Project Label:	TROPARKS Plant Community Ass	Plot N	n: Quality Control Form  O: 1047  Date Sampled: 120/15  Lead: LKM
			Comment required if item answer is NO
Parking/Access outs	side of Park Boundaries:	Y (N)	If yes, write details in Comments section below
Field journals comp	leted	YN	
Site sketch made on	1:3000 map?	(Y) N	
Check cover page	X-axis Bearing of plot recorded	N	
	GPS coords. Recorded	(X) N	
	North direction recorded	N	
	Photographs taken?	YN	
	Relocated Pins Mapped	W N	
Plot No., Date agree	ment on all pages?	Y N	
Header data complet	ted all pages?	Y) N	
Cover classes record	led in all Intensive modules	YN	402
Browse Level By Sp	ecies	82 N	
Woody stem quality	control check	N N	Check every line and cross check with the Tree Cover Sheet
Invasive plant qualit	y control check	Y N	NA
Ash trees mapped		YN	
Completed Forest Pe	est/Pathogen Datasheet	Y) N	
Cover by Strata? (co	nfirm cover type)	YN	
Soil samples collecte	ed with matching plot #.	YN	NA
Cross check 2010 in	formation	YN	Highlight any changes from 2010 information
Vouchers labeled on	datasheet with initials and number	N (Y)	No.
Vouchers labeled on	collection bag	Y) N	727
Pink flags removed		N	
Data sheet QA befor	re leaving site?	N	
Common equipment	returned to tub.	YN	
Data sheets scanned	?		Enter date to left
Final data sheets sca	nned?		Enter date to left
Buffer Widths measi	ured?	Y N	
Web Soil Survey	200	YN	
Voucher Location	Refrigerator	YN	
(# vouchers collected)	Press (#)		Enter number to left
(KM200-	Drier	Y N	
700	Identified	Y N	
· LD7	Mounted	Y N	
	Thrown away	YN	876

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, pienic area, right-of-way)
	□ Paved area (i.e. parkinglot, road)
	☐ Unsafe to sample (i.e. steep slope)
	Other

Additional Comments:

C. EVEL AND METRODARKS Plant Community Assessment Program - Background Data Sheet	munity Assessment Pro	ogram - Background Data Shee		Churchmellating	1
Project Label:	PCAP	Project Name: O 2.BE 2015	15 Plot No.: 1047	047 Page 2 of 2	~
MODIFIED NATTIRESERVE CLASS*		DISTURBANCES	NCES		
CODE (on separate form):	Fir= Conf=	type* seve	severity**   yrs ago   % of plot	description	47 97
00 /			0 10	Trash and cut logs relled	6
707			ML 0 20 W	off erosion of	lat
COMMUNITY NAME:		Fire			_
The Franch	25.4	Cut			-
Seech maple 1812		Animal	MH 00 100	Deer Browse	-
		Other	,		
HOMOGENEITY		**L=low, ML=	**L=low. ML=med low. M=med. MH=med high, H=high. VH=very high	h, H=high, VH=very high	Ť
□ Homogeneous □ Compositional trend across	trend across the plot	Current Land Use: (	Use: CM P		_
Conspicuous inclusions	mosaic	Former Land Use:			
	HYDROLOGIC REGIME*	IME*			
	Copland (seldom flooded)	□ Intermittently flooded			
SALINITY*	□ Intermittently/seasonally saturated	uturated Demipermanently flooded	ded		
O Saltwater	(seldom flooded)	□ Permanently flooded			
c Brackish	□ Permanently/Semipermanent. saturated	nt. saturated Didal/Seiche flooded daily	aily		
o Fresh	(dry <1/yr, seldom flooded)	I)   ☐ Tidal/Seiche flooded monthly	nonthly		
d Upland (n/a)	□ Occasionally flooded (<1/yr)	r)   Tidal/Seiche flooded irregular	regular		
	a Temporarily flooded	(e.g. wind, storms)	1,3		
(by default unless plot is a wetland)	,	a Unknown			Г
Additional notes & diagrams: (Representative pless of plot to the stand, successional status, maturity, etc.) Los Sentent 18 Fallest trees The blot is sometimed though not very un every eq. The Tulips are the tallest trees	ss of plot to the stand, successi	well status, maturity, ctc) Thad sentent	The Tulps are	the tallest thees	
By the most part but	+ have weevil	s and look ragge	1. The plot is	YZIJ KIJSOM	
woods with some weta	ireas and their	associated plant sp	ecies. Fairly high	grammoid diversity.	
B A large tuin Red	Oak has die	I bow in Mod 1	possibly in troducin	g more sunlight in	
the recent past. The	water runoff	runoff and subsequent leaf litter erosion is alarming	- litter erosion	Ts alarming	_
to me but it is hard to	ard to gauge	to gauge what is "normal" since this year has seen	" since this	pear has seen	
a lot of heavy	rain and this	To my Arst &	gason here,	1875	
		1			

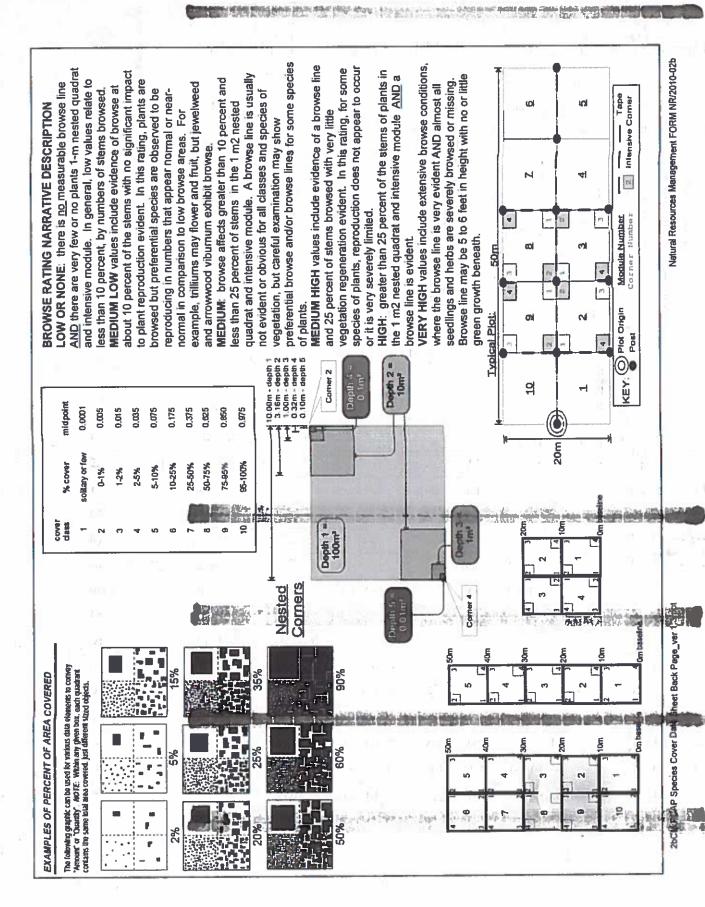
the farmanc Smooth Stem CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a Strata - Cov. entire plot Cleveland Metroparks 2aCM PCAP Species Cover Data sheet Page 1 of x\_ver 3.xls last revised 5/29/2012 ceh Total modules: Project Label: ഗ | H |(F)|(A)|Br N NN N 2 4 Crataegus sp. 0  $\infty$ 6  $\boldsymbol{\varphi}$ Tiarella Euchymus obovatus Sagrano Sagrana S traxinus pensylvanica Galium Fagus grandito layaprotum pubercens Foilobium 30 Mitchella repens The market that folygonum so 10 Ulmus sp. -ecrsia Virginica oly stichum acrostichoides - burnum describe amount of browse per species over Aster TARAXACUM OFFICINALE inna orundinacea ar pinis caroliniana Moss so. Ansaema arya sp. dily acapusparan Br = Browse Level. Use cover classes to alsodes aterit lory s cordifolio Species entire plot (seedling) acetitolium seedling) tiphyllum yar triphyllum SANS toides fera Š ი Intensive modules: %unveg. ground (bare soil) %unvegetated open water intensive module: Estimate for each %unveg, litter (bare litter 300 CKM 202 CKM 200-203 £4588-589 **८**५ 584 CKW 200 C4 585-587 Project name: 0213E 2015 Voucher # %open water N M W 4 N N N N 2 4 N N 3 -3 1 mod N N N V 4 N F V N cov deptr cov depth N N O N N N W Plot configuration: N N N 400 ş N N 22 N σ N N 3 1 88 8 Plot no.: 1047 0 3 comer depth N 2 X S N W AOO ADD depth N depth 8 mod N N N 3 1 400 N 7 O n depth N T DOE Plot area (ha): ş ş depen N Page 7 6 7 G N N Gå N N N 8 N 2 2 ٠ 2 come 8 depth dept/ DOF IJ Ş ş

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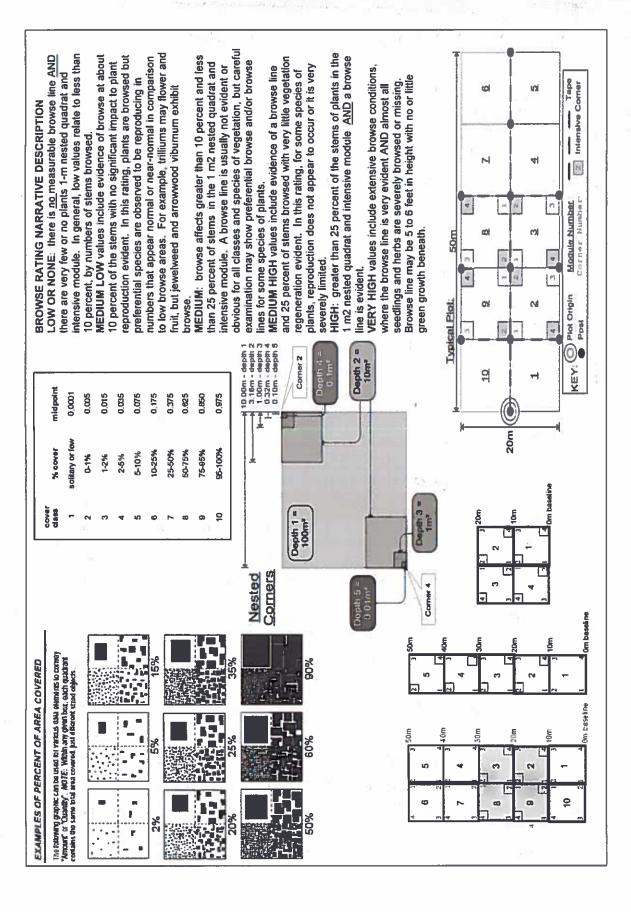
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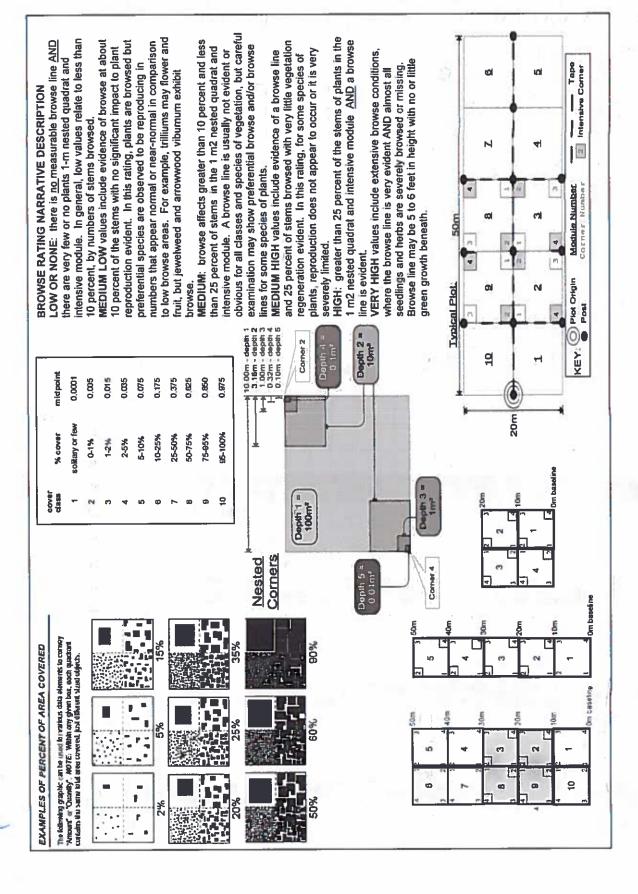
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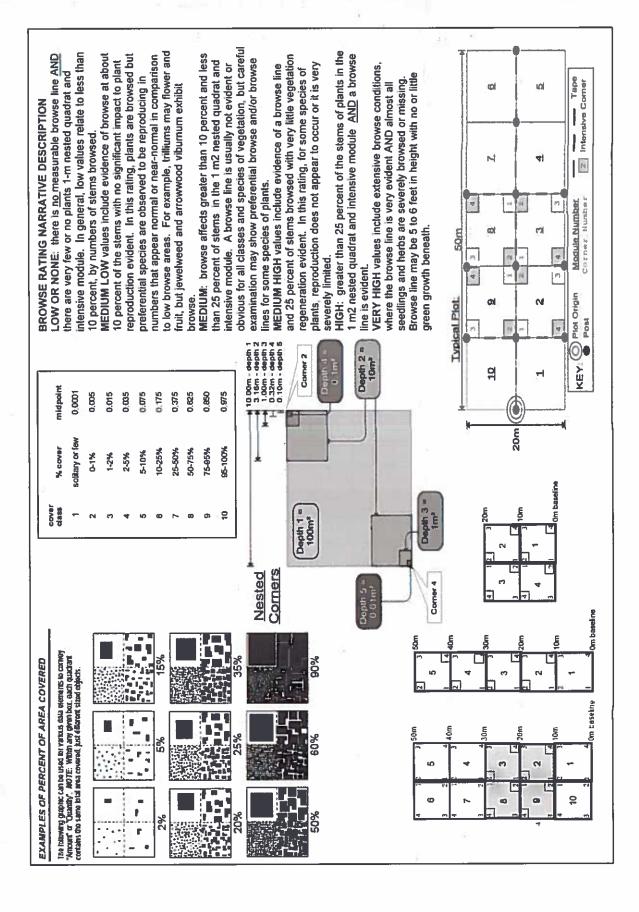
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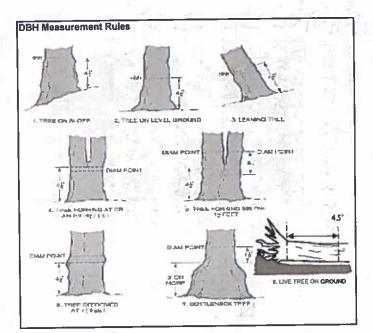
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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet HOS GON HIS ACE Southann Explain subsample (additional room on back): DIA DUDING SIDE CANDING SCHOLD From organistic JUNEAR STENSON POSTATA SOL STANDAGSEA ALVANDA SAUNZA AND STANKS iniocardion with the UNIX PORS ACK CACINICAC SALVER THE PROPERTY **EURANDIA** riodendy in the THE COURS & 12 CALLACE Project Label: である PCAP ANDONO voucher# # sterns perword 0-1.4m . :1 B or super % sub Project Name (3285 703 clumps shrub # size class (cm) woody stems >1.4m <u>ک</u> 0 0 Ģ • 1-<2.5 1 0 × . 2.5-<5 . 0.0 Plot No. 10 5×10 Х. 10-<15 . 15 - <20 20+<25 Page: 25 - <30 30 - <35 잌 Queveland Metroparks 35 - <40 ö 9.6h 48.9,47. >40 (record each tree) Country

2010

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

Natura Resources Management FORM NR/2010-03a



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.
- 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.



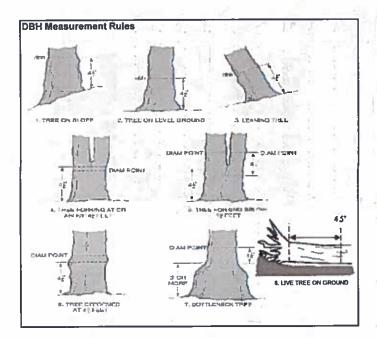
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ASH CANOPY BREAKUP CONDITION (for dead trees):

(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).
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- 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 CHANDING TRAIN HOUSE ORGANIES Explain subsample (additional room on back) Cartana acutara ROM COTHOR SANDY DEAD Acer Socionarum TONORS CANDINGEN Arer rubrum ARY WOUN STATE SOURCE COOP OF THORS DECEMBER OF THE PERSON - MINIS Penylvanica ACON YOUN SANDING DEAD THE ORSING Drivel Scare species Project Label: 0-1.4m or super % sub Project Name OZSEZOYS • size class (cm) woody stems >1.4m <u>م</u> : 1-<2.5 - 0 2.5-<5 8 Plot No. .. 4 0 5-<10 10-<15 15 - <20 20- <25 6 Page: 25 - <30 30 - <35 Spermeland Metroparks 35 - <40 8.97 70.5 4.99 50.4 >40 (record each tree) = TOURID



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Record using the tally system from 1 to













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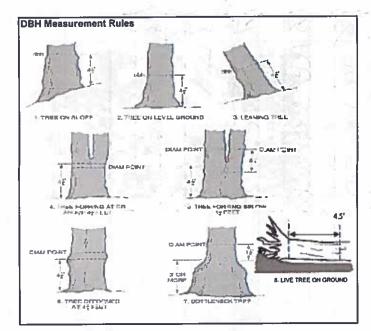
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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Beneris Thunka SPANDARS DEAD Explain subsample (additional room on back): Propositions ACEY SOUTH Homnowells VIII gut i Gran ACCOUNT ANSWERS AND tages granduction Acropan HOS ORDANIE AB-SUCHALLY SALVE CIRCUMANS TOXIONS BO ACASACOS ACA intentintaine HOLZICHZIAN STANDNIGHTAN 2002 3 2001C Cer rugium MODE OF THE PROPERTY OF HS CESTIVENES riocencion tulbien ASSESS OF Project Label: PCAP NO. 40 00 . . X # stems browsed 0-1.4m or super % sub Project Name: 078 E 7015 shrub \* size class (cm) woody stems >1.4m . 2 :1 6 • . 1-<2.5 :: 9 . -Plot No : 1047 \* 0 ;; 15 - <20 age: ن 30-<35 으 Adjenciand Metroparks 35 - <40 6 1.10 48.0,42.3,53. >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













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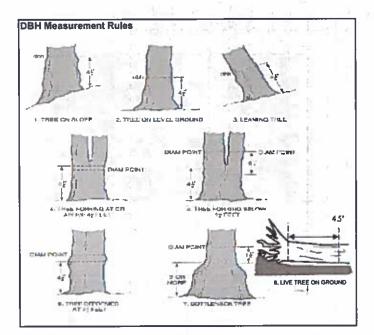
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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Project Label: PCAP Project Name: (XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	# stems	Project N	ram Nati	nt Program Natural Woody Stem Data S. Project Name: (\(\overline{X}\) (\(\overline{X}\) (\(\overline{X}\)) (\(\overline{X}\) (\(\overline{X}\)) (\	ody Ste	m Data	I 5 II 4	Sheet Yot No.: Y	0	Not No.: YO 47	LTO	O	047 Page: 4 of	047 Page: 4
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Record using the tally system from 1 to

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- 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.

\* If Ash Condition scores 5 (dead) provide breakup score (A-E)
Count EAB exit holes 1.25m2 x 21.5m
Woodpecker and epicormic marked present (1) or absent (0)

										48				2							-				Module
ر م	24	23	22	21	20	19	8	17	<b>a</b>	5	14	13	12	=	5	6	œ	7	8	cn	1	ယ	27	-	ᇙᅋ
																74144					THE COLLEGE			None	Species
																		736							Dead
												-		N						L					n
																									Voucher#
								=						-				Γ					mice.		(Cam) DBH
				4														Τ				T		Г	2 E
																									Ash
												5 134													Ash "Dead condition condition
																									# Exit Epic holes pre
																						t			Epicormic
												14		ay.		4									Woodpecker holes

\*\*\* Change intensive module numbers when necessary

•

Ç08

Map all ash trees ≥10cm in each module using Tree ID number

N

4

Tier 1: Early detection	Rapid response		Pre	sence	0	GPS	
		NE	SE	SW	NW		Presence
Microstegium vimineum	Japanese stiltgrass		-				X: yes
Ranunculus ficaria	Lesser Celandine						
Cynanchum louiseae (vine)	Black Swallow-wort						
Butomus umbellatus (wetland	Flowering Rush						
deracleum mantegazzianum	Giant Hogweed		110				
Tier 2: Assess a	s Needed		# of	<b>Plants</b>		comments	
		NE	SE	SW	NW		# of Plant
Acer platanoides	Norway Maple						1: 1-10
Ailanthus altissima	Tree of Heaven						2: 11-50.
onicera japonica (vine)	Japanese Honeysuckle						3: 51-100
ythrum salicaria (wetland)	Purple Loosestrife						4: 101-1,0
Aegopodium podagraria (G-cover)	Bishop's Goutweed						5: >1,00
Celastrus orbiculatus (vine)	Asian Bittersweet						
Torilis sp.	Hedgeparsley						
Conium maculatum	Poison Hemlock						
Rhamnus cathartica	Common Buckthorn (shru	ıb)					
Berberis thunbergii	Japanese Barberry (shru	ıb)					
Alnus glutinosa	European Alder						
Dipsacus laciniatus	Cut-leaf Teasel						
laeagnus umbellata	Autumn Olive (shru	b)					
onicera maackii	Amur Honeysuckle (shru	b)					
Euonymus fortunei	Wintercreeper						
Tier 3: Presence i			# of	Plants		comments	
		NE	SE	SW	NW		# of Plant
Convallaria majalis (G-cover)	Lily of the Valley						1: 1-10
Coronilla varia (G-cover)	Crown Vetch					1	2: 11-50
Eleutherococcus pentaphyllus	Five-leaf Aralia (shru	b)					3: 51-10
	Japanese Pachysandra	- }					4: 101-1,0
Philadelphus coronarius	Mock Orange (shr	ıb)					5: >1,00
Pulmonaria officinalis (G-cover)	Lungwort					· .	
Rubus phoenicolasius	Wineberry					·	
ris pseudacorus (wetland	Yellow Flag Iris					<u> </u>	1
Ornithogalum umbellatum	Star of Bethlehem						
Viburnum opulus var. opulus	European Cranberry (shru	b)					
Viburnum plicatum	Doublefile Viburnum (shru	b)					
Tier 4: Widespread	and abundant		Pre	sence		comments	
		NE	SE	SW	NW		# of Plant
Alliaria petiolata	Garlic Mustard						1: 1-10
Ligustrum vulgare	Common Privet (shru	b)				·	2: 11-50
L. morrowii, L. tatarica	Bush Honeysuckles (shru	b)					3: 51-10
Phalaris arundinacea	Reed Canarygrass						4: 101-1,(
Phragmites australis (wetland)	Phragmites						5: >1,00
Polygonum cuspidatum	Japanese Knotweed					7	
	Glossy Buckthorn (shru	5)					
Frangula alnus				T			
Frangula alnus Rosa multiflora	Multiflora Rose (shru	۳/I					
Rosa multiflora	Multiflora Rose (shru Cattails (wetland)	-					
		-					
Rosa multiflora Typha angustifolia, T. x.glauca Cirsium arvense	Cattails (wetland)	-					
Rosa multiflora Typha angustifolia, T. x.glauca	Cattails (wetland) Canada thistle						

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

	10	9	00	7	o	ch	4	ω	N	_	mod #			
										Nort Desny	species			Project Label: PCAP Project Name(C) 28527015 Plot No.: \\
										7-1	voucher#			P
									C	Janan Janan	shrub dumps	#		PCAP
										TINE Y	아시 -	size class (c		Projec
										NEW	2 1-<2.5	size class (cm) woody stems >1m		ct Name
								٠		2	3 4 2.5~5 5~10	ems >1m		Project Name(C)Z(\$\frac{1}{2}\fra
											5 6 0 10 - <15 15 - <20			IJ.
						ę,					_			Plot No.: \U-L
											7 D-<25 25-			5
								_		-	<30 30 - <3	_		Page:
											10 5 35 - <40		,	Clevela
:											7 8 9 10 11 20 - <25 25 < 30 30 - <35 35 - <40 >40 (necord each tree)		, Li	Cleveland Metroports of
						- ST -					<del>Га</del>			_

\* IF EVIDENCE OF PEST OR PATHOGEN RECORD TOTAL SPECIES POPULATION IN THE PLOT EVEN THE NOT INFECTED

Strata	# of stem Infected	Severity (H,M, or L)	* Writ	* Write None Present if no evidence:	
Tree (size class 3 or above)	1		3	Beech (Fungus)	Asian Longhorned Beetle
Shrub			Į		
(size class 2 or below including shrub					Cligati
			T		
				Walnut (Thousand Canker)	
			_		
					11/100/11/04
Severity			1.00	*TXXXXX	MONDE STEPLE
High = more than 50% of leaf/needle cover exhibiting symptoms	eedle cover	exhibiting sym	ptoms	820	00 00 00 00 To
Medium = Less than 50% of leaf/needle cover exhibiting symptoms	if/needle cov	er exhibiting s	ymptoms	DOSECO LOSSECO	CA HOLL BY AL
Low = Only a few leaves or branches are exhibiting symptoms	nches are ex	chibiting sympt	oms		

CLEVELAND METROPARKS Plant Community Assessar  Project Label: PCAP Project Name  Project Name  STANDING BIOMASS (required for emergent wedlands) collected in 0.1 in clip plots (32-32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C7-check when collected	PCAP PCAP  ired for emergen rom conters 1 and rome calculation. (	Pro Pro it wedland 3 in each 27=check	y Assessm oject Name: li) collected intensive when	CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover aparEarth Surface  Project Label: PCAP Project Name: CSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS
STANDING BIONIASS (requision 0.1m clip plots (32x32 cm) from the Required for ViBI-E s	sired for emergen rom corners 1 and core calculation. (	it welland 3 in each 17=check	is) collected intensive when	
collected			D II	CLASSIFICATION
Module #	C7	Comer	Corner Corner	(FTT = excellent, g Fit and Confidence

CLASSIFICATION		
FIT = excellent g Fit and Confidence		
Hydroecomerobic class (WETLANDS ONLY):		
a DEPRESSION	1	Conf-
a IMPOUNDMENT a Beaver a Human	F.	Confa
D RIVERINE II Headwater II Mainstein III Channel	3	Conf*
E SLOPE (ground water by drology or on a physical slop)	₽ 	Conf*
o FRINGING o Reservoir o Natural Lake	F	Conf=
to COASTAL (specify subclass)	<b>#</b>	Conf=
n BOG (strongly, moderately, weekly umbrotrophic)	Fite	Conf=
Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):	KATIN	
a FOREST a swamp forest a bog forest a forest seep	<u> </u>	Conf*
to EMERGENT to marsh to wel meadow: to open bog	<u>平</u>	Conf
a SHRUB a shrub swamp to tall sh. bog a tall sh. fen	File	Conf=

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only	
tanks for microhabitat features. Selections or select two and average the score,NOTE: If modifals on a stope sulomatically gets ranked based on seepness (1-3) to begin + any features present	tomestically gets ranked besed on seepness (1–3) to begin $\star$ any features present
lape 1 = sight elevatoral grade across module (hill) Stope 2 = talts on slope -20 *	Stope 3 = maximum steepness that can be safely sampled -45"
leature is absent or functionally absent from the wettand	
feature is present in the wetland in very small amounts or if more common, of low quality	

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

			ļ						
	σ	0	W	70	G	0	0		2
	ري ا	O	J	١٩	Q	d	C		Ø
70%	S	0	2	O	9	O	0		V
7	7	C	6	Ī	9	<b>3</b> 7	0		4
(rank)	(rank)	(osuni)	(count)	(count)	(count)	(count)	(count)	1347403	mod#
10x10m	10x10m	10x10m	10x10m	I Dx l Om	10x10m	3.16x3.16m	lx lm		
SLOPE	depth I	depth I	depth 1	depth (	depth 1	depth 2	depth 3		
						uplands (Tip-Ups)			
	interspers.	XII CIN	(12-40cm)	(2-12 cm)	depressions	hummocks	tussocks		
microhal	microhab.	CWd	c.w.d	C.W.d	no macro.	no. of	no. of		
		c.w.d count for places with minimum is length	t for pieces with	c.w.d count					

Plot No.: 104

# Page: 1 of 1

McNAB INDICES (degrees) + for up - for down

[FILLED OUT USING OIS PROGRAM - DO NOT FILL OUT IN FIELD]

,÷	,t-	A-				_	L	-
+315 degrees	i ≠270 degrees	223 degrees	1 50 degrees	135 degrees	90 degrees	45 degrees	Al aspect	
WN	W	WS	S	SE	8	NE	z	
								LFI+
								TSI
	away.	e) e of person	recorders eye to	TSI measure	angles formed by local slopes. For	horizon. TSI is	LFI is angle of	

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

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

				3	-
9	04	9	2	Medale	
G	C	0	と記る	2	
_	N	G	C	S	
Q	D	C	C	)	
	7	C	N	¥	

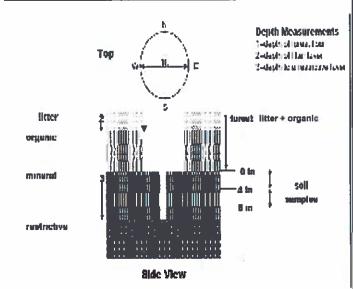
#### **COVER BY STRATA**

STRATUM	GENERAL FORM
Tree (generally >5 m)	Tree (overstory), very tall shrubs*, tiana, 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.



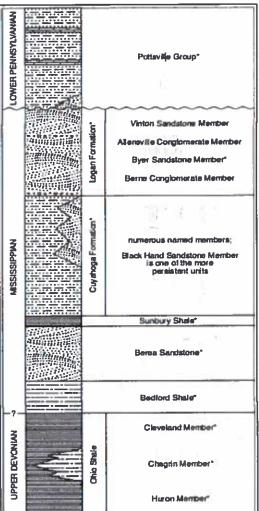


FIGURE 3-20.—Generalized section of Upper Devonian, Ministription, and Lower Pennsylvanian formations in northeastern Ohio Asteriaks indicate units that are feasible tous. This composite section represents about 400 meters of rock exposed across the area. The section is not to each, but the thicknesses indicated are proportional. The term "Waverty" is used in the older literature to refer to Mississippian rocks in Ohion-Some geologists use the European term "Carboniferous," which encompasses the Missingpian 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 missing over great distances. The Black Hand Member is a spectacular missing the first distances of 1960, and Collina (1979) for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of rock types.

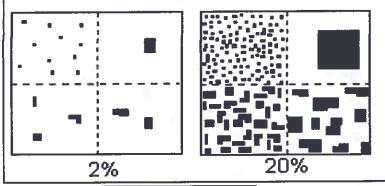
8-MOMS 3 \*\* e.g. hydrogen sulfide odor, gleying, etc. 20 cm Soli pit module # Project label: PCAP CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a Votes: include evidence of earthworms (worms eindundated S-saturated Memoist Dedry nefer to texture classes on reverse side SOIL PIT DESCRIPTION: Excavate 20 cm plug wih shovel. Describe using Munsell chart, 9 visual exam, texture, and odor Sames -TO LONG 6aCM PCAP Solis\_Crown cover\_Landform\_Standing Bythass\_own Sheet\_ver 3.4s last revised 8/4/2012 cell matrix color lexture\* matrix color redox features\*\* lexture\* tydro. cond.\*\*\* axid roots ydr. cond \*\*\* edox features\*\* xid roots mottle & sandow ottle color Bothe ottle color (one per entire plot) S -< SMD Project Name 223572015 Z z z z U costings poort 0.1 cm in center of intensive modules. If >30.5 cm, Depth to rest. Layer Soil Series Source: Ohio Soil Survey SOIL SAMPLES Standard procedure: collect a soil sample of the top 10 cm of soil from center of each micrasive module and composite the sample SOIL DEPTH MEASUREMENT: Measure to the neares Impermeable surface Somewhat poorly dr. Well drained Excessively dr. Soil Series/Type: Soil Collection Modul (Horizon (A. B. C) ecord as >30 3.8,9 composited andform type: rent Material th Sall Survey Inform AINAGE: organic depth Moderately well dr. □ Somewhat excessively depth (cm) 2 litter a Very poorly dr. water depth 1 depth sat soil (cm) ) \*\*\*\* <5 cm in diameter EARTH SURFACE & GROUND COVER \*\*\* >5 cm in diameter \*Boulder = > 10 in Historol Gravel-Cobble\* Gravel-Cobble = 1/16-10\* loulder\*\* dineral Sort PK001 - 1407 inderlying Earth Surface\* 73 3 섫 Plot No .: 1047 087. SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE. COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13 rooted and floating or slightly emersed (Aquatic)\* (Floating)\* submersed, most plant mass below surface Herb Shrub 쿲 Strata Other Water Fine Woody Debris\*\*\*\* Ground Cover Bare Soil 00 00 Bryophyte- Lichen Duff (Ferm.+ Humus Coarse Woody Debris\*\*\* (Each < 100%) Load/Trail Height Range (m) otal Cover (%) 38 8 5 -) et et × 70 1-3 x plot size STAND SIZE > 100 x plot size 10-100 x plot size < plot size 3-10 x plot size >600 x plot size

Page: 1 of 1

n Dear Gravel Hiking sanctioned γþe TRAIL INFORMATION: Bootleg unsanctionex All Purpose scord type and cover for each Bridle NONE %Cover

PERCENT MOTTLES (USE CLASS CODES): Code

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

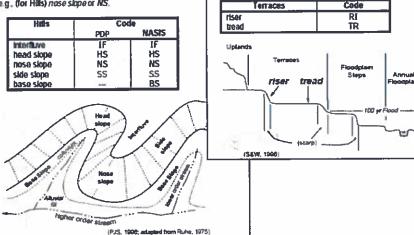


SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but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

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

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



Hillstope - Profile Position (Hillstope 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.

Position	Code
summit	SÚ
shoulder	SH
backslope	8S
Tootslope	FS
toeslope	TS



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.