CLEVELAND MET	ROPARKS Plant Community Asse	ssment Progra	am: Qualit	y Control Form	(Cleve	land Metroparks
Project Label:	РСАР	Plot	No: 137	Date Sampled		
			100		ired if item answe	
Parking/Access outsid	e of Park Boundaries:	V/N	Ifves	, write details in Com		
Field journals complet		V F	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	with details in con-	mens section ben	,,,
Site sketch made on 1:		YN	,		5 - 57 EO 1.0 O	10.55 (%)
Check cover page	X-axis Bearing of plot recorded	Y N				
	GPS coords. Recorded	Y) N				
15	North direction recorded	(Y) N				
5	Photographs taken?	Y) N				
	Relocated Pins Mapped	(Y) N				
Plot No., Date agreem		Y N				
Header data completes		(y) N				
	I in all Intensive modules	GN N				
Browse Level By Spec		Y N	1	10172		
Woody stem quality co		(Y) N	Chec	c every line and cross	check with the Ti	ree Cover Sheet
Invasive plant quality		Y N	27 1 1 1	Andrews		
Ash trees mapped	· -	Y N	N	/A		
Completed Forest Pest	/Pathogen Datasheet	(Y) N	111245			
Cover by Strata? (conf		(Y) N	1			
Soil samples collected		(~K) N	1			
Cross check 2010 info		Y) N		ight any changes fron	n 2010 information	n
Vouchers labeled on d	atasheet with initials and number	Y) N				
Vouchers labeled on c	ollection bag	I GO N	ı			
Pink flags removed		(X) N	ī			
Data sheet QA before	leaving site?	(V) N	,	Ö		
Common equipment r	eturned to tub.	Y	1			
Data sheets scanned?			Enter	date to left		,
Final data sheets scan	ned?		Enter	date to left	,	
Buffer Widths measur	ed?	Y N	,			
Web Soil Survey	4	Y N	,			
Voucher Location	Refrigerator	YN	1		-	
(# vouchers collected)	Press (#)		Enter	number to left	-x- II	
ACL.	Drier	Y N	į			
2027	Identified	Y N				
38 6 7	Mounted	Y N	1			
384	Thrown away	Y N	1	scott colo		
GRTS point verificat	tion: Is plot sampleable?			4	4	, 1
1 Yes	Original GRTS point is sampleable					
□ No	Original GRTS point lands in a non	sampleable an	ca (fill in c	itegory below)		
	☐ Point falls in a water (i.e. river,					
	□ Managed mowed area (i.e. golf	course, picnic are	a. right-of-wa	y)		

Managed mowed area (i.e. golf course, picnic area, right-of-way)

Paved area (i.e. parkinglot, road)

Unsafe to sample (i.e. steep slope)

Other

Additional Comments:

Park at Center Park and walk down to plat

PCAP Data Quality Control 2015.xls last revised 6/10/2015 ceh

Natural Resources Mangement Form NR/2011

CLEVELAND METROPARKS Plant Community A	nmunity Assessment Program - Background Data Sheet	am - Backgroun	d Data St	neet				(Actualum Mulingaria
Project Label:	PCAP	Project Name: 09UC 3015	COUCE	Sion		Plot No.:	1376	Page 2 of 2
MODIFIED NATURESERVE CLASS*			DISTUR	DISTURBANCES	, II			
CODE (on separate form):	Fir= Conf=	-	type	severity**	yrs ago % of plot	of plot	description	
			Human	W	0	1000	trash	
60-1			Natural					
COMMUNITY NAME: 65 70			Fire			9		
			Cut					
Dry-Meste Oak F	Jones F	5.	Animal	25	0	60%	25mag	
			Other	7	0	1001	trail impac	act
HOMOGENEITY			**L=low, h	(L=med low	M=med, 1	/IH=med h	**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high	ery high
D Monogeneous a Compositional t	Compositional trend across the plot		Current Land Use:		PARK			
nclusions	mosaic		Former Land Use:		anki	LNKNOWN		200 200 200 200 200 200 200 200 200 200
	HYDROLOGIC REGIME*	***						
	e Upland (seldom flooded)	o Intermi	a Intermittently flooded	ded				7. 17. 1
SALINITY*	☐ Intermittently/seasonally saturated		Semipermanently flooded	Rooded				3
a Saltwater	(seldom flooded)	□ Permar	□ Permanently flooded	pə				
O Brackish	□ Permanently/Semipermanent, saturated		□ Tidal/Seiche flooded daily	ed daily				
o Fresh	(dry <1/yr, seldom flooded)	o Tidal/S	n Tidal/Seiche flooded monthly	ed monthly		7		
a Lipland (n/a)	□ Occasionally flooded (<1/yr)	S/Japl/S	n Tidal/Seiche flooded irregular	ed irregular				
Q III O I E I	□ Temporarily flooded	(e.g. v	(e.g. wind, storms)	- ·				
(by default unless plot is a wetland)	The State of the S	□ Unknown	wn				6	
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)	ess of plot to the stand, successional	status, maturity, etc.)		Ä				
as a result of whose		stand 251	アカル	ر ا	enbri	2	nd blu	ebem
both show extensive ba	& bowse, Abundant Squawoof throughout.	bundant	Squa	50 M	+ +	ney	shout.	
Lots of trails throughout	shout the area						1	
1								

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Project Label:

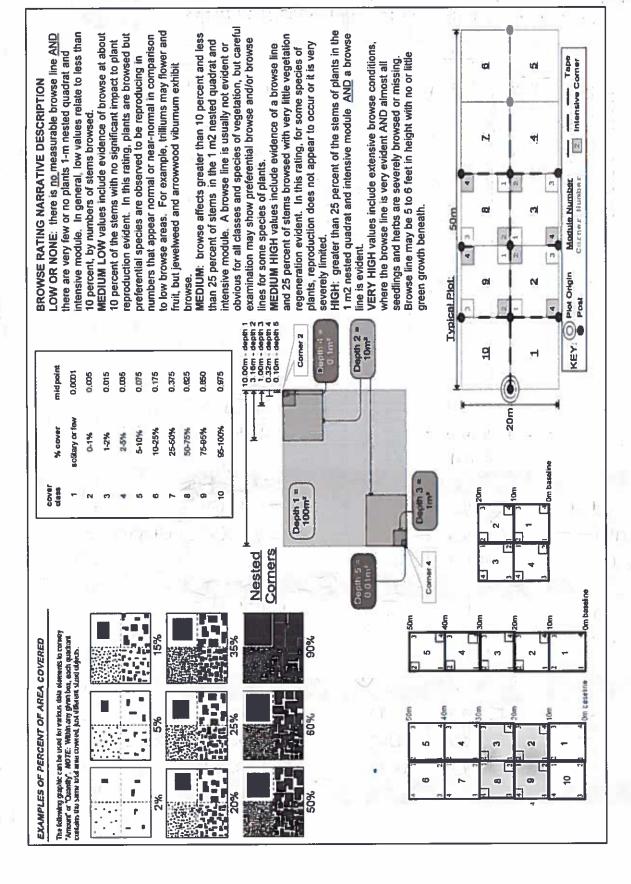
Total modules:

Project name: <u>02wC2o15</u> Plot no.: <u>13</u> Intensive modules: <u>4</u> Plot configuration: <u>1 x S</u>

Plot no .: 1376

Plot area (ha): 605 Page ___ of ____

25	ಬ			4	22				N.	ا ا	2	-		22	1				%	と	N)	ນ	H 있	<i>h</i>	S H (F)(A) Вг	Strata - Cov. entire plot	and operate	Cleveland	3	9
λ.	9 Vacconium Palledum	1_/	Magnota acuminata	Acec cubrum	Acer sp. 1	Premarthus sp.	Carex axiculmis	Rubus so.	\mathbf{S}_{-}	Podophyllium peltatum	7	Toxicodondan roducans	Leersia Virginica	Conapholis americana	Sassafras albidum		Powcage sp.	Erechtle's hyeraes Folia		Cratageon's Sp.	Quercus sp.		~	Carpinus caroliniana	Br Species	ot		describe amount of browse per species over	Br = Browse Level. Use cover classes to	
X 40,383	7-41-21 335																								c Voucher#	%unveg. Riter (bare litter)	%unveg. grado bara soil)	%open water	intensive module:	Estimate for each
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		2									Ŋ			W	دو	100			N			دو	υ)		depth cov depth				-	٠ ا

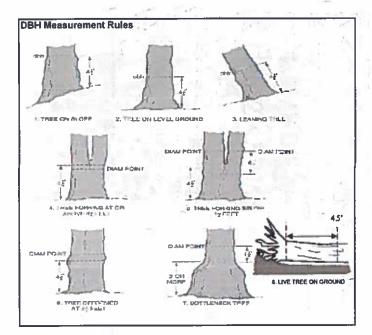


LEVELAND ME	Exercised Label:	nent Program Speci	es Cov	er Da		eet	2		127/					P	Page	دو	0	0 6	
Total modules:	N	Intensive modules: 4 Plot c	t	ا ا	Plot configuration:	figura	tion:	× .					ot :	Plot area (ha):	(ha)	The state of	005	N	
>			mod C	corner mod	d comer		mod cerner		comer		corner mod		comer	Maria	COMME	DOM:	mod corner med corner	T-11	
3		intensive module:	depth	cov depth	8 6	d g	P Age	g g	₽ Q	depth	V	depth	8 0	g g	ğ	dep	8 8	depth 7	- 1
Cleveland	describe amount of browse per species over	%open water	_		_				-					-					
Metroparks	entire plot	%unvegetated open water				100		200		-	1			-					
		%unveg. ground (bare soil)	<u> </u>	+						1-					10				
S H (F)(A) Br	Br Species	c Voucher#	depth	ουν depth	GDV CDV	G 60 5	g g	8	QQ		ğ	depth	å	d d	ğ	depth	g	depth	-
	Mitchell		1		8								N.		1		_	_	- 1
プ プ	Hamamelis itrainiana				T.		4			4	4	10			36		I	To de	
	10 Vaccinsum anadstifolium			-	_5					Z.	1			1		-			
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CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Strata - Cov. entire plot % COVER Project Label: 몆 6 Ace C. Chalochan tagus grandifolia Prithus "serotra Suprems supra iciedendon tulipifica lagnolla acuminata Species Species (X) mod mod Project name: 62662015 Plot no.: 1367 Voucher# **70** R Page _

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et Plot no.:	« C						!								v.							
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t Program Tre Project name:	Prensence of tree mod species (X)	Voucher #											:									
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Sessi		٥	+					H				ŧ	_				 	_	_			Н
CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Project Label: Project Label:		ဖွ							I													
ARKS Plant Co PCAP		Species																				
ETROPA	 					-	-			-		10									vices or	
CLEVELAND M Project Label;	% COVER Strata - Cov. entire plot	ĕ																				
CLEVI	% COVER Strata - Cov.	H																				

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Explain subsample (additional room on back) SWIND TO MANUE HOS GOODING TO ARTON STAR TANON DEAD ABOS COD TANDER THE 1322/JOURS STOKE OF CHECK HOOMEDOIN! SALVON W BOSICOR CINCAC CANCION SOCK COS Project Label: ACTION OF School MANA THE COLUMN CIZICO CIZICO voucher# 区 browsed 0-1.4m Sterne t or super % sub Project Name: 07 VIC 7015 clumps 6 size class (cm) woody stems >1.4m 6 <u>2</u> 0 k 1-<2.5 . Plot No.: 1376 0 5-<10 10 - <15 15 - < 20 20 - <25 Page: 30 - <35 잌 Deleveland Hetroparks 35 - <40 5 12-5" HA 91.5 >40 (record each tree) 8.0h > on



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

IU













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.



R

C

D

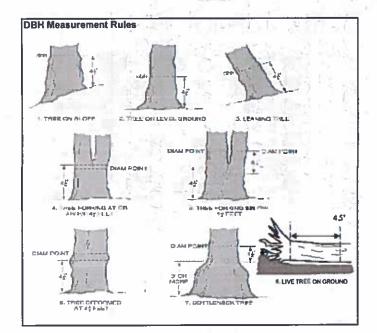
F

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 stifl standing.

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet part suad SOUTH STATES Proposition . STANDING DEAD Explain subsample (additional room on back) ABrichan Antional THE SCHOOL printer acardian TAN DAG DEAD Project Label: PCAP 5 browsed 0-1,4m stems or super dus % Project Name OZN (20)5 shrub clumps # size class (cm) woody stems > 1.4m 1-<2.5 2.5~5 Plot No .: 1376 0 5-<10 10-<15 15 - < 20 • ф 20 - <25 Page: 2 25 - <30 30 - <35 **Sugreland Metroparks** 35 - <40 5 8,09 >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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- 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.

* 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)

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detecti	on/ Rapid response		Pre	sence		GPS	
		NE	SE	SW	NW		Presence
Microstegium vimineum	Japanese stiltgrass						X: yes
Ranunculus ficaria	Lesser Celandine		\top			F	
Cynanchum louiseae (vir	e) Black Swallow-wort		1				
Butomus umbellatus (wetla	nd) Flowering Rush		1				
Heracleum mantegazzianum	Giant Hogweed		1				
Tier 2: Asses		le les	# of	Plants		comments	
		NE	SE	SW	NW		# of Plant
Acer platanoides	Norway Maple						1: 1-10
Ailanthus altissima	Tree of Heaven		1				2; 11-50.
Lonicera japonica (vin	e) Japanese Honeysuckle	1					3: 51-100
	d) Purple Loosestrife	1	\top				4: 101-1,0
	r) Bishop's Goutweed	1	\top				5: >1,00
Celastrus orbiculatus (vin		1					
Torilis sp.	Hedgeparsley		1	\top			
Conjum maculatum	Poison Hemlock	\top	T	\top			
Rhamnus cathartica	Common Buckthorn (shrub)	1		 		_
Berberis thunbergii	Japanese Barberry (shrub	_					
Alnus glutinosa	European Alder	1	1				
Dipsacus laciniatus	Cut-leaf Teasel		\top				
Elaeagnus umbellata	Autumn Olive (shrub	1	1		 		_
Lonicera maackii	Amur Honeysuckle (shrub		+		 		_
Euonymus fortunei	Wintercreeper	+	+				_
Tier 3: Presence			# of	Plants		comments	
		NE	SE	sw	NW		# of Plant
Convallaria majalis (G-cove	r) Lily of the Valley						1: 1-10
	er) Crown Vetch		 				2: 11-50.
Eleutherococcus pentaphyllus	Five-leaf Aralia (shrub	1	\top			- -,	3: 51-100
	er) Japanese Pachysandra	Ή_	\top	\top	 		4: 101-1,0
Philadelphus coronarius	Mock Orange (shrub	3	\top				5: >1,00
Pulmonaria officinalis (G-cov		4					
Rubus phoenicolasius	Wineberry	1					
Iris pseudacorus (wetlar		1					
Ornithogalum umbellatum	Star of Bethlehem						
Viburnum opulus var. opulus	European Cranberry (shrub		1				
Viburnum plicatum	Doublefile Viburnum (shrub		\top				
Tier 4: Widespre			Pre	sence		comments	
		NE	SE	SW	NW		# of Plant
Alliaria petiolata	Garlic Mustard						1: 1-10
Ligustrum vulgare	Common Privet (shrub)						2: 11-50.
L. morrowii, L. tatarica	Bush Honeysuckles (shrub						3: 51-100
Phalaris arundinacea	Reed Canarygrass		1		1		4: 101-1,0
Phragmites australis (wetland			1	1			5: >1,00
Polygonum cuspidatum	Japanese Knotweed 1	1		\top			
Frangula alnus	Glossy Buckthorn (shrub)				 		\dashv
Rosa multiflora	Multiflora Rose (shrub)		\top	\top	 		\dashv
Typha angustifolia, T. x.glauca	Cattails (wetland)		\top	\top			7
Cirsium arvense	Canada thistle	\top	+		1		\dashv
Dipsacus fullonum	Common Teasel	+-	+		 		
Hesperis matronalis	Dame's Rocket	+	+		 -		
Vinca minor (G-cove		+	+	+	 		\dashv
vinca minor (G-cove	/ Tuerranisme			1			

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

	10	9	00	7	6	თ	4	ω	2	1	mod #			CLE
					THE SWID IT	none	noteil	Fras oranlisdia	North C	Favous oran	species		Project Label:	CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Shee
Ŧ								17		dirolit	voucher#			t Community
											shrub clumps	#	PCAP	/ Assessmer
								00			<u>7</u>	size class (cm) woody stems > 1m	Projec	it Program
					10.7			60			2 1-<2.5	m) woody	ct Name:	Forest
										• •	3 2.5-<5	stems >1	22	Pest an
		,-									4 5-<10	в	Project Name: OZNIC ZOS	d Patho
								i		,	5 6 10 - <15 15 - <20			gens D
											6 15 - <20		Piot No.:	ata Shee
											7 20 - <25		Plot No.: 13.74	=
				à e						-	в 25 - <30			
											9 30 - <35		Page:	
											10 35 - <40		 -	Clevela
				PU.S.							7 8 9 10 11 20 - <25 25 - <30 30 - <35 35 - <40 >40 (record each tree)		of	Cieveland Metroperks
11120										gr	-		1	

Strata	# of stem infected	Severity (H,M, or L)
Tree (size class 3 or above)	1	i
Shrub (size class 2 or below including shrub	工	エ

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

Walnut (Thousand Canker)	Hemlock (HWA)	A Pagench (Fungus)	* Write None Present if no evidence:
	Other Pest or Pathogen	Asian Longhorned Beetle	

Low = Only a few leaves or branches are exhibiting symptoms	Medium = Less than 50% of leafineedle cover exhibiting symptoms	High = more than 50% of leaf/needle cover exhibiting symptoms	Severity
exhibiting symptoms	over exhibiting symptoms	er exhibiting symptoms	

4,...

CLEVELAND METROP	Project Label: PCAP	Pro	Assessm ject Name:	CLEVELAND METROPARKS Plant Community Assessment Program - Plant Course and Earth Surface Project Label: PCAP Project Name: Project Label: PCAP	
STANDING BIOMASS (required for emergent wetlands) collected in 0 Im clip plots (\$2x32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C7=check when collected	quired for emergent) from corners 1 and 3 E score calculation. C	welland in each ?=check	s) collected intensive when	CLASSIFICATION	
Module #	C7	Corner Corner	Corner	IFIT - excellent, g Fit and Confidence	

Plot No.:

@ Gleveland Weeks purks Page: 1 of 1

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

to COASTAL (specify subclass) th SLOPE (ground water hydrology or on a physical slept o RIVERINE o Headwater o Mainstern o Channel DIMPOUNDMENT O Beaver o Human DEPRESSION Hvdroecomerphic class (WETLANDS ONLY): a FOREST a swamp forest a bog forest a forest seep a EMERGENT a marsh a wet meadow a open bog BOG (strongly, moderately, weekly ambrotrophic) Ohio EPA VIBI Plant Community Class (WETLANDS ONLY): o FRINGING O Reservoir o Natural Lake 1 哥哥 Fig-# | F Fig. Conf* Conf Conf* Conf= Comfa. Conf Confr Conf

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only a SHRUB a shrub swamp to tall sh. bog to tall sh. fen F Confi

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

180 degrees

+225 degrees

WS 1

angle from
recorders eye to
eye of person
standing ~10 m

ARME.

+133 degrees

SE

+45 degrees +90 degrees

H

LFI is angle of plot to the horizon. TSI is angles formed by local slopes. For TSI measure

At aspec

+270 degrees

315 degrees

Z.

swis for microhabital feetures. Select one or select two and average the score.NOTE: If mod falls on a slope automatically gets ranked based on steepness (1-3) to begin + any feetures present

Slope 2 = falls on slope -20 *

Slope 3 = maximum sleepness that can be salely sampled ~45°

feature is absent or functionally absent from the wetland

lispe 1 = slight elevational grade across module (hill)

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

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

2	n	2	-	moda					
				corner					
0	a	6	0	(count)	lxim	depth 3		tussocks	no. of
C	0	C	0	(count)	3.16x3.16m	depth 2	uplands (Tip-Ups)	hummocks	no. of
0	C	-	9	(count)	10x10m	depth I		depressions	по, лидето,
3	8	E	5	(count)	10x10m	depth ((2-12 cm)	cwd
Ut	-		0	(count)	10x10m	depth I		(12-10cm)	n.w.d
0	0	a	b	(muso)	10x10m	depth 1		¥# cm	c.w.d
1	-	1	-	(rank)	10x 10m	depth 1		interspers.	microhab.
-	_			(rank)	16x10m	34018			microhab.

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

24	() **	7	u	Medule	
C	_		3	2	
D	7	G	_	s	
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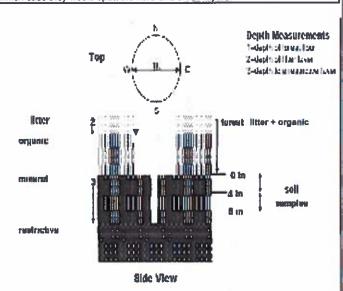
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STRATUM	GENERAL FORM
Tree (generally >5 m)	Tree (overstory), very tall shrubs*, liana, epiphyte)
Shrub (generally 0.5 to 5 m)	Tree (sapling), shrub, liana, epiphyte)
Herb (Field)	Herb, dwarf-shrub**, tree (seedling***)
Floating	Floating
Aquatic (submerged)	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.



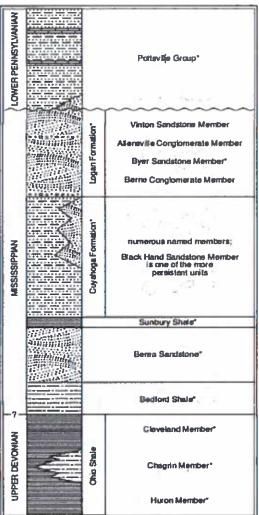


FIGURE 3-20.—Generalized section of Upper Devonian, Alisiasippian, and Lower Pennsylvanian formations in northeastern Ohio. Asteriaks indicate units that are feasiliferous. This composite section represents about 400 meters of rock exposed across the area. The sections not to calle, but the chicknesses indicated are propartional. The term "Wavest" is used in the older invariant to refer to Mississippian rocks in Ohio. Some geologies use the European norm "Carleomiferous," 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 sandarane that is fairly undespread but discontinuous. See Hyde (1953), Hoover (1960), and Callins (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: 0200 COS Plot No.: 1376

(E) Cleveland Richoparks

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

Soil pit module #____ (one per entire plot)

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

EARTH SURFACE & GROUND COVER

percent

Ground Cover

Coarse Woody Debris***

2,3,8,9 composited eb Soll Survey Informs

2 cm

matrix color

ottle color

Soil Series Source: Ohio Soil Survey Soil Series/Type:

Depth to rest, Layer, andform type:

Water

Bare Soil

57

22

3 Gravel

rent Material.

ALVAGE*

20 cm

matrix color

edox features**

dr. cond.***

S MD Storn prix

p Well drained Excessively dr. n Moderately well dr □ Somewhat excessively

**** <5 cm in diameter

Other

Impermeable surface

Somewhat poorty dr.

Soil Collection Modul Herizon (A. B. C) Histosol *** >5 cm in diameter Bedrock Boulder** Gravel-Cobble* Mineral Soil *Boulder *> 10 in Sum - 100% Gravel-Cobble = 1/16-10* nderlying Earth Surface*

10070 Fine Woody Debris****

Duff (Ferm + Humus) Bryophyte- Lichen

estimate using midpoints of 5,ex:3, 6, 13 COVER BY STRATA

×

(Floating)*	Herb (0.0.5)	Shoub 0.5- 5	5.00	Strata Height Range (m) Total	
	18%	07870	887.	Total Cover (%)	

STAND SIZE

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

a 1-3 x plot size

3-10 x plot size

2) Castingspicer 0.1 cm in center of intensive modules. If >30.5 cm, record as >30 SOIL DEPTH MEASUREMENT: Measure to the neare organic depth litter 2 litter water depth 9 dcpth sat soil (cm)

** e.g. hydrogen sulfide odor, gleying, etc. e refer to texture classes on reverse side

hydro. cond ***

S

Z

Ь

edax features**

~

z

and roots

z

monte ottle color

otes: include evidence of earthworms (worms, ndundated S-saturated M-moist D-dry

1) (Joshinos

3) costings present, no worms 6aCM PCAP Soils_Crown cover_Landform_Standing Biomass_Data Sheet_ver 3.xls last revised 6/4/2012 ceh

4) both castings 3 warns placed

Natural Resources Mangement FORM NR/2010-06a

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

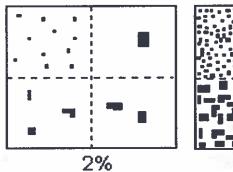
Page: 1 of 1 Hiking sanctioned Littorieg unsanctioned 3 All Purpose TRAIL INFORMATION: cord type and cover for each

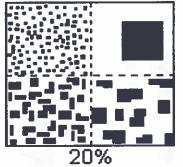
%Cover



PERCENT MOTTLES (USE CLASS CODES):

Class	C	ode	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

Position

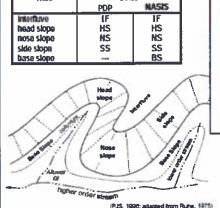
Summit

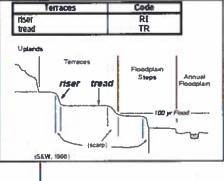
shoulder

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;

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

Hebs





Hillslope - Profile Position (Hillslope Position in POP) - 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.

Code

SU

SH

fuotslope fuotslope toeslope	FS TS		
Sul Sh Bs	Fs Ts Ts Ts Ts Ts 1 \$1 \$1 \$1 \$1	Sh Hs Fs	Su ↓

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.

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Fill in bubbles for all that apply: Ca Strata Section: Fill in appropriate	nopy	Type:	D = 0	Deciduou e for eac	is, E = Evergre	Buffer en Leaf T or each plo	ype: B	= Bro	adlea	f; N =	Needl	le Leaf.	Absent: No tre oderate(10-40)	e canopy %); 3 = Hea	avy (40	0-75%); 4 = \	/ery H	eavy ((>75%)
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Road - two lane	0	0	0		Dike/Dam/		Bed		0	0	0		Range				0	0	0	
Road - four lane	0	0	0		Water Levi	el Contro	Stru	cture	0	0	0		Row Crops				0	0	0	
Parking Lot/Pavement	0	0	0		Excavation	, Dredgin	g	10	0	0	0		Fallow Field	D	No.10	NG	0	0	0	9
Golf Course	0	0	0		Fill/Spoil B	epicolis, in			0	0	0		Fallow Field SHRUBS, TRE		ASS,		0	0	0	
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Gas Wells	0	0	0		Forest Sele	ctive Cut			0	0	0		Mowing/Shr	ub Cuttine	3	· dr	0	0	0	
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Water hyacinth	0	0	0		Knotweed	0	0	0		Kudzu	0	0	0	
Yellow Floating Heart	0	0	0		Japanese Knotweed	0	0	0		Multiflora Rose	0	0	o	
Giant Salvinia	0	0	O		Perennial Pepperweed	0	0	0		Common Buckthorn	0	0	0	
Garlic Mustard	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry	0	0	0	
Poison Hemlock	0	0	0		Cheatgrass	0	0	0		Tamarisk	0	0	0	
Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	0		Other:	0	0	0	
Birdsfoot Trefoil	0	0	0		Common Reed	0	0	0		Other:	0	0	0	
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Road - four lane	0	0	0		Water Level Cont	rol Str	ructur	0	0	0		Row Crops Fallow Field (RECENT-RESTING			C	0	0	
Parking Lot/Pavement	0	0	0		Excavation, Dred	ging		0	0	0		ROW CROP FIEL	D)	200 m 200	G C	0	0	
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Gas Wells	0	0	0		Forest Selective C	ut		0	0	0		Mowing/Shr	ub Cutting		C	0	0	
Mine (surface)	0	0	0		Tree Plantation	III.		0	0	0		Trails			C	1	0	
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