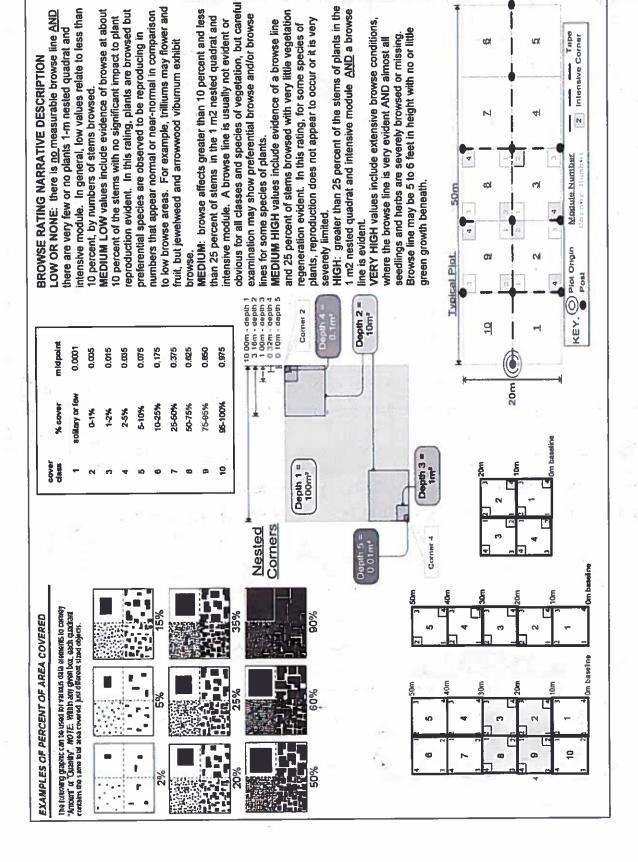
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CLEVELAND METROPARKS Plant Co	CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	
GENERAL INFORMATION	LOCATION	rage or z
Project Label: PCAP	County	Z
Project Name: 02502015	angle: Chagain	<u> </u>
	Names:	Y.
Genesae G	Quarry Rock Picnic Area	2.10 3 4 3 4
Plot No.: 1048	MP	phot: 92 #10 #9 #8 #7 #6
D Level 4 (no nested corners sampled)	Data Confidentiality	1 2 1
Level 5 (nested corners sampled)	Check one: Public data Private Data	1 21 2
Date (mm/dd/yyyy): 07/15/ 2015	o Fuzz 100m o Fuzz 250m o Fuzz 500m	#1 #2 #3 #4 #5
End date (if > 1 day): / /		3 4
Party Role**	If data not public why?	Neg: O(0,0) point Of point with direction permanent posts
A-Lance Plot leader	Source of coordinates □ MAP ■ GPS	unusual shape details), Location (directions
Desweet Bot Asst.	Coordinate system: Coord. Units	dominants, strata, BROWSE). Additional notes in space on back.
	■ Lat/Long □ UTM □ StatePlane ■ deg □ deg min	
E. Knows Crew	□ Other (specify) ■ m □ ft □	7 8 7
L	Datum: ■ NAD83/WGS84 □ NAD27	Location - Park at Quarry Rich By
** Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc.	GPS location in plot $x=0$ to 5, $y=-1,0,+1$:	And I were reale
PLOT NOT SAMPLED: a Other	x = O y = O (base of plot $x=0, y=0$)	Tirea, Tollow Store path up hill, then
□ Perm. water □ Paved □ Slope □ Safety	Latitude: 41, 41319	Proceed through homores +
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Effort Level: subjective evaluation of	Coord. Accuracy: m oft +- 4	Rationale -> Capts o PCAP roses alo
Every thorough how much effort put into	GPS File Name: 1048A	- Carry Carry Carry Co
Accurate may still provide good	12	Vea Characteristics > A succession
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bryo	Photo Nos.: 137	Eccon sweet proch erc.)
lichen	Plot placement: d'GRTS a Representative	Large amount of dead spicehust
TAXONOMIC STANDARD	Random Stratified Random Transect component	1 + 1 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1
Authority: G&C Pub Date: 1998	© Systematic (grid) □ Capture specific feature □ Other	Throughout mods 1, d, and 5.
Minimum required fields in Bold and Underlined	*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide	CVS Field Guide OVER

Cleveland CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Total modules: Project Label: S H (F)(A)Br Q 6 Krunus Serotina Viburnum acentalium Parthenocissus quinquifolla Berberis thunbergii Rhamnus' aluganum polsicaria Kosa multitlura Magandon Hous grandifolia Aurens sp. resound triphyllum Morus sp describe amount of browse per species over hydolens internedia tster cood to lins indera laignthemum canadense rathegous sp. Br = Browse Level. Use cover classes to austrum Vulgare Afcaea mus sp. Discourse agnolla acuminato prasalvanicus benzoin Species whehene entire plot trangu dentatum MICHARDOUM tulipileca Intensive modules: 4 %unveg. ground (bare soil %unvegetated open wa intensive module: Estimate for each %unveg. litter (bare litter) MUZIZ Project name: Oascaus Voucher# %open wat comer mod O V Plot configuration: A80 رو Plot no.: 1048 ition: 2 x 5 Q. 6 8 depth 00 8 es Plot area (ha): ş ş depth Page of 3 S 88 PAGG ğ 8 depth

SRE_CM PCAP Species Cover Data .xls last revised 6/10/2015 jjm (45 pi + 6 5 V/V)



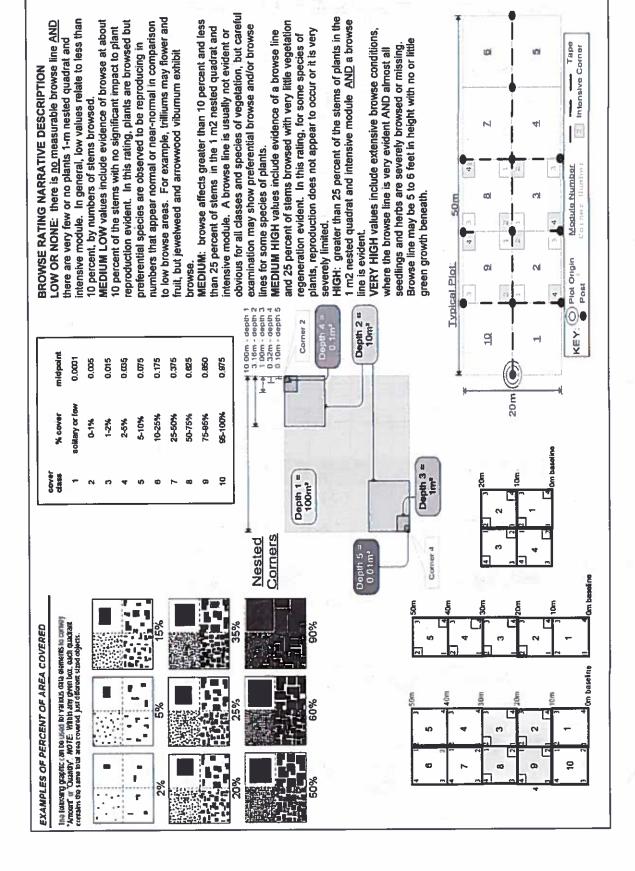
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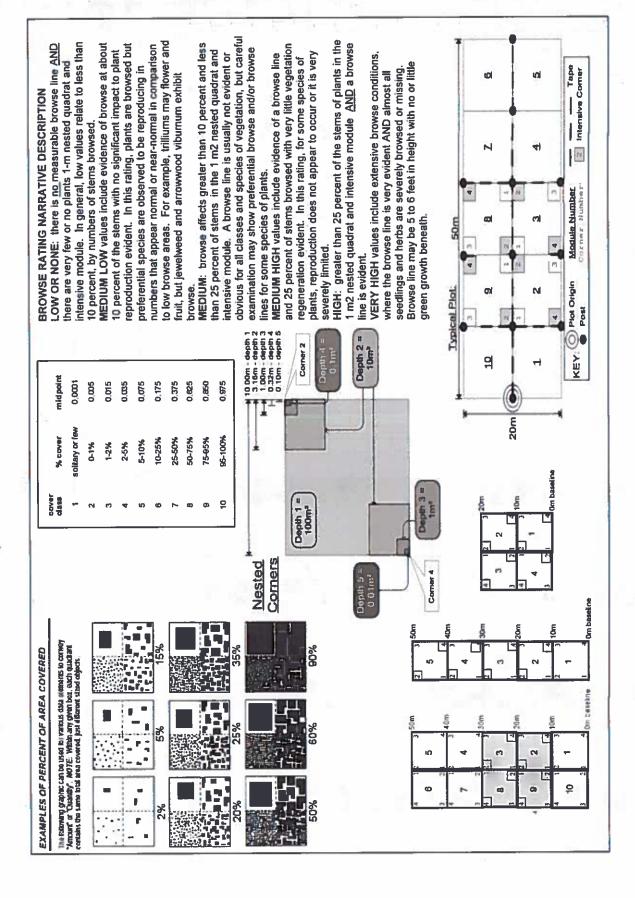
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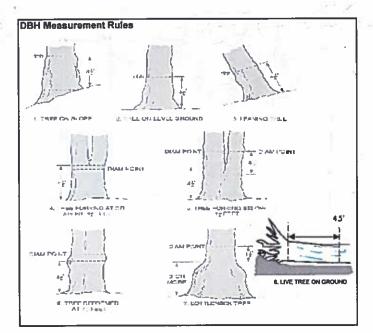


% COVER CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Strata - Cov. entire plot Project Label: 막 Pinus strobus Kunus cerasus Acer Sacharum Heer rubrum Species c Prensence of tree mod mod mod species (X) 2 3 8 9

Voucher # Project name: 025C2015 Plot no.: 1049 Page ___ of

Page of

2 Fadus grandifolia CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Standing dead Eulyonomus alactus Marus sp. Har rabiam Standing dead Explain subsample (additional room on back): Betula Yenta Prunus Scritina Fraxious pensylvan Fagus grandifoli Berbens thunbergi Prunus serotina Acer rubrum Standing berberis thunbolgi Acer rubrum losa muetiflora Rubus Flagellaris Lindera benzoin Rubits pensalitaris Lindera bonzoin Yunus cerasus Chus Gro Project Label: 3255 ca voucher# Stand Ind 昌 I: 1 14 • 5 prowsed 0-1.4m stems or super % sub Project Name: 025C2015 BBB No. 2 dumps shrub ** size class (cm) woody stems >1.4m 2 1-<2.5 2.5-<5 Plot No.: 1048 5-<10 10-<15 15 - <20 20 - <25 Page: 25 - <30 30-<35 잋 Polereland Metroparts 35 - <40 5 45.0 >40 (record each tree) =



Record the number of stems/plants between 0.5-1.0 meters tall that exhibit evidence of this years deer browse.

Record using the tally system from 1 to

 \times











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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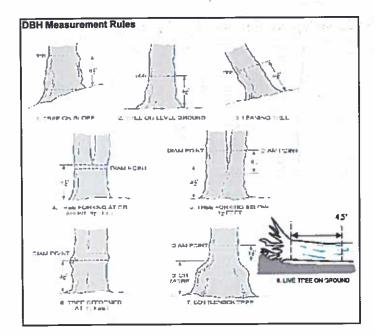
E

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.

Project Label: PCAP		Project Name: 02	Name:	10			olot No.:	Plot No.: 1046	Č	Page:		9	F
Explain subsample (additional room on back):										-			
	# stems	% sub	#	size class	size class (cm) woody stems >1.4m	y stems >1	4m						
mod # species c voucher#			shrub	ጀ -	1-625	25.65	¥ 4	10 - <15	6 15 - <20	25	25. 50		35 10
Acer rubrum	-	c	2						ı	*	đ	_	•
3 Fagus grandifolia	•			•									
	No.	· ·											
Betula	•												
3 Fraxinus pennsulvanica	•									_			
3 Viburnum acerifolium													
3 Prunus sevition	* *									_			
3 Frangula Bathus frangula	72			1		=11			y III				
4 Standing dead		-0						olusios					
4 Berbods thunbright		٠											
A Acer Succhause										_	•	21	••
4 Liriadendron-tulipatera	٠												
<u> </u>				•									
4 Lindera benzoin	101												
4 Smilar hispidas	•	v: e								_			
5 Stanting dual		**											
5 Fagus drandifolia						C .							
72	N	***			(Annual or other party of the p						y III		
5 Acer Yubrum			0						ī		90		,
16 Acr rubrum												•	
چ		***			•				•	-			
to Logus Javandifolia					V	••							
6 Ridders Henzom	27m [23	~								_			
in Contamina Con.	1												



Record the number of stems/plants between 0.5-1.0 meters tall that exhibit evidence of this years deer browse.

Record using the tally system from 1 to

10













ASH CANOPY CONDITION

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

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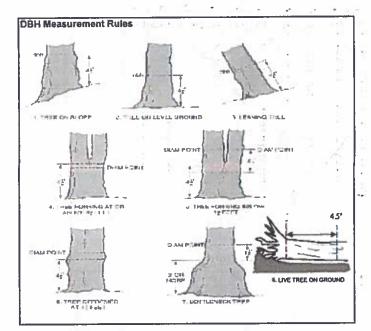
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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet ٥ 6 & Standing dead Prunus Frangus a lastus Fagus arandifolia tagus granditolium Standing dead Explain subsample (additional room on back): Frangula Khampus trangun Parthonoussus quinqueble Acer rubrum Hunus Scrotina Standing dead Standing dead acer rubrum Acer Yubrum thindula benzain Lindera Lindera benzain 4 Cer Saccharum Kindud bengu sticodynamy radicans exicodendron radida rubrum Carry 9 S Project Label: pensa AU-374 PCAP voucher# 0-1.4m 1 prowsed Starns 20 or super % sub Project Name: 02SC 2015 DE D 四四 clumps shrub n . # size class (cm) woody stems >1.4m 7 1-<2.5 (L) 2.5-<5 Plot No .: |048 5-<10 10-<15 15 - <20 20 - K25 8 Page: 25 - <30 w 30 - <35 잌 (Cieveland Metroparks 35 - <40 3 5 200 50.0 51.6 >40 (record each tree) =



Record the number of stems/plants between 0.5-1.0 meters tall that exhibit evidence of this years deer browse.

Record using the tally system from 1 to













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C

D

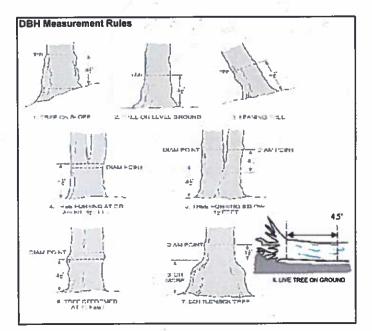
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3 10 Fogus grandifilm 10 Ocrberis thunking CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 10 Betula Venta 10 Fraxinus pennsululanica Prinusteratina Explain subsample (additional room on back): Project Label: PCAP voucher# # sterns browsed 0-1,4m or super % sub Project Name: 025C 2 015 clumps dunde size class (cm) woody stems >1.4m 2 1-<2.5 2.5-<5 Plot No .: 1048 5-<10 10-<15 15 - <20 20 - <25 Page: 1 25 - < 30 30 - <35 잌 Woleveland Metroparks 35 - <40 ö >40 (record each tree) =



Record the number of stems/plants between 0.5-1.0 meters tall that exhibit evidence of this years deer browse.

Record using the tally system from 1 to















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

21 2 Tree ID. 5 10 13 If Ash Condition scores 5 (dead) provide breakup score (A-E)
 Count EAB exit holes 1.25m≥ x ≥1.5m
 Woodpecker and epicormic marked present (1) or absent (0) Noash Voucher# 9 B ₽ **Q** Deed. ASH Only
Exit Epicomic
holes present Baseline Map all ash trees ≥10cm in each module using Tree ID number

CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet

Project Label: PCAP

Project Name: 025C2015

PIOT NO.: 1046 Date: 15 July 2015

Page: 1 of 2

*** Change intensive module numbers when necessary 2 9 • u

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						X: yes
Ranunculus ficaria	Lesser Celandine					Ŷ.	
	Black Swallow-wort						7
1 1	Flowering Rush					,	╗
Heracleum mantegazzianum	Giant Hogweed	$\neg \vdash$					7
Tier 2: Assess a		71 (2)	# of	Plants		comments	
		NE	SE	SW	NW		# of Plants
Acer platanoides	Norway Maple						1: 1-10
Ailanthus altissima	Tree of Heaven			1			2: 11-50.
	Japanese Honeysuckle	\neg	1	1			3: 51-100
	Purple Loosestrife	_	1	_	 		4: 101-1,00
	Bishop's Goutweed	\neg	+	+		·	5: >1,000
	Asian Bittersweet			+			
Torilis sp.	Hedgeparsley	\dashv	-	+			_
Conium maculatum	Poison Hemlock	\dashv	+	+			
Rhamnus cathartica	Common Buckthorn (shru	(h)	+	+		9	┥ .
	Japanese Barberry (shr		_	+	 		-
Berberis thunbergii		101	-	+	 		
Alnus glutinosa	European Alder Cut-leaf Teasel	+	+	-	 		\dashv
Dipsacus laciniatus		<u> </u>	-				\dashv
Elaeagnus umbellata	Autumn Olive (shru		+	+		<u> </u>	\dashv
Lonicera maackii	Amur Honeysuckle (shru	(מו	-	+			
Euonymus fortunei	Wintercreeper	_		101			_
Tier 3: Presence is	of Interest	-		Plants		comments	H = 0 minus
		NE	SE	SW	NW	2.00	# of Plants
	Lily of the Valley		_	+			1: 1-10
	Crown Vetch		_	-	 		2: 11-50.
Eleutherococcus pentaphyllus	Five-leaf Aralia (shru	ib)		+-	\vdash		3: 51-100
	Japanese Pachysandra			1	\vdash		4: 101-1,00
Philadelphus coronarius	Mock Orange (shr	1P)					5: >1,000
Pulmonaria officinalis (G-cover)		_					_
Rubus phoenicolasius	Wineberry					<u></u>	_
Iris pseudacorus (wetland)			\perp			· · · · · · · · · · · · · · · · · · ·	_
Ornithogalum umbellatum	Star of Bethlehem						
Viburnum opulus var. opulus	European Cranberry (shru	b)					_
Viburnum plicatum	Doublefile Viburnum (shru						
Tier 4: Widespread	and abundant		Pro	esence		comments	
		NE	SE	SW	NW		# of Plants
Alliaria petiolata	Garlic Mustard						1: 1-10
Ligustrum vulgare	Common Privet (shru	b)					2: 11-50.
L. morrowii, L. tatarica	Bush Honeysuckles (shru						3: 51-100
Phalaris arundinacea	Reed Canarygrass	1		1			4: 101-1,00
Phragmites australis (wetland)	Phragmites	\top	\top		 		5: >1,000
Polygonum cuspidatum	Japanese Knotweed	\dashv	\top		† †	·	—
Frangula alnus	Glossy Buckthorn (shru	5)	_	+		<u>-</u>	_
Rosa multiflora	Multiflora Rose (shru		+	+	 	·	┑
·	Cattails (wetland)	" -	+	+	 		-
Typha angustifolia, T. x.glauca		+	-	+	+ +		_
Cirsium arvense	Canada thistle	-	-	+	 	<u>.</u>	-
Dipsacus fullonum	Common Teasel	+			+		\dashv
Hesperis matronalis	Dame's Rocket	-	-		+		\dashv
Vinca minor (G-cover)	Periwinkle						

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

								- 1					:
		#	size class	size class (cm) woody stems >1m	stems >1	3							
mod at	voucher#	shrub	<u> </u>	1 25	2.5.45	<u> </u>	10 - <15	15 - <20	7 20 - <25	25 - 430	30 - <35	35 10	11 >40 (record each tree)
Fagus c			25	٠		e			$\overline{}$				
Acres 1					7/-								
Fagus			9 6										
			•				J. 1000						573
				•	••								
27.000			•		11								
			•	•	6					_			
us d				•	21		7.A						
9			-									·	
10			827										
* IF EVIDENCE OF PEST OR PATHOGEN RECORD TOTAL SPECIES POPULATION IN THE PLOT EVE	ATHOGEN	RECORD TO	TAL SPEC	JES POF	*ULATIO	N TH	E PLOT		N THE NOT INFECTED	T INFEC	TED		
Strata	# of stem infected	Severity (H,M, or L)		• Write	* Write None Present if no evidence:	esent if	no evide	nce:					
Tree (size class 3 or above)						Beech (Fungus)	Fungus)		1.5		Asian Lo	Asian Longhorned Beetle	d Beetle
Shrub (size class 2 or below including shrub clumps)						Hemiock (HWA)	(HWA)				Other Pe	Other Pest or Pathogen	thogen
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	o discase	88	tween			Walnut (Thousand Ca	Thousar	nd Cank	nker)				
Severity		0017	2										
High = more than 50% of leaf/needle cover exhibiting symptoms	needle cover	exhibiting sy	mptoms									d	
Medium = Less than 50% of leaf/needle cover exhibiting symptoms	af/needle co	ver exhibiting	symptoms		15								
Low = Only a few leaves or branches are exhibiting symptoms	inches are e	Shiriting sym	ると										

• 1			
	DA - Š		
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		28	
	Sa.		
	æ		
		(5)	

PHOL NO.: 1048

(Clovelend Metroparts Page: 1 of 1

CLASSIFICATION		
(FIT = excellent, g Fit and Confidence		
Hydrostomerabic class (WETLANDS ONLY):		
a DEPRESSION	1	Conf.
O IMPOUNDMENT O Beaver o Human	- Fi	Conf=
o RIVERINE o Headwater o Mainston o Charnel	Film	Conf*
CI SLOPE (ground water by drology or on a physical slop)	- T	Confi
o FRINGING o Reservoir o Natural Lake	F	Conf*
ti COASTAL (specify subclass)	7	Conf=
n BOG (strangly, moderately, weekly ombrotrophic)	Fitw	Conf=
Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):	CLINE	
th FOREST to swamp forest to bog forest to forest soap	<u>₹</u>	Cond's
a EMERGENT a marsh a wet meadow in open bog	======================================	Conf
o SHRUB o shrub swamp in tall sh, bog in tall sh, fen	F	Conf=

O EWERG	B FORES	Ohio E27/	D BOG (s	a COAST	o FRING	astore	O RIVER	O IMPOU	a DEPRESSION	Hirlman	Comer (FII - exc		33 in each intersaive
o SHRUB o shrub swamp o tall sh. bog o tall sh. fen	b FOREST a swamp forest a bog forest a forest soop	Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):	n BOG (strongly, moderately, weekly ombrotrophic)	o COASTAL (specify subclass)	o FRINGING o Reservoir o Natural Lake	CI SLOPE (ground water bydrology or on a physical slop)	g RIVERINE a Headwater o Mainstern o Charmel	O IMPOUNDMENT O Beaver o Human	SSION	Hrdraecomerabic class OVETLANDS ONLY):	(FIT = excellent g Fit and Confidence	CLASSIFICATION	
₹ ₹ 	<u>=</u>	NE S	Fift	7	- F] 	# 	Fit:	Ī				
Conf"	Conf.		Conf=	Conf=	Conf*	Conf=	Conf.	Conf-	Conf-		227		

		メン	1 6.8	13	١	mod# corner					
	-	7	0	0	0	(count)	- X	depth 3	1	tussocks	ng. of
		0	0	0	0	(count)	3.16x3.16m	depth 2	uplands (Tip-Ups)	hummocks	no, of
		V.	رو	4		(count)	10x10m	depth 1		depressions	no macro.
The state of the s		ō	24	24	20	(count)	10x10m	depth 1		(3-12 cm)	Ca'q
	(w	دو	-	-	(count)	10x10m	depth 1		(12-40cm)	cw.d
		0	0	0	0	(onund)	10:10:1	depth 1		g Z	Cald Cald Cald
	-	4	S	(J)	w	(rank)	10x10m	depth f		interspers.	microhab.
		I come	0 20		Į.	(rank)	H0x10m	SLOPE			microhab

CROW	Landform Inde Terrain Shape	+315	+271	* 22	÷	± -	±_	À-			THLEED OUT USING OUS PROGRAM. DO NOT FILL OUT IN FIFT DI	McNAB (NDICES (decrees) + for up - for down
N COVE	iez (positio pe index (s	+315 degrees	+270 degrees	+225 degrees	+ (FI) degrees	+135 degraes	+9II) degrees	45 degrees	Alaspec		no oviscu	DICES (d
CROWN COVER (DENSIOMETER), MALE 4	Landform Index (position within tandscape) *Termin Shippe Index (site microtopographic shape)	WW	€	ws	cs.	SS III	cs:	Ä	z		SPROGRAM	erreer) +
WETER) M	cape) graphic shap									LFI	DO NOT	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
B 0	2									1S1**		
			away.	standing - 10 m	recorden eye to	TSI measure		horizon, TSI is	Lift is angle of			

MOTE: bussock and hummocks are counted in BOTH nested quadrat corners but counts are aggregated.

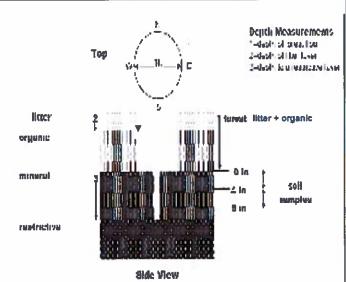
COVER BY STRATA

STRATUM	GENERAL FORM
Tree (generally >5 m)	Tree (overstory), very tall shrubs*, liana, epiphyte)
Shrub (generally 0.5 to 5 m)	Tree (sapting), 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.



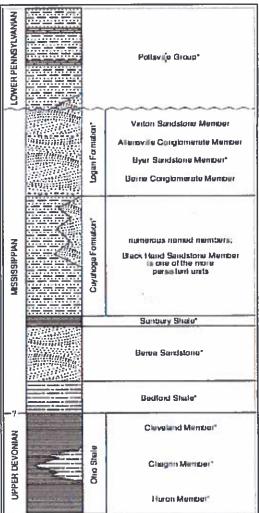


FIGURE 3-D.—Generalized section of Upper Deviman, Ministry an and Lewer Pennsylvanian firmations in northeastern Ozio. Asturaka indicate usins that are considerous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the findinesses indicated are proportional. The term "Wavetiy is used in the older literature to refer to Mississippian rocks in Oniona seeding the the European term." Carboniferous, which smoonpasses the Austrappian and Pennsylvanian Periods of the U.S. Many units have been named within the Cuyshogs Formation, but most units are local and campit be traced over great distances. The Black Hand Member is a spectacular manyive sendatone that is fairly widespread but discontinuous. See Hyde (1953), Horver (1960), and Collins (1979) for more information on Mississippian rocks in Ohio. See figure 3-16 for explanation of took types.

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Blomass Data Sheet 6a Project label: PCAP Project Name: 02SC2015

Plot No.: 048

(E) Gereland Metroparks

Page: 1 of 1

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

6 CE Soil pit module # matrix color (one per entire plot)

ottle color

20 cm pud roots atrux color dr. cond.*** offile color ion features** I S M D

redax features** oxid roots mottle z

hydro, cond *** I S M D

refer to texture classes on reverse nide

** e.g. hydrogen sulfide odor, gleying, etc. industried S-salurated M-most D-dry

lotes: include evidence of earthworms (worms

astings, middens)

2- no worms, moders, or castings
3- no worms or excrement

8-no worms or excrement present 9- NO WORMS OF CYCROMENT
66CM PCAP Soils_Crown cover_Landform_Standing Biomass_Data Sheet_ver 3.xls limit revised 6/4/2012 ceh

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

Soil Series/Type: soil Series Source Ohio Soil Survey Web Sell Survey Informations 3.8.9 composited Soil Collection ModuldHorizon (A. B. C)

erent Material

Depth to rest. Layer.

andform type:

BAINAGE*

 Somewhat poorly dr. Well drained Excessively dr. Somewhat excessively Moderately well dr. In Very poorty dr

Impermeable surface

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

ecord as >30

organic depth 1 litter+ 2 litter water depth

ナ 9 つ 心 depth (cm) 9 depth sat soil (cm)

**** <5 cm in diameter	••• >5 cm m diameter	**Boulder => 10 in	• Gravel-Cobble = 1/16-10*	Bedrock	Boulder**	Gravel-Cobble*	Mineral Soil	Histosol	194001 - tento	Underlying Earth Surface*	EARTH SURFACE & GROUND COVER
meter	neter	5	1/16-10	l	32%	1	979	1	percent	h Surface*	CE & GROU
Other	Road/Trail	Bare Soil	Water	Bryophyte- Lichen	Duff (Ferm.+ Humus)	Litter	97 7 B Fine Woody Debris****	Coarse Woody Debris***	(Each ≤ 1009Q	Ground Cover	ND COVER
1	L	190	178	200	1	409	5%		percent		-
		-					1	23%	b	Ī	

COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13 ×

	(Aquatic)*	(Floating)*	Herb	Shrub	Tree	Strate	
and provide the contract to the	1		05	5 - 61	5	Heloht Range (m)	
			4 3%	337.	437	Total Cover (%)	

rooted and floating or slightly emersed

submersed, most plant mass below surface

SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.

Deer	☐ Gravel	Bootleg unsunctioned	Hiking sanctioned	o Bridle	a All Purpose	Туре	
					T	%Cover	

FRAIL INFORMATION cord type and cover for each

MONE 3

STAND SIZE

n > 100 x plot size 10-100 x plot size >600 x plot size

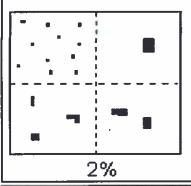
1-3 x plot size

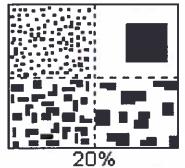
3-10 x plot size

< plot size

PERCENT MOTTLES (USE CLASS CODES):

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





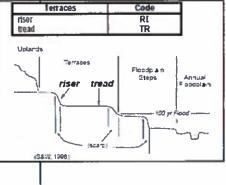
SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but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

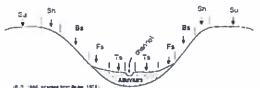
a.g., (for Hills) nose stope or NS.

		rur	for reads		
	interfluve	Į F	1F	1 1	
	head slope	HS	HS		
	nose slope	NS	NS		
	side slope	SS	SS		
	zina zinha	33	33		
	hase stope	_	BS		
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Hitstope - 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.

Postion	Code
summit	SU
shoulder	SH
backslope	BS
footslape	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.