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Site sketch made on 1	:3000 map?	(Y) N	1	
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	Unsafe to sample (i.e. steep slope	t)		- CKNI WIS
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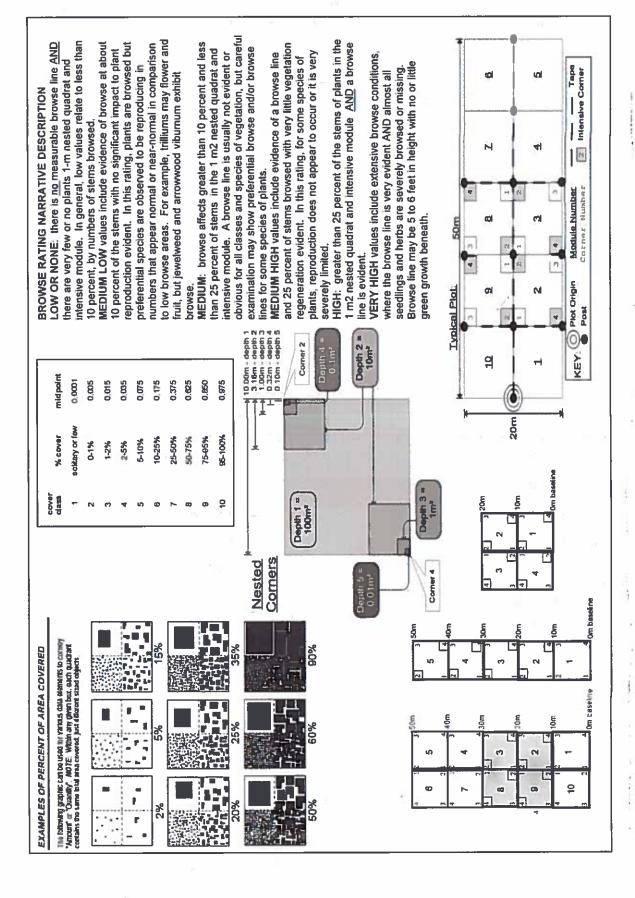
CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	munity Assessment Pr	ogram - Backgrour	nd Data S	heet			(Claryland Mainparks	Mulmparks	
Project Label:	PCAP	Project Name: 02 WC 2015	02 W	2 2015	-	Plot No.:	Plot No.: 1072 Pa	Page 2 of 2	
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o Fresh	(dry <1/yr, seldom flooded)		D Tidal/Seiche flooded monthly	led monthly					
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1	a Temporarily flooded	(e.g.	(e.g. wind, storms)	l (s					
(by default unless plot is a wetland)		o Unknown	own						
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The plot is basically a Red Maple wood lot surrounded by roads and part buildings.	a Red Maple w	sod lot sum	ounded	(b)	roads	and	park building	. 5 /	<i>></i>
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sunitaint to ottent veget	PATION STIGHTLY	In thed	.0	00/5 S	and	5 hai	ie been invaded f	~ <u>~</u>	
many new species mostly weedy	Hy weedy. I s	suspect this a	प्रदेव अ	ids mor	رد کھر	N Y	moth because		
Solrpus is doing well the	ere. More sunlig	sunlight now hits 5 and 6 as well	S	and 6	as i	ne .			
	7								

capula Cleveland Metroparks CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Strata - Cov. entire plot Total modules: Project Label: S H (F)(A) Br W W N N 5 Unknown By B o ω Ø Prun Vs Grass 0ra55 RHAMNUS FRANGULA Cratagaus so. Potentilla Berberis Hounbergu ROJA MULTIFICORA Quercus 50. Hedvotis HOLCUS Acer 50 (stedling MOSS 50 Amelanchur 50. Tredtina Ker rubrum LLUXHUM 2 20. describe amount of browse per species over 0 ATEX SWADI Ilm 145 sp. (seedling Inorrow to 237140 SAN CAM MUNTHUN Br = Browse Level. Use cover classes to Rrunus #4 TVINY Dan ななって # W Seronna LANATUS gidantea Speciesary June chump entire plot cerasus 12M21 dentatum carylos Sed Times anuainpusum ** Sedling Today Trac - Ball Doub 6/2015 Ry 14 FT -202 075 Intensive modules: %unveg. ground (bare soil %unvegetated open wate intensive module: Estimate for each CKMOIH -2-5 %unyeg, litter (bare litter) CKWORS ပြည်Voucher# CH 176-530 512-7-13 C4 256-210 CH 226-07 FACOUNT CKNOSH -201h 51-91-2137 Project name: 02 WC 2015 6/2015 %open wate h N 4 N 79 7 4 S N 4 H N 0 W W 4 7 I 4 W 13 4 72 2 corner mod J VJ ş OB 1 N 5 Plot configuration: 2×5 T N comer ğ Ş ā h 155 mod 第27 **5**3 **12**2 r 71 7 N 7 1 V comer mod C ğ 0 Plot no .: ω W () Some 8 ş 1072 depth <u>∞</u> § WIL J N N N J ð 4 N T <u>∞</u> 7 depth Г Plot area (ha): COMMEN ğ ş B DOE Page COTTRET W N N 8 200 0 -2 mod 2 comer 8 ş dapa depth DOUT red base of perty SRE12-16-15. A. uskellata simplex rà Brasie spondible dines schoont COMPINER 110

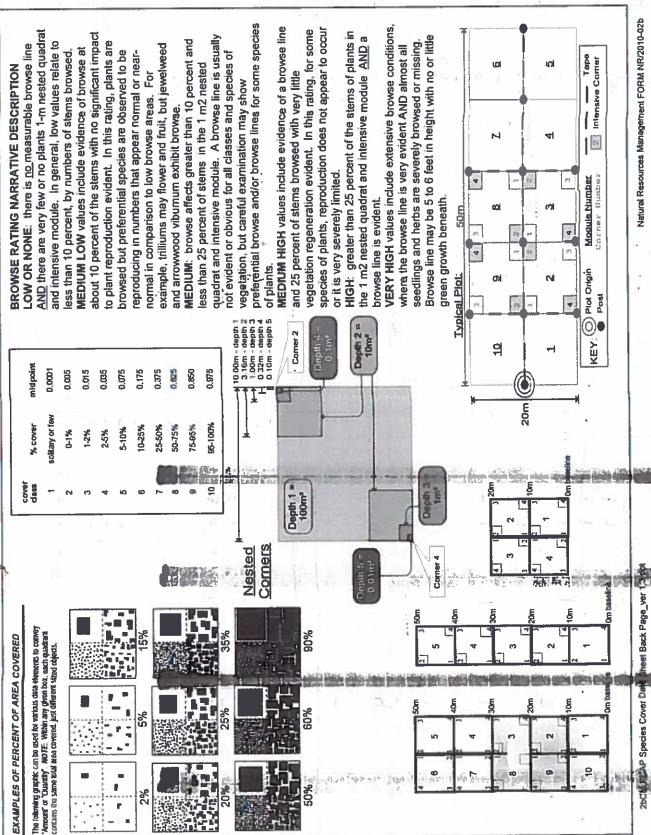
SRE_CM PCAP Species Cover Data .xls last revised 8/10/2015 [jm CK//\

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Natura Resource Management FORM NR/2010-02a

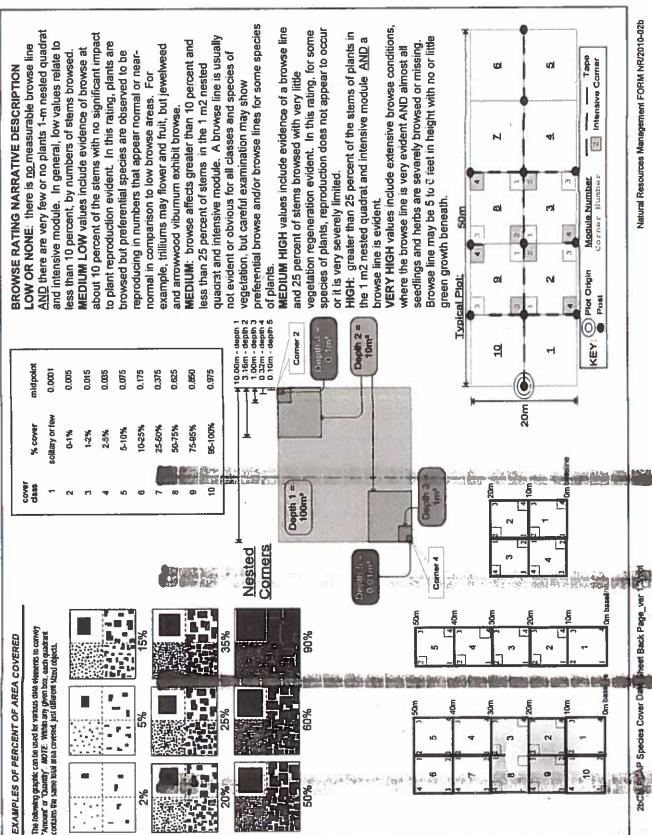


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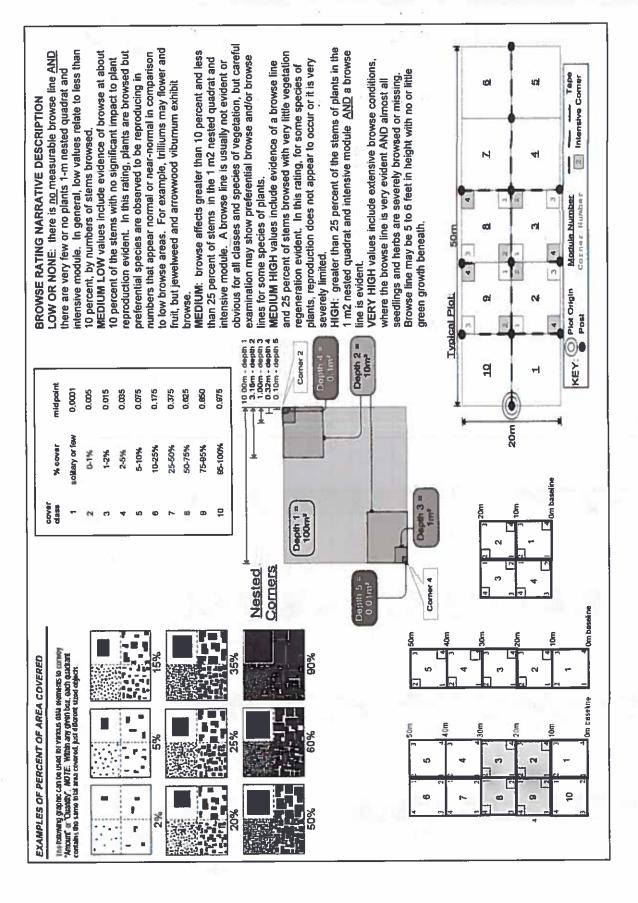
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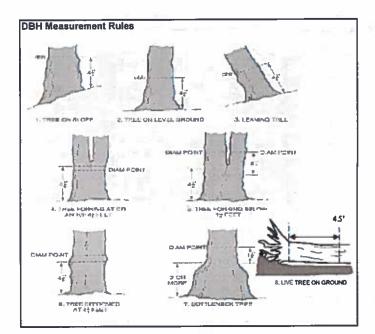
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Woody Stem Deer Browse

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

Record using the tally system from 1 to













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.
- 3. 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.



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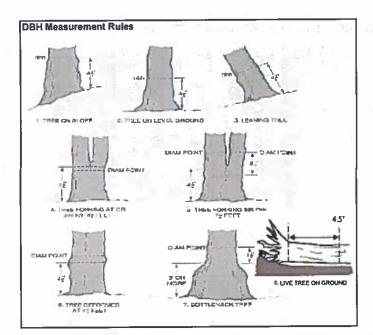
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ASH CANOPY BREAKUP CONDITION (for dead trees):

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

- A: All main branches contain fine twigs (newly dead).
- 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.

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 39 Over rubrum 00 7 Prunus serotion 10 Hunus sentina 7 Standing Dead Qur obrum Rubis sp. Standing Dard Our Jubrum Rosa multiflora Berberis Hunbergii Rosa multiflora Prunus seratina Rhamous franquia Rhomaus Franquila Our rubrum Berberis Hunbergii Explain subsample (additional room on back): Kosa multiflara Prunus serotion Olar robrum Rosa multiflora Standing Dead Rosa multiflora Ulmus americana Project Label: PCAP voucher# browsed 0-1.4m sterns 47 مع or super % sub Project Name: 03/ul(30/5 size class (cm) woody stems >1.4m 0-<1 1-<2.5 2.5-<5 Plot No .: 1073 5-<10 10-<15 15 - <20 20-<25 Page: ø 25 - <30 30 - <35 으 Cieveland Metropulits 35 - <40 864415 513,419,433 435,435 >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

С

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.

25

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)

CLEVI	ELAN.	CLEVELAND METROPARKS Emeraid Ash Borer - Fraxinus Sheet Project Label: PCAP Project	h Borer - bel: PCAF	Fraxinus She	Project Name: ORW 3015	JANEO .	305		INTENS Plot N	INTENSIVE MODULES ONLY Plot No.: 1042 Date:	SONL	Date: 10-10-2015	OCM ONLY Page: 1 of 2	
		2000						AS	ASH Only		٦			
Madule	ᅙᇶ	Species	Dead	Voucher#	DBH (cm)	Ht @ Ash DBH condition	sh 'Dead frion condition	. T	t Epicomic present	c Woodpecker				
	-	Now Present	_		75 700				-					
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	ω						-	H					-	
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87	cn						_					ķ		
	6										Tio.			
	7								u			Change intensi	*** Change intensive module numbers when necessary	γE
	æ							100						
	6						Ξ						180	
	õ					-						•		
	=				-	03						[
	12								104					
T	ಪ		S 6							(6.4%)	selir			
	4										В		9	
	5			,										
	5						and the same of th			18		2	<u> </u>	
	17										77/60			
	18													
5 X	19						-				F			
	20												1	
	21										1	Map all ash trees ≥1	Map all ash trees ≥10cm in each module using Tree ID numbe	admur
	22													
	23											i i		
	24										12 1			
			67		_									

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



				Dec.			- CDÉ	1
Tier 1: Early detection,	Rapid response		ME		ence	Anac	GPS	Benganas
Office and the state of the sta			NE	SE	SW	NW	~ a. a. da) d 11	Presence
Microstegium vimineum	Japanese stiltgrass			_		1	Just outside plet	X: yes
Ranunculus ficaria	Lesser Celandine			1				{
	Black Swallow-wort				_	\vdash		
	Flowering Rush			_	<u> </u>	\longrightarrow		-
Heracleum mantegazzianum	Giant Hogweed							
Tier 2: Assess a	s Needed			-	Plants	_	comments	P 0-1
			NE	SE	SW	NW		# of Plants
Acer platanoides	Norway Maple				Ь—		11	1: 1-10
Ailanthus altissima	Tree of Heaven			<u> </u>	<u> </u>		 -	2: 11-50.
Lonicera japonica (vine)	Japanese Honeysuckle							3: 51-100
Lythrum salicaria (wetland)	Purple Loosestrife		-					4: 101-1,000
Aegopodium podagraria (G-cover)	Bishop's Goutweed						<u> </u>	5: >1,000
Celastrus orbiculatus (vine)	Asian Bittersweet			<u> </u>	<u> </u>]
Torilis sp.	Hedgeparsley							
Conium maculatum	Poison Hemlock							1
Rhamnus cathartica	Common Buckthorn (s	shrub)]
Berberis thunbergii	Japanese Barberry (shrub)]
Alnus glutinosa	European Alder]
Dipsacus laciniatus	Cut-leaf Teasel							
Elaeagnus umbellata		shrub)]
Lonicera maackii		shrub)]
Euonymus fortunei	Wintercreeper]
Tier 3: Presence i		A. Carrier		# of	Plants		comments	
		11000	NE	SE	SW	NW		# of Plants
Convallaria majalis (G-cover)	Lily of the Valley							1: 1-10
	Crown Vetch			<u> </u>				2: 11-50.
Eleutherococcus pentaphyllus	Five-leaf Aralia (s	shrub)						3: 51-100
	Japanese Pachysandra							4: 101-1,00
Philadelphus coronarius	·	shrub)	<u>.</u>					5: >1,000
Pulmonaria officinalis (G-cover)								
Rubus phoenicolasius	Wineberry						· · · · · · · · · · · · · · · · · · ·	1
Iris pseudacorus (wetland)								1
Ornithogalum umbellatum	Star of Bethlehem				1			1
Viburnum opulus var. opulus		shrub)		1	1	\Box		1
Viburnum plicatum		shrub)				\Box		1
Tier 4: Widespread				Pre	sence		comments	
			NE	SE	SW	NW		# of Plants
Alliaria petiolata	Garlic Mustard							1: 1-10
Ligustrum vulgare		shrub)		1	1			2: 11-50.
L. morrowii, L. tatarica		shrub)		\vdash	1			3: 51-100
Phalaris arundinacea	Reed Canarygrass			 		 		4: 101-1,00
Phragmites australis (wetland)	Phragmites			\vdash	1	\vdash		5: >1,000
Polygonum cuspidatum	Japanese Knotweed			\vdash	+	\vdash		1
		hrub)		+-	1	1		1
Frangula alnus				1	1 /	7		-
Rosa multiflora		shrub)		+-	++	12-1	·····	1
Typha angustifolia, T. x.glauca	Cattails (wetland)		-	\vdash	+	+-		1
Cirsium arvense	Canada thistle			\vdash	+		·	┨
Dipsacus fullonum	Common Teasel				\vdash			-
Hesperis matronalis	Dame's Rocket			1	-			-
Vinca minor (G-cover)	Periwinkle			1	1			_

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

_				Ω
		Explain subsample (additional room on back):	Project Label:	CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data She
	% sub	back):	PCAP	Community Asse
1	#		Proje	ssment Pr
	% sub # size class (cm) woody stems >1m		Project Name: 020/C2015	ogram Forest Pest a
	ems >1m			and Pathog
,			Plot No.: 103	ens Data
,			1072	Sheet
			Page:_	
			-	⊕
_	4		s I	weland Me
			<u></u>	rtroparks

1 None Present 2 3 3 6 6 7 7 9	mod #	species	voucher#	و 9 ي	% sub or super sample	# shrub clumps	# shrub clumps	# shrub clumps	# shrub clumps	# size class (cm) wood shrub 1 2 clumps 0-<1 1-<2.5	# size class (cm) woody stems >1m shrub 1 2 3 4 clumps 0-<1 1-<2.5 2.5-<5 5-<10	# size class (cm) woody stems > 1m shrub 1 2 3 4 5 5 clumps 0-<1 1-<2.5 2.5-<5 5-<10 10 -<15 15	# size class (cm) woody stems > 1m shrub 1 2 3 4 5 5 clumps 0-<1 1-<2.5 2.5-<5 5-<10 10 -<15 15	# size class (cm) woody stems >1m shrub 1 2 3 4 5 5 clumps 0-<1 1-<2.5 2.5-<5 5-<10 10 -<15 15	# size class (cm) woody stems >1m
		None Present			1 1										
10 9 8 7 6 5	N														
4 5 6 6 8 8 9	ω														
5 6 8 8 9	4														
6 7 7 8 8	Çŋ													-	
7 8 8	თ														
0 8	7														
9	œ														
10	မွ														
	10														

Strata	Total % Cover
Тгее	
Shrub	
Herbacous	

* Write
None P
Present if no eviden
if no evi
dence:

-Beech (Fungus)

-Hemlock (HWA) -Other Forest Pest or Pathogen -Asian Longhorned Beetle

-Walnut (Thousand Canker)

	O		0	

Section Prizer Plant Conver_Bush Surface Discourse STANDING BIOMASS (required for emergent wetlands) collected in 0.1m clip plots (32x32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C7=check when CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface

Project Label: PCAP Project Name: 02005 UR MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only I feature is present in indibinate or greater amounts and of highest quality leges 1 = slight elevational grade across module (hit) feature is present in moderate amounts, but not of highest quality, or in smell amounts of highest quality feature is present in the wedland in very small amounts or if more common, of low quality feature is absent or functionally absent from the wetlend whit for microhabitat features. Select one or select two and average the score.NOTE: If modifalls on a slope autom 00 depth 3 ng. of 0 0 COMMI 1x1m 0 លួ plends (Tip-Ups) 3, 16x3, 16m 00 0 0 depth 2 no. of Corner Slope 2 = falls on slope ~20° depressions no macro depth I (0x10m o RIVERINE o Headwater o Mainstern o Charase CLASSIFICATION SLOPE (ground water bydrology or on a physical slep) DIMPOUNDMENT to Beaver to Human DEPRESSION Hydrogeomorphic class (WETLANDS ONLY): This EPA VIBI Plant Community Class (WETLANDS ONLY): o FRINGING to Reservoir to Natural Lake FIT - excellent g Fit and Confidence FOREST a swamp forest a bog forest a forest seep i EMERGENT a marsh a wet mendow: a open bog SHRUB a shoub swamp a tall sh. bog a tall sh. for BOG (strongly, moderately, weekly ombrotrophics COASTAL (specify subclass) 出る。 (2-12 cm) 10x10m depth (D/M/0 -17 c.w.d. - count for pieces with minimum im length S 88 90 bically gets ranked besed on steepness (1-3) to begin + any feetures present Slope 1 = maximum steepness that can be salely sampled ~45° (12-40cm) depth I 0 10x10m Cu.q O 0 ×40 cm depth 1 0 10x10m 0 0 큐 큐 큐 | | m)(-Fice F microhab depth 1 10x lom Phot No.: 1072 क कि क Cœf= Conf-Conf= Conf= Conf= Confr Conf= SLOPE 10x10m N S N N 3N 10 McNAB INDICES (degrees) + for up - for down FILLED OUT USING OIS PROGRAM - DO NOT FILL OUT IN FIELD! Terrain Shape Index (site Inicrotopographic shape idform Index (pasition within landscape) corresponding space. (4 dots per grid square) CROWN COVER (DENSIOMETER): Make 4 readings per module facing N, S, E, W. Place dot count + 1 50 degrees +315 degrees +135 degrees +225 degrees +270 degrees +45 degree +90 degree At aspect Natural Resources Mangement FORM NR/2010-05s Ž WS M ٤ 88 പ്രമാ سا @ Glaveland Mobile party Page: 1 of 1 angle from recorders eye to eye of person standing - 10 m local slopes. For TSI measure LFI is angle of plot to the horizon. TSI is

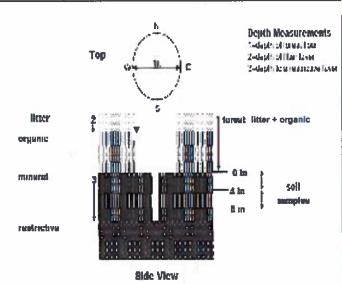
COVER BY STRATA

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.



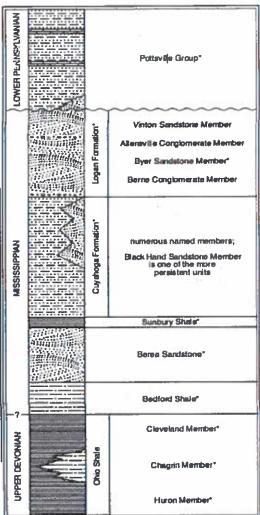


FIGURE 3-20.—Generalized section of Upper Devosias, Mississippias, and Lower Pennsylvanian formations in northeasers Ohio Asteriaks indicate units that are finallifetous. This composite section represents about 400 meters of rock exposed across the area. The section is not to each, but the chicknesses indicated are proportional. The term "Waverty" is used in the older literature to refer to Mississippian rocks in Ohio. Some geologists use the European term "Carboniferous," which encompasses the Mississippias 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 sandstone that is furly widespread but discontinuous. See Hyde (1953), Hoover (1960), and Collins (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: 03W 2015
Plot No.: 1072

(E) Calcreland Metroparks

Page: 1 of 1

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

E C C	2
matrix color	oil pit module #
	(one per entire plot)
lie	,

						20 cm							3
	redex features**	lexture*	oxid roots	%mottle	mottle color	matrix color	hydr. cond	redox features**	texture*	axid roots	%mottle	mottle color	matrix color
			~				- s	4					
	z		z				N D	z		z			
1			alum.		Ĭ.	77.00		<i>8</i> .			6		

refer to texture classes on reverse side

hydro_cond ***

1 S M D

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

Votes: include evidence of earthworms (worms I-industrialed S-saturated M-moist D-dry

3) No evidence, ground wet.

1) No evidence, grand wet.

30 30 Smill

(M) 3:0

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

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

Soil Collection Module Herizon (A. B. C)	50
2,3,5,9 composited	>
Web Sell Survey Informations	
Soil Series/Type	
Soil Series Source: Ohio Soil Survey	
Landform type:	
Depth to rest. Layer:	
Parem Material	
DRAINAGE*	
Excessively dr. Somewhat excessively	cessively
Well drained	well dr
□ Somewhat poorly dr. □ Very poorly dr.	porty dr.
u impermeable surface	

o 2

record as >30	0.1 cm in	SOIL DE
30	0.1 cm in center of intensive modules. If >30.5 cm,	SOIL DEPTH MEASUREMENT: Measure to the nearest
8	intensive	SUREME
	modules	NT: Mea
	=	Bus
	>30.5	to the
	CAI,	paresi

	1 litter+ organic depth	2 litter	water dept	\$
R)	3.0	3.0	O (cm	
ယ	48	7.5	0	
8	h (14	0	
9		1.1		0

4%	Road/Trail	meter	>5 cm in diameter
58	Bare Soil) in	loulder = > 10 in
	Water	=1/16-10*	ravel-Cobble = 1/16-10*
100	Bryophyte- Lichen	1	łrock
20	Duff (Ferm.+ Humus)	1	ılder**
20£	Litter	1	vei-Cobble*
5%	Fine Woody Debris****	2001	eral Soil
12%	Coarse Woody Debrus***		tasol
percent	(Each \le 100%)	percent	- 100M
	Ground Cover	th Surface*	derlying Earth Surface*
	ND COVER	RTH SURFACE & GROUND COVER	RTH SURFA

Bridle
 Hiking sanctioned

Bootleg unsanctioned

Gravel

a All Purpose

ğ

%Cover

TRAIL INFORMATION:

scord type and cover for each

S B

I S

H S

Und E

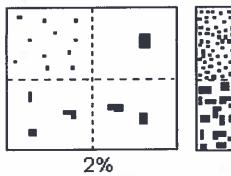
	COVER BY STRATA eathmate using midpoints of 5,ex:3, 8, 13
	*
1	MALL IN

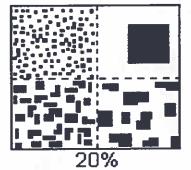
(Aquatic)*	(Floating)*	Herb	Shrub	Tree	Sirata
N/A	NIA	05m	0.5 -5m	5m	Height Runge (m)
N/A	N/A	83%	38	83%	Total Cover (%)

STAND SIZE 0 > 100 x plot size 1-3 x plot suze 3-10 x plot size < plot size 10-100 x plot size >600 x plot size



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





SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but excess water does not freely flow from the sample when squeezed. Attempt to roll the sample into a ball. If the soil will not stay in a ball and has a grainy texture, the texture is either sandy or coarse sandy. If the soil does form a ball, squeeze the sample between your fingers and attempt to form a self-supporting ribbon. Samples which form both a ball and a ribbon should be coded as clayey; samples which form a ball but not a ribbon should be coded as loamy.

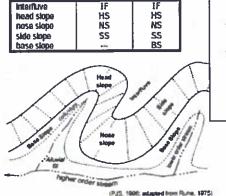
- 0= Organic
- 1= Loamy
- 2= Clayey
- 3= Sandy
- 4= Coarse Sand
- 9= Not measured make plot note

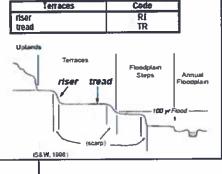
Geomorphic Component - Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains:

POP

NASIS

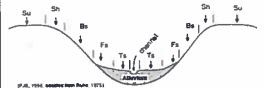
e.g., (for Hills) nose slope or NS.





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.

\$U
SH
BS
FS
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.