	ROPARKS Flam Community Asse	ssment Progra	m: Quality Centrol Form Cleveland Metroparks
Project Label:	РСАР	Plot	m: Quality Control Form October Sampled: 8/10 Lead: Extended: Ex
1911	26 5800	articles of	Comment required if item answer is NO
Parking/Access outsid	e of Park Boundaries:	Y N	If yes, write details in Comments section below
Field journals comple	ed	Ø N	
Site sketch made on 1	:3000 map?	/V N	
Check cover page	X-axis Bearing of plot recorded	N (Y)	
	GPS coords. Recorded	Ø N	
	North direction recorded	N (V)	
	Photographs taken?	Ø N	
	Relocated Pins Mapped	(Y) N	
Plot No., Date agreem		(Ŷ) N	
Header data complete		N (V)	
	d in all Intensive modules	(v) N	
Browse Level By Spe		(V) N	
Woody stem quality c		(¥) N	Check every line and cross check with the Tree Cover Sheet
Invasive plant quality		O N	
Ash trees mapped		Ø N	
Completed Forest Pes	t/Pathogen Datasheet	(Y) N	
Cover by Strata? (con		Y N	
	with matching plot #.	(Ŷ) N	
Cross check 2010 info		(Ŷ) N	Highlight any changes from 2010 information
	atasheet with initials and number	M N	ingingically changes from 2010 thromation
Vouchers labeled on o		(Ŷ) N	
Pink flags removed	onceion bag	N (Y)	
Data sheet QA before	lenving site?	G N	
Common equipment r		(Y) N	
Data sheets scanned?	ctained to tab.	 '''	Enter date to left
Final data sheets scan	nod?		Enter date to left
Pinar data sheets sean Buffer Widths measur		Ø N	
Web Soil Survey	eu:	YN	
	Deficientos	YN	
Voucher Location	Refrigerator	T N	F-4
(# vouchers collected)	Press (#)	V 11	Enter number to left
SKEME	Drier Literational	YN	
215-110	Identified	YN	+
4.0	Mounted	Y N	
	Thrown away	YN	
	<u></u>	<u></u>	
	tion: Is plot sampleable?		
Yes	Original GRTS point is sampleable		
□ No	Original GRTS point lands in a non-		a (fill in category below)
	Depoint falls in a water (i.e. river,		
	Managed mowed area (i.e. golf	course, picnic area	right-of-way)
	Paved area (i.e. parkinglot, road) Unsafe to sample (i.e. steep slop	c)	
	Other	-,	
Additional Commen	•		
	= :		
			ı

PLOT NOT SAMPLED: CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet □ Perm. water □ Paved □ Slope □ Safety GENERAL INFORMATION Minimum required fields in Bold and Underlined TAXONOMIC STANDARD TAXONOMIC ACCURACY Wery thorough Plot Name: North Slope of Accurate Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc. nd date (if > 1 day): ate (mm/dd/yyyy): 08/10/2015 SSMON Eusenbach Level 5 (nested corners sampled) Level 4 (no nested corners sampled) the creat 02WC261 may still provide good sampling. Hurried plots how much effort put into subjective evaluation of Role** Plot leader 15 of Asst o Other Plot placement: VORTS GPS location in plot x=0 to 5, y=-1,0,+1): Coordinate system: Source of coordinates - MAP If data not public why Data Confidentiality Camera No.: C 2 Plot size for cover data: 0.05 GPS File Name: Coord. Accuracy: m o ft Datum: ■ NAD83/WGS84 □ NAD27 o Fuzz 100m o Fuzz 250m o Fuzz 500m LOCATION Intensive modules 2.3.8.91, 2, 3, HEDIT IF MODIFIED Depth: (1-5): 4 Lat/Long o UTM o StatePlane andowner: Local Place Names: Eash of the lenger Quadrangle: Systematic (grid) © Capture specific feature © Other Random - Stratified Random - Transect component y = 0 y = -1 (base of plot x=0, y=0) *Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide X-axis Bearing of plot: C2-1697-62 County: Caychege □ Representative deg a deg min Coord. Units (hectares) Sw corner of the entry drive and the drive to Bluebird point. Shortwalk east from the center dominants, strata, BROWSE). Additional notes in space on back content), Rationale (why here), and Veg Characterization (description of community, NOTES: Include Layout (any unusual shape details), Location (directions and in Veg Chow:
Curapy Red, Brdc, White Oak w/ Red
Meyor and Boach, 2, 1 Layout: 1x5 Location: Plot is located mear the ()→) () [4] 3 [4]

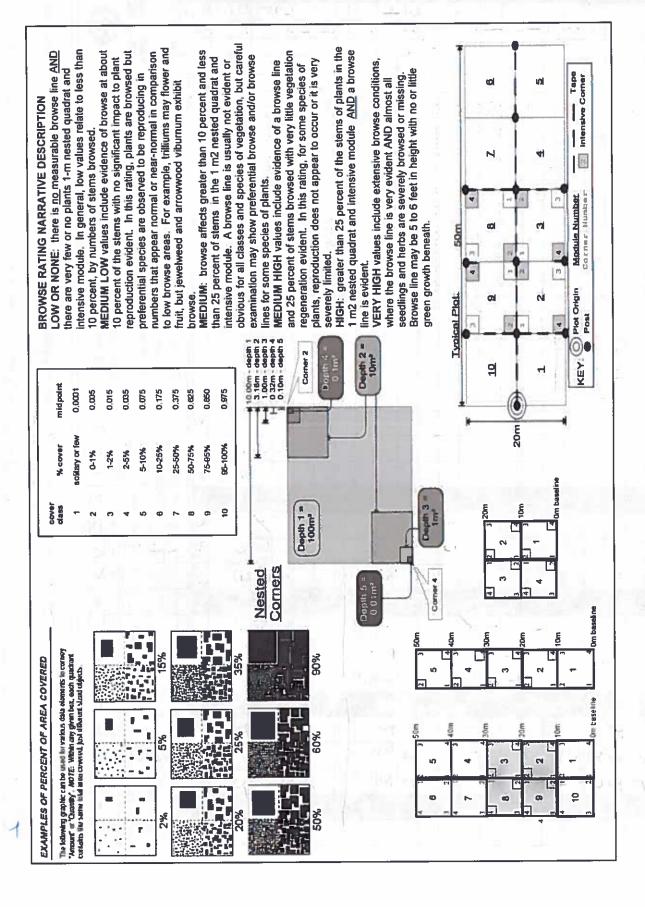
Diagram Plot origin ⊗ GPS location ○→

Key: (0,0) point ⊗ point Rationale: Gits point rosample Short: Red maple, Black charry, Black herbolouges except in mad 5 w/ the addition of the road and 50% Service berny Road with direction (Clusulund Mulmp Page 1 of 2 location of Load

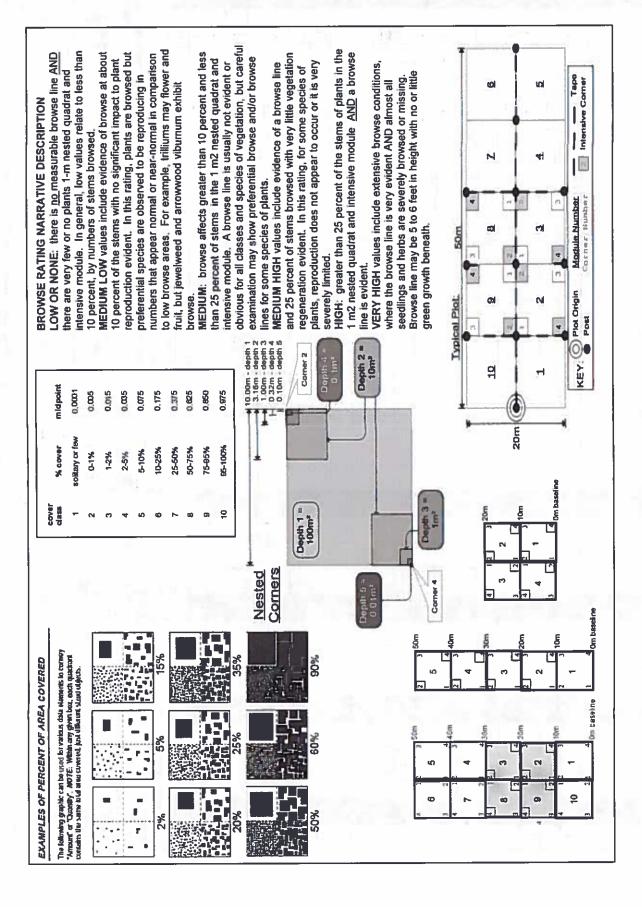
- KlypSur-L, Natural Resources Mangement FORM NR/2010-01a

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	mmunity Assessment Pro	gram - Background Data Sheet	nd Data	Sheet		Plot No.	CZTE ON BIL	Chemiuminumin
				3				
MODIFIED NATURESERVE CLASS*			DISTU	DISTURBANCES				
CODE (on separate form):	Fit= Conf=		type*	severity**	yrs ago % of plot	6 of plot	description	
D. 7.			Human	17	įλ)	20	Rosal/AP171	Fence
700			Natural	ade Fell				
COMMUNITY NAME:			Fire					
On-Mesic Dalc	J		Cut					
			Animal	I. >	0	2	(Srows &	
HOMOGENEITY			**L=low.	ML=med low	. M=med. ?	//H≖med }	**L=low, ML=med low. M=med, MH=med high, H=high, VH=very high	hgi
□ Homogeneous □ Compositional	Compositional trend across the plot		Current	Current Land Use:	CM.			
acconspicuous inclusions o Irregular/pattern mosaic	n mosaic	156	Former	Former Land Use:)			
13	HYDROLOGIC REGIME*	ME*						
	Cpland (seldom flooded)	о Ілеп	D Intermittently flooded	oded				
SALINITY*	□ Intermittently/seasonally saturated		D Semipermanently flooded	y flooded				
D Saltwater	(seldom flooded)	o Perm	Permanently flooded	pope				
o Brackish	□ Permanently/Semipermanent. saturated		□ Tidal/Seiche flooded daily	ded daily				
o Fresh	(dry <1/yr, seldom flooded)	o Tidal	/Seiche floo	a Tidal/Seiche flooded monthly				
Chland (n/a)	Cocasionally flooded (<1/yr)		/Seiche floo	□ Tidal/Seiche flooded irregular				
1 1 1 1 1 1 1 1 1	a Temporarily flooded	(c.g.	(c.g. wind, storms)	ns)				
(by default unless plot is a wetland)		n Unknown	юми					
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)	ess of plot to the stand, succession	nal status, maturity, etc	7					
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we down and most of the med is sunny w/ inclusion of Apt and Fane	st of the m	is si pa	ئر م <i>ی</i> ر	win	ه ادسك	すっ	Ast and	Fonce
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The focus of tonor is	Kray si you	deparperate - Browse is ve	tate.	- Bro	25m) N	var tras	3
Hoge Red out in mod	in medy	Several trees id as Scarlet	1 +7.	les 10	1 05	3	arett in	100 PEIO
I bullious are Black	lack or Red	0a K						
	The same							

Project Label:	Project Label: PCAP Project Label: PCAP Project name: \(\frac{\gamma_1\lambda_1\lambda_2}{\gamma_1\lambda}\) \(\frac{\gamma_2}{\gamma_1\lambda}\)	Project name: ハンノナレフハトラ	S COAR	2	√	P	Plot no.: 3737	ω	737	(١.	96	1	5
Total modules:	5	Intensive modules:	T	Plot	Plot configuration:	ration	L	SXI				Plot	агеа	(ha):	Plot area (ha): <u>().05</u>	0
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		Estimate for each	- 4	E	_		•	1	W	c	W	1	2	T	Į	1
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Cleveland	describe amount of browse per species over	%open water	10			0			1	0				O	100	
Metroparks	entire plot	%unvegetated open water	1		1	0		18 8	1	9	1	100	80	0	3	
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Project Label: Total modules:	Project Label: PCAP Project name: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Project name: <u>\\)2\\\(\)2015</u> Intensive modules: \(\)4 Plot co	22mcs	2015 Plot Plot configuration:	Plot n	Plot no.: 3132	32	₽	Plot area (ha): 6.00	a (ha):	5 h	6.00	t
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3		Estimate for each	-	7	2 4 (2 2	2	3	7		4	7	_Z
3	Br = Browse Level. Use cover classes to	intensive module:	depth cov d	depth cov de	depth cov dept	NGD N	depth cov	depth	cov depth	VGS VE	/ depth	AGD	dep
Cleveland	describe amount of browse per species over	%open water					-		-	\vdash			
Metroparks	entire plot	%unvegetated open water					1			Ti	N.		
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CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet % COVER Strata - Cov. entire plot 6 Project Label: 뫄 Ö 60 Wiercus veluntina Acer rubrum Facus grundifolia During alba Species and smorn റ Prensence of tree mod species (X) Project name: 02 WC W S Plot no.: 3732 Voucher # 7) mod Page _ 2

Plot no.:	~ CC		\neg		_			_							-	H			\neg	
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Project name:	Prensence of tree mod species (X)	Voucher #													:			į		
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PCAP		Species																		
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Project Label:	% COVER	ā																	7.	
Projec	% COVER	ı																		

of

Page

CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet

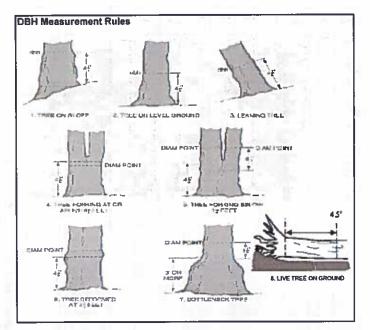
M556 0 calle velvi projecty 42.7 calue و: الرفارا Collingo in wio 200 CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 2 Hanamelis viginion 2 BULLY VUVIN 25mil xx Otunavalio 2 Rd lubur 4 Quelcus velvina 3 ALLI WALL Queicus alba mrlder 122 FOUL SUPERISONIA Prunus sentim andus juston Fagus gandifolia andieus velution Sassafras albidur Smiles atunaisolu roads grandifilm PREV YJOYUM Smiles roturaifulit Quercs Velying Bulles inpra-Quescus rubon Starting dock Quelus albor Amelanchiel Sp. Project Label: PCAP voucher# browsed stams 0-1.4m or super % sub Project Name: 02 WC20|S Plot No.: 3737 shrub * size class (cm) woody stems >1.4m 0-<1 1-<2.5 コ 2.5-<5 ; 5×10 10 - <15 | 15 - <20 | 20 - <25 ¥. Page: 25 - <30 30 - <35 : Cleveland Metropaiks 35 - <40 4.34 130.5 の、たひ 76.8 58.00 SE.0 >40 (record each tree)

KMOS 3- MISID'S ON ALL IVELLY

Natural Resources Management FORM NR/2010-03a

Suckerinde





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

10













ASH CANOPY CONDITION

- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
- 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.
- 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.



B

С

D

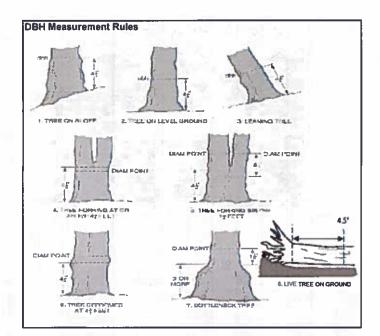
Е

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.

	Project Label: PCAP Project Name: 02 WC2015 Plot No.:		PCAP		Project	Project Name: 02 WC2015	22 WC	Soli	_	Plot No.: 373	373	2	Page:	12	<u> </u>	Cievela	Cleveland Metroparks
	Explain subsample (additional room on back):	m ba	ck):			4				1 1			ŀ				i i
				# stems	% sub	77 1000	size class	(cm) wood	size class (cm) woody stems >1.4m	1.4m						╛	
mod #	species	c	voucher#	0-1.4m browsed	or super sample	shrub	<u>የ</u> -	2 1-<2.5	2.5<5	5-<10	5 10 - <15	6 15 - <20	7 20 - <25	8 25 - <30	9 30 - <35	10 35 - <40	11 >40 (record each tre
بخ	Standing dear								544								
-5	smiles and a rating	9.		2.0								oll o					
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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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В

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CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet 25 23 13 2 20 19 17 5 ᆲ = 10 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) present Species Project Label: PCAP Project Name: DAWC2015 (CE) DE DBH @ Ash 'Dead condition ASH Only

Exit Epicomic
on holes present INTENSIVE MODULES ONLY TREES ≥ 10CM ONLY PIOT No.: 3737 Date: 5-10-15 Woodpecker holes Baseline Map all ash trees ≥10cm in each module using Tree ID number *** Change intensive module numbers when necessary ထ 4 ~ 2 Page: 1 of 2 (5) 69 <u>س</u> n

CLEVELAND METROPARKS PIR	nt Community Assessment Pr	ogran	a: Inv	asive S	pecies	Survey Clevela	nd Metropark:
Tier 1: Early detection	/ Rapid response		Pre	sence		GPS	
		NE	SE	SW	NW		Presence
Microstegium vimineum	Japanese stiltgrass						X: yes
Ranunculus ficaria	Lesser Celandine	1				1 1 11	
Cynanchum louiseae (vine	Black Swallow-wort	\top					
<u> </u>) Flowering Rush						7
Heracleum mantegazzianum	Giant Hogweed						7
Tier 2: Assess		1 Au	# of	Plants	<u> </u>	comments	li l
		NE	SE	SW	NW		# of Plants
Acer platanoides	Norway Maple						1: 1-10
Ailanthus altissima	Tree of Heaven			-			2: 11-50.
onicera japonica (vine)		1					3: 51-100
ythrum salicaria (wetland)		1	-	1			4: 101-1,00
Aegopodium podagraria (G-cover)		1				V	5: >1,000
Celastrus orbiculatus (vine)	· 	1	1	1		1201	1
Forilis sp.	Hedgeparsley	\top	1			101	1
Conium maculatum	Poison Hemlock				1	1/0 1/0	1
Rhamnus cathartica	Common Buckthorn (shrub	1		1	\vdash	N N	1
Berberis thunbergii	Japanese Barberry (shrub		+				1
Alnus glutinosa	European Alder	4				1000	1
	Cut-leaf Teasel	+		+		X	1
Dipsacus laciniatus Elaeagnus umbellata	Autumn Olive (shrub	, 		-			1
		_		+			-
Lonicera maackii	Amur Honeysuckle (shrub	' 	+	-			-
Euonymus fortunei	Wintercreeper		M as	Plants			1
Tier 3: Presence	is or interest	NE	SE	Isw	NW	comments	# of Plants
Convelled mainly	It the of the Malloy	INC	35	344	MAA		1: 1-10
Convallaria majalis (G-cover		-	+-	1	-		2: 11-50.
Coronilla varia (G-cover		+	+	+			3: 51-100
Eleutherococcus pentaphyllus	<u> </u>	4	+	+			4: 101-1,00
Pachysandra terminalis (G-cover		,	+	+-	┼──		5: >1,000
Philadelphus coronarius	Mock Orange (shrub	"		+			3: 21,000
Pulmonaria officinalis (G-cover				-	-		┥
Rubus phoenicolasius	Wineberry	+	+	 			-
ris pseudacorus (wetland		+-	+	-		-	-
Ornithogalum umbellatum	Star of Bethlehem		+-	-	-	<u></u>	-
Viburnum opulus var. opulus	European Cranberry (shrub		+	+-	-		-
/iburnum plicatum	Doublefile Viburnum (shrub		Dave			**********	-
Tier 4: Widespread	and abundant	ATP		sence	Lanar	comments	# of Blance
All's de makining	Coulta Naviere - 3	NE	SE	SW	NW		# of Plants
Alliaria petiolata -	Garlic Mustard			+	 		1: 1-10
Ligustrum vulgare	Common Privet (shrub	_			-		2: 11-50.
L. morrowii, L. tatarica	Bush Honeysuckles (shrub	} 	+	 			3: 51-100
Phalaris arundinacea	Reed Canarygrass	+	+	-	-		4: 101-1,00
Phragmites australis (wetland)	Phragmites	-	_	+-			5:_>1,000
Polygonum cuspidatum	Japanese Knotweed	+-			 		-
Frangula alnus	Glossy Buckthorn (shrub)	_		-			-
Rosa multiflora	Multiflora Rose (shrub	4	-	-	₩		4
Typha angustifolia, T. x.glauca	Cattails (wetland)	+-			<u> </u>		4
	I m a server	1	1		<u> </u>		
Cirsium arvense	Canada thistle	+	_				
Dipsacus fullonum	Common Teasel					+	4
_						-	1

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

10	9	8	7	6	ڻا ن	4	ω	2		mod #			CLE
					5 Fagus glove foll	4 tagus graveibli-	1.	Forges granzifation	Fo-aus granditulia	species		Project Label:	CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Sheet
										voucher#		ק	Communit
										clumps	qruqs #	PCAP	y Assessme
										0-<1	size class (cm) woody stems >1m	Proje	nt Progran
										1-<2.5	(m: / yoody	ct Name:	7 Forest
									•	2.5-<5	stems >1	Project Name: 02WCZ015	Pest an
										5-<10	=	C 201	d Patho
				The second second						10 - <15 15 - <20	un		gens Da
					•					15 - <20	.	olot No.:	ta Shee
American designation of the second										20 - <25	7	Plot No.: 3737	*
										25 - <30	.	12	
										30 - <35	ω .	Page:	~
										35 - <40	10	-	Clevela
										20 - <25 25 - <30 30 - <35 35 - <40 >40 (record each tree)	=	o.	Cleveland Metroparks
1												_	

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

Strata infected	# of stem Severity infected (H,M, or L)	* Write None Present if no evidence:	
Tree (size class 3 or above)	٦	Pack + Beech (Fungus)	And San Longhorned Beetle
Shrub		31	
(size class 2 or below including shrub clumps)		Hemlock (HWA)	Other Pest or Pathogen

Walnut (Thousand Canker)

Severity
High = more than 50% of leaf/needle cover exhibiting symptoms
Medium = Less than 50% of leaf/needle cover exhibiting symptoms
Low = Only a few leaves or branches are exhibiting symptoms

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. C?=check when CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface
Project Label: PCAP Project Name: 0 るいて 2015 Aodule # ន

Plot No.:

3737

Olevel and Hetroparts Page: 1 of 1

CLASSIFICATION		
(FTT = excellent g Fit and Confidence		
Hydrogenerakie dass (WETLANDS ONLY)		
a DEPRESSION	골 	Conf =
o IMPOUNDMENT to Beaver to Human	7	Conf=
o RIVERINE o Headwater o Mainstein o Channel	₹ 	Conf-
a SLOPE (ground water hydrology or an a physical slope	Fire	Conf-
o FRINGING o Reservoir o Natural Lake	Figu	Conf*
a COASTAL (specify subclass)	Fitz	Conf
BOG (strongly, moderately, weekly ombrotrophic)	Film	Conf=
Ohio ETA VIBITIANI Community Class (WETLANDS ONLY):	Ä	
o FOREST a swamp forest a bog forest a forest soop	Fil.	Conf=
O EMERGENT of marsh of well meadow of open bog	i I	[Col. 1
O SHRUB o shoub swamp o tall sh. bog o tall sh. feri	Fitz	Cont

Slope 1 = sight elevational grade across module (NII) Slope 2 = talls on slope -20* Slope 3 = maximum sleegmess that can be safely sampled -45* (a feature is pleant or functionally absent from the welland feature is present in the welland in very small amounts or if more common, of low quality feature is present in moderate amounts, but not of highest quality, or in amail amounts of highest quality (c.w.d count for pleases with minimum trail langer) no of no. of no. macro. c.w.d. c.w.d. c.w.d. c.w.d. interchab. microhab. microhab.	0 0 0 0
Slope 3 = maximum theepress that c	(tumos) (tumos)
en Heegress that c	depth 1 10x10m (count)
	depth 1 10x10m
	SLOPE 10x10m (rank)

[FILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD] McNAB INDICES (degrees) + for up - for down

CROWN CO	* Landform Index (pos ** Terrain Shape Index	+315 degroes	+270 degrees	+225 degrees	+180 degrees	+135 degrees	+90 degraes	+45 degrees	At aspect
CROWN COVER (DENSIONETER): Make 4 readings per module facine N. S. E. W. Place do count in	* Landform Index (position within tendecape) ** Terrain Shape Index (site microtopographic shape)	s NW	W	s WS	t/s	SE	Е	NE	z
Make 4	ape)		away.	standing ~ 10 m	recorders eye to	TSI measure	angles formed by local slopes. For	horizon, TSI is	LFI is angle of

4	4 8	5 2	4	Module
0	_	1	0	z
0	٥	0	0	C/s
_	_	0	0	m
0	-	7	_	ŧ

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

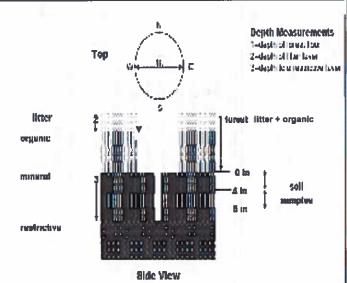
	STR	

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.



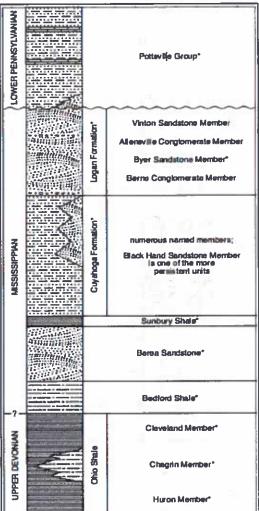


FIGURE 3-20.—Generalized section of Upper Devenan, Misisseppian, and Lower Pamaylvanian formations in northeastern Ohio. Asteriaks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Waverty" is used in the older literature to refer to Mississeppian rocks in Ohio. Some geologists use the European term "Carboniferous," which encompasses the Mississeppian 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 missive sandstone that is fairly widespread but discontinuous. See Hyde (1253), Hoover (1960), and Colins (1979) for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of rock types.

(Cacycland Metroparks

Page: 1 of 1

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

Soil pit module # ____ (one per entire plot)

20 cm E CM matrix color matrix color lexture* hydr. cond. redox features** xid roots 'amortic edox festures** oxid roots nottle color ottle color monde amine, I S M D z z

refer to texture classes on reverse side hydro, cond *** 1 S M D

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

indundated S=saturated M=moist D=dry otes: include evidence of earthworms (worms, strings, middens)

4 - No worms 2 - lastings present - No not ms firsen - no wims posts

> 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: Parest Material: DEALINGER © Excessively dr. © Somewhat excessively © Well drained © Moderately well dr. © Somewhat poorly dr. © Very poorly dr. © Impermeable surface	Soil Series Source: Ohio Soil Survey	Web Sall Servey Information:	2,3,8,9 composited A	Soil Collection Modul Herizen (A, B, C)
--	--------------------------------------	------------------------------	----------------------	---

JREMENT: Measure lensive modules, If:	SOIL DEPTH MEASUREMENT. Measure to the nearest 0.1 cm in center of intensive modules. If >30.5 cm, record as >30	record as >30	cm in center of in	HL DEPTH MEASU
= 2	If >30.5		tensive modules.	JREMENT: Meas
	30.5 0 the		=	[]

10000				
modil	l litter+ organic depth (cm)	2 litter depth (cm)	water depth (cm)	depth sat soil (cm)
-	24	3.4	0	0
2	3.5	5.5	0	5
3	2.9	2.9	0	0
4	2,0	7.0	0	C

Underlying Earth Surface	h Surface*	Ground Cover
(Sum - 100%)	percent	(Each ≤ 100%)
Histosol	١	Coarse Woody Debrus***
Mineral Soil	25	Fine Woody Debris****
Gravel-Cobble*	57	Litter
Boulde	1	Duff (Ferm + Humus)
Bedrock	1	Bryophyte-Lichen
• Gravel-Cobble = 1/16-10	1/16-10*	Water
••Boulder => 10 m	s	Bare Soil
••• >5 cm in diameter	neter	Rosd/Ind
eete os am diameter	meter	Other

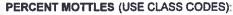
Strate	COVER BY STRATA estimate using midpoir
Height Range (m)	COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13
Total Cover (%)	,ex:3, 8, 13
8	*

Strate	Height Range (m)	Total Cover (%)
Tree	5 - 7	78
Shrub	0.5.5	43
Heb	2.0.0	13
(Floating)*		0
(Aquatic)*		0
* moded and #	rooted and floating or slightly emersed	***
** submersed,	** submersed, most plant mass below surface	w surface
SEE BACK OF	SEE BACK OF PAGE FOR TYPICAL STRATA	SEE BACK OF PAGE FOR TYPICAL STRATA

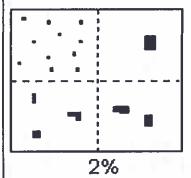
□ 1-3 x plot size

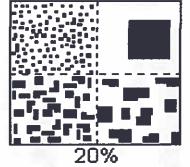
< plot size

	□ 10-100 x plot size	a > 100 x plot size	a >600 x plot size	S UNIVIC												
SIZE	lot size	(size	¢ size	SIZE			THE THE	Deer .) Gravel	Boolleg unsanctioned	Hiking sanctioned	o Bridle	XII Purpose	Туре	record type and cover for each	TRAIL INFORMATION:
							2-11						2	%Cover	reach	N.



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



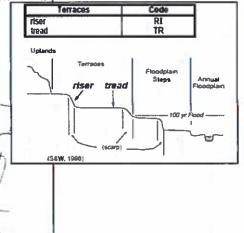


SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but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

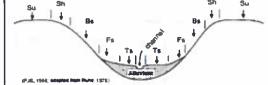
Geomorphic Component - Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains;

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



Hillstope - Profile Position (Hillstope Position in PDP) - Twodimensional descriptors of parts of line segments (i.e., stope 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.

Summit	
Summit	SU
shoulder	SH
backslone	BS
footslope	FS
toeslope	TS



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

UPLAND: Not a wetland. Very rarely flooded.

(PJS, 1006)

INTERMITTENTLY/SEASONALLY SATURATED: Dry at least once per year. Surface water is seldom present, but substrate is saturated to surface for extended periods during the growing season.

PERMANENTLY/SEMIPERMANENTLY SATURATED. Dry less than once per year. Surface water is seldom present, but substrate is saturated to surface for extended periods during the growing season. Equivalent to Cowardin's Saturated modifier.

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

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

INTERMITTENTLY FLOODED: Substrate is usually exposed, but surface water can be present for variable periods without detectable seasonal periodicity. Inundation is not predictable to a given season and is dependent upon highly localized rain storms. This modifier was developed for use in the arid West for water regimes of Playa lakes, intermittent streams, and dry washes but can be used in other parts of the U.S. where appropriate. This modifier can be applied to both wetland and non-wetland situations. Equivalent to Cowardin's Intermittently Flooded modifier.

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

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

UNKNOWN: The hydrologic regime cannot be determined from the available information.

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•							FOI	RM B-1:	BUFF	ER	SAI	IPL	EP	LO1	rs (F	ront)		Review	ved by	(initial)):	= (
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mall Trees (<0.3m DBH	0	0	9	0	0		Small Trees		0	0	0	0	0		Small Trees	, ,	0	0	0	0	0	
	-5m HIGH)		0	0	®	0			n-5m HIGH)	0	0	0	0	0		(0.5	ibs, Saplings im-5m HIGH)	0	0	0	0	0	
	.5m HIGH)	•	0	0	0	0			0.5m HIGH)	0	0	0	0	0		(-	ibs, Saplings 40.5m HIGH)	0	0	0	0	0	
Herbs, F	orbs and Grasses	0	0	0	0	0		Herbs,	Forbs and Grasses	0	0	0	0	<u>O</u>		Herbs	Forbs and Grasses	0	0	0	0	0	
Bare	ground	0	0	0	0	0		Ban	ground	0	0	0	0	<u>O</u>		Bai	e ground	0	0	0	0	0	
Lit	ter, duff	0	0	0	0	0		Li	tter, duff	0	0	0	0	<u>O</u>		Ŀ	itter, duff	0	0	0	0	<u> </u>	
	Rock	0	0	0	0	0			Rock	0	0	0	0	0			Rock	0	0	0	<u>O</u>	0	
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Road - fou	ur lane			0	0	0		Water Lev	el Contro	l Stru	cture	5	0	0		Row Crops				0	0	0	
Parking Lo	ot/Paven	nent		0	0	0		Excavation	Chatteette, A	ng		0	0	0		Fallow Fiel ROW CROP PIEL Fallow Fiel	.D)		NG	0	0	0	
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Suburban		Idai		0	0	0		Wall/Ripra	00 Aug 12 Not0	USUIE		0	0	0		Orchard				0	0	0	
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Trash				0	0	0		Impervious (SHEETFLOV	surface			0	0	0		Gravel Pit				Ö	0	Ö	
Other:				0	0	0		Other:	<u>v)</u>			0	0	0		Irrigation				0	0	o	
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Water hyacinth	0	0	0		Knotweed	0	0	0		Kudzu	0	0	0	
Yellow Floating Heart	0	0	0		Japanese Knotweed	0	0	0		Multiflora Rose	0	0	0	
Giant Salvinia	0	0	0		Perennial Pepperweed	0	0	0		Common Buckthorn	0	0	0	
Garlic Mustard	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry	0	0	0	
Poison Hemlock	0	0	0		Chealgrass	0	0	0		Tamarisk	0	0	0	n drough the
Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	0		Other:	0	0	0	
Birdsfoot Trefoil	0	0	0		Common Reed	0	0	0		Other:	0	0	0	
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Parking L	ot/Paven	nent		0	0	0		Excavation	n, Dredgir	ng		0	0	0		Fallow Fiel	D)		VG	0	0	0	
Golf Coun	se			0	0	0		Fill/Spoil B				0	0	0		Fallow Fiel SHRUBS TRE		NSS,	1000	0	0	0	
Lawn/Parl	k			0	0	0		Freshly De (UNVEGETAT	ED)			0	0	0		Nursery				0	0	0	
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