Fig	Conf=
a BOG (strongly, moderately, weakly ambrotrophic)	Fite	Conf=
Ohio EPA VIBI Flant Community Class (WETLANDS ONLY):	KAT)	
o FOREST o swamp forest o bog forest o forest seep		Conf.
th SHRUB to shrub swamp to tall sh. bog to tall sh. fen	Film	Conf=

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

lapa 1 = sight elevational grade across module (hill) ets for microhabitat feetures. Select one or select two and average the score.NOTE: If mod falls on a slope autom Slope 2 = falls on slope -20° idically gets ranked besed on steepnese (1-3) to begin + any feetures present Siope 3 = maximum steepness that can be safely sampled ~45*

- feature is absent or functionally absent from the wetland
- teature is present in the wedlend 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

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		<u>2</u> a	It	ヹ ゙゙゙゙゙゙゙゙゙゙	To	COVERT		+	i			,
	(b	C	O	O	(count)	ixim	depth 3		tussocks	no. of	
		0	00	0	0	(count)	3,16x3,16m	depth 2	uplands (Tip-Ups)	hammods	bo. of	
		72	7	Ö	23	(count)	10x10m	depth 1		depressions	по. пасто.	
NATIONAL PROPERTY.		16	37	67 65	10	(count)	I Ox I Om	depth t		(2-12 cm)	ewid	C.W.G COU
I		-		0		(count)	10x10m	depth I		(12-40cm)	cwd	K FOT IMPLIES WHAT
		0	0	O°	C	(count)	10x10m	depth I		>40 cm	N M	CW.C COUR for precess and maniful in language
2		7	1	3	1	(rank)	10x10m	depth I		interspers.	microhab.	9
276						(rank)	10x10m	SLOPE			microhab.	

* Landform Index (position within tandscape) ** Terrain Shape Index (site microtopographic shape)

+270 degrace

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+315 degrees

N.

+ I BO degrees +135 degrees

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+45 degrees +90 degree

H

LFI is angle of plot to the horizon. TSI is

Al aspect

+225 degrees

WS

recorders eye to eye of person

standing -10 m

TSI measure

angles formed by

angle from

CROWN COVER (DENSIONETER): Male 4
readings per module facing N. S. E. W. Place dot count

corresonant	- Speck	H.	4 dots per gno square]-
Medale		z	cn .	tel	*
2 1	10	3	_	-	5
3			32	3,3	0-
	~~	7	23	32	24
9	10	1	_	000	_

Plot No.:

McNAB INDICES (degrees) + for up - for down

TRILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD]

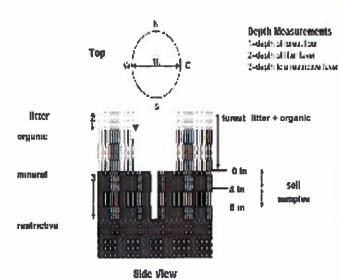
@ Glaveland Metroparts Page: 1 of 1

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.



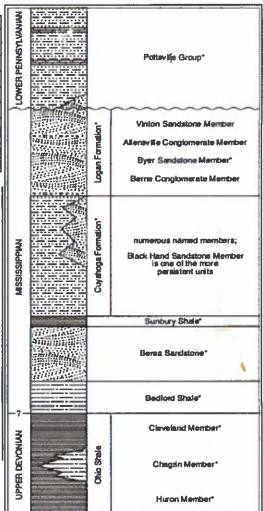


FIGURE 3-20.—Generalized section of Upper Devonian, Ministripuan, and Lower Pennsylvanian formations in northeastern Ohio Asteriaks indicate units that are feasiblerous. This composite section represents about 400 meters of rock exposed across the area. The section is not to cale, but the thicknesses indicated are proportional. The term "Wavetty" is used in the older linearities to refer to Ministrippian rocks in Ohio. Some geologists use the European norm "Carboniferous," which encompasses the Afississippian and Pennsylvanian Petrods of the U.S. Many turns 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 disconstitutions. See Hyde (1953), Hoover (1960), and Colins (1978) for more information on Ministrippian rocks in Ohio. See figure 3-18 for explanation of rock types.

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