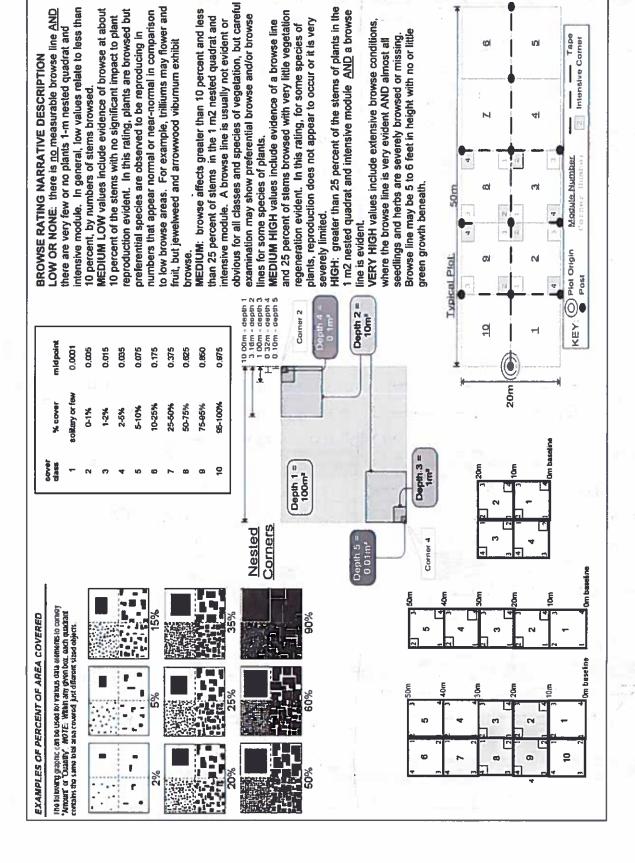
			Commen	nt required if item answer is NO	
Parking/Access outs	ide of Park Boundaries:		If yes, write details in	Comments section below	
Field journals compl	eted	(Y) N			
Site sketch made on	1:3000 map?	(Y) N	15-77		
Check cover page	X-axis Bearing of plot recorded	N 🚱		1-20 C	
	GPS coords. Recorded	₩ N		800.00	
	North direction recorded	N (S)			ģ
	Photographs taken?	(Y) N			
	Relocated Pins Mapped	Y N			J
Plot No., Date agree	ment on all pages?	N A		200	
Header data complet	ed all pages?	N (ST)		1020	
Cover classes record	ed in all Intensive modules	N (K)			
Browse Level By Sp	ecies	N		15	
Woody stem quality		(Y)N	Check every line and	cross check with the Tree Cover Sheet	
Invasive plant qualit		YN	N/A		
Ash trees mapped		N N	NIA		
	st/Pathogen Datasheet	Y), N			
Cover by Strata? (co	-303-27	YN		2 2 2 2	
	ed with matching plot #.	YN	N/A		
Cross check 2010 in		YN		s from 2010 information	
	datasheet with initials and number	(V) N		Well Bert Internation	
Vouchers labeled on		N N			
Pink flags removed		(Y) N			
Data sheet QA befor	e leaving site?	N CO			
Common equipment		YN	10 10		
Data sheets scanned			Enter date to left		
Final data sheets sea			Enter date to left	100.00	
Buffer Widths meass		YN			
Web Soil Survey		Y N			
Voucher Location	Refrigerator	(SON			
(# vouchers collected)	Press (#)		Enter number to left		
	Drier	YN	- I will will be to red		
ACL	Identified	YN			
370)	Mounted	YN		Nested Comers	
311	Thrown away	YN			
700		10		MOD a (a.4) 4, Z	- 1
CDTS makes woulder	ation: Is plot sampleable?	- 1		MOD 3 (2,4) 4,2	high
Yes	The state of the s		12: 7:	1100 J (a) 1) 7, 2	
	Original GRTS point is sampleable		M. (- MOD 8 (2,4) 4,2	
<u> </u>	Original GRTS point lands in a non- Doint falls in a water (i.e. river.		iii in category below)	MOD 9 (4.a)	
	☐ Managed mowed area (i.e. golf		ht-of-week	Talob I C Hay	
8 19 144	☐ Paved area (i.e. parkinglot, road)		N. O. Wayy		
	□ Unsafe to sample (i.e. steep slop	e)			
	Other				
Additional Comme	nts:				
				H	

Photo Nos.: 133 Photo placement: GRTS - Representative + tulp and red	Photo Nos.: 133 Photo Nos.: 133 Plot placement: GARTS o Representative	Photo Nos.: 133	THE CALLED THE	n/s Camara No.	WILLIES C. 3, 0, 4 EDIT IF MODIFIED WEST OF the	disturbed		may still provide good Plot size for cover data: (hectares) Veg. Maracte	sampling. Hurried plots	h how much effort put into	Effort Level: Subjective evaluation of Coord. Accuracy: om off	SAMPLING QUALITY* Longitude: 81, 34745 81, 84691	1-1-5 - SHS	PLOT NOT SAMPLED: DOTHER x = 0 y = 0 (base of plot x=0, y=0) West of Eastland Rd. / I-80	T TE	Datum: INAD83/WGS84 DNAD27 LOCATION > Approximate	1	Coordinate system: Coord. Units	A Lance Plot leader Source of coordinates DMAP GPS Content). Rationale (why here), and Veg Characterization (description of community	Party Role** If data not public why? Key: (0,0) point point point with direct	Reason:	Date (mm/dd/yyyy): 07 / 14 / 2 015	Level 5 (nested corners sampled) Check one: Prublic data Private Data	Data Confidentiality:	Landowner: CMP	Flad Paw-Paw Chip Turnpike 210	Na	angle: Berea	Project Label: PCAP State: OH County: Cunchogs	GENERAL INFORMATION LOCATION	CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	
j	also present.		the canopy with		Ohio Turnoilee Red	plot located just	, and a	ristics - Succession 1	2 days	GRIS ! FCAT re-semale	0000			L Rd. / I-80		The Set I start of		otes in space on back.	baracterization (descriptions and landscape	with direction permanent posts		#3 #4 #5	2	2 -	#8 #7		K				Page 1 of 2	

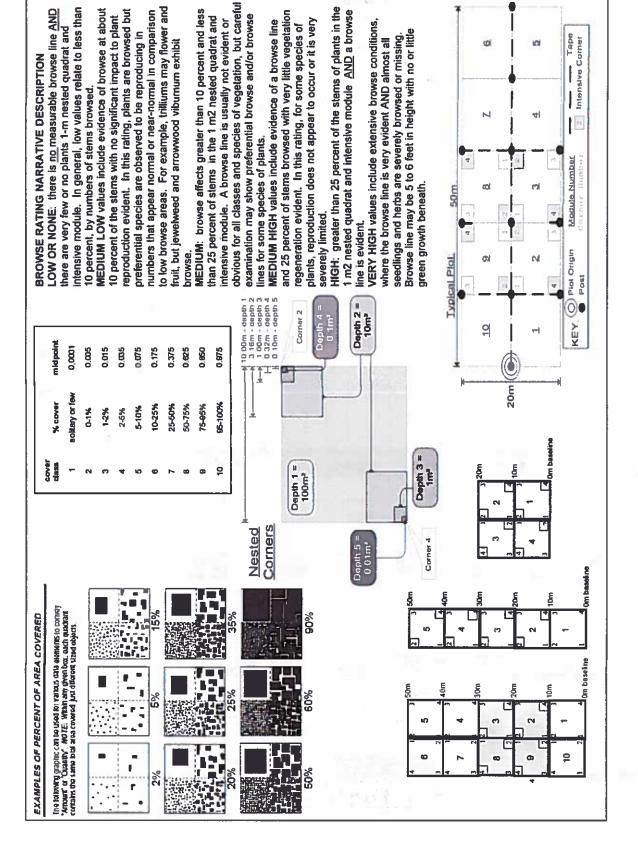
CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	nmunity Assessment Pr	rogram - Bac	kground Dat	Sheet				@ClumbundHutmpmhs
Project Label:	PCAP	Project	Project Name: OAMS 2015	51025	Plo	Plot No.: 1067	767	Page 2 of 2
MODIFIED NATURESERVE CLASS:			DIST	DISTURBANCES	1000			
CODE (on separate form):	Fit Conf		type	severity**	yrs ago % of plot		description	
			Human		0 10	100% to	trash	
W-01(d)			Natural			\dashv		
COMMUNITY NAME:			Fire					
Ming		ď	Cut	14/1	5	10030		
Husical Succession For	ovest-Red Map	62	Other	A	+	\perp	7 200	
-			**L=10	w. ML=med lov	', M=med, MH	-med high.	**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high	ry high
Homogeneous a Compositional 1	Compositional trend across the plot		Curret	Current Land Use:	PARK			
Conspicuous inclusions	mosaic		Forme	Former Land Use:	UNKNOUN	7		
	HYDROLOGIC REGIME*	IME*						
	D Upland (seldom flooded)		□ Intermittently flooded	flooded				
SALINITY*	a-Intermittently/seasonally saturated	aturated	□ Semipermanently flooded	ntly flooded				
a Saltwater	(seldom flooded)		Dermanently flooded	looded				
D Brackish	□ Permanently/Semipermanent. saturated	ent. saturated	o Tidal/Seiche flooded daily	looded daily				
D Fresh	(dry <1/yr, seldom flooded)	d)	a Tidal/Seiche flooded monthly	looded monthly				
and pland (n/a)	Occasionally flooded (<1/yr)	yr)	□ Tidal/Seiche flooded irregular	looded irregular	6	8	111	
1	a Temporarily flooded		(e.g. wind, storms)	orms)				
(by default unless plot is a wetland)			n Unknown					
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)	ss of plot to the stand, success	ional status, matt	urity, etc.)					
hange amount of dead / dying spicebush throughout the plot	dead I dyin	S Spec	ebust	thro	ب مماریم	+ 7	2 plot	
Vey spare herbaceous	cous lager	with	mayap	ple, d	ewhere	r B	d Care	layer, with mayapple, dewherry, and Care swanii
dominating.								
Substantial browse pre	* pressures throughout. Deer present during sampling.	thous	+	Deer pr	esent o	Lann	s samp	11/2.
Jone areas may temporanly hold water.	temporanly	hold w	ater.					

Cleveland Metroparks Strata - Cov. entire plot Total modules: Project Label: Ċ | H (F)(A) Вг 6 Primus Serotina Aster Fraxlaus Heer rubrum buschanta fraction sluceña strata Radophyllium peltation raxious pensulvanica Sueccus Sp trisasma triphyllum Bubus sp. ana indera hosa multiflora Hamanulis virginiana prthenocissus allinquetal ANN meatiens capensis persia virginica describe amount of browse per species over arex Swani Br = Browse Level. Use cover classes to rataegous oxicodendran Durnum 1125mla ateritlarus Flaggelarias Corditornis Species benzoin entine plot Canadinsis dentatum radican o Intensive modules: Kunveg. ground (bare soil) intensive module: Estimate for each %unvegetated open water %unveg. Rier (bare litter ACL37 ACC370 Project name: Danisaois Voucher # ND cov i depth Ş Plot configuration: 2×5 ş ğ Q Plot no.: 1067 0 mod 8 Copy depay O WGD 0 Plot area (ha): ş ş Page 1 of 0 ş ş

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet



Project Label: Total modules:	PCAP	Project name: Intensive modules:	480	Plot configuration:	figura	Ø 5	1067 ××		Plot a	Plot area (ha):	(ha):		
													1
>			med comer	mod comer	DQ.	ner med c	3	сопнет по	COTTRE	mod com	comer mod	corner mod	اثا
Ò		Estimate for each	ب	r R	734	3	90	3	ม	9 4	9	رو ت	ட
3	Br = Browse Level. Use cover classes to	intensive module:	Ta	depth cov	depth cov	v depth	oep o	cov depth	AGO	depth cov	8	cov depth	13
Cleveland	describe amount of browse per species over	%open water	F		-					-			100
Retroparks	entire plot	%unvegetated open water			-	1	.	-		-	İ		0
rata - Cov. entire plot	2	%unveg, litter (bare litter)	1				<u>.</u>	-		+	1		
S H (F)(A) Br	Br Species	c Voucher#	depth cov	depth cov	depth cov	depth	cov depth	cov depth	ğ	дерів, соу		соу дерб	9
2	Rhomain												
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41 3	Alussa sulvatica	4											V
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Strata - Cov. entire plot % COVER CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Project Label: 무 Quercus rubra Nyssa Sylvatica Acer Eubeum iriadeadous tulipitera Species Prensence of tree mod mod mod species (X) 2 3 8 9 Project name: 02MS2015 Plot no.: 1047 Voucher # ZUπ Page __

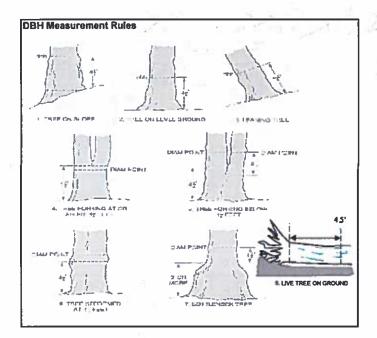
% COVER Strata - Cov. entire plot T Br Species (X) T Br Species (X) T Br Species (X) C Voucher #	Project Label:	Project Label: PCAP Project name: P	Project name:		Plot no.:	
3r Species (X) 3r Voucher#	COVER		Prensence of tree Imo	pour pour pour p	α	
Br Species c	rata - Cov. entire plot		species (X)	200	æ	
	\dashv	Species				
			,			
			à			
	4					

talkn into but still Tubin about CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 3 Prithenocosus quinquestin Nyssx sylvatia-Ace subsum Linker- benzon Standing beat ALLY YUBIUM Stave of deas Standing dead 166 Kubus Slongacianis AUNUS SCOTIVE linders benzin Sharing Lead Partienacissus quinquadir Crombocans St. Linzero benzoin Smiles (etunsitation Linder benzon Aus subsum SOR Grishas for multitlose Lifiakndron tulipited-LINDER WILLIAM Liniose navor tulipiture Deel fublism Project Label: PCAP #E. 1.3 | E <u>ام</u> browsed 인.4m 7 S or super shrub % sub Project Name: DC MS 2015 Ø. D Ħ Ø U clumps size class (cm) woody stems >1.4m 2 1-<2.5 Plot No.: 1007 10 - <15 15 - <20 Page: 25 - <30 30 - <35 Gleveland Netroparks 5.E 9.5h 8.2 0.0 53.7,824 >40 (record each tree)

- Phrionsy

54):+

2/2



Woody Stem Deer Browse

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

Record using the tally system from 1 to













ASH CANOPY CONDITION

- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
- 2. Thinning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.
- 3. 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.
- 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.



В

C

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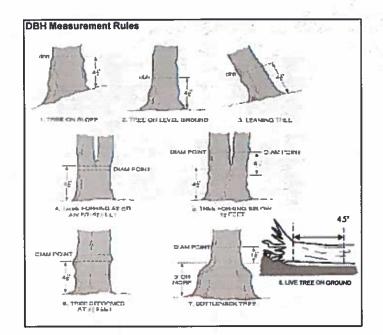
E

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.

7 reception CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 6 HUNUS SENDAM Carpinus co-colinions Standing deale Par menaciss guinguetain Standing seas Parth on dissus quings ARLI YUBGUM Smile x copure if I'm standing deat Explain subsample (additional room on back): Rubus Stugelbis Queen non Quelcus jubro-Rosa miltiMora Charles 20. aneres colors Nysse sylvation Lindout benzoin Linder bentain Linder benzo: Smiles brate / Kalims for thank cities a since Project Label: Last 16/11/16 Jetoli-PCAP 5 Ŋ F browsed 0-1.4m S 6 W or super Project Name: 02M57015 N size class (cm) woody stems >1.4m 0 1 1-<2.5 2.5-<5 Plot No .: 1067 5-<10 10 - <15 | 15 - <20 20-<25 Page: 1 25 - <30 30 - <35 © Gleveland Metropaiks 35 - <40 105.7 とうと 9.17 >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.

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В

C

D

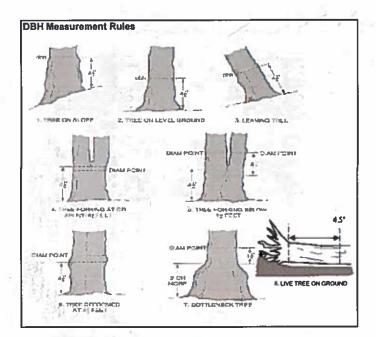
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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 10 Linsera benzoir by Smilax rate radion 10 Toxico Xiveron Turbica in 10 Pare rubrum Standing Lead FraxIRVS Se PHUNUS XIDAIN Eubro flogethark Frankly grand now Explain subsample (additional room on back): (virtueaus sp. Asiminia tribbe FROXING SO SOCIETY Act Cubrum Rosa my Hillora Lindra venzoin Project Label: PCAP voucher# :: ک 2:1 17 prowsed 0-1.4m P Sterns 3 6 or super % sub Project Name: DZMS2015 clumps shrub size class (cm) woody stems >1.4m <u>P</u> 1-<2.5 2.5-<5 Plot No .: 1067 5-<10 10-<15 15 - <20 20 - <25 Page: 3 25-<30 30-<35 잌 Cierciand Metroparks 35 - <40 8. 51 21.0 >40 (record each tree)



Woody Stem Deer Browse

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

Record using the tally system from 1 to













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- D: Stem still standing and tertiary main branches present.
- E: Central stem still standing.

* If Ash Condition scores 5 (dead) provide breakup score (A-E)
Count EAB exit holes 1.25m≥ x ≥1.5m
Woodpecker and epicormic marked present (1) or absent (0)

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

CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Sheet Project Label: PCAP Project Name: 02M57015 Plot No.:	t Communi	nity Assessmer PCAP	nt Progran	7 Forest	Project Name: 02M57015	d Patho	gens Da	Plot No.:	eet 7		Page	Clareland M	end Metroparks Of
		shoot #	size class (cm) woody stems >1m	(boow (m:	stems >1	,	h	•	4		,	;]	
mod # species	voucher#	clumps	- 0حرا	2 1-<2.5	3 2.5~5	5-<10	5 10 - <15	6 15 - <20	20 - <25	25 - <30	9 30 - <35	10 35 - <40	11 >40 (record each tree)
1 Now Policina													
2													
ယ												,	
4				1112									
5						•							
O													M. S.
7													
CO .										FILL.			
9													
10									2				
										100			
* IF EVIDENCE OF PEST OR PATHOGEN RECORD TOTAL SPECIES POPULATION IN THE PLOT EVEN	ATHOGEN	RECORD TO	TAL SPECI	ES PO	PULATIO	HT NI N	E PLOT		THE NOT INFECTED	T INFE	CTED		
Strata	# of stem infected	Severity (H,M, or L)		* Write	* Write None Present if no evidence:	esent if r	no evide	nce:	VE E	90 (4)			
Tree (size class 3 or above)						Beech (Fungus)	·ungus)				Asian L	onghome	Asian Longhorned Beetle
Shrub (size class 2 or below including shrub clumps)						Hemlock (HWA)	(AWH)				Other P	Other Pest or Pathogen	athogen
			¥ (Walnut (Thousand Canker)	Thousa	nd Cank	(er)				
Severity				1									
High = more than 50% of leafineedle cover exhibiting symptoms	needle cove	r exhibiting syn	nptoms		55								
Medium = Less than 50% of leafineedle cover exhibiting symptoms	af/needle co	ver exhibiting	symptoms										

Project (Label:	PCAP	P.	Project Name: 02 MS 7015
STANDING BIOMASS (required for emergent wedands) collected	red for emerg	rai weilaa	ds) collected
n 0 Im clip plots (32x32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C7=check when	on corners 1 a	d 3 in each	intensive
offected			MIN
		T. C. Tallet	
		1	1
rodule #	C7	Come	Corner Corner
lockule #	C7	Corner	Comer
Aodule #	C7	Corner	Comer

CLASSIFICATION			
(FIT = excellent, g Fit and Confidence			
Hydrogeomerbhic dass (WETLANDS ONLY):			
DEPRESSION	1	Conf*	
a IMPOUNDMENT a Beaver a Human	7	Conf=	
o RIVERINE o Headwater o Mainstern o Channel	File	Conf=	
II SLOPE (ground water hydrology or on a physical sleph	1	Conf ²	
o FRINGING o Reservoir o Natural Lake	₹ 	Cont.	
a COASTAL (specify subclass)	F	Conf=	
a BOG (strongly, moderately, weekly embrotrophic)	Fil=	Conf=	
Ohio EFA VIBI Plant Community Class (WETLANDS ONLY):	CCTNO		
o FOREST o swamp forest o bog forest o forest seep o EMERGENT o manh o wet meadow o open bog	# # 	Conf.	
o SHRUB o sheub swamp o tall sh. bog o tall sh. fen	Fit=	Conf=	

1		100		٩	00	W	7	modif											
								COTRCT			1					L		Ц	
			000	C	0	0	0	(count)	lxim	depth 3		tussocks	no. of						
	Allen St. Sprinter (Stephenson)			o	0	0	0	(count)	3.16x3.16m	depth 2	uplands (Tip-Ups)	hummocks	no. of						
				W	-	W	_	(count)	10x10m	depth I		depressions	no. macro.						
	The second second			23	14	23	16	(count)	10x10m	depth 1		(2-12 cm)	cwd	DOG (strongly, moderately, weakly ombrotrophie) Ohio EFA VIBI Plant Community Class (WETLANDS ONLY): Fit OFOREST 0 an amp forest 0 bog forest 0 forest seep CEMERGENT 0 massh 0 wet meadow 0 open bog SHRUB 0 shrub awamp 0 tall sh. bog 0 tall sh. for	a FRINGING a Reservoir a Natural Lake a COASTAL (specify subclass)	O SLOPE (ground water hydrology or on a physical slop)	o RIVERINE o Headwater o Mainstern o Channel	a IMPOUNDMENT a Beaver a Human	DEPRESSION
				2	q	2	2	(count)	10x10m	depth ((12-40cm)	c.w.d	'emmaunity Class 'emmaunity Class sit a bog forest a net meadow t p a tall sh bog o	ir o Natural Lak belass)	rationally or on a phy	ler a Mainstern	kaver o Human	
		Septim 1		o	0	0	0	(osuni)	10:10:0	depth 1		>M0 cm	cwd	OWETLANDS O forest seep 1 open bog 1 all sh. fen	a	rical stops	Charand .		
				2	٨	2	7	(rank)	10x10m	depth 1		interspers	microhab	h, i, i, i, i,	7 7	1	File		
					_			(rank)	liku jūra.	SLOPE			a. microhab.	Conf* Conf* Conf*	Conf.	Conf-	Conf=	 	Trans.

Plot No.: 1067

(Balavatand Makes park Page: 1 of 1

McNAB INDICES (degrees) + for up - for down (PILLED DUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD) +180 degrees +315 degrees + 170 degrees +45 degrees +125 degrees +135 degrees +90 degraes At aspect AN WS 풂모 € SE LFI: TSI** LFI is angle of plot to the horizon. The samples formed by local slopes. For TSI measure angle from reconders eye to eye of person standing -10 m away

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

CROWN COVER (DENSIONETER): Male 4 readings per module facing N. S. E. W. Place dot count in corresponding space. (4 dots per grid square)

-	7 3	- 0	Medials N	space. (4 dots per grid square)
2	2	_	F 2	
	W	C	ŧ	ľ

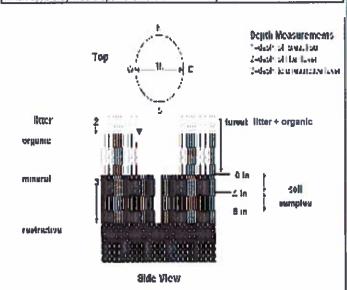
NOTE: baseock and hummocks are counted in BOTH nested quadral corners but counts are aggregated.

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
"Can also include seedlings of shrubs, i.e. all shrubs <0.5m

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



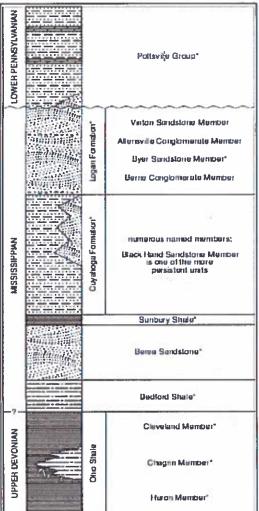


FIGURE 3-20.—Generalized section of Upper Devonian, Ministrypian, and Lewer Permaylvanian formations in non-heastern Onco Asterialis indicate units that are fossifidenous. This composite section represents acoust 400 meters of rock exposed across the area. The section is not to each, but the thicknesses indicated are purportional. The term "Waverty" is used in the older literature to refer to Ministrypian rocks in Oxio, Some geologists use the Eurry and term "Carbonierons," which encoupasses the Ministrypian and Demarktanian Periods of the U.S. Many units have been named within the Cuyahoga Formation but most units are local and cannot be tract a cree pleat distances. The Black Hand Member is a spectarilly massive sandatone that is fairly undespread but discontinuous See Ergde 1953. Horvey 1960., and Collins 1979) for more information on Afra, supposa rocks in Ohio, See Egure 3-16 for explanation of rock types.

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet & Project label: PCAP Project Name: 02M52015 PIOL NO .: 1067

(P) Cleveland Metroparks

Page: 1 of 1

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

20 cm 6 cm matrix color exture. matrix color axid roots edox features** odox features** nottle color ydr. cond.*** ud roots ottle color S M D z

refer to texture classes on reverse side

hydro, cond ***

N S I

b

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

indundated S-saturated M-moist D-dry

lotes: include evidence of earthworms (worms, stings, middens)

2- Castings present 8 - worms present 9 - cassings + - NO warms /cast. 15 maden poutent

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

Soil plt module # ____ (one per entire piot)

Soil Collection Modula Herizon (A. B. C) 2.3.8.9 composited A Web Soil Series Type: Soil Series Source: Ohio Soil Survey Landform type: Depth to rest. Layer: Parent Material: PRAINAGE: DEXCESSIVEly dr. Somewhat excessively dr. Well drained Somewhat poorty dr. Very poorly dr. Importmeable surface

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

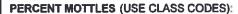
4	8	3	2	mod#
١, ५	1,1	1.9	1.5	l litter+ organic depth (cm)
64	1.2	1.9	1.5	2 litter depth (cm)
0	6	ŏ	0	water depth (cm)
0	0	0	0	depth sat soil (cm)

Underlying Earth Surface	b Surface*	Ground Cover	+
(State - 100%)	percent	(Each < 100%)	percent
HUSIOSOI	000	Coarse wrong Dearts	00
Mineral Sod	10070	Fine Woody Debris****	0.
Gravel-Cobble*	3	Litte	7070
Boulder**	0 /6	Duff (Ferm.+ Humus)	١,
Bedrock	0%	Bryophyte- Lichen	L
* Gravel-Cobble = 1/16-10*	-1/16-10*	Water	-
**Boulder *> 10 in	5	Bare Soil	-
>5 cm in diameter	ncter	Road/Trail Other	3 0

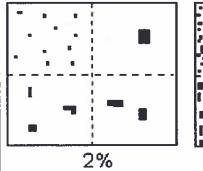
Strata	Height Range (m)	Total Cover (%)
Tree	2	88%
Shrub	5 5	18%2
Herb	5.0	18%
(Floating)*	,	

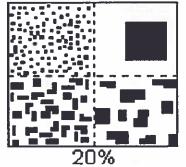
		STAND SIZE
Height Range (m)	Total Cover (%)	a >600 x plot size
S	\$8 %	a > 100 x plot size
5 5	18% 23%	a 10-100 x plot size
5.0	18%	1-10 x plot size
,		O 1-3 x plot size
		□ < plot size
ling or slightly emens	8.	
ost plant mass below	surface	
AGE FOR TYPICAL	TSTRATA	
	ing or slightly emersus plant mass below	ov surfix

- A work great



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





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

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

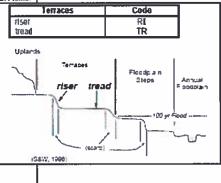
Geomorphic Component - Three-dimensional descriptors of parts of tandforms or microleatures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains:

NASIS

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

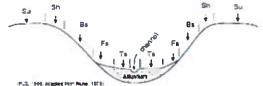
	Interfluve	i.F	IF	
	head slope	HS	HS	1 1
	nose slope	NS	NS	
	mosa amba			
	side slope	SS	SS	
	base slope		BS	
	naze zioha		D3	
				-
				/-
		T		1 1
	100	Head	. 60	1
	/ 3	slope	- F (3)	1
	/s	1	Street /	اسرا
	/ 30	· · · · · · · · · · · · · · · · · · ·	/ /	
		1. 1.	130	7
	12.	21 1	1 25	/
	/ /37	1150		10/2
-	/ / //	1	3 3 /	1 1
	1 1 1	1	· · / •	F: 1
	19	/ Mose	18	100
		slope	1 1 92	3/ 2
	19 1	September 1	1 3 6	1 50
	100	1	1 4 18	- 03
	and Abarah	1	/ 1883	1.5
	4 67	The state of the s	- A 1	
		The second	HARRIST TO THE PARTY OF T	Fred State
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	. Miles	order stroom		
		and City 11		
		E 5 10	SP and second femory 2	3 12751

pne



Hillslope - Profile Position (Hillslope Position in PDP) - Twodimensional descriptors of parts of line segments (i.e., slope position) along a transect that runs up and down the slope; e.g., backslope or BS. This is best applied to transects or points, not areas.

POSRIOR	C006
summit	SU
shoulder	SH
backslope	BS
footslope	FS
toeslope	l ts l



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.