

CLEVELAND MET	ROPARKS Plant Community Asso	ssment Program	: Quality Control Form
Project Label:	РСАР		o: 1034 Date Sampled: 7/22/15 Lead: CKM
Troject Babel.	Text		
			Comment required if item answer is NO
Parking/Access outsid		YN	If yes, write details in Comments section below
Field journals comple		Y N	
Site sketch made on 1	1 - C. 1	(V) N	
Check cover page	X-axis Bearing of plot recorded	N	
	GPS coords, Recorded	N N	
	North direction recorded	N	
8	Photographs taken?	N (K)	
	Relocated Pins Mapped	Y N	
Plot No., Date agreem	ent on all pages?	N	No. of the last of
Header data completed	d all pages?	N	
Cover classes recorder	d in all Intensive modules	(X) N	- R
Browse Level By Spec	ries	N XX	064
Woody stem quality co	ontrol check	N	Check every line and cross check with the Tree Cover Sheet
Invasive plant quality	control check	N N	NA NA
Ash trees mapped		(V) N	40 2 2 2
Completed Forest Pest	t/Pathogen Datasheet	Y N	
Cover by Strata? (con	firm cover type)	(Y) N	
Soil samples collected	with matching plot #.	(X) N	
Cross check 2010 info	ennation	N	Highlight any changes from 2010 information
Vouchers labeled on d	latasheet with initials and number	N	
Vouchers labeled on c	collection bag	CY	
Pink flags removed		YN	
Data sheet QA before	leaving site?	(Y) N	
Common equipment r	eturned to tub.	(Y) N	
Data sheets scanned?			Enter date to left
Final data sheets scan	ncd?		Enter date to left
Buffer Widths measur	red?	YN	
Web Soil Survey		Y N	
Voucher Location	Refrigerator	Y N	
(# vouchers collected)	Press (#)		Enter number to left
		Y N	
CKM 220- 232	Identified	YN	
~~	Mounted	YN	
	Thrown away	YN	
	Timown away		
	tion: Is plot sampleable?		
⊕ Yes	Original GRTS point is sampleable		
□ No	Original GRTS point lands in a non		fill in category below)
	Point falls in a water (i.e. river. Managed mowed area (i.e. gold		-to -5 3
	Paved area (i.e. parkinglot, road)	course, picnic area, re	(III-OI-WZ/)
	Unsafe to sample (i.e. steep slop	e)	
	Other		
Additional Comment			
2016 Coll	ect Soil, all pins	but back	c left found 7/2015

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CLEVELAND METROPARKS Plant Community As	RKS Plant Comr	nunity Assessment	sessment Program - Background Data Sheet	round Data	Sheet				(Clevium Muinparts	
	Project Label:	PCAP	Project N	ame: 02 }	Project Name: 02 HI 2015		Piot No.:	Piot No.: 1034	Page 2 of 2	12
MODIFIED NATURESERVE CLASS*	CLASS*		0	DIST	DISTURBANCES					
CODE (on separate form);		Fit= Conf=		type*	severity**	yrs ago % of plot	% of plot	description		
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nclusions	□ Irregular/pattern mosaic	nosaic	-	Former	Former Land Use:					
		HYDROLOGIC REGIME*	SGIME*							
		Upland (seldom flooded)		□ Intermittently flooded	looded					
SALINITY*		 Intermittently/scasonally saturated 		□ Semipermanently flooded	lly flooded					
D Saltwater		(seldom flooded)	0	D Permanently flooded	ooded					
a Brackish		□ Permanently/Semipermanent. saturated		□ Tidal/Seiche flooded daily	ooded daily					
o Fresh	100	(dry <1/yr, seldom floo		ridal/Seiche fl	Tidal/Seiche flooded monthly					
Upland (n/a)		Occasionally flooded (<1/yr)		Fidal/Seiche fle	Tidal/Seiche flooded irregular					
		 Temporarily flooded 		(e.g. wind, storms)	ття)					
(by default unless plot is a wetland)	(pu			u Unknown						Г
Additional notes & diagrams: (Representativeness of pilot to the stand, successional status, maturity, etc.) Plot is mostly even-aged. The canopy is sparse. Plot is located next to a river and a seed dominated seep (between them). Bush honey suckle is well established. Mizerostegium entering mod 1 near creek. A good amount of diversity overall. Herb diversity under bush honey suckle much lower. Some erosion may be affecting methods and beaver attact.	Genesonialiveness setty even age domin n enterin y under	plot is mostly even-aged. The canopy is sparse. Plot is located next to a river and a seed dominated seep (between them). Bush honey suckle is well established. Mizvostegium entering mod 1 near creek. A good amount of diversity overall. Herb diversity under bush honey suckle much lower. Some erosion may be affecting med	Anopy is the Anopy	Bush Bush K. A.	Plot is honey such an Some	local kle 1 count	had respond to the soft of the	lesteblish liversity over be affective	ed. ed.	,
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CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

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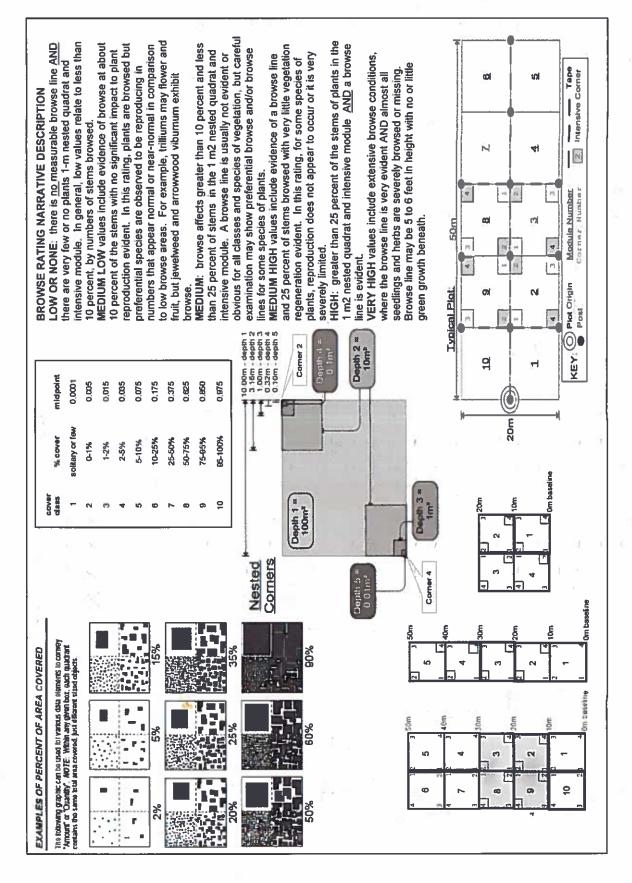
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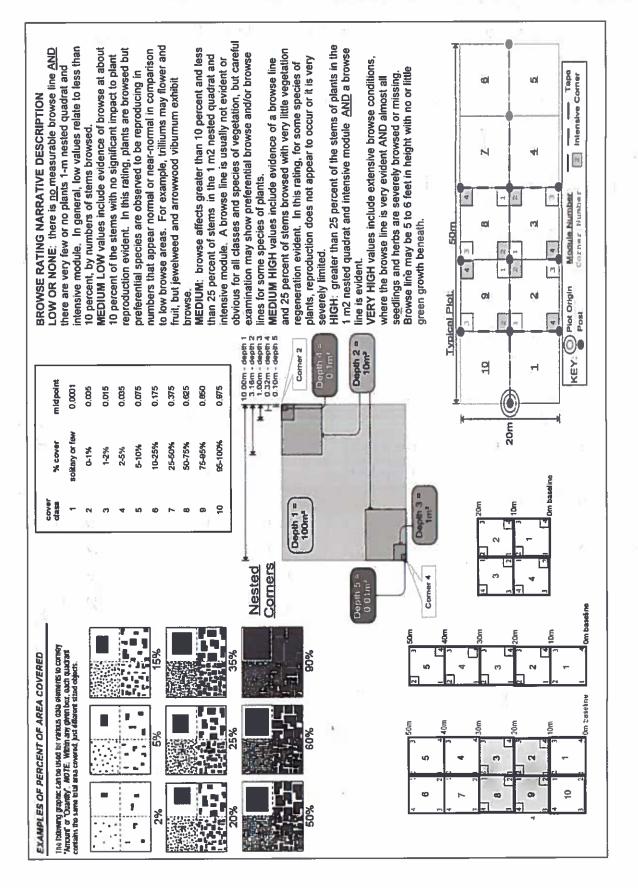
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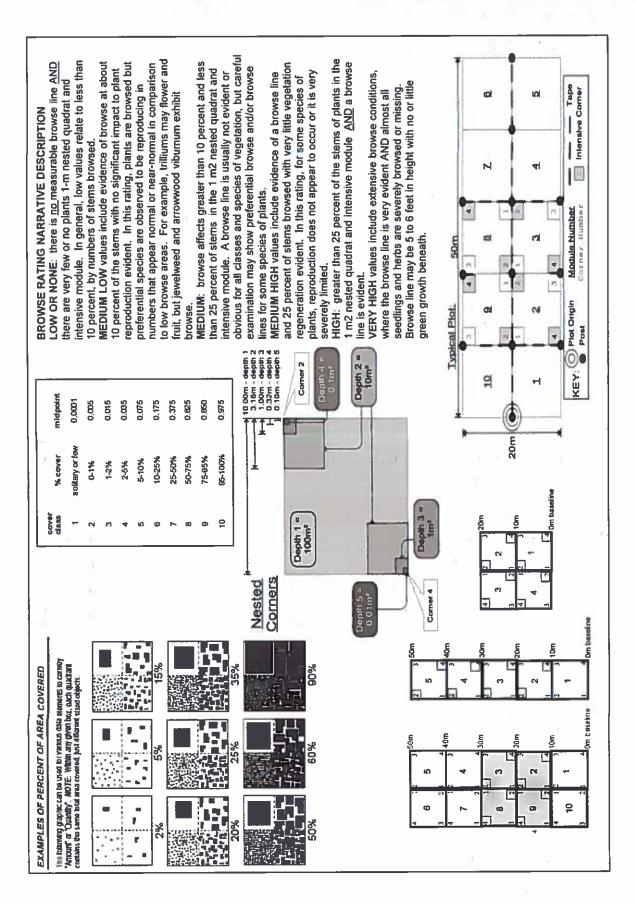
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CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

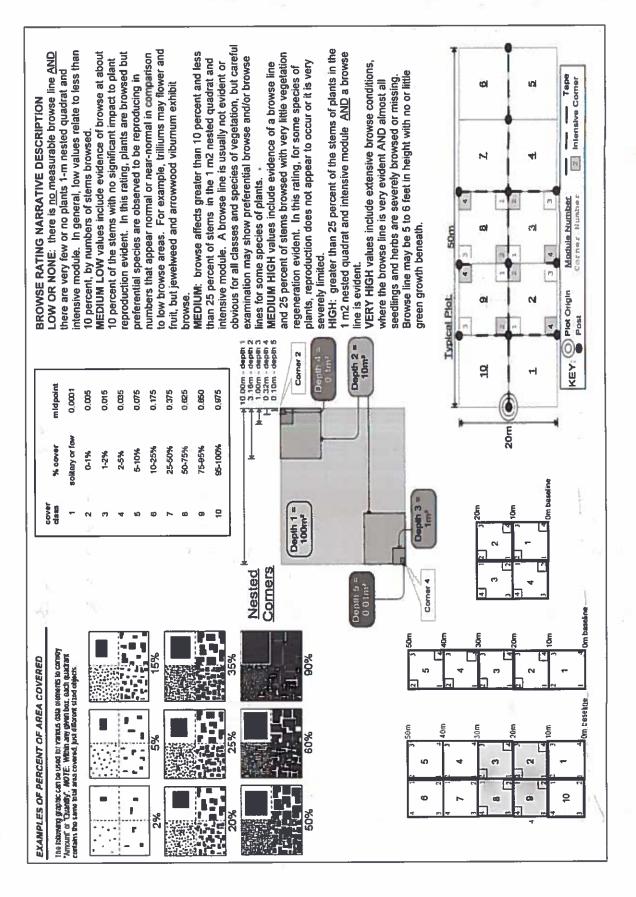


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CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet



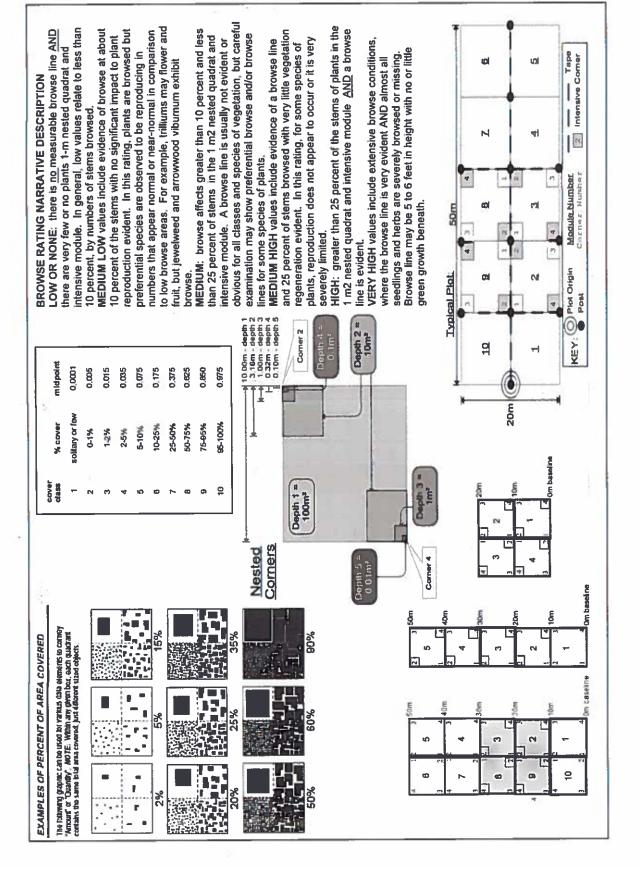
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Jose Minder CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Total modules: Project Label: PCAP Project name: 02 HI 2015 Plot no.: 103 Y Intensive modules: 4.2 Plot configuration: 1 x 22 2

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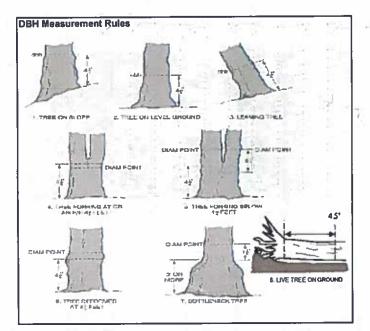
SRE_CM PCAP TREE Species Cover Data sheet.xls last revised 6/10/2015 jjm

Natural Resource Management FORM NR/2010-02a

CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet % COVER Strata - Cov. entire plot Project Label: Βŗ Species Papulus del toide & s Curva cordiformis Umpus americana Matanus occidentalis Ostrya virginiana Kraxinus Acer platum Ulmus rubra MONTHS KNOWE amer icana Prensence of tree mod mod mod mod Project name: 02 HI 2015 Plot no.: 034 Voucher # species (X) ×

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CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet	PCAP		Species																	
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CLEVE	Proje	% COVER	⊢																	

18 hour CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Crataegus sp. Explain subsample (additional room on back) Standing dead Part Mono citsus quinqueblia Ustrua virginiare TRYLINUS PENNSULVANICA Platanus occidentalis CONFICERAL MOVEMIL indera Upenzoin ppulus deltoides standing losa multiflora ON Codendron radicans javrya (cordiformi pnicera marchi IGUSTRUM VULBARE ilia americana gumerum vulgar TUA VITAIN AN Project Label: * Word . =: 1 U : 0-1.4m stems or super % sub sample Project Name: 02 Hh 2015 : clumps shrub # size class (cm) woody stems >1.4m 0 . <u>^</u> 0 1-<2.5 2.5~5 Plot No .: 1034 0 5-<10 10 - <15 15 - <20 20 - <25 Page: 25 - < 30 30 - <35 Deleveland Metropadus 35 - <40 5 52,3 >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

C

D

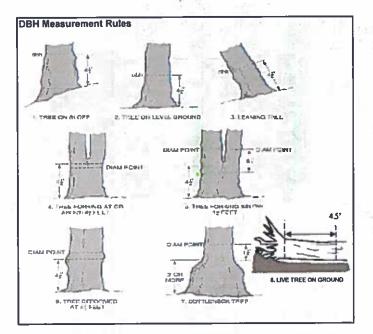
Е

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.

not un 2010data CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet
Project Name: 02th 2015
Plot No.: 3aCM PCAP Natural Woody Stem Data Sheet ver 2.0.xls last revised 5/29/2012 jim Gronymus atrapudantas Populus de Itoides amilax hispida Explain subsample (additional room on back) Cornus Stralternito l oxico advidran radican Fraxinus pennsulvanio Course Condition min Judera penzula Minus rubra arprinus carbliniana wosa muth flora nalans nigra 大力を 12 0 4 *: :: 0-1,4m or super % sub :: shrub size class (cm) woody stems >1.4m Plot No. 1034 Natural Resources Management FORM NR/2010-03a 20 - <25 Page: 2 25 - <30 30 - <35 35 - <40 6 >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.
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B

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).
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- C: Less than 50% of main branches have fine twigs.
- D: Stem still standing and tertiary main branches present.
- E: Central stem still standing.

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

										221								10		14		0		1	Module
3	24	23	22	21	220	19	=	17	6	is in	1	13	12	==	6	90	œ	7	CD.	C)	-	ω	N	_	ē ē
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				Map all ash trees ≥10cm				[2						•			*** Change intensive m					1		

Ma			Bas	seline		
p all ash trees ≥10cm in eac		2			•	
Map all ash trees ≥10cm in each module using Tree ID number		3			20	A 1900 THE STREET OF THE STREE

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



ium vimineum Japanese stiltgrass Si ficaria Lesser Celandine In Judiseae (vine) Black Swallow-wort Tier 2: Assess as Needid Tier 2: Assess as Needid Tier 2: Assess as Needid Norway Maple Stilstima Tree of Heaven Joponica (vine) Japanese Honeysuckle Japanese Barberry (shrub) Japanese Barberry Japanese Barberry (shrub) Japanese Barberry Japanese Barber	Tier 1: Early detection	/ Ranid response		Pre	sence		GPS	
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Isser Celandine In Judiseae (vine) Black Swallow-wort Imbellatus (wetland) Flowering Rush In mantegazzianum Glant Hogweed Tier 2: Assess as Needed Norway Maple Tier 6 of Heaven Japonica (vine) Japanese Honeysuckle Jalissima Tree of Heaven Japonica (vine) Japanese Honeysuckle Jalisaria (wetland) Purple Loosestrife Impodagraria (G-cover) Bishoy's Goutweed Jorbiculatus (vine) Asian Bittersweet Hedgeparsley Japanese Barberry (shrub) Japanese Barbysandra Japanese Barbysandr	Microstogium vimingum	Jananece stiltgrass	111	25	311			
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Time				+	+			
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alicaria (wetland) Purple Loosestrife	Acer platanoides		_		+	 -		_ =======
A	Ailanthus altissima			+	+			
Simpodagraria (G-cover) Bishop's Goutweed			_	+	-			
Asian Bittersweet			_	┿	+	 		
Hedgeparsley				+	+-	 	<u>.</u>	<u> </u>
aculatum Polson Hemlock Cathartica Common Buckthorn (shrub) Incosa European Alder aciniatus Cut-leaf Teasel Immosa European Alder aciniatus Cut-leaf Teasel Immosackii Ammur Honeysuckle (shrub) Informackii Ammur Honeysuckle (shrub) Infortunel Wintercreeper Immosackii Gortunel Wi				+	211	 	<u> </u>	_
Common Buckthorn (shrub)	Torilis sp.			+	10.7	 		= 15.5
	Conium maculatum			+	+	++		\dashv
European Alder	Rhamnus cathartica			+-	+			\dashv
actiniatus Cut-leaf Teasel	Berberis thunbergii		uD)	+-	+	 		\dashv
Mintercreeper Mintercreep	Alnus glutinosa		-	+	+			
mackii Amur Honeysuckie (shrub)	Dipsacus laciniatus			-		1	 	
Tier 3: Presence is of Interest	Elaeagnus umbellata			-	+		<u> </u>	
Tier 3: Presence is of Interest	Lonicera maackii		ub)	_	+-		<u> </u>	\dashv
NE SE SW NW	Euonymus fortunel							
1: 1-10 2: 11-50 3: 51-100 4: 101-1,000 5: >	Tier 3: Presence	s of Interest			_		comments	# of Plants
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Second				_	+			_
dra terminalis (G-cover) Japanese Pachysandra Japanese (Shrub) Japanese Pachysandra Japanese (Shrub) Japanese Pachysandra Japanese Knotweed Japanese Knotw				+	-			
Mock Orange (shrub)	Eleutherococcus pentaphyllus		ub)	+				
la officinalis (G-cover) Lungwort penicolasius Wineberry accorus (wetland) Yellow Flag Iris litum umbellatum Star of Bethlehem populus var. opulus European Cranberry (shrub) plicatum Doublefile Viburnum (shrub) Tier 4: Widespread and abundant Presence NE SE SW NW # of Plants 1: 1-10 2: 11-50. 3: 51-100 Aurundinacea Read Canarygrass Bush Honeysuckles (shrub) Frundinacea Read Canarygrass Sea australis (wetland) Phragmites In cuspidatum Japanese Knotweed Jalanus Glossy Buckthorn (shrub) Jayanese Knotweed Jalanus Glossy Buckthorn (shrub) Jayanese (shrub)				+				
penicolasius Wineberry accorus (wetland) Yellow Flag Iris filum umbellatum Star of Bethlehem populus var. opulus European Cranberry (shrub) policatum Doublefile Viburnum (shrub) Tier 4: Widespread and abundant Presence comments NE SE SW NW # of Plants 1: 1-10 2: 11-50. 2: 11-50. 3: 51-100 4: 101-1,000 5: >1,000 Tigora Multiflora Rose (shrub) Multiflora Rose (shrub) gustifolia, T. x.glauca Cattails (wetland) revense Canada thistle fullonum Common Teasel	Philadelphus coronarius		'ub)	+		-	·	12: >1,000
acorus (wetland) Yellow Flag Iris Idum umbellatum Star of Bethlehem Idum umbellatum Star of Bethlehem Idum umbellatum Doublefile Viburnum (shrub) Tier 4: Widespread and abundant Tier 4: Wide				+	-	-		
Idum umbellatum Idum umbellatu	Rubus phoenicolasius		_		-			\dashv
ropulus var. opulus Doublefile Viburnum			_		+	-		_
Tier 4: Widespread and abundant Presence NE SE SW NW Avulgare Common Privet (shrub) Find Latarica Reed Canarygrass Es australis (wetland) Find Caparity Bundant Find Plants 1: 1-10 2: 11-50. 3: 51-100 4: 101-1,000 5: >1,000 Find Caparity Bundant Find Plants 1: 1-10 2: 11-50. 3: 51-100 Find Caparity Bundant Find Plants Fi	Ornithogalum umbellatum			-	-			\dashv
Tier 4: Widespread and abundant NE SE SW NW Atiolata Garlic Mustard Avulgare Common Privet (shrub) Avulgare Reed Canarygrass As australis (wetland) Phragmites And uspidatum Allons A	Viburnum opulus var. opulus			+-				
SE SW NW # of Plants 1: 1-10 2: 11-50. 3: 51-100 4: 101-1,000 5: >1,000 5:	Viburnum plicatum		ub)					
tiolata Garlic Mustard 1: 1-10 2: 11-50. 3: 51-100 4: 101-1,000 5: >1,000 5:	Tier 4: Widespread	and abundant					comments	iii -c planea
vulgare Common Privet (shrub) vii, L. tatarica Bush Honeysuckles (shrub) rundinacea Reed Canarygrass es australis (wetland) Phragmites m cuspidatum Japanese Knotweed alnus Glossy Buckthorn (shrub) ifflora Multiflora Rose (shrub) gustifolia, T. x.glauca Cattails (wetland) rvense Canada thistle fullonum Common Teasel			NE	SE	SW	NW		
3: 51-100 3: 51-100 3: 51-100 3: 51-100 4: 101-1,000 5: >1,000 5	Alliaria petiolata			-	+			
rundinacea Reed Canarygrass 4: 101-1,000 se australis (wetland) Phragmites 5: >1,000 sin cuspidatum Japanese Knotweed 9 salnus Glossy Buckthorn (shrub) 9 siflora Multiflora Rose (shrub) 9 sustifolia, T. x.glauca Cattails (wetland) 9 rvense Canada thistle 9 fullonum Common Teasel	Ligustrum vulgare		-	_	-	+		
es australis (wetland) Phragmites m cuspidatum Japanese Knotweed alnus Glossy Buckthorn (shrub) diflora Multiflora Rose (shrub) gustifolia, T. x.glauca Cattails (wetland) rvense Canada thistle fullonum Common Teasel	L. morrowii, L. tatarica		ub)		+	 	æ	
m cuspidatum Japanese Knotweed alnus Glossy Buckthorn (shrub) ifilora Multiflora Rose (shrub) gustifolia, T. x.glauca Cattails (wetland) rvense Canada thistle fullonum Common Teasel	Phalaris arundinacea	1 10	\perp		+			
alnus Glossy Buckthorn (shrub) iflora Multiflora Rose (shrub) gustifolia, T. x.glauca Cattails (wetland) rvense Canada thistle fullonum Common Teasel				-	\perp	+	•	[5: >1,0 <u>00</u>
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gustifolia, T. x.glauca Cattails (wetland) rvense Canada thistle Common Teasel						\vdash		
rvense Canada thistle Common Teasel	Rosa multiflora		ıp)					_
fullonum Common Teasel	Typha angustifolia, T. x.glauca	Cattails (wetland)						_
	Cirsium arvense	Canada thistle						
natronalis Dame's Rocket	Dipsacus fullonum	Common Teasel						
nationalis Daine s nocket	Hesperis matronalis	Dame's Rocket						
	Vinca minor (G-cover)	Periwinkle						
DESIGNATION DESIGNATION OF THE PROPERTY OF THE	Polygonum cuspidatum Frangula alnus Rosa multiflora Typha angustifolia, T. x.glauca Cirsium arvense Dipsacus fullonum	Japanese Knotweed Glossy Buckthorn (shru Multiflora Rose (shru Cattails (wetland) Canada thistle Common Teasel						

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

Natural Resoures

mod # CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Sheet 10 œ az moent Project Label: voucher# PCAP clumps shrub # size class (cm) woody stems >1m <u>አ</u> Project Name: 02th 2015 1-<2.5 2.5~5 5×10 10 - <15 Plot No.: 1834 15 - <20 20 - <25 25 - <30 30 - <35 Page: Cleveland Metroparts 35 - <40 5 >40 (record each tree) 잌

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

Shrub (size class 2 or below including shrub	Tree (size class 3 or above)	Strata # of stem Severity
	\	Severity (H,M, or L)

* Write None	* Write None Present if no evidence:		
	Beech (Fungus)	TARK TO THE PARTY OF THE PARTY	Asian Longhorned Beetle
中	Hemlock (HWA)	MAN	Other Pest or Pathogen
None	Walnut (Thousand Canker)	nker)	

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	

TRILLED OUT USING OIS PROGRAM - DO NOT FILL OUT IN FIELD) McNAB INDICES (degrees) + for up - for down

+45 degrees 90 degrees

줆

horizon. TSI is angles formed by local slopes. For TSI measure

z

LFI is angle of piot to the

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. C?=check when

Module #	C?	Comer	Comer
			100

CLASSIFICATION		
(FIT - excellent, g Fit and Confidence		
Hydrogeomerphic class (WETLANDS ONLY):		
DEPRESSION	- T	Conf.
a IMPOUNDMENT a Beaver to Human	- P	Conf=_
a RIVERINE a Headwater a Mainstern o Channel	1	Conf=
O SLOPE (ground water by drology or on a physical slop)	Fit=	Conf=
o FRINGING o Reservoir o Natural Lake	1	Confa
ra COASTAL (specify subclass)	Fila	Conf*
ra BOG (strongly, moderately, weekly ombrotrophic)	Fit=	Conf=
Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):	E.	
a FOREST a swamp forest a bog forest a forest seep	F	Conf=
a EMERGENT a marsh a wet meadow in open bog	7	Confi-
to SHRUB to shoub swamp to tall shi bog to tall shi fen	F)(=	Conf=

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

llope 1 = slight elevational grade across module (hill) whe for microhabitat features. Select one or select two and everage the score. NOTE: If mod fells on a slope automatically gets renited based on steepmess (1-3) to begin + any features present Slope 2 = falls on slope ~20 * Slope 3 = maximum steepness that can be safely sampled ~45°

- testure 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
- teature 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 emounts and of highest quality

			_			7	-	mod#					
/	/					1	1	1367903					
/		/	/	/	-	0	S X	(count)	lx lm	depth 3		tussocks	no. of
/	/	/	/	/	1	0	6	(count)	3,16x3,16m	depth 2	uplands (Tip-Ups)	hummocks	no. of
_	1	/	/	/			0	(kruos)	10x 16m	depth 1		depressions	no. macro.
,	/	/	/	/	1	22	11	(count)	10x10m	depth I		(2-12 cm)	cwd
		/	/	/			1	(count)	10x10m	depth 1		(12-40cm)	ewd
,	/	/	/	/			0	(count)	10x10m	depth t		>40 cm	cwd
,	/	/	/		1	u	w	(rank)	JOX IOm	depth 1		interspers.	microhab.
	/	/	/					(rank)	IOX 10m	SLOPE			microhab.

andform Index (position within landscape) Terrain Shape Index (site microtopographic shape)

+315 degrees +270 degrees +223 degrees +180 degrees +135 degrees

N.K

WS

recorders eye to eye of person standing ~10 m

angle from

ARME.

SE

<

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



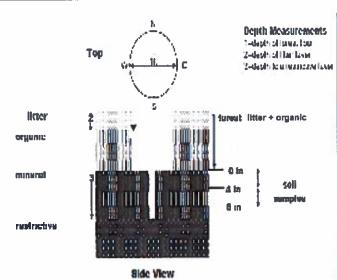
COVER BY STRATA

COVER DI SIRAIA	
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.



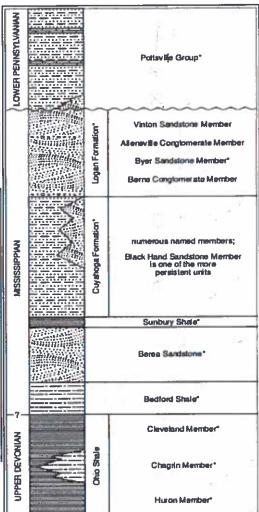


FIGURE 3-20.—Generalized section of Upper Devuman Ministrypian, and Lower Pennsylvanian formations in northeastern Ohio Arteriaks indicate units that are insulfatious. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Waveriy" is used in the older literature to refer to Minassippian rocks in Ohio. Some redocuts use the European term Carbonistonus, which encompasses the Minassippian and Pennsylvanian Periods of the U.S. Many units have been named within the Cuyahoga Formation, but most units are local and cames the traced over great distances. The Black Hand Member is a spectacular massive sandstone that is fainty undespread but discontinuous. See Hyde (1953), Hoover (1960), and Culma (1979) 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 Blomass Data Sheet 6a Project label: PCAP Project Name: 02412015

(Cacretand Metroparks

Page: 1 of 1

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

Soil plt module # ___ (one per entire piol)

						20 cm		7.00					ē cm
hydro. cond.***	redox features**	texture*	oxid roots	%mottle	mottle color	matrix color	hydr cond.***	redox features**	lexture*	oxid roots	%mottle	mortle color	matrix color
1 S M D	×	8 1 1	Y				I S M D	× ×		٧			

refer to texture classes on reverse side

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

*** Circle one:

|*indundated S*saturated M*moist D*dry Notes: include evidence of earthworms (worms, castings, middens)

2-castings present 21.

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

Excessively dr.	Parent Material:	Landform type: Depth to rest. Layer:	Soil Series Source: Ohio Soil Survey	Soil Series/Type:	Web Soil Survey Information:	2.3.4,9 composited A	
-----------------	------------------	---------------------------------------	--------------------------------------	-------------------	------------------------------	----------------------	--

		1.4	1.4	11-
depth sat soil (cm)	water depth depth sat	2 litter depth (cm)	1 litter+ organic depth (cm)	mode
			300	100000

Underlying Earth Surface	Surface*	Ground Cover
(Sure - 100%)	percent	(Each < 100%)
Histosol	1	Coarse Woody Debris***
Mineral Soil	100	Fine Woody Debris****
Gravel-Cobble*	1	Litter
Boulder**	1	Duff (Ferm.+ Humus)
Bedrock	1	Bryophyte- Lichen
* Gravel-Cobble = 1/16-10*	1/16-10"	Water
**Boulder = > 10 in	in	Bare Soil
••• >5 cm in diameter	neter	RoadTrail
relevanip ut an 57 6666	meler	

Hiking sanctioned

Bridle All Purpos

Bootleg unsanctioned

Gravel

U

TRAIL INFORMATION:

cord type and cover for each

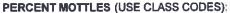
%Cover

O D CT Hadri Range Im	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
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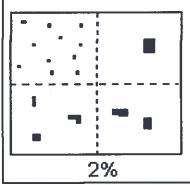
SEE BACK OF PAGE FOR "TYPICAL"STRATA
DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE. rooted and floating or slightly emersed submersed, most plant mass below surface

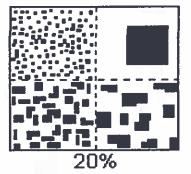
STAND SIZE o 1-3 x plot size 10-100 x plot size 2-10 x plot size > 100 x plot size >600 x plot size

< plot size



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

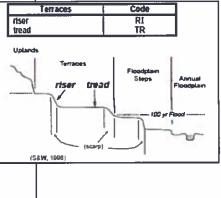
- 0= Organic
- 1= Loamy
- 2= Clayey
- 3= Sandy
- 4= Coarse Sand
- 9= Not measured make plot note

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:

NASIS

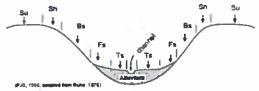
e.g., (for Hills) nose slope or NS.

Had San San San San San San San San San San		A
Hose slope		
֡֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜	Head slope None slope Ser structo	



Hilistope - Profile Position (Hilistope 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.

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.