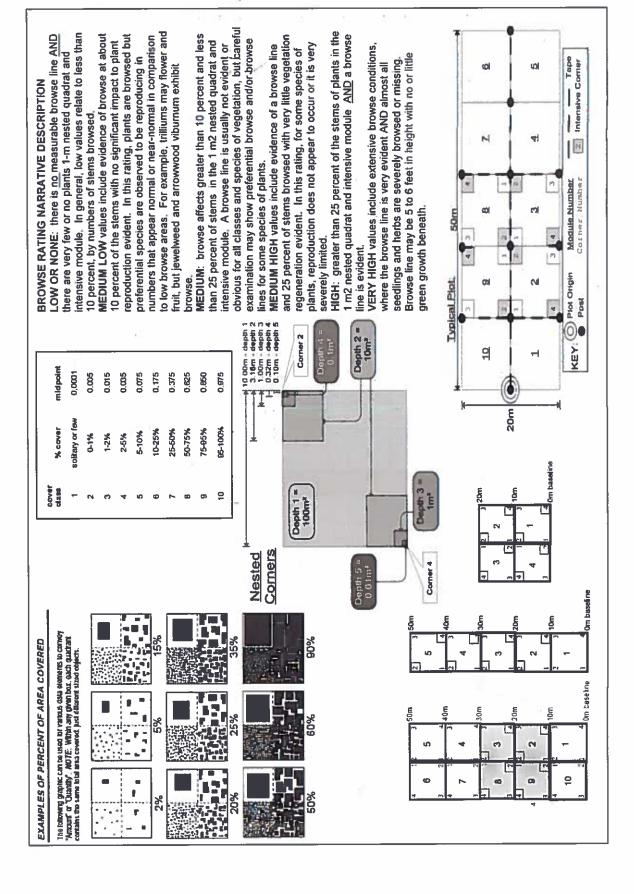
CLEVELAND MET	TROPARKS Plant Community Asse	_	
Project Label:	РСАР	Plot N	o: 1057 Date Sampled: 7/22/15 Lead: LANCE
			Comment required if item answer is NO
Parking/Access outsi	de of Park Boundaries:	YN	f yes, write details in Comments section below
Field journals comple	eted	N.V	
Site sketch made on	1:3000 map?	N	
Check cover page	X-axis Bearing of plot recorded	N X	
	GPS coords. Recorded	N N	
	North direction recorded	N	
	Photographs taken?	N	
	Relocated Pins Mapped	N	
Plot No., Date agreen	nent on all pages?	N	
Header data complete	ed all pages?	N (XX)	1 100 5 17 100
Cover classes recorde	ed in all Intensive modules	И	
Browse Level By Spe	cies	N (Sec)	
Woody stem quality	control check	YN	Check every line and cross check with the Tree Cover Sheet
invasive plant quality	control check	YN	IN/H
Ash trees mapped		Y N	WA
Completed Forest Per	st/Pathogen Datasheet	(Y) N	v / /
Cover by Strata? (cor	ıfirm cover type)	N (Q)	
Soil samples collecte	d with matching plot #.	(Y) N	
Cross check 2010 inf	omation	N	Highlight any changes from 2010 information
Vouchers labeled on	datasheet with initials and number	N	N/A
Vouchers labeled on	collection bag	y N	N/A
Pink flags removed		Y N	5 Section 1985 -
Data sheet QA before	: leaving site?	N (F	
Common equipment	returned to tub.	N (GA	
Data sheets scanned?			Enter date to left
Final data sheets scar	med?		Enter date to left
Buffer Widths measu	red?	Y N	100-001-001-001-001-001-001-001-001-001
Web Soil Survey		Y N	
Voucher Location	Refrigerator	Y N	
# vouchers collected)	Press (#)		Enter number to left
Jack .	Drier	Y N	
Wooders collected)	Identified	Y N	
No o	Mounted	Y N	
	Thrown away	Y N	1.12 20.2
GRTS point verifica	ution: 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,		
	Managed mowed area (i.e. gold	f course, picnic area, ri	ight-of-way)
	Paved area (i.e. parkinglet, road) Unsafe to sample (i.e. steep slop	ne)	
	Other Other		
Additional Commer	its:		
2015	lect Soil		
	wat our		

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	nmunity Assessment Program - B	ackground Data Sheet		CP Chevlund Mulniparts	Separate Sep
Project Label:	PCAP	Project Name: O2M S2015	S Plot No.: 105		Page 2 of 2
MODIFIED NATURESERVE CLASS*		DISTURBANCES	SE		
CODE (on separate form):	Fire Confe	type* severity*	severity** yrs ago % of plot	description	
		Human	0 100%	trash	iğ.
40-C		Natural			
COMMUNITY NAME:		Fire			
(-	Cut			
Beech-Maple Forest	rest	Animal VH	0 100%	browse	
HOMOGENEITY		**! =low MI =med	ow M=med MH=med hi	Omer **! = low MI = med low M=med MH=med high H=high VH=very high	
THOUSE STATE OF THE PARTY OF TH		1000			
deflomogeneous a Compositional	Compositional trend across the plot	Current Land Use:	PARK		
Conspicuous inclusions a Irregular/pattern mosaic	1 mosaic	Former Land Use:	KUKNOWN		
	HYDROLOGIC REGIME*				
	arpland (seldom flooded)	□ Intermittently flooded			
SALINITY*	D Intermittently/seasonally saturated	a Semipermanently flooded			
□ Saltwater	(seldom flooded)	 Permanently flooded 			
o Brackish work	o Permanently/Semipermanent, saturated	☐ Tidal/Seiche flooded daily	40.4		
o Fresh	(dry <1/yr, seldom flooded)	□ Tidal/Seiche flooded monthly	ly		
a pland (n/a)	□ Occasionally flooded (<1/yr)	о Tidal/Seiche flooded irregular	ar		
	□ Temporarily flooded	(e.g. wind, storms)			
the default unless plot is a wetland)	-	n Unknown			

Virtually no herbaceous layer present. Substential browse pressures appear to have eliminated most herbaceous species. Jack-in-the-Pulpit persists.

Area just north of plot appears to have been culturated more recently.

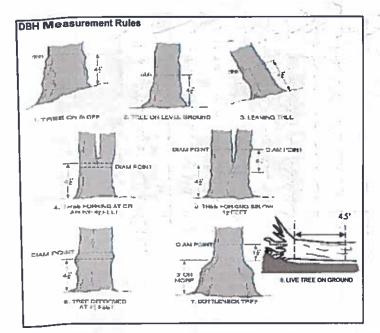
Project Label:	Project Label: PCAP Project name: 02 M v 2015	Project name:	Project name: 02Ms 2015	Plot no.:	1041	Tage	-
Total modules:	10	Intensive modules:	4 Plot con	1		Plot area (ha):	
>	7		corner mod o	mod corner mod or	mod corner mod c	med corner med	-
3		intensive module	depth cov depth cov	depth cay depth	depth cay depth	depth cay death	-
4	Br = Browse Level. Use cover classes to	Konen water	3	totale d	-	2	1
Cleveland Metroparks	describe amount of browse per species over entire plot	%unvegetaled open water	_ _ _ _))) (000	#
		%unveg. ground (bare soil)			2)		
trata - Cov. entire plot		%unveg. litter (bare litter)	1 9	1 0	19	1 9	
S H (F)(A) Br	_	c Voucher#	-	depth cov depth cov	depth cay de	depth way idepth	cov dept
2	Hrisaema triphyllum	W	3 2 2	323	S (2)	となり	
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75 79	Fagus grandifolio		<u>ရ</u>	6	れ の の	ロロコ	
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2	0		<u>ئے</u> پ	ນ			
<u>ಬ</u>	Fraxinus sp.		<u>ー</u>	g S	ر رو	s C	
5	Acer Saccharum		4	Ŋ		U)	
1 2 1 1	Smilax votundifolia						
<u>ည</u>	Acer Sp. Seedling				93		8.1
	Prenanthes sp. J			<u>နာ</u>			
<u></u>	-		<u>-</u> ي	22			200
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22	Liciodendon tulioifera				حو		
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75							
	Objection of the second of the				=		b
	9 2						(V)
	Charles and the charles and th						



Strata - Cov. entire plot % COVER CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Project Label: ᄧ Quercus rubia Acer rubrum Acer saccharum 1415 Sp. driedendon tulipitera OVOSTO grandifilia Species PCAP species (X) Project name: Damsaors Voucher # Plot no.: 1051 R SPE 9-79-15 Page ____ of

Page of																							
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ent Program Tre Project name:	Prensence of tree	species (X)	* 101000									:										-	
ESEM.			اد																				
lant Community Asse			sacces					-												:	:		
CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Project Label: Project Label:			anc				:		:														
CLEVELAND M Project Label:	VER	Strata - Cov, entire plot	ā																				
CLEV	% COVER	Strata -																					

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Explain subsample (additional room on back) STAND TO DEAD STANDING STAN AAN DINGTON ACEPSTON MONDO DE DISTORTI TOOLS CHOCK ON JOHN STONY MCCBCCCON. UNITADIAS JAC おりません SOUNT OF MICK YOUNG THE MICK CONTRACTOR OF WOOD LAND Cignolic tournings A Sandifiliza Project Label: Die 10 TO STATE OF THE PARTY OF THE PA PCAP # sterns browsed 0-1,4m or super % sub Project Name: 02MS2015 shrub size class (cm) woody stems >1.4m • 2 . . • • ŧ 1-<2.5 • 0 0 Plot No.: 105 9 9 0 6 5-<10 . 10-<15 6 . • 20-<25 Page: 25 - < 30 30 - <35 35 - <40 8 excland Metroparks 53,4 50.5 69.6 43.2 >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













ASH CANOPY CONDITION

- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
- 2. Thinning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.
- Dieback: Canopy is thinning and some top branches exposed to sunlight are dead (have no leaves). Lower branches, not exposed to sunlight, die naturally and are not considered.
- 4. >50% Dieback: The canopy has less than half of the leaves that should be there and/or half of the top branches are dead.
- 5. Dead canopy: No leaves remain in the canopy portion of the tree. It still counts as a 5 even if there are epicormic sprouts below the canopy (lowest branch) on the trunk.



В

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D

E

ASH CANOPY BREAKUP CONDITION (for dead trees):

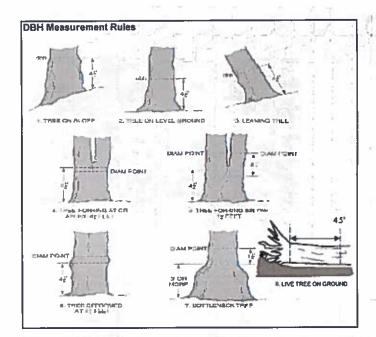
(If an ash receives a score of 5 (dead) under canopy condition it must also receive a breakup condition rank as described below)

- 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.

3aCM PCAP Natural Woody Stem Data Sheet ver 2.0.xls last revised 5/29/2012 jjm DATION CHAS 0 0 H - 6 1 Natural Resources Management FORM NR/2010-03s

53.0,55.2

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いると	HS 80	4 X 17 X 7	10050Cm	a sich w	D80.	TONE T	NO SOM	THE STATE OF	erstown	ousoandika	species		Explain subsample (additional room on back):	Project Label:	CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet
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7			YIZ			- W. C.	DIZ		5		voucher#		lok):	PCAP	community
L			• •				9 3			11		0-1.4m			Assessn
											sample	or super shrub		Project	ent Pro
			ere va								clumps	shab #	=	Name	gram .
						6	•				0-41	SIZE CHIS		ueg.	Natural
বু	1550	6	•			•				Is	1-<2.5	2		Project Name: 62.0153015	Woody :
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50.5 56.0 51%							7.30		40.8,	57.6	>40 (rec	=		N	than distance of
56,5											ech tree)				Ā
S C									day la				7.0		



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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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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- 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)

		L				. 10.	100	-						-	5							The state of	in a		Module
אַ	24	23	22	21	28	19	18	17	6	of l	4	13	12	=	6	6		7	6	ch	-	2	2	-	D Tree
											DESIGNATION OF THE PARTY OF					ALSO THE PERSON	TURNING THE							NO AS	Species
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				Map all ash trees ≥10cm in each module using Tree ID number]	22					_[•	•]			*** Change intensive module numbers when necessary				1)		
				dule using Tree ID nun					-					C	3			ibers when necessary							

all ash trees 210cm in each module using Tree ID number • N • 4

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detection/	Rapid response		Pre	sence		GPS	
		NE	SE	SW	NW		Presence
Microstegium vimineum	Japanese stiltgrass				12		X: yes
lanunculus ficaria	Lesser Celandine					73	T.
	Black Swallow-wort						
	Flowering Rush						
Heracleum mantegazzianum	Giant Hogweed						
Tier 2: Assess a			# of	Plants		comments	
		NE	SE	sw	NW		# of Plants
Acer platanoides	Norway Maple						1: 1-10
Ailanthus altissima	Tree of Heaven						2: 11-50.
onicera japonica (vine)	Japanese Honeysuckle		1	†			3: 51-100
	Purple Loosestrife			\top			4: 101-1,000
Aegopodium podagraria (G-cover)	Bishop's Goutweed						5: >1,000
Celastrus orbiculatus (vine)	Asian Bittersweet	 		 		<u> </u>	
Forilis sp.	Hedgeparsley						7
Conium maculatum	Poison Hemlock	\vdash	1				
Rhamnus cathartica	Common Buckthorn (shrub)	1	1	t			\neg
Rnamnus cathartica Berberis thunbergii	Japanese Barberry (shrub)	+	+-	+	 		┪
Alnus glutinosa	European Alder	-	+	+	 - -	:	\dashv
Ainus giutinosa Dipsacus laciniatus	Cut-leaf Teasel		+-	+			\dashv
•	Autumn Olive (shrub)	 	+	+			\dashv
laeagnus umbellata onicera maackii	Amur Honeysuckle (shrub)	\vdash	+			· · · · · · · · · · · · · · · · · · ·	\dashv
	Wintercreeper	┼──	+	+-	 	-	\dashv
Euonymus fortunei Tier 3: Presence is	<u> </u>	50,000	# of	Plants		comments	
ijei 3. Fieselies k	of flicerest	NE	SE	SW	NW		# of Plants
Convallaria majalis (G-cover)	Lily of the Valley	111		1	1.00		1: 1-10
	Crown Vetch		1	_			2: 11-50.
Eleutherococcus pentaphyllus	Five-leaf Aralia (shrub)		+	+	 	***	3: 51-100
	Japanese Pachysandra		+	+		-	4: 101-1,000
Philadelphus coronarius	Mock Orange (shrub)		+	+			5: >1,000
	Lungwort	+	+	-			
Rubus phoenicolasius	Wineberry	-	+	+	 		-
	Yellow Flag Iris	1	╢	+-	 		\dashv
	Star of Bethlehem	╁	+	+-	 	<u> </u>	-
Ornithogalum umbellatum	European Cranberry (shrub)	\vdash	+-	+	 		- 4
Viburnum opulus var. opulus	Doublefile Viburnum (shrub)	_	+		 	_ .	_
Viburnum plicatum Tier 4: Widespread			Dro	sence		comments	
riei 4. seidespicau	Sile abanestit	NE	SE	SW	NW		# of Plants
A 11::	Garlic Mustard	INC	36	311	1444		1: 1-10
Alliaria petiolata		┼~	+	-	 - -		2: 11-50.
Ligustrum vulgare	Common Privet (shrub) Bush Honeysuckles (shrub)	_	+	+	+ +		3: 51-100
L. morrowii, L. tatarica	·	+	+-	+	 		4: 101-1,00
Phalaris arundinacea	Reed Canarygrass	+	+		 	·	5: >1,000
Phragmites australis (wetland)	Phragmites	+-	+-	-	+		3. 71,000
Polygonum cuspidatum	Japanese Knotweed	+-	+-	+	 	· · · · · · · · · · · · · · · · · · ·	- -
Frangula ainus	Glossy Buckthorn (shrub)	┼	+	+-	+		
Rosa multiflora	Multiflora Rose (shrub)		+	+	+ +		\dashv
Typha angustifolia, T. x.glauca	Cattails (wetland)	╄-	+	+		<u>.</u>	-
Cirsium arvense	Canada thistle	-	+-	+	 - -		_
Dipsacus fullonum	Common Teasel	-	-	+	 		_
Hesperis matronalis	Dame's Rocket	 	-	-	 		_
Vinca minor (G-cover)	Periwinkle						
	Periwinkle						

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

4bCM PCAP Invasive species datasheet.xls last revised 6/11/2012 ceh

CLE		mod #		N	အ	4	U 1	6	7 10	8	9	10	
VELANI						(1985) (3)	10		3				Ì
METR		spe	5			2		uz.					
Proje		species	Mal	H									
PARKS Plant Project Label:			7		-				200				
Communit		voucher#	ESK			HALL			A		ş		
CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Sheet Project Label: PCAP Project Name: 02MS 2015 Plot No.: [(#±	shrub dumps	F										
ent Progra	size class (cm) woody stems >1m	<u>7</u> -											
ogram Forest Pest and Pathog Project Name: <u>Ø2MS20IS</u>	(cm) wood	2 1-<2.5											
dam	y stems >	3 2,5≺5				E			-				-
nd Path	. <u>a</u>	5-<10)										10
ogens L		5 10 - <15											
Plot No.: (OS)		6 15 - <20											
1051		7 20 - <25											
		25 - <30							_			Stead	
Page:		9 30 - <35											
⊕ cam		10 35 - <40											
Cleveland Metroparks of		5 6 7 8 9 10 11 10 - <15 15 - <20 20 - <25 25 - <30 30 - <35 35 - <40 >40 (record each tree)											,
L	+	. #e)							_				4

Tree # of stem Severthy (H,M, or L) * IF EVIDENCE OF PEST OR PATHOGEN RECORD TOTAL SPECIES POPULATION IN THE PLOT EVEN THE NOT INFECTED

MC Beech (Fungus) NOC Asian Longhomed Beetle Other Pest or Pathogen			
1	Other Pest or Pathogen	none	Hemlock (HWA)
	Asian Longhorned Beetle	100	Beech (Fungus)
		7	

Shrub (size class 2 or below including shrub clumps)

(size class 3 or above)

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

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STANDING BIOMASS (required for emergent wetlands) collected in 0. Im clip plots (32x32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C7=check when collected

		40	Module #
			C?
			Corner Corner
			Comer

CLASSIFICATION		
(FII = excellent g Fit and Confidence		
Hrdramomerchic dan (WETLANDS ONLY):		
DEPRESSION	File	Conf*
o IMPOUNDMENT o Beaver o Human	F	Conf
DRIVERINE of Headwater of Mainstern of Charact	P 	Conf*
ti SLOPE (ground water by drology or on a physical sloph	# 	Conf-
o FRINGING o Reservoir o Natural Lake	Final Park	Conf=
o COASTAL (specify subclass)	Fitz	Conf=
a BOG (strongly, moderately, weekly ambrotrophic)	File	Conf=
Obje EPA VIBI Plant Community Class (WETLANDS ONLY):	CUIN	
o FOREST a swamp forest a bog forest a forest seep	Fig	Conf.
a EMERGENT a marsh a wet meadow a open bog	Fig.	Conf
o SHRUB o shrub swamp to tail sh. bog to tail sh. for	Fi(=	Conf=

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

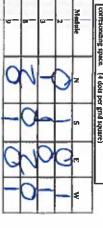
liope 1 = sight elevational grade across module (NI) whis for microhabitat features. Select one or select two and everage the score, NOTE: If mod falls on a slope autometically gets renized based on steepness (1-3) to begin + any features present Slope 2 = falts on slope -20 * Slope 3 = maximum steepness that can be safely sampled ~45"

- feature is absent or functionally absent from the wetland
- feature is present in the wetland in very small amounts or if more common, of low quality
- leature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality

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

					c.w.d count	t for pieces with	c.w.d count for pieces with minimum, I'm length		
		no. of	no, of	по. пасто.	card	c.w.d	c.w.d	microhab.	microhab
		tussocks	hummocks	depressions	(2-12 cm)	(12-40cm)	×4#cm	interspers.	
			uplands (Tip-Ups)			l			
		depth 3	depth 2	depth t	depth I	depth 1	depth I	depth t	SLOPE
		ixim	3.16x3.16m	10x10m	102102	JOX I Om	10x10m	10x10m	10×10m
modal	сотпет	(count)	(count)	(count)	(count)	(count)	(count)	(rank)	(rank)
7		9	Q	_	12	0	O	7	
3		0	0	C	2	0	O	N	
A		G	O	V	Q	0	C	1	
2		0	0		I	9	G	7	
		1							
									100

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



Page: 1 of 1

McNAB NDICES (degrees) + for up - for down

FILLED OUT USING AIS PROGRAM - DO NOT FILL OUT IN FIELD]

ů	+27	+22	±-	+13	+9	1		
115 degrees	270 degrees	+225 degrees	+180 degrees	+ 135 degrees	90 degrees	45 degrees	At aspect	
NW.	¥	SW	s	SE	en	X.	z	
								LFI
								TSI**
	away.	etanding = 10 m	recorders eye to	TSI measure	angles formed by local slopes. For	horizon. TSI is	LFI is angle of	

* Landform index (position within bandscape)
** Terrain Shape Index (site interotopognaphic shape)

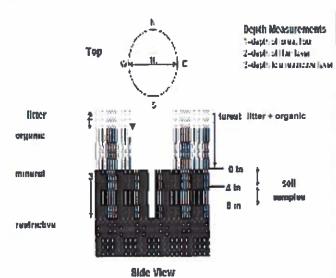
NOTE: baseck and hummocks are counted in BOTH nested quadrat corners but counts are appregated.

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.



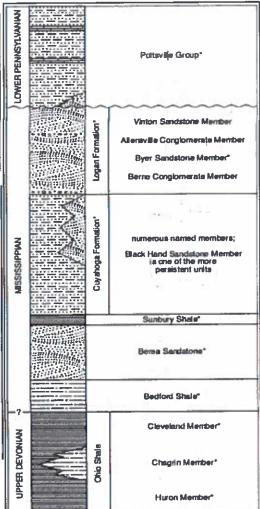


FIGURE 3-20.—Generalized section of Upper Devenias, Ministrippian, and Lower Pennsylvanian formations in northeaseern Ohio Asteriaks midicate units that are foundational. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Waverly' is used in the older interature to refer to Minessuppian rocks in Ohio. Some prologues use the European term "Carboniferona," which encompasses the Minesspian and Pennsylvanian Periods of the U.S. Many units have been named within the Cuyahoga Formation, but most units are local and cumnet be traced over great distances. The Black Hand Member is a speciacular missive sandstone that is fairly undergrand but discontinuous. See Hyde (1953), Hoover (1960), and Colins (1976) for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of rock types.

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a
Project label: PCAP Project Name: 02/MS2015
Plot No.: 105 |

(P) Cleveland Metroparks

Page: 1 of 1

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

Soil plt module #

(one per entire plot)

20 cm 6 cm тавти совог matrix color redox features** atloon bex ydr. cond.*** edox features** atoon pro nottle color mortic ttle color M D

refer to texture classes on reverse side

hydro. cond ***

I S M D

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

-indurdated S-saturated M-moist D-dry

Notes: Include evidence of earthworms (worms, castings, middens)

1 WASTERSON 2

05 3 VVO(1/V)

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

Sail Collection Modul Herizon (A. B. C)	
Table Composition	,
Web Sall Survey Information:	
Soil Series/Type:	
Soil Series Source: Ohio Soil Survey	_
Landform type:	
Depth to rest, Layer	
Parent Material	
DRAINAGE*	
to Excessively dr. u Somewhat excessively	xcessively
Well drained	well dr
a Somewhat poorly dr. a Very 1	 Very poorly dr.
o impermeable surface	

ecord as >30	cm in center of intensive modules. If >30.5 cm,	SOIL DEPTH MEASUREMENT: Measure to the mearest
ᇛ	Ħ	ğ
V.	Ď	3
8	ğ	뢰
	20	ē
ļ.	5	Š
D	Ē	流
-	51.V	蓋
	3	Ÿ
	횬	3
	es.	889
	=	5
	¥	6
	0.5	F
	3	星
		8
		74

9	8	N	7	mod#
07	1,6	1.4	107	l litter+ organic depth (cm)
0.7	6	1.4	1.7	2 litter depth (cm)
l	L	U	Ł	water depth (cm)
1	1		-	depth sat

Underlying Earth Surface*	Surface*	Ground Cover
(Sum - 100%)	percent	(Each < 100%)
Histosol	1	Coarse Woody Debris***
Mineral Soil	100%	Fine Woody Debris****
Gravel-Cobble*	1	Litter
Boulder**	١	Duff (Ferm.+ Humus)
Bedrock	1	Bryophyte- Lichen
• Gravet-Cobble = 1/16-10*	1/16-10°	Water
**Boulder * > 10 in	5	Bare Soil
*** >5 cm in diameter	icici	RoadTrail
esses of city up diameter	meter	Other

COVER BY STRATA	
- 1	
- 1	
1	
×	

estimate using midpoints of 5,ex:3, 8, 13

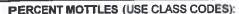
		(Aquatic)*
		(Floating)*
8%	0.5	Herb
4557	5.5	Shrub
6.28 h	2	Tree
Total Cover (%)	Height Range (m)	Strata

SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE rocted and floating or slightly emersed submersed, most plant mass below surface

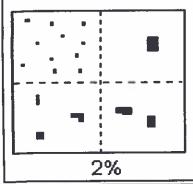
3 Deer	Gravel	Bootleg unsanctioned	2 Hiking sanctioned	o Bridle	a All Purpose	Туре	record type and cover for each
200			5			%Cover	reach

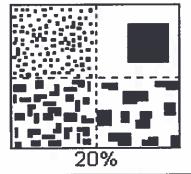
< plot size	1-3 x plot size	3-10 x plot size	10-100 x plot size	> 100 x plot size	>600 x plot size	TAND SIZE	

A TauCH POP SOLZOWN COMP. Desired Burgare Data Sheet, ver 3.34 last moved 8442012 can



Class		Code	Criteria: % of	
	Conv.	NASIS	Surface Area Covered	
Few	1	#	< 2	
Соттоп	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

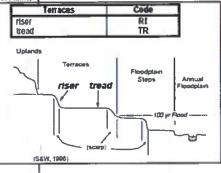
Geomorphic Component - Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique descriptors are available for Hills, Terraces. Mountains, and Flat Plains;

NASIS

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

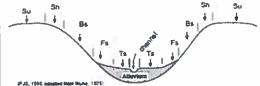
·	PUP	107-27-2	
interfluve head slope nose slope side slope base slope	IF HS NS SS	IF HS NS SS BS	
	Head slope	<i>y.</i> /	I
	H	$\langle \rangle$	
 - June		2/	1

higher order street



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	SU
shoulder	SH
backslope	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.

IPJS 1000 adapt

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 .