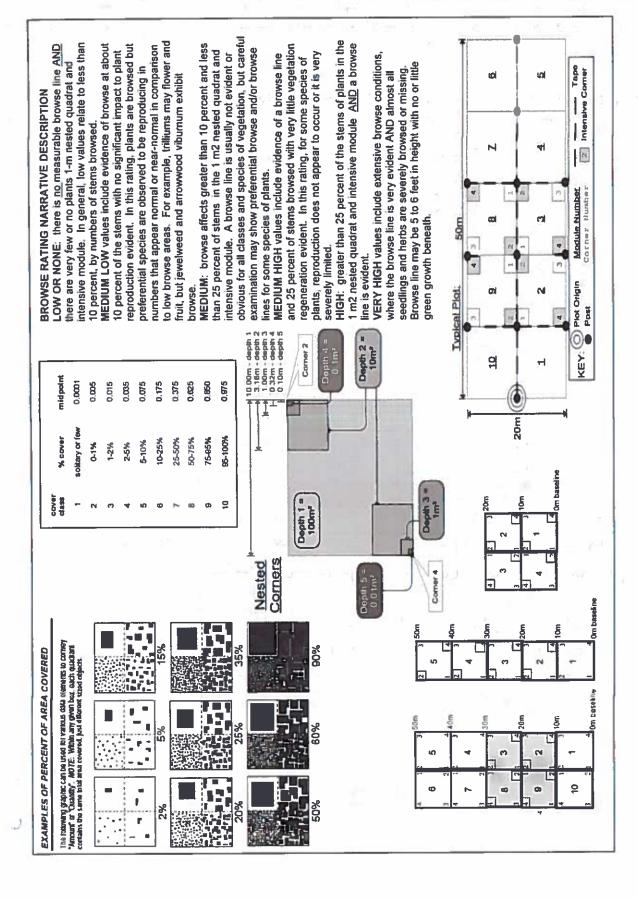
CLEVELAND MET	ROPARKS Plant Community Asses		_	
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arking/Access outsid	le of Park Boundaries:	Y	<u>(N)</u>	If yes, write details in Comments section below
ield journals comple	tcd	(S)	N	
ite sketch made on 1	:3000 map?		N	
heck cover page	X-axis Bearing of plot recorded	(v)	N	
	GPS coords. Recorded	G	N	
	North direction recorded	9	N	
	Photographs taken?		N	
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lot No., Date agreen	ent on all pages?	Ø	N	4 - 10 - V 10 10 - 10 10 10 10 10 10 10 10 10 10 10 10 10
leader data complete	d all pages?	(N	-
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Browse Level By Spe	cies	M	N	
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nvasive plant quality	control check	Y	N	A/A
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Cover by Strata? (con		(Ŷ)	N	
	with matching plot #.	Y	N	NA
Cross check 2010 info		Y	N	Highlight any changes from 2010 information
	datasheet with initials and number	Q	N	
Vouchers labeled on o		(5)	N	
Pink flags removed		Y	N	
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	Paved area (i.e. parkinglet, road)	wase, pienu	. a. ca. ngi	uru:-naj;
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Additional Commen	ts:			
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23		5	

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	mmunity Assessment Program	- Background Da	a Sheet				(Actualisme Mulnipartie
Project Label;	: PCAP	Project Name: 02 Bo 2015	B 2015		Plot No.:	Plot No.: / DO 4	Page 2 of 2
MODIFIED NATURESERVE CLASS*		DIST	DISTURBANCES				
CODE (on separate form):	Fit Conf	type*	* severity**	yrs ago % of plot	of plot	description	
		Human	\vdash				
707	=0.51	Natural	- 1		- 190		
COMMUNITY NAME:		Fire		1			10.8
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The trace plant		Animal	LT JI	Ω	90	Browse	
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HOMOGENEITY		=] *	ow, ML=med lov	v. M=med, l	√H=med h	**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high	ч
Compositional Compositional	Compositional trend across the plot	Curre	Current Land Use:	Cm			
□ Conspicuous inclusions □ Irregular/pattern mosaic	n mosaic	Form	Former Land Use:	Unk			
	HYDROLOGIC REGIME*						
	Upland (seldom flooded)	□ Intermittently flooded	flooded				
SALINITY*	□ Intermittently/seasonally saturated	□ Semipermanently flooded	intly flooded				
D Saltwater	(seldom flooded)	Dermanently flooded	Rooded				
D Brackish	Permanently/Semipermanent. saturated	nted Tidal/Seiche flooded daily	flooded daily				
o Fresh	(dry <1/yr, seldom flooded)	n Tidal/Seiche	a Tidal/Seiche flooded monthly				
O(pland (n/a)	□ Occasionally flooded (<1/yr)	□ Tidal/Seiche	a Tidal/Seiche flooded irregular				
	a Temperarily flooded	(e.g. wind, storms)	torms)				
(by default unless plot is a wetland)		a Unknown					
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)	ess of plot to the stand, successional stat	tus, maturity, etc.)					
Por Salla plan	Small chains an	Great N	54 1 is	Steep	, and	of mingue great. Med 1 is steep and man strains.	5

The pins mere hard to find and many were Missing. There is a lot of long coarse woody debris of mons [Two defined channels (mater) run through the plot-one channel has a lot of tutting/exoston.

operics Br = Browse Level. Use cover classes to Species over Species over Species over Summer ground class show over species over Species over Species over Species over Species over Species over Species over Species over Summer ground class show over side over side over sensor 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CLEVELAND MET Project Label: Total modules:	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Project Label: PCAP Project name: 02 SE 2015 Total modules: 3 Plot configuration and control	nent Program Species Co Project name: 02 Intensive modules: 3	S CO	THE PART OF THE PA	Plot configuration: Plot configuration: Plot 2 3 4	She conf	gura gura	Plot no tion:	. O	N X Z				T	ωal	ωal	ωal	ωal	ωal	Plot area (ha): 0.0
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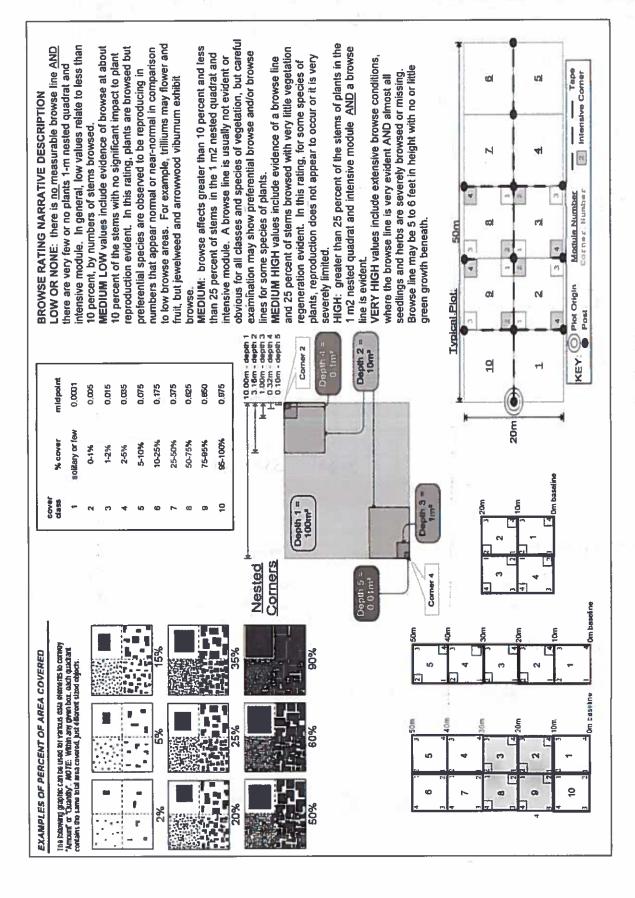


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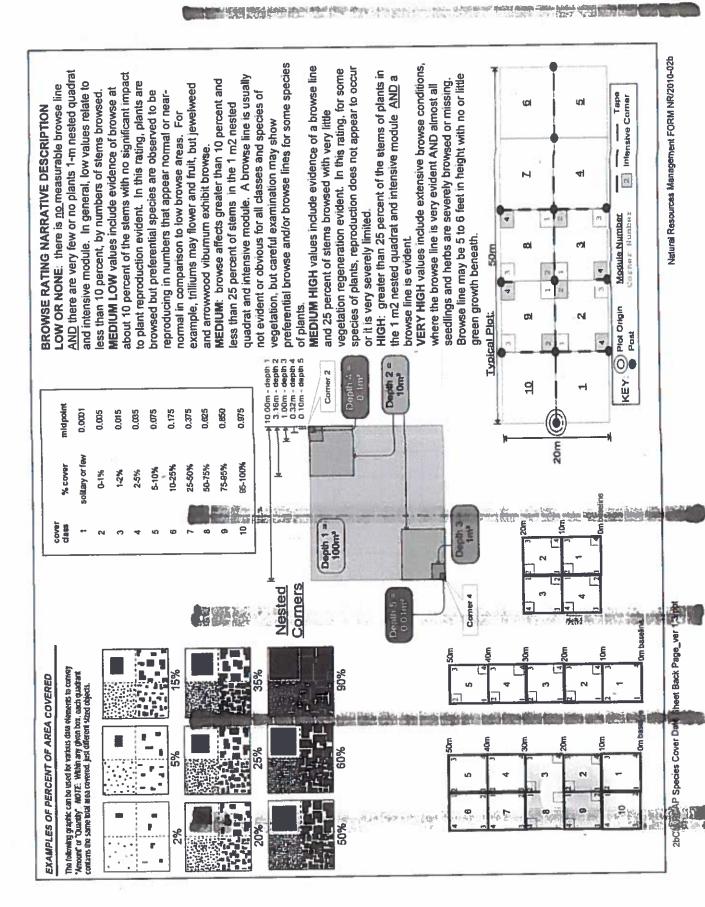
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2aCM PCAP Species Cov														1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		T S H (F)(A) Br	Strata - Cov. entire plot		Metroparks		3	>	Total modules:	Project Label:
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5/29/2012 cah														\$		c Voucher#	%unveg. litter (bare litter)	%unveg, ground (bare soil)	%open water	intensive module:	Estimate for each		Intensive modules:	Project name:
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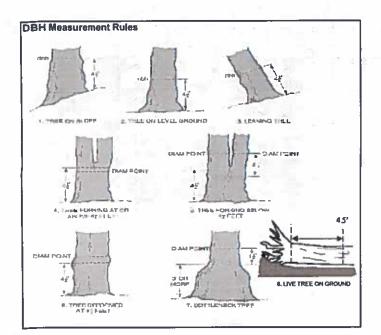
% COVER CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Strata - Cov. entire plot Project Label: 딱 Ulmus ames carely Querais rubra Liviodenton tulipitera Platanus occidentalis grunus serodina ticel sawhown Heer rubrum Umus Kubra lagnolla achminata ntarum Species species (X) Project name: 628E2015 Voucher.# Plot no.: 1004 **7**0 2 Page ____ of

CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Page Project Label: PCAP Project name: Project Name:	Prensence of tree mod med mod R R species (X)	Species c Voucher#												
CLEVELAND METROPARKS Plant Community Assessme Project Label: PCAP	% COVER Strata - Cov. entire plot	Species												

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Taylor + Emily 06/22/2015

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Berburs thunburgin STANDING DEAD Ofmus appearance Ul mus pubra Berbens thunbergi BHROSA MUHANA Agr Noum STANDING DEAD Trace was the citate Rosa multiflord Jimus rubra HOW THE WITH Chataeaus Sp. Brobens thinkenin Euronimous Allatus Lindera bemoin lonicer maccicii Lindera berzoin parthunocisms quinquet diatas pentell vertus rubra Platanus occidentalis Project Label: PCAP 1 # sterns 5 12 W 0-1.4m S 5 or super % sub Project Name OA BEDOE 0 shrub # size class (cm) woody stems >1.4m 7 1-<2.5 2.5~5 Plot No. 1004 5-<10 10-<15 15 - <20 20 - <25 Page: 25 - <30 30 - <35 Dicienciand Metroparks 35 - <40 6 45.7 78.2 >40 (record each tree) 68.7



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

C

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.

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CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



/ Rapid response		Pre	sence		GPS	
	NE	SE	SW	NW		Presence
Japanese stiltgrass						X: yes
Lesser Celandine						
Black Swallow-wort						
Flowering Rush		İ			***	\neg
						-
		# of	Plants	V - 3	comments	
	NE	SE	SW	NW		# of Plants
Norway Maple						1: 1-10
		1			<u> </u>	2: 11-50.
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Five-leaf Aralia (shrub)	_	Ħ	F			3: 51-100 4: 101-1 000
Five-leaf Aralia (shrub) Japanese Pachysandra						4: 101-1,000
Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub)						
Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort						4: 101-1,000
Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry						4: 101-1,000
Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris						4: 101-1,000
Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem						4: 101-1,000
Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub)						4: 101-1,000
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Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub)			sence		comments	4: 101-1,000 5: >1,000
Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant		Pre	sence	NW	comments	4: 101-1,000 5: >1,000
Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard			_	NW	comments	4: 101-1,000 5: >1,000 # of Plants 1: 1-10
Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub)	NE		_	NW	comments	# of Plants 1: 1-10 2: 11-50.
Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub)	NE		_	NW	comments	# of Plants 1: 1-10 2: 11-50. 3: 51-100
Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Reed Canarygrass	NE		_	NW	comments	# of Plants 1: 1-10 2: 11-50. 3: 51-100 4: 101-1,000
Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Reed Canarygrass Phragmites	NE		_	NW	comments	# of Plants 1: 1-10 2: 11-50. 3: 51-100
Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Reed Canarygrass Phragmites Japanese Knotweed	NE		_	NW	comments	# of Plants 1: 1-10 2: 11-50. 3: 51-100 4: 101-1,000
Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Reed Canarygrass Phragmites Japanese Knotweed Glossy Buckthorn (shrub)	NE		_	NW	comments	# of Plants 1: 1-10 2: 11-50. 3: 51-100 4: 101-1,000
Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Reed Canarygrass Phragmites Japanese Knotweed Glossy Buckthorn (shrub) Multiflora Rose (shrub)	NE		_	NW.	comments	# of Plants 1: 1-10 2: 11-50. 3: 51-100 4: 101-1,000
Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Reed Canarygrass Phragmites Japanese Knotweed Glossy Buckthorn (shrub)	NE		_	NW.	comments	# of Plants 1: 1-10 2: 11-50. 3: 51-100 4: 101-1,000
Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Reed Canarygrass Phragmites Japanese Knotweed Glossy Buckthorn (shrub) Multiflora Rose (shrub) Cattails (wetland) Canada thistle	NE		_	NW	comments	# of Plants 1: 1-10 2: 11-50. 3: 51-100 4: 101-1,000
Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Reed Canarygrass Phragmites Japanese Knotweed Glossy Buckthorn (shrub) Multiflora Rose (shrub) Cattails (wetland)	NE		_	NW	comments	# of Plants 1: 1-10 2: 11-50. 3: 51-100 4: 101-1,000
Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Reed Canarygrass Phragmites Japanese Knotweed Glossy Buckthorn (shrub) Multiflora Rose (shrub) Cattails (wetland) Canada thistle	NE		_	NW	comments	# of Plants 1: 1-10 2: 11-50. 3: 51-100 4: 101-1,000
	Black Swallow-wort Flowering Rush Giant Hogweed IS Needed Norway Maple Tree of Heaven Japanese Honeysuckle Purple Loosestrife Bishop's Goutweed Asian Bittersweet Hedgeparsley Poison Hemlock Common Buckthorn (shrub) Japanese Barberry (shrub) European Alder Cut-leaf Teasel Autumn Olive (shrub) Amur Honeysuckle (shrub) Wintercreeper Is of Interest	Japanese stiltgrass Lesser Celandine Black Swallow-wort) Flowering Rush Giant Hogweed S Needed NE Norway Maple Tree of Heaven Japanese Honeysuckle Purple Loosestrife Bishop's Goutweed Asian Bittersweet Hedgeparsley Poison Hemlock Common Buckthorn (shrub) Japanese Barberry (shrub) European Alder Cut-leaf Teasel Autumn Olive (shrub) Amur Honeysuckle (shrub) Wintercreeper Is of interest NE	Japanese stiltgrass Lesser Celandine Black Swallow-wort Flowering Rush Giant Hogweed Is Needed NE SE Norway Maple Tree of Heaven Japanese Honeysuckle Purple Loosestrife Bishop's Goutweed Asian Bittersweet Hedgeparsley Poison Hemlock Common Buckthorn (shrub) Japanese Barberry (shrub) European Alder Cut-leaf Teasel Autumn Olive (shrub) Amur Honeysuckle (shrub) Wintercreeper Is of interest NE SE	NE SE SW Japanese stiltgrass Lesser Celandine Black Swallow-wort Flowering Rush Giant Hogweed Is Needed # of Plants Ne SE SW Norway Maple Tree of Heaven Japanese Honeysuckle Purple Loosestrife Bishop's Goutweed Asian Bittersweet Hedgeparsley Poison Hemlock Common Buckthorn (shrub) Japanese Barberry (shrub) European Alder Cut-leaf Teasel Autumn Olive (shrub) Amur Honeysuckle (shrub) Wintercreeper Is of Interest # of Plants NE SE SW SE SW	Japanese stiltgrass Lesser Celandine Black Swallow-wort Flowering Rush Giant Hogweed S Needed NE SE SW NW Norway Maple Tree of Heaven Japanese Honeysuckle Purple Loosestrife Bishop's Goutweed Asian Bittersweet Hedgeparsley Poison Hemlock Common Buckthorn (shrub) Japanese Barberry (shrub) European Alder Cut-leaf Teasel Autumn Olive (shrub) Amur Honeysuckle (shrub) Wintercreeper S of interest NE SE SW NW NW NW NE SE SW NW NW NE SE SW NW NW NE SE SW NW	NE SE SW NW Japanese stiltgrass Lesser Celandine Black Swallow-wort Flowering Rush Giant Hogweed Is Needed # of Plants Norway Maple Tree of Heaven Japanese Honeysuckle Purple Loosestrife Bishop's Goutweed Asian Bittersweet Hedgeparsley Poison Hemlock Common Buckthorn (shrub) Japanese Barberry (shrub) European Alder Cut-leaf Teasel Autumn Olive (shrub) Amur Honeysuckle (shrub) Wintercreeper Is of Interest # of Plants Comments NE SE SW NW Lily of the Valley NE SE SW NW Lily of the Valley Lily of the V

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

SRE_CM PCAP Forest Pest and Pathogen Data xls last revised 6/10/2015 jjm

10	ပ	œ	7	თ	ເກ	4	ယ	N		nod #			1404	CLEV
					·					species		Explain subsample (additional room on back):	Project Label: PCAP Project Name: 02 9620 Plot No.: 1004	ELAND METROPARKS Plan
1 X X X X X X X X X X X X X X X X X X X										voucher#		on back):	PCA	t Communi
									1	or super sample	% sub		5	ity Assess
										shrub clumps	#		Proje	sment Pro
										<u> </u>	size class		ct Name:	gram F
										2 1-2.5	size class (cm) woody stems >1m		02	orest P
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										4 5-<10	vim		· C	Pathogo
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			_							10 35 - <40			약	
										7 8 9 10 11 20 - <25 25 - <30 30 - <35 35 - <40 >40 (record each tree)				

NONE
PRASINT

Herbacous	Shrub	Tree	Strata
			Total % Cover
-Walnut (Thousand Canker)	-Hemlock (HWA) -Other For	-Beech (Fungus) - Mwo-Asian Longhomed Beetle	* Write None Present if no evidence:
	-Other Forest Pest or Pathogen	homed Beetle	

			0	1				
Mod 2 Pour		wy-		feature is absent or functionally absent from the wetland feature is present in the wetland in very small amounts or if more common, of fow quality feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality feature is present in moderate or greater amounts and of highest quality	MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only flanks for microhabilist fleatures. Select one or select two and everage the score.NOTE: If mod falls on a slope automs stope 1 = sight elevational grade across module (hill) Slope 2 = talls on slope ~20°		STANDING BIOMASS (required for emergent wetlands) collected in 0, in clip plot (23.32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation, C7=check when collected Module # C7 Corner Corner	START. YUUNVI CLEVELAND METROPARKS Plant Community Assessment Project Label: PCAP Project Name:
ATT SOUTH OR SOUTH OF THE PROPERTY OF THE PROP		000	no of tussocks depth 3	onally absent from the weekend in very small amo errate amounts, but not of erate or greater amounts	C FEATURE COU res. Select one or sele- rede across module (h		required for emerges in from corners I and in from corners I and C?	# 100 MYV
Date Company		0-0	na. of hummocks uplands (Tip-Ups) depth 3 3 16x3 16m	wetland nounts or if more commo of highest quality, or in a ts and of highest quality	NTS - Intensive m of two and average the lat)		t wettands) collected 3 in each intensive 71-check when Corner Corner	mmunity Assessm Project Name:
2 00		90 Gorant	depressions depth 1 10x10m	on, of fow quality Inneal amounts of high	odules only scors.NOTE: If mod falls on a : Slope 2 = talls on slope -20°			D 6
7 00 -		(inuc)	c.w.d (2-i2 cm) depth i l0x10m	w.d.		ORIVERINE O Headwater of Mainstein of Channel File OSLOPE (proused water by drobogy or on a physical stopy) File OFRINGING of Reservoir of Natural Lake OCOASTAL (specify subclass) File OCOASTAL (specify subclass) File ORIGING OF STATE (Semmunater Class CVETLANDS ONLY): OPINETA VIBL Plant Communater Class CVETLANDS ONLY): OFOREST o swamp forest to bog forest seep OFOREST o swamp forest to bog forest seep OFOREST o swamp or tall sh. bog o tall sh. fen File OSJIRUB o shrub swamp or tall sh. bog o tall sh. fen File File OSJIRUB o shrub swamp or tall sh. bog o tall sh. fen File File OFINETA VIBL Fil	CLASSIFICATION (ETI = caxileat, g Fit and Confidence Hydroecemerable class (WETLANDS ONLY) to DEPRESSION to INPOUNDMENT to Beaver to Human	ment Program - Plant Cover and Earth Surface
2 4 2 4		+ 1 0 (count)	c.w.d (12.40cm) depth 1	count for pieces with minimum 1m length	tically gets ranked based on steepness (1-3) to beging that can be safely.	ker a Mainstem a Ch drobogy or as styrical irir a Natural Lake belass) telety_weekly ombrotos 'emmunity Class (W) 'emmunity Class (W) est a bog forest a fore a wet meadow a opp p a tall sh bog a tall	Confidence CWETLANDS ONL.	rth Surface
2 0 0 4 mww 4		Q QQ[c.w.d >48 cm depth 1 10x10m	rium 1m length	d on sleepness (1-3) t	unned File logy File phic) File ETLANDS ONLY): St seep File sh fen File sh fen File	F11-	
100 cm		~ (A)	interspers. depth 1	i i	salely tampled –45°	Conf Co	Conf.	Emily PHOLNOIS
12 4	S	FWZ.	microhab. SI_OPE 10x10m		s presend			y + Ta
7	SRE -15	امله	W N 2			+135 4133 4180 4223 4223 4270	MCNAB ING	Taylor
Natural Resources		48	~n 0a-	N COVER (DENSH) I per module facing N ding space. (4 dots		+ 9n degrees E 4135 degrees SE 4180 degrees S 4223 degrees SW 4270 degrees SW 4316 degrees WW 4316 degrees NW 4316 degrees NW 5316 degrees NW 4316 degrees NW	INDICES (degrees) OUT USING OIS PROGRA A1 sepond N +45 degrees NE	
元 中国统治		7 9.	EM EN W	Place puare)	-1	dscape)	FRLLED OUT USING OUS PROGRAM - DO NOT FILL OUT IN FIELD) Al aspect N LFI TSI** Al degrees NE Plan Hats degrees NE Plan LFI TSI**	
PORM NP/ZD 10-054	_	で上	And Juh	count in		local slopes. Formed is local slopes. TSI measure angle from recorders eye to ey e of person standing - 10 m	OUT IN FEL DJ OUT IN FEL DJ Dol to the borzon. TSI is	Page: 1 of 1
						3 6 2	# *	

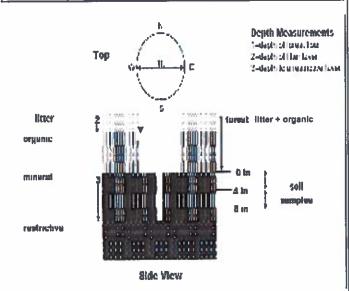
COVER BY STRATA

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.



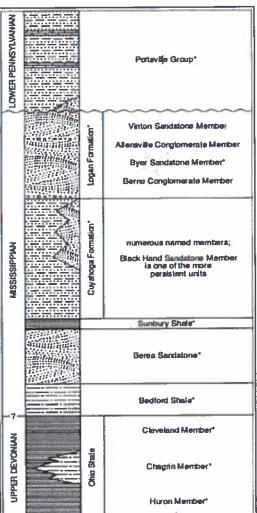


FIGURE 3-20.—Generalized section of Upper Devonian Mississippian, and Lower Pennsylvanian formations in northeastern Ohio Asteriaks indicate units that are feasibletous. This compastic section represents about 400 meters of rock exposed across the area. The section is not to each, but the chicknessee indicated are proportional. The term "Waverly" is used in the older literature to refer to Mississippian rocks in Ohio. Some geologists use the European term "Carboniferous, which encompasses the Mississippian and Pennsylvanian Periods of the U.S. Many 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 massive sanistone that is fairly undespread but discontinuous See Hyde (1953), Hoover 19500, and Calinas (1978) for more information on Mississippian rocks in Ohio. See figure 3-16 for explanation of rock types.

EMILY + TAYLOR

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a
Project label: PCAP Project Name: 021362015

(E) Glerreland Methoparks

Page: 1 of 1

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

Soil plt module # ___ (one per entire plot)

20 cm g cm matrix color matrix color edox features** xid roots stoor bux stute. ydr cond. dox festures** mottle ottle color mostle Hile color < SMD

refer to texture classes on reverse side

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

COVER BY STRATA

×

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

record as >30

dro. cond

SMD

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

bas: include evidence of earthworms (worms, dundated S-saturated M-moist D-dry

organic depth (cm)

2 litter

water depth (cm)

depth sat

35

1 litter+

OBSTRUED, NO WORDYS MOD 2; WORMS stings, middens)

MOD 3: CASTINGS 6BS6CVKD

N

w

w

W

Shee ver 3.xls last revised 6/4/2012 och

Fr. 3.4 85.5.4

V

4

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

o Impermeable surface	Well drained	□ Excessively dr. □ Somewhat excessively	BRAINAGE*	Parent Material	Depth to rest. Layer:	Landform type:	Soil Series Source. Ohio Soil Survey	Soil Series/Type:	Web Soil Survey Information:	2,3.8,9 composited A	Soil Collection Modul Herizan (A. B. C)
-----------------------	--------------	--	-----------	-----------------	-----------------------	----------------	--------------------------------------	-------------------	------------------------------	----------------------	---

Underlying Earth Surface*	Surface	Ground Cover	
(State - 100%)	percent	(Each ≤ 100%)	percent
Histosol	1	Coarse Woody Debris***	υ 8
Mineral Soil 15	曲	Fine Woody Debris****	<u>n</u>
Gravel-Cobble*	1	Litter	6
Boulder**	N	Duff (Ferm + Humus)	0
Bedrock	1	Bryophyte- Lichen	Ŋ
* Gravel-Cobble = 1/16-10	1/16-10*	Water	2
• Boulder => 10 in	5	Bare Soil	S
••• >5 cm in diameter	ctcr	Roed/Trail	0
eest of on in dismeter	neter	Other	6

a Bridle a Hiking sanctioned

Bootleg unsanctioned

Grave Dear

All Purpose ype

%Cover

RAIL INFORMATION: cord type and cover for each

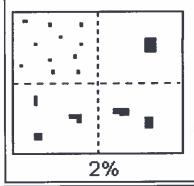
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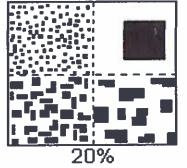
+			1 2 8 2		<u> </u>			- 9
DESCRIPTION	** submersed	* rooted and t	(Aquatic)*	(Floating)*	Herb	Shrub	Tree	Sinta
SEE BACK OF PAGE FOR TYPICAL'STRATA DESCRIPTIONS. STRATA CAN VARY BY CO	" submersed, most plant mass below surface	rooted and floating or slightly emersed		1.7	.5 ^	15.5	75m	Height Range (m)
SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.	w surface	76d			£5	53	80	Total Cover (%)

Γ	d > 0	1-3	3-1	0 10-	0 > 10	- X	IVIS
	< piot suzz	1-3 x plot size	3-19 x plot size	10-100 x plot size	> 100 x plot size	>600 x plot size	TAND SIZE
				26			



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





Terraces

tread

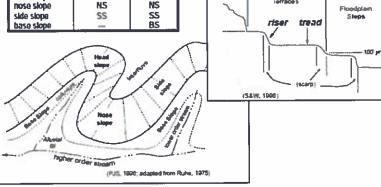
SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper, the sample should be wet enough that all of the particles are saturated but 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 familionns or microleatures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains.

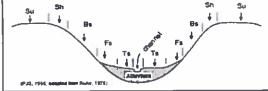
e.g., (for Hills) nase slope of NS.

Hites	Coc	lo
	PDP	NASIS
Interfluvo	IF.	1F
head slope	HS	HS
nose slope	NS	NS
side slope	SS	SS
base slope	-	BS
· · · · · · · · · · · · · · · · · · ·	· ·	
	Head	_ /



Hilistope - Profile Position (Hilistope Position in PDP) - Two-dimensional 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 transacts 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.

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.

Code

19 TR

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.