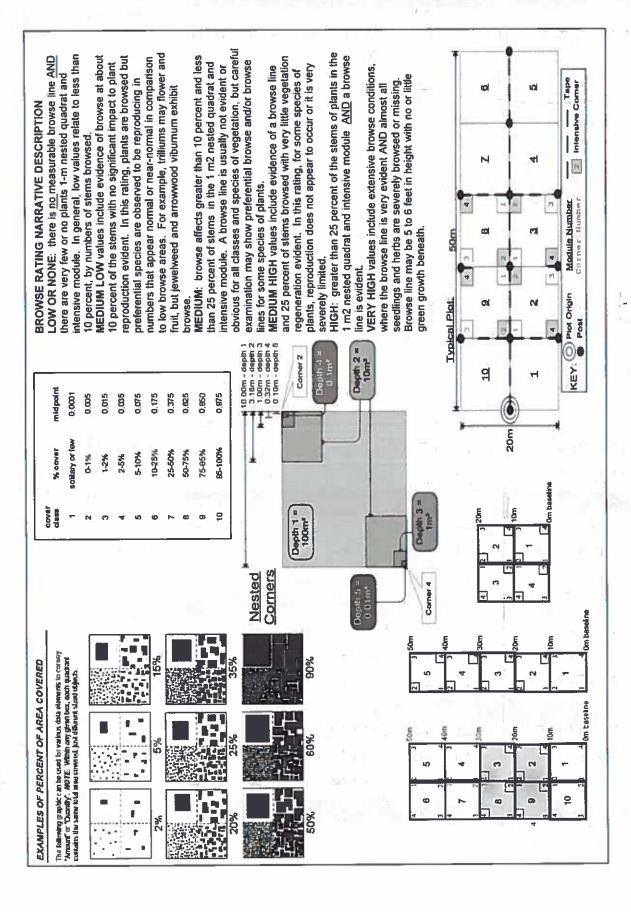
Project Label:	РСАР	_ Plot N	e: Quality Control Form
			Comment required if item answer is NO
Parking/Access outsi	de of Park Boundaries:	YN	If yes, write details in Comments section below
Field journals compl	eted	(Y) N	<u> </u>
Site sketch made on	1:3000 map?	Y N	
Check cover page	X-axis Bearing of plot recorded	Y N	
	GPS coords. Recorded	W N	
	North direction recorded	(Y) N	
	Photographs taken?	Y N	
	Relocated Pins Mapped	YN	
Plot No., Date agreer	nent on all pages?	(Y) N	
Header data complete	ed all pages?	(Ŷ) N	
Cover classes recorde	ed in all Intensive modules	Ø N	1 - 1
Browse Level By Spe	scies	N (S)	
Woody stem quality	control check	(Y) N	Check every line and cross check with the Tree Cover Sheet
Invasive plant quality	control check	YN	NA
Ash trees mapped		(Y) N	
Completed Forest Pe	st/Pathogen Datasheet	N Q	2 (26)(C)
Cover by Strata? (cor	nfirm cover type)	Ø N	
Soil samples collecte	d with matching plot #.	YN	NA .
Cross check 2010 inf	onnation	(Y) N	Highlight any changes from 2010 information
Vouchers labeled on	datasheet with initials and number	N W	
Vouchers labeled on	collection bag	(Y) N	
Pink flags removed		(V) N	6-
Data sheet QA before	e leaving site?	Y N	
Common equipment	returned to tub.	YN	
Data sheets scanned?			Enter date to left
Final data sheets scar			Enter date to left
Buffer Widths measu	red?	Y N	- MILLS
Web Soil Survey	on-come	Y N	
Voucher Location	Refrigerator	Y N	
# vouchers collected)	Press (#)		Enter number to left
CKM 242		Y N	
	Identified	Y N	
	Mounted	Y N	
253	Thrown away	YN	i

TS point verifi	cation: Is plot sampleable?
□ Yes	Original GRTS point is sampleable
□ No	Original GRTS point lands in a non-sampleable area (fill in category below)
W	Point falls in a water (i.e. river, lake)
	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

Reduced plot size to just intensives, 2×2

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	nmunity Assessment Prog	ıram - Backgr	ound Data	Sheet				(A Cleanium Muingants
Project Label:	PCAP	Project Na	me: 025	Project Name: 025C2015		Plot No.:	Plot No.: 1016	Page 2 of 2
MODIFIED NATURESERVE CLASS*			DISTU	DISTURBANCES				
CODE (on separate form):	Fit= Conf=		type*	severity**	yrs ago	% of plot	description	
\TC >			Human	7	0	Ñ.	Mowed path through	old hous
			Natural	I	5	2	KINET PROSIDE CAT	at away plot
COMMUNITY NAME:	M.		<u>=</u>					
Old Field Old (>10 years)) (chi		Animal	1	Q	100	Deer Browse	16
	at a		Other		*			
HOMOGENEITY			**L=low	, ML=med low	. M=med.	MH≖med	**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high	very high
□ Homogeneous □ Compositional t	Compositional trend across the plot		Current	Current Land Use:	MP		·	
Conspicuous inclusions a tregular/pattern mosaic	ı mosaic		Former	Former Land Use:				į
	HYDROLOGIC REGIME*	TE*						
	D Upland (seldom flooded)	nt o	a Intermittently flooded	ooded				
SALINITY*	o Intermittently/seasonally saturated		n Semipermanently flooded	ly flooded				
D Saltwater	(seldom flooded)	ď o	Permanently flooded	oded				
a Brackish	□ Permanently/Semipermanent. salurated		a Tidal/Seiche flooded daily	oded daily				
D Fresh	(dry <1/yr, seldom flooded)	To	idal/Seiche flo	☐ Tidal/Seiche flooded monthly		4		
Vpland (n/a)	□ Occasionally flooded (<1/yr)	To	idal/Seiche flo	Tidal/Seiche flooded irregular				
	Temporarily flooded		(e.g. wind, storms)	ms)				
(by default unless plot is a wetland)		N o	a Unknown					
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)	ess of plot to the stand, succession	al status, maturity	; etc.)		,			
Pot is a low quality meadow with many lawn weeds because a mowed	wality meadow	with w	lany 1	282	reeds	bec	sause a	Mowed
Dath goes through F	+. The plot u	vas redu	reed	5 the	4 .	inten	sires. A	About
1 30-40 % of the ple	of has ended	The Hi	1 1/16	r. One	75	I SIVE	mod can	not be
reached. More erosian	M Will occur, Be	cause of	reduce	Size	NOW K	Speci	les not (aund the m
previous sampling. Overall - Sackson Arld is an interesting area, I do not believe	Brall & Sackson	Pald 13	an in	RRESTA	, are	H : H	do Not	believe
His portion of the	ayea Was bur	ned for	SOME	Hm C	3 •			

Project Label: Total modules:	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Project Label: PCAP Project name: 025c 2015 Total modules: H Plot configuration	ment Program Speci Project name: Intensive modules:	0256 2015	Plot no.	1016 2x2	Page Plot area (ha):	Page of of	
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 €		Estimate for each		7	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7	7 /	Z
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Cleveland	describe amount of browse per species over entire plot	Walley redook	2 0	+			90	
	AND THE RESERVE TO SERVE THE PARTY OF THE PA	%unveg. ground (bare soil)	-	1 2	1 7		6	
δ̈́		%unveg. litter (bare litter)	1 3	1 2	1 12		N	1
S H (F)(A) Br	Br Species	c Voucher#	depth cov depth	cov depth cov depth	cov depth chv	depth cov depth	cov depth cov dept	ığ
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F	حة	XXXXXXX	4 2			7	4.2	
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7	ALLIARIA PETIOLATA		42					
7	Polygonum virginianum		422					
7	Solidano canadensis		9 h	284	1 4:		4:4	
(A)	مارة جرام		나 나					
2	Equistom apvense ckm	X CKM242	3			3 2	Z \$	
W	Verbesing after militalia		3333		12	2	29	
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2	LORA		22					
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7	Carex at yourstize ckn	X CKMZ46	22	12 H				
4		082-172 h2	2	+	1			11
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4.	di dan ted	X CXM248	2314	2	2	4	3	
2	CIRSIUM ARVENSIS		223	7 3	H Z	3	7	
7 June	Desynodium alabellum	CKM 250	222					
2	MITCROSTIEGIUM VIMILIEUM		N 	1 2!				
7	Convolvatos Calustraia sepium	XCKM253	7 7 4	1 2	4 2	3	7	
7	Jacks which the state	7	7 7	ч 7	1 2			



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Department of the property of		Ň	TARAXACUM OFFECTIVALE				77	
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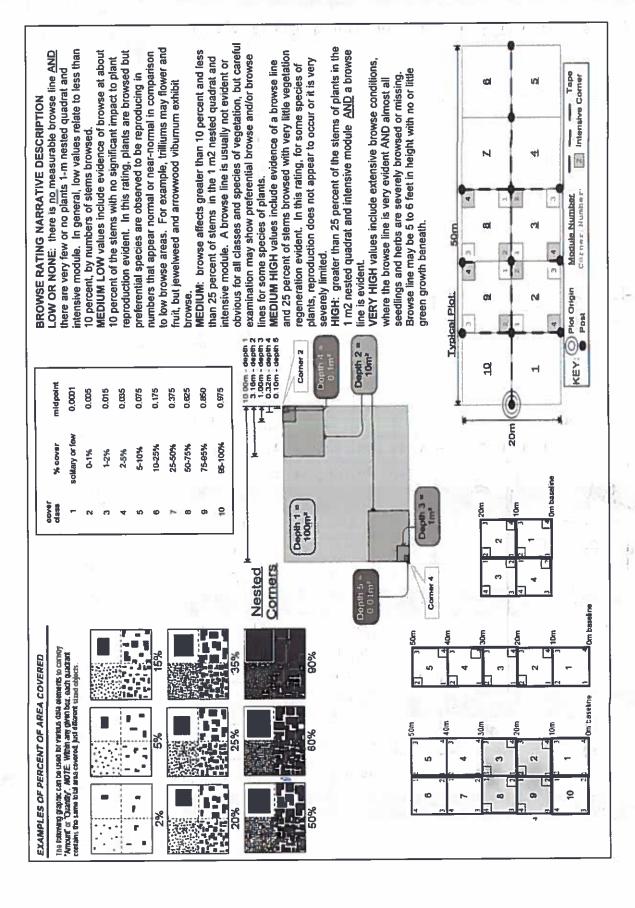
CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

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

51-8-1338

Natural Resource Management FORM NR/2010-02a



Plot no: 1016 Plot no: 1016 Plot area (ha): ad comer med comer	CLEVELAND ME	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet	ent Program Specie	s Cover Data Sheet		Page	0 10 U
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Natural Resource Management FORM NR/2010-02a

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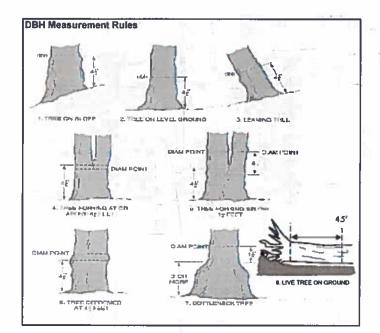
CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet

PCAP

Project Label:

07/28/2015

mod # CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Rosa mo CELASTRUS ORBIGULAND Parthenacissus quinquetos Platanus accidentalis Explain subsample (additional room on back): Fraxinus consuluanica Parthunocissus aving Vitis cipania No Browse No Browse lexicodundran codicans Rasa multitlara Project Label: PCAP voucher# 0-1.4m نلو or super % sub Project Name: 02.SC 2015 clumps shrub # size class (cm) woody stems >1.4m . . b 2 • 1-<2.5 2.5-<5 Plot No .: 1016 5-<10 10 - <15 15 - <20 20 - <25 Page: 25 - <30 30 - <35 W Dieveland Metroparks 35 - <40 6 >40 (record each tree) Ξ



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

¢

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.

																									Module
25	24	23	22	21	28	15	8	17	5	5	4	13	12	=	6	0	œ	7	0	C)	4	w	N	-	. ē
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			ľ	Map all ash trees≥10cm in each module using Tree ID numb				[22		1 0 0 m			5	•]-			*** Change intensive module numbers when necessary		e	()		
				odule using Tree ID num				[4	,					C	pa .			nbers when necessary							

Map all ash trees ≥10cm in each module using Tree ID number

Tier 1: Early detec	tion/ Rapid response			Pre	sence		GPS	
			NE	SE	SW	NW		Presence
Microstegium vimineum	Japanese stiltgrass					= =		X: yes
Ranunculus ficaria	Lesser Celandine							
Cynanchum louiseae (\	ine) Black Swallow-wort							
<u> </u>	and) Flowering Rush							
Heracleum mantegazzianum	Giant Hogweed							
Tier 2: Ass	ess as Needed		8 =	# of	Plants		comments	
			NE	SE	SW	NW		# of Plants
Acer platanoides	Norway Maple							1: 1-10
Ailanthus altissima	Tree of Heaven							2: 11-50.
onicera japonica (v	ne) Japanese Honeysuckle							3: 51-100
ythrum salicaria (wetla	nd) Purple Loosestrife							4: 101-1,00
Aegopodium podagraria (G-co	ver) Bishop's Goutweed							5: >1,000
	ne) Asian Bittersweet							
Forilis sp.	Hedgeparsley							
Conium maculatum	Poison Hemlock					(i)		
Rhamnus cathartica	Common Buckthorn (shrub)						
Berberis thunbergii	Japanese Barberry (shrub)						
Alnus glutinosa	European Alder							
Dipsacus laciniatus	Cut-leaf Teasel							
laeagnus umbellata	Autumn Olive (s	shrub)						\neg
onicera maackii	Amur Honeysuckle (s	shrub)						
Euonymus fortunei	Wintercreeper					ē1		
	ce is of interest			# of	Plants		comments	
			NE	SE	SW	NW		# of Plants
Convallaria majalis (G-co	ver) Lily of the Valley							1: 1-10
Coronilla varia (G-co	ver) Crown Vetch					1		2: 11-50.
Eleutherococcus pentaphyllus	Five-leaf Aralia (shrub)		<u> </u>				3: 51-100
Pachysandra terminalis (G-co	ver) Japanese Pachysandra							4: 101-1,00
Philadelphus coronarius	Mock Orange (shrub)						5: >1,000
Pulmonaria officinalis (G-co	ver) Lungwort		<u> </u>					_
Rubus phoenicolasius	Wineberry							
ris pseudacorus (wetl	and) Yellow Flag Iris							
Ornithogalum umbellatum	Star of Bethlehem							
Viburnum opulus var. opulus		shrub)						_
Viburnum plicatum		shrub)	_					
Tier 4: Widespi	ead and abundant	ļ,			sence		comments	
Contraction 21		1 1	NE	SE	SW	NW		# of Plants
Alliaria petiolata	Garlic Mustard		<u> </u>	₩	 	- -		1: 1-10
Ligustrum vulgare		shrub)	<u> </u>	\vdash	 		war	2: 11-50.
morrowii, L. tatarica		shrub)	<u> </u>		_			3: 51-100
Phalaris arundinacea	Reed Canarygrass			 	1			4: 101-1,00
			<u> </u>	 	-	\vdash		5: >1,000
	lananaa Kaatuusad		<u> </u>	₩	1			
	Japanese Knotweed			4	4	. 1		
Polygonum cuspidatum Frangula alnus	Glossy Buckthorn (s	hrub)	<u> </u>		-			_
Polygonum cuspidatum Frangula alnus Rosa multiflora	Glossy Buckthorn (s Multiflora Rose (s	hrub) hrub)						\exists
Polygonum cuspidatum Frangula alnus Rosa multiflora	Glossy Buckthorn (s Multiflora Rose (s Cattails (wetland)							
Polygonum cuspidatum Frangula alnus Rosa multiflora Typha angustifolia, T. x.glauca	Glossy Buckthorn (s Multiflora Rose (s Cattails (wetland) Canada thistle							
Polygonum cuspidatum Frangula alnus Rosa multiflora Typha angustifolia, T. x.glauca Cirsium arvense Dipsacus fullonum	Glossy Buckthorn (s Multiflora Rose (s Cattails (wetland) Canada thistle Common Teasel							
Polygonum cuspidatum Frangula alnus Rosa multiflora Typha angustifolia, T. x.glauca Cirsium arvense	Glossy Buckthorn (s Multiflora Rose (s Cattails (wetland) Canada thistle							

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

(G-cover) Periwinkle

Vinca minor

											_				
37.5	CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Sheet Project Label: PCAP Project Name: 0250205 Plot No.//	t Communit	nity Assessmen PCAP	t Program Projec	ogram Forest Pest and Pathoger Project Name: 02SC2O15	Pest and 0250	d Patho	gens D	Plot No.: 10	1101		Page	Claud	Cleveland Metroparks of	
			#	size class (cm) woody stems >1m	m) woody	stems > 1n									
nod #	species	voucher#	shrub clumps	<u>7</u> -	2 1-<2.5	2.5-45	5-<10	5 10 - <15	6 15 - <20	7 20 - <25	8 25 - <30	9 30 - <35	10 35 - <40	>40 (record each tree)	
2															
3						,								-	
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Çī															
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	* IF EVIDENCE OF PEST OR PATHOGEN RECORD TOTAL SPECIES POPULATION IN THE PLOT EVEN TH	ATHOGEN F	RECORD TOT	AL SPEC	IES POP	ULATIO	N IN TH	E PLO1	EVEN .		E NOT INFECTED	CTED			
	Strata	or stem	Severity (H,M, or L)		* Write None Present if no evidence:	lone Pre	esent if	no evide	ence:						
	Tree (size class 3 or above)						Beech (Fungus)	Fungus)		SAGA	PRES	Asian L	onghom	NONE PRESENT Longhomed Beetle	
	Shrub (size class 2 or below including shrub clumps)						Hemlock (HWA)	(HWA)				Other P	Other Pest or Pathogen	athogen	
							Walnut ((Thousa	Walnut (Thousand Canker)	er)					

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

Severity

PHOL NO.: 1016

(Classical Statement Page: 1 of 1

STANDING BIOMASS (required for emergent wettands) collected in 0. Im clip plots (32x32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C7=check when ollected odule # 3

	1	1	CHELLE OF THE WAR STATE OF THE PARTY OF THE
	Conf*	7	a EMERGENT a marsh a wet meadow a open bog
	Conf"	Fit:	a FOREST a swamp forest a boy forest a forest seep
		A.Y.IND	Ohio EPA VIBLETANI Community Class (WETLANDS ONLY):
	Confr	Fit=	a BOG (strongly, moderately, weekly ombrotrophic)
	Conf=	Fitze	n COASTAL (specify subclass)
	Conf.	File	o FRINGING o Reservoir o Natural Lake
	Conf	Fic.	O SLOPE (ground water by drology or on a physical slop)
	Conf*	- 	DRIVERINE II Headwater II Mainstern III Channel
	Conf"	Fit=	o IMPOUNDMENT to Beaver to Human
	Conf*	7	DEPRESSION
_			Hydrocomerable class (WETLANDS ONLY):
			(FIT = excellent g Fit and Confidence
			CLASSIFICATION
_			

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

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

- feature is absent or functionally absent from the wettand
- feature is present in the wetland in very small amounts or if more common, of low quality
- feeture is present in moderate amounts, but not of highest quality, or in small amounts of highest quality

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

9	∞	ر ا	ىد	mod#						
		F.	100	согист						
d	6	O	0	(count)	mlx!	depth 3		lussocks	no. of	
0	0	0	C	(count)	3,16x3.16m	depth 2	uplands (Tip-Ups)	hummocks	no. of	
3	O	0	0	(tounk)	10x l0m	depth t		depressions	no macro,	
22	93	110		(count)	10x10m	depth 1		(2-12 cm)	c.w.d	
0	0	9	0	(count)	10x10m	depth I		(12-40cm)	c.w.d	
0	0	0	0	(ozunt)	10x10m	depth 1		Ye ca	CWd	
	-	_		(rank)	10x10m	depth 1		interspers.	microhab.	
2	2			(mile)	10x10m	ZAOTIS			microhab.	

FHOTE: baseock and humanocks are counted in BOTH nested quadrat corners but counts are aggregated.

SaCM PCAP Plant Cover_Earth Surface Data sheet Page 1_ver 3.ris last revised 5/29/2012 ceh

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

entformfindex (position within landscape) email Shape Index (site microtopographic shape)

+315 degrees

Z.

₹

+225 degrees +270 degrees

WS

eye of person standing -10 m (Real

+135 degrees

S

angles formed by local slopes. For TSI measure angle from recorders eye to

+45 degrees +90 degree

> Z. z

LFI is engle of plot to the horizon. TSI is

At aspect

-131

+ 1 50) degrees

_		a principle and some of the second			L
	Module	z	s	M	¥
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	3	96	alb	96	1/2
	Q4I	96	96	96	96
	6	9	96	0020	90

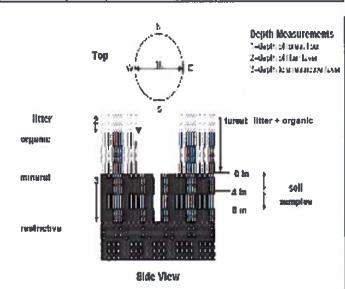
COVER BY STRATA

00161(01011171111	
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.



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7			All and a second
LOWER PENNSYLVANIAN			
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			Vinton Sandstone Member
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	[-1.4 1.4. T.]	Logan Formation*	
		9	Berne Conglomerate Member
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		Cuyahoga Formation*	5:2
		3	THE ROTE OF LICENSES
I 3		E	numerous named members;
WESSISSIPPIAN		LC.	(Tarabata - A (Danish - A) - A - A - A
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1			Bedford Shale*
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	فالمسترجعين حسة		
I _	-		Cleveland Member*
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UPPER DEVONIAN	三	Ohio S	Chagtin Member*

FIGURE 3-20.—Generalized section of Upper Devisian, Missianppian, and Lower Pennsylvanian formations in northeastern Ohio Asteriaks indicate units that are feasilifetous. This composite section represents about 400 meters of rock exposed across the area. The sections not to each, but the thicknesses indicated are proportional. The term "Waverly is used in the older literature to refer to Missianppian rocks in Ohio. Some geologists use the European resm "Carbontierous," which encompasses the Missianppian 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 missiave sandstone that is fairly widespread but discontinuous. See Hyde (1953), Hoover (1960), and Collins (1979) for more information on Missianppian rocks in Ohio. See figure 3-18 for explanation of rock types.

(E) Cleveland Metroparics

Page: 1 of 1

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

Soit pit module # ____ (one per entire piol)

20 cm 6 cm matrix color matrix color redox features** hydro. cond *** rydr. cond.*** exime. oxid roots edox features** nottle color xid roots monile monde ottle color I S M D ~ SMD z

refer to texture classes on reverse side

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

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

MODZ. DO CHOSTING COSTING

mod3: No worms casting or middens bosened

Costing or middensoperval

MD9: No worms

COSTING OF FOID OWNS OBSETVED

BUCH PCAP Soils_Crown cover_Landorm_Standing Biomass_Data Sheet_ver 3.4s last revised 6447012 ceh

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

a impermeable surface a Somewhat poorly dr. o Well drained □ Excessively dr. Depth to rest. Layer: Soil Collection Moduli Herizen (A. B. C) Soil Series Source: Ohio Soil Survey Soil Series/Type: 2,3,8,9 composited andform type: rent Material: d Sall Survey Inform MINAGE* Somewhat excessively a Moderately well dr. D Very poorly dr

C		co	2	modé	SOIL 0.1 c
	2	<u>~</u>	2.3		SOIL DEPTH 0.1 cm in cent record as >30
).	3	2.0	l litter+ organic depth (cm)	TH MEASU enter of ini 30
	10	8,3	3.0	2 litter depth (cm)	REMENT: lensive mod
	0	Q	0	water depth	SOIL DEPTH MEASUREMENT: Measure to the nise 0.1 cm in center of intensive modules. If >30.5 cm, record as >30
	0	0	0	depth sat soil (cm)	the nearest 0.5 cm,

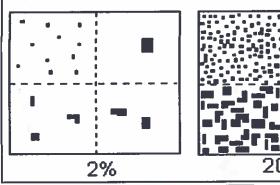
EARTH SURFACE & GROUND COVER	CE & GROU	ND COVER	
Underlying Earth Surface	h Surface*	Ground Cover	
(Men - 100%)	percent	(Eash < 100%)	percent
Histosol	1	Coarse Woody Debris***	3.9
Mineral Soil	7,000l	Fine Woody Debris****	2
Gravel-Cobble*			35
Boulder**	1	Duff (Ferm.+ Humus)	0
Bedrock	1	Bryophyte- Lichen	Ф
• Gravel-Cobble = 1/16-10*	1/16-10"	Water	20E
**Boulder = > 10 in	5	Bare Soil	102
*** >5 cm in diameter	neter	Road/Trail	15%
**** <5 cm in diameter	meter	Other	

COVER BY STRATA estimate using midpoi	COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13	ex:3, 6, 13
Strate	Height Range (m)	Total Cover (%)
Tree	5 -	38138
Shrub	3.5	3%
Herb	. 3	73%
(Floating)*		1
(Aquatic)*		
" rooted and it	 noted and floating or slightly emeraed submersed, most plant mass below st 	w surface
SEE BACK OF	" submersed, most plant mass below surface SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS STRATA CAN MARY BY COMES TYPE	w surface

n Decr	o Gravel	Bootleg unsanctioned	Hiking sanctioned	a Bytdle	a All Purpose	Туре	ecord type and cover for each	TRAIL INFORMATION:
			15%		-	%Cover	or each	2:



Class		ode	Criteria: % of
	Conv.	NASIS	Surface Area Covered
Few	f	#	< 2
Common	l c	#	2 to < 20
Мапу	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.

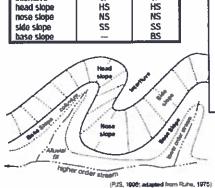
- 0= Organic
- 1= Loamy
- 2= Clayey
- 3= Sandy
- 4= Coarse Sand
- 9= Not measured make plot note

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

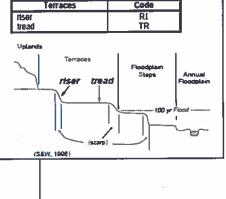
e.g., (for Hills) nose slope or NS.

interfutve



PDP

IF



Hitslope - Profile Position (Hitslope 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.