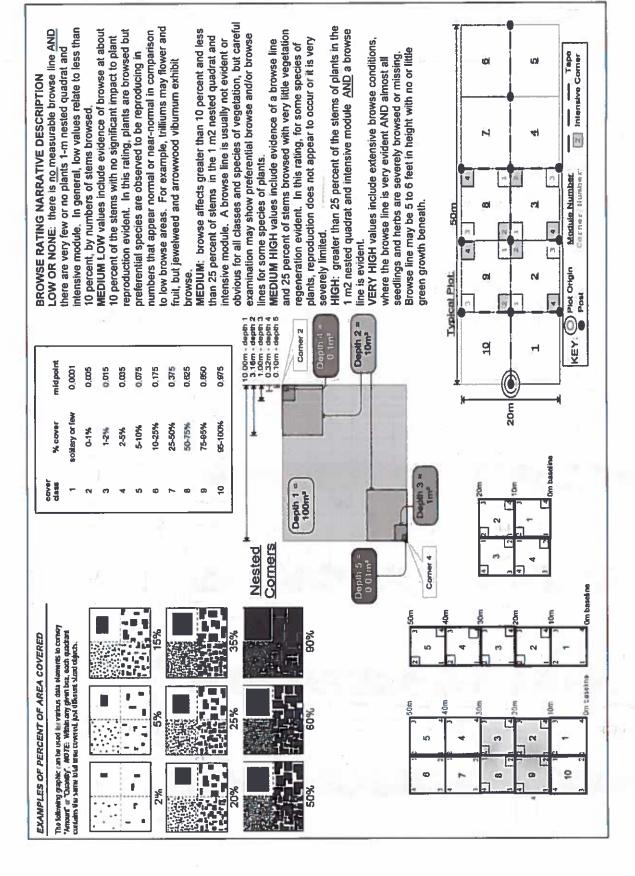
Project Label:	РСАР	_ P	lot No	3365 Date Sampled: 8-11-15 Lead: 542
- W			_	Comment required if item answer is NO
Parking/Access outsid	e of Park Boundaries:	Y	0	If yes, write details in Comments section below
Field journals comple	ed	9	N	
Site sketch made on 1	:3000 map?	8	N	
Check cover page	X-axis Bearing of plot recorded	(3)	N	
	GPS coords. Recorded	()	N	
	North direction recorded	GK	N	7-17-
	Photographs taken?	(x)	N	
	Relocated Pins Mapped	Q	N	
lot No., Date agreem	ent on all pages?	0	N	1 22
Header data complete	d all pages?		N	
Cover classes recorde	in all Intensive modules	9	N	
Browse Level By Spe	ics	3	N	12 / / / / / / / / / / / / / / / / / / /
Woody stem quality c	ontrol check	(v)	N	Check every line and cross check with the Tree Cover Sheet
nvasive plant quality		Y	N	NJA
Ash trees mapped		3	N	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Completed Forest Pes	/Pathogen Datasheet	0	N	
Cover by Strata? (con	firm cover type)	0	N	
Soil samples collected	with matching plot #.	Y	N	NA
Pross check 2010 info		(9)	N	Highlight any changes from 2010 information
Vouchers labeled on d	atasheet with initials and number	(Y)	N	
Vouchers labeled on c	ollection bag	0	N	
Pink flags removed		0	N	
Data sheet QA before	leaving site?	0	N	
Common equipment r		Y	N	
Data sheets scanned?			er- n. n. e.	Enter date to left
Final data sheets scan	ned?			Enter date to left
Buffer Widths measur	ed?	Y	N	
Web Soil Survey	1 - A - C - A - C - C - C - C - C - C - C	Y	N	
Voucher Location	Refrigerator	Y	N	
# vouchers collected)	Press (#)			Enter number to left
12	Drier	Y	N	
111	Identified	Y	N	
5Kb .721	Mounted	Y	N	- '50
, 0	Thrown away	Y	N	
	[* *** V T ES WITW]		. 1	<u> </u>
CDTS salet made	ion: Is plot sampleable?			
Yes	Li Cara Maria Maria Maria	- 0 :- 0 :: C	The state	SALE SALE SALE SALE SALE SALE SALE SALE
	Original GRTS point is sampleable		7,72	90 2m
□ No	Original GRTS point lands in a non- Point falls in a water (i.e. river.		area (f	iii in category below)
	Managed mowed area (i.e. golf		area riel	n-of-way)
	Paved area (i.e. parkinglot, road)	warse, prente	aron, HE	a variety
	☐ Unsafe to sample (i.e. steep slop	c)		
	Other			
Additional Comment	s:			

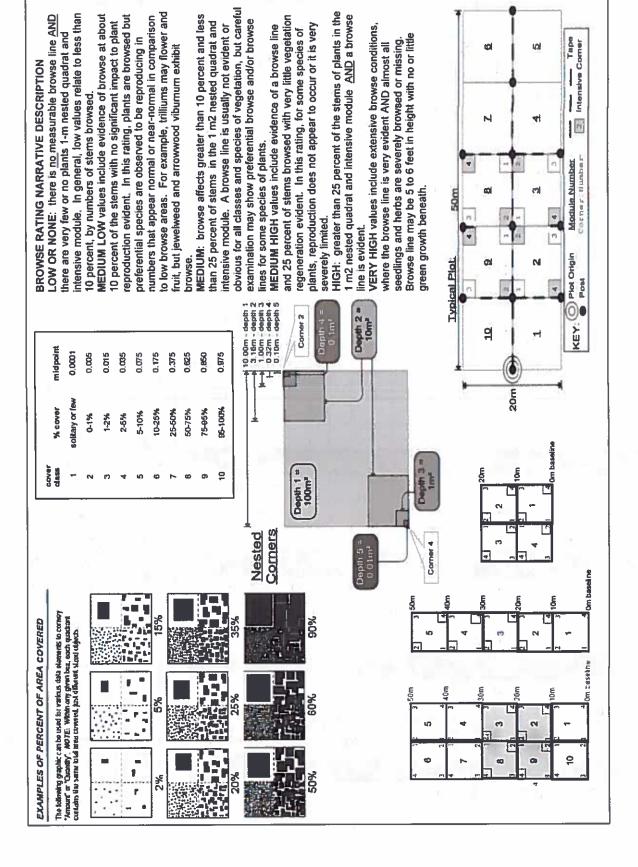
1aCM PCAP Background Data Sheet Page 1_ver 3.0.xls last revised 5/29/2012 ceh	Authority: G&C Pub Date: 1998 Minimum required fields in Bold and Underlined	lichen	high modera. low not smpl vascul.	TAXONOMIC ACCURACY	Ethert Level: subjective evaluation of Very thorough how much effort put into sampling. Hurried plots may still provide and	SAMPLING QUALITY*	** Rotes: Co-teader. Asst., Guide, Owner, Taxonomist, etc. PLOT NOT SAMPLED: © Other	t Chauss	- 12	Eysenbuch	End date (if > 1 day): / / Party Role**	Level 5 (nested corners sampled) Date (mm/dd/yyyy): 8/11/2015	Plot No.: 334-S Devel 4 (no nested corners sampled)	Plot Name: The proposal		CLEVELAND METROPARKS Plant Co
¥3.0	□ Random □ Stratified Random □ Transect component □ Systematic (grid) □ Capture specific feature □ Other *Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide	Plot placement: GRTS a Representative	Intensive modules: 2, 3, 8, 9 (EDIT IF MODIFIED) Camera No.: 1 C	of plot:	GPS File Name: 3365 A Plot size for cover data: 1 (hectares)	749H	GPS location in plot x=0 to 5, y=-1,0,+1): $x = (x^2 + y^2) = (x^2 + y^2)$ (base of plot x=0, y=0)	Datum: NAD83/WGS84 DNAD27	M 🗅 StatePlane	Source of coordinates MAP GPS Coordinate system:	Reason: If data not public why?	Check one: Qublic data Private Data	Landowner: CM Data Confidentiality:	Local Place Names: Bille Truit	State: OH County: (U) 4 hOgo	CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet
-8	2 20	Trickey,	Yes Cher:	Rationale: GRTS pt	to plat surranded by bile trail	Location: Park at the e	Nob	ARG.	ž	NOTES: Include Enyout (any unusual shape details), Location (directions and landscape content), Rationale (why here), and Veg Characterization (description of community: dominants, strata, BROWSE). Additional notes in space on back.	Diagram O'Net origin & GPS logation O	#2 -	#10 #9	2.10 P3 4 P3	Bille Touil	
MASH SOLD LINGS, SA partners, Ramps Natural Resources Mangement FORM NR/2010-018	rub: Sugar + Red Maple OVER	Tilia, white oak	Oak Sugar Marker		ded by bile trail	ntrance of Royalliew	of the most sta	E Boos in tree	Pin at 50m not found due	ocation (directions and landscape tion (description of community;	mioto taken, location of high direction permanent posts	HALL OC	#7 #6			Page 1 of 2

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	munity Assessment F	Program - Backgro	und Data	Sheet			7 /50	Ciumium Muture
Project Label:	PCAP	Project Nam	Project Name: OL 195 ZWIS	51075		Plot No.:	Plot No.: 006	Page 2 of 2
MODIFIED NATURESERVE CLASS*			DISTU	DISTURBANCES				
CODE (on separate form):	Fir Conf=		type*	severity**	yrs ago % of plot	6 of plot	description	
7 2			Human	M	25	S	Trail -olc	-
7			Natural					
COMMUNITY NAME:			Fire					
Bosel - March	7	_	Cut					
	•		Animal	нш	٥	90	Browse	
HOMOGENEITY			**L=low.	ML=med low	. M=med, l	√H=med h	**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high	cry high
	□ Compositional trend across the plot		Current	Current Land Use:	Parle		į	
nclusions	mosaic		Former	Former Land Use:				
	HYDROLOGIC REGIME*	GIME*						1
	OUpland (seldom flooded)		□ Intermittently flooded	popoo				
SALINITY*	□ Intermittently/seasonally saturated		□ Semipermanently flooded	y flooded				
n Saitwater	(seldom flooded)	o Per	Dermanently flooded	oded				
o Brackish	□ Permanently/Semipermanent. saturated		☐ Tidal/Seiche flooded daily	oded daily				
o Fresh	(dry <1/yr, seldom flooded)		al/Seiche flo	☐ Tidal/Seiche flooded monthly				
Coulomb (n/a)	□ Occasionally flooded (<1/yr)		al/Sciche flo	☐ Tidal/Seiche flooded irregular				
	a Temporarily flooded	9)	(e.g. wind, storms)	ms)				
(by default unless plot is a wetland)		n Un	o Unknown					187
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)	ss of plot to the stand, succes	ssional status, maturity,	etc.)					
The comm	switz chang	Rs From	Beech	May	Jag 1	mods	1,10,2,9	B
mixed community	w Wolnub,	Basswood	1 1m	Whe Do	ا ال	hela	Shres, R	ed Oak
An old trail runs along the eastern portion of the plat	is along th	u loster	in pol	tion	5	the	plot	
*Spia Bush all dead uptop w/ respectation below	ad uptop w	1 reserveral	flor k	water				
Beech Look writ	rhied and a	Decel						

CLEVELAND ME Project Label: Total modules:	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Project Label: PCAP Project name: CLMS 20 S Total modules: / D Intensive modules: H Plot configu	nent Program Specie Project name: Intensive modules:	S Cove	ms 20 Plot c	Data Sheet 20 S Plot Plot configuration:	Plot no.			
Cleveland	Br = Browse Level. Use cover classes to describe amount of browse per species over	Estimate for each intensive module:			cov depth	mod corner 1 2 depth cov	mod corner mod corner 2 3 1 depth cov depth cov	med corner med corner med 2 2 3 1 3 depth cov depth cov depth	med corner med corner med 2 2 3 1 3 depth cov depth cov depth
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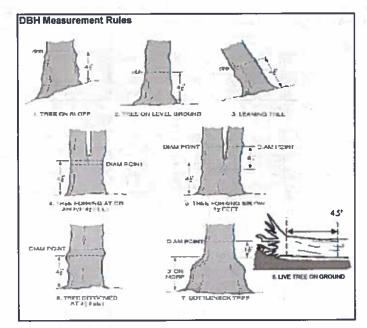


Strata - Cov. entire plot % COVER CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Project Label: 6 뫄 Carra Ovata Querous Rubra WURLOUS alba ACLY Saecharum Prishus tacus arandifolia Mar Pubrom Anya cocclipermis Strys virginians a struct s amori curs Species Sproting species (X) ? Project name: DLMSZOIS Plot no.: 3365 Voucher # Page _

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CLEV Proje	% COVER	Strata	—																			

Page of

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 2 PRUL SPECKBYUM 3 Jualans night 3 QUILLES LANGE 2 Fagus anneithir Linder or benzo in Ace whom OSTMY ~ VITAINIUM Viburum acritain Hansim deor Conyo overson Prints supprie Explain subsample (additional room on back): Pres southerson Standing Lead Evorymus obovatos Ostrya virginiana Starting But 2 Ogma viannam All south arism Viburoum accident Rubus allegarnionsis Aur succhalum Smilay afundifolia Tilio- purksicano payos alandifolio Project Label: PCAP voucher# 10 7 0-1.4m or super % sub Project Name: 02M52015 size class (cm) woody stems >1.4m 7 7 :: M コ 1-<2.5 11 2.5-45 X ... Plot No .: 3365 5-<10 10-<15 Page: 25 - < 30 30 - <35 으 Spieweland Metroparks 35 - <40 ö 40.7 1.44 >40 (record each tree)



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.
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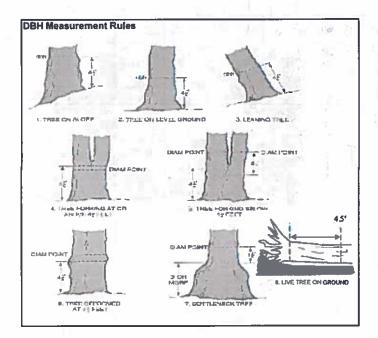
E

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Project Label:	PCAP		Project	Name:	Project Name: 02M52015	2102		Plot No.:	Plot No. 3365		Page:	2	of L	-
Explain subsample (additional room on back):	back):		h.					0.7	E					
		# stems	% sub	#:	ize class (cm) wood	size class (cm) woody stems >1.4m	1.4m						
mod # species c	voucher#	0-1.4m browsed	or super	shrub	<u>ያ</u> -	2 1-<2.5	3 2.5-<5	5-<10	10 - <15	e 15 - <20	7 20-<25	8 25 - <30	9 30 - <35	10 35 - <40
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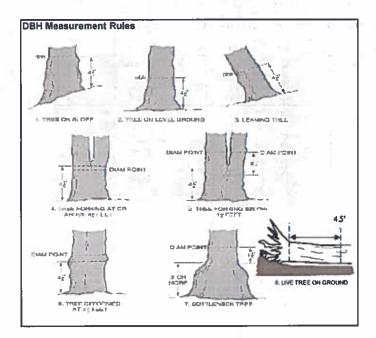
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Vitis aestivalus			Quercus hilbra	Overous so.	Fagus amindifilias	Conus overtes	Acer rubning	Quercus rubra	STANDING DEAD	Acer saccharum	Osma nyamiana	Fraxinus prinosuluanita	Parthenocisus quirque tolia	Ostava vicainidas	Prinus senatino.	Canua Cardifornis	STANDING DEAD	ACE Hilhoum	Aren Diccharum	Hamamatis virginians	Fronto pennsylvania	Grommus objects	Ostayo Vivainiane	species	Explain substitute (avaiwater room on waw)	Project Label:	CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet
												7	plia							S				voucher#	The state of the s	PCAP	Communit
				1								-									•	٠		0-1.4m browsed	# stems	1	Assessn
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			45.7																					<40 >40 (record each tree)			



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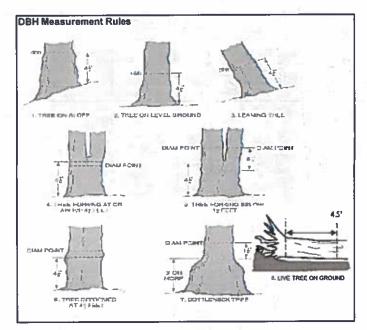
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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP Project Name: 02 MS 2015 Plot No.: 2 ٥ 10 Rubus pringylvannicus Phamnus franquia Fadus amodifishia STANDING DEAD Fagus quandinitid Fruxinos Explain subsample (additional room on back): Smilax rotundifica Quercus alba Vitis Destivatus STANDING DEAD Tilia americana Frakinus pennsylvanida Fagus arandithlia Lindera benzoin voucher# # sterns prowsed 9-1.4m 2 or super % sub sample clumps shrub size class (cm) woody stems >1.4m <u>2</u> • 1-<2.5 2.5-<5 Plot No.: 5365 10-<15 Page: 30 - <35 잋 (P) Geveland Metroparts 35 - <40 5 68.6 >40 (record each tree) =



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CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet Tree 20 21 19 10 22 않 22 16 35 25 7 12 CT ಚ 8 6 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) Fraxinus Project Label: PCAP Project Name: 02452015 167 (S) DBH Q Ash *Dead condition ASH Only holes E-6 Epicormic present Plot No.: 3305 Date: Whodpecker holes Date: 8/11/15 Baseline Map all ash trees ≥10cm in each module using Tree ID number *** Change intensive module numbers when necessary 6 2 Page: 1 of 2 • ω

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detection	/ Rapid response		Pre	sence	5.	GPS	
ite A Daily Belevior	I confere cashacter	NE	SE	sw	NW		Presence
Microstegium vimineum	Japanese stiltgrass						X: yes
Ranunculus ficaria	Lesser Celandine	+		1			
	Black Swallow-wort	-	. " -	+	-		_
	Flowering Rush		_	+			-
Heracleum mantegazzianum	Giant Hogweed			+		<u> </u>	\dashv
Tier 2: Assess a			# of	Plants		comments	
1 let 2: A55e55 6	D I REENEU	NE	SE	SW	NW	Commence	# of Plants
Laural des	Norway Maple	IVE	35	344			1: 1-10
Acer platanoides	Tree of Heaven		+	+-	1		2: 11-50.
Ailanthus altissima	Japanese Honeysuckle		_	+	 		3: 51-100
onicera japonica (vine)	Purple Loosestrife	+		+-	 		4: 101-1,00
			-	+-		 	5: >1,000
	Bishop's Goutweed Asian Bittersweet	+	+-				3. 71,000
Celastrus orbiculatus (vine)	·	-	_	+	 		
Torilis sp.	Hedgeparsley	+	+	+	 		_
Conium maculatum	Poison Hemlock	.63	+	+-	 		\dashv
Rhamnus cathartica	Common Buckthorn (shr		+	+-	+		
Berberis thunbergii	Japanese Barberry (shr	(ar	+	+-	-		\dashv
Alnus glutinosa	European Alder			+	 	 ,	
Dipsacus laciniatus	Cut-leaf Teasel		+	+	 	.	
Elaeagnus umbellata	Autumn Olive (shru		-	+	 	··-	
Lonicera maackii	Amur Honeysuckle (shru	ip)		-			
Euonymus fortunei	Wintercreeper						_
Tier 3: Presence	s of Interest	100		Plants		comments	44 = 4 mt = 4 =
	In the second	NE	SE	SW	NW		# of Plants
	Lily of the Valley	-	-	┼	++		1: 1-10
	Crown Vetch			+	+	:	2: 11-50.
Eleutherococcus pentaphyllus	Five-leaf Aralia (shru	(b)	_	+	╂──┼─		3: 51-100
The state of the s	Japanese Pachysandra			+			4: 101-1,00
Philadelphus coronarius	Mock Orange (shr	np)	-	+			5: >1,000
	Lungwort			+-			_
Rubus phoenicolasius	Wineberry	_	_	-	+-+		
iris pseudacorus (wetland		+	144		-	-	_
Ornithogalum umbellatum	Star of Bethlehem		_	 - -	- "		
Viburnum opulus var. opulus	European Cranberry (shru		+	_	 		_
/iburnum plicatum	Doublefile Viburnum (shru	ıb)					_
Tier 4: Widespread	and abundant			esence		comments	U 451
		NE	SE	SW	NW		# of Plants
Alliaria petiolata	Garlic Mustard		_	-			1: 1-10
Ligustrum vulgare	Common Privet (shru		\perp	1	 	<u> </u>	2: 11-50.
L. morrowii, L. tatarica	Bush Honeysuckles (shru	ıb)		-	+		3: 51-100
Phalaris arundinacea	Reed Canarygrass		_	4	 		4: 101-1,00
Phragmites australis (wetland)	Phragmites				\bot	·	5: >1,000
Polygonum cuspidatum	Japanese Knotweed						
Frangula alnus	Glossy Buckthorn (shru	b)					_
Rosa multiflora	Multiflora Rose (shru	b)					
Typha angustifolia, T. x.glauca	Cattails (wetland)						
Cirsium arvense	Canada thistle						
Dipsacus fullonum	Common Teasel						
Hesperis matronalis	Dame's Rocket						
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)

Project Label: PCAP Project Name: 02M56015 Plot No.: 5	PCAP	Project N	Project Name: 02M5 (015	Plot No.: 33 65	Page:
	#		size class (cm) woody stems >1m		
mod # species	shrub		2 3 4 1-<2.5 2.5-<5 5-<10	10 - <15 15 - <20 20 - <25	25 - <30 30 - <35 35 - <40
1 fogus a novaliblia	5 4 -e	•	6.0		
2 Fagus armaifulia		::	:3		
3					
4 Fogus agansiblica	/	\			
5 fags granditole		\ /•	* ************************************		
6 than America		22	/:		
7 Folding Symphilia			/		
8 Facus arondiferia		•		/	
5		•	0.0		
90			12 2		
					/

Shrub (size class 3 or above) Tree f of stem H.M. OF L Das Note Beech (Fungus) * Write None Present if no evidence YOR PIESELY None Present Asian Longhorned Beetle

(size class 2 or below including shrub

Thus chied not look good at all!

Walnut (Thousand Canker)

Hemlock (HWA)

Other Pest or Pathogen

SRE_CM PCAP Forest Pest and Pathogen Data.xls last revised 7/2/2015 jim

High = more than 50% of leaf/needle cover exhibiting symptoms

Medium = Less than 50% of leaf/needle cover exhibiting symptoms

_ow = Only a few leaves or branches are exhibiting symptoms

Severity

Spice Bush die back as Well.

STANDING BIOMASS (required far 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 CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface lodule # Project Label: PCAP C? Project Name: 024152045

Plot No.: 3365

@ Gleveland Metroparts Page: 1 of 1

McNAB INDICES (degrees) + for up - for down THLLED OUT USING OUS PROGRAM - DO NOT FILL OUT IN HELD!

	CLASSIFICATION		
	(FIT = excellent, g Fit and Confidence		
	Hudrossomerabic class (WETLANDS ONLY):		
	a DEPRESSION	Ī	Conf ⁿ
r	o IMPOUNDMENT o Beaver o Human	١	Conf=
	o RIVERINE o Headwater o Mainstern o Chennel	₹ 	Conf-
	O SLOPE (ground water hydrology or on a physical sloph	Fit=	Conf=
	o FRINGING o Reservoir o Natural Lake		Conf=
	n COASTAL (specify subclass)	File	Conf=
	BOG (strongly, moderately, weekly ombrotrophic)	Fit	Confi
	Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):	Ē	
2000	o FOREST o swamp forest a bog forest a forest seep o EMERGENT o massh o wet meadow open bog	77	Conf
	a SHRUB a shoub swamp a rail she bor a rail she for	N.	Conf

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

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

+815 degrees

ž

+225 degrees +270 degrees

WE

€

Sens.

+135 degrees +1 841 degrees

笞

LFI is angle of plot to the horizon. TSI is angles formed by local slopes. For TSI measure angle from recorders eye to eye of person standing – 10 m

90 degrees

lepe 1 = slight elevational grade across module (hit) are for microhabitat features. Select one or select two and everage the score, NOTE: If mod falls on a slope automatically gets rented based on steepness (1-3) to begin + any features present Slope 2 = falls on slope ~20* Stope 3 = maximum steepness that can be safely sampled ~45°

feature is absent or functionally absent from the wetland

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

A.	04	W	4	mod#			2			
				(pracr				à		
0	0	0	6	(count)	lxim	depth 3		lussocks	no. of	
0	0	0	0	(count)	3,16x3.16m	depth 2	uplands (Tip-Ups)	hummocks	no. of	
0	_	_	0	(count)	101100	depth I		depressions	по. тасто.	100000000000000000000000000000000000000
6	23	14	(0	(count)	moj z01	depth 1		(2-12 cm)	c.a.d	
2	0	3	w	(count)	10×10m	depth 1		(12-40cm)	c.w.d	
0	0	0	0	(count)	10,10,0	depth 1		ă Ā	c.w.d	
-	۲	2	1	(rank)	10x10m	depth 1	3	interspers.	microhab.	State of the latest and the latest a
,	-	1		(rank)	10x10m	SLOPE			microhab.	

+45 degrees

ž

Àl aspeci

readings per module facing N, S, E, W. Place dot count in corresponding space. (4 dost per grid square)	CROWN COVER (BENSIOMETER), Make 4
---	-----------------------------------

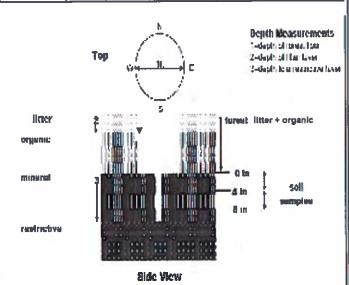
	,		
0	_	0	a-
0	0	o	<u></u>
	0	-	ю-
	s	2	Medule
			- 0 0 m

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.



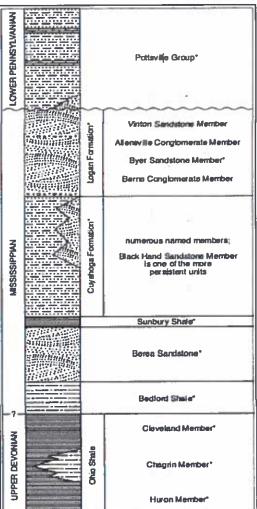


FIGURE 3-20.—Generalized section of Upper Devenian, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio Asteriaks indicate units that are fessiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to calle, but the thicknesses 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 until 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 analisms that is furly widespread but discontinuous See Hyde (1953). Hoover (1950), and Collins (1978) for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of rock types.

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a
Project label: PCAP Project Name: 11452015
Phot No.: 3365

Project Name: 11452015

(E) Gleveland Retroparks

Page: 1 of 1

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

(one per entire piol)

20 cm 6 CM matrix color matrix color redox features** redox features** exad roots hydr. cond. axid roots ydro. cond *** mottle ottle color ottle color S S M D Z D

refer to texture classes on reverse pide

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

Notes: include evidence of earthworms (worms, castings, middens) -indundated 5-saturated M-moist D-dry

2-costings present oresent & costings 3 - lastings

q-westings pount

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

Depth to rest. Layer.	Parent Material.	Parent Material. Parent Material. DEALWAGE* DEALWAGE* DECESSIVELY dr. u Somewhat excessively	Soil Collection Moduld Herizon (A. B. C) 2.3.8.9 composited Web Soil Survey Information: Soil Series/Type: Soil Series Source: Ohio Soil Survey Landform type:	(A. B. C) A
	Parent Material.		Depth to rest. Layer.	
			a Somewhat poorly dr. a V	ery poorly dr
rly d	rly dr		o impermeable surface	

	record as >30	0.1 cm in center of intensive modules. If >30.5 cm,	SOIL DEPTH MEASUREMENT: Measure to the nearest	
1	BS >30	in cent	FPTH	
ı		er of i	MEAS	
1		ntensiv	UREN	
		Sour av	ENT	
		wes.	Measu	
ı		=	3	ı
1		>30.5	to the	
		3	neare	
ı			66	I

		\		
4	8	3	2	mod#
1.9	2.6	2.5	3.6	l litter+ organic depth (cm)
1.9	2.6	7.5	3.6	2 litter depth (cm)
0	6	0	O	water depth (cm)
0	0	0	C	depth sat soil (cm)

Underlying Earth Surface	Surface*	Ground Cover	
(Stars = 100%)	percent	(Each \(\) 100%)	percen
Histosol	Ó	Coarse Woody Debris***	æ
Mineral Sail	100	Fine Woody Debris****	5
Gravel-Cobble*	0)	Litter	95
Boulder**	0	Duff (Ferm + Humus)	0
Bedrock	0	Bryophyte-Lichen	2
* Gravel-Cobble = 1/16-10*	1/16-10"	Water	>
**Boulder => 10 in	B	Bare Soil	2
*** >5 cm m diameter	neter	Road/Trial	5
**** <5 cm in diameter	meter	Other	

Helphi Range (m)	(Aquatic)*	Herb	Shrub	_	Strata He	Buren entrum
	. .	₹ 4.5	.5.5	7.5	ight Range (m)	estinate using mapoints of 5,8x.3, 6, 13

Gravel	Voodleg unsanctioned	> Hiking sanctioned	o Bridle	o All Purpose	Туре	record type and cover for each	TRAIL INFORMATION:
	5		,		%Cover	or each	ON:

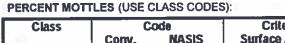
STAND SIZE	
□ >600 x plot size	
n > 100 x plot size	
0 10-100 x plot size	
4-10 x plot size	
n 1-3 x plot size	

Natural Resources Mangement FORM NR/2010-06a

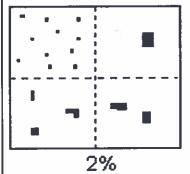
SEE BACK OF PAGE FOR "TYPICAL STRATA
DESCRIPTIONS, STRATA CAN VARY BY COVER TYPE

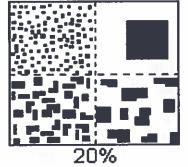
" submersed, most plant mass below surface

< plot size



Criteria: % of NASIS Surface Area Covered Conv. Few ſ < 2 2 to < 20 Common # C ≥ 20 Many m





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

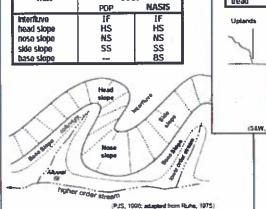
Position

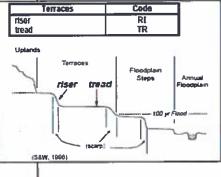
shoulder

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) nase slape or NS.

Hitte





Hillslope - Profile Position (Hillslope Position in POP) - 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.

SU

SH

backslope footslope toeslope	85 FS TS		
Su Sh Bs	Fs	Sh Bs +	Su
(PAR, 1996; pargine four finite. 1	Allertan	1	

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.