CLEVELAND MET	FROPARKS Plant Community Assess	sment Program: Quality Control Form		eland Metroparks
Project Label:	PCAP	Plot No: 336ZDate Sampled:	1/2/15	Lead: CKM

		all a later	Comment required if item answer is NO
Parking/Access outs	ide of Park Boundaries:	Y (N)	If yes, write details in Comments section below
Field journals comp	eted	(Ý) N	
Site sketch made on	1:3000 map?	(Y) N	Altered Charles de Literaturales — periodo — p
Check cover page	X-axis Bearing of plot recorded	(Y) N	
	GPS coords. Recorded	(Y) N	1
	North direction recorded	(Y) N	
	Photographs taken?	(Y) N	
	Relocated Pins Mapped	Y N	
Plot No., Date agree	ment on all pages?	Y N	
Header data complet		N (Y)	
Cover classes record	ed in all Intensive modules	Y N	
Browse Level By Sp	ecies	(V) N	
Woody stem quality		Ø N	Check every line and cross check with the Tree Cover Sheet
Invasive plant qualit	y control check	Y N	NA
Ash trees mapped		(Y) N	
	st/Pathogen Datasheet	N	
Cover by Strata? (co	nfirm cover type)	(Y) N	
	ed with matching plot #.	Y N	NA
Cross check 2010 in	formation	© N	Highlight any changes from 2010 information
Vouchers labeled on	datasheet with initials and number	(Y) N	1
Vouchers labeled on	collection bag	(P) N	
Pink flags removed		Ø N	A 2000 000 000 000 00000
Data sheet QA befor	e leaving site?	(R) N	
Common equipment	returned to tub.	YN	
Data sheets scanned			Enter date to left
Final data sheets sea	nned?		Enter date to left
Buffer Widths meas	ured?	Y N	
Web Soil Survey		Y N	
Voucher Location	Refrigerator	Y N	- X
(# vouchers collected)	Press (#)		Enter number to left
C VMM HEC.	- Drier	Y N	
CKM465. 476	Identified	Y N	
476	Mounted	Y N	
	Thrown away	Y N	

□ Yes	Original GRTS point is sampleable
□ No	Original GRTS point lands in a non-sampleable area (fill in category below)
	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)
	D Other

8/17/15

pins except origin (which was out of the ground) 20 m and 10 m right side, Very large (non-bald face) hornes

nesto

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	mmunity Assessment I	Program - Backgroui	nd Data S	Sheet			Charlend Williams	
Project Label:	PCAP	Project Name: 02 BR 20 1 S	02 BR	2015		Piot No.:	3362 Page 2 of 2	
MODIFIED NATURESERVE CLASS*			DISTUI	DISTURBANCES				
CODE (on separate form):	Fir Conf=		type*	severity** yrs ago % of plot	yrs ago	% of plot	description	
			Human				•	
2	8		Natural	ML	0	ဘ	Evosion of litter and some	1108 0
COMMUNITY NAME;			Fire					
-			Cut					
Mixed Forest	í	5	Animal	MH	٥	100	Deer Browse	
			Other		4			
HOMOGENEITY			**L=low,	ML=med low	v, M=med,	MH=med h	**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high	1
☐ Homogeneous ☐ Compositional	Compositional trend across the plot		Current 1	Current Land Use:	CMA			
Conspicuous inclusions	m mosaic		Former Land Use:	and Use:				
2	HYDROLOGIC REGIME*	GIME*						
	Opland (seldom flooded)		a Intermittently flooded	papo				
SALINITY*	□ Intermittently/seasonally saturated		□ Semipermanently flooded	/ flooded				
c Saltwater	(seldom flooded)	o Perm	Dermanently flooded	ded				

Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)

☐ Tidal/Seiche flooded monthly ☐ Tidal/Seiche flooded irregular

(e.g. wind, storms)

□ Tidal/Seiche flooded daily

□ Permanently/Semipermanent, saturated

(dry <1/yr, seldom flooded)

• Occasionally flooded (<1/yr)

Dy Upland (n/a)

o Brackish o Fresh - Temporarily flooded

sunlight and are more diverse and thick than the backs uneds which are alwest bare in places except for old an Carlie Mustard staks and Allum three-ecum. Stillagrass is being introduced from south side creek area. There was a hornets nest in Mod 9 that prevented us from doing detailed sampling there. Plot not homogenous and bartie Mustard cover is under represented because most of it is dormant. There is a nice population of Chinkapin Oak near back of plot The stand is somewhat un-evenaged. The front mods are recieving a lot of and one is fairly large.

tom-center

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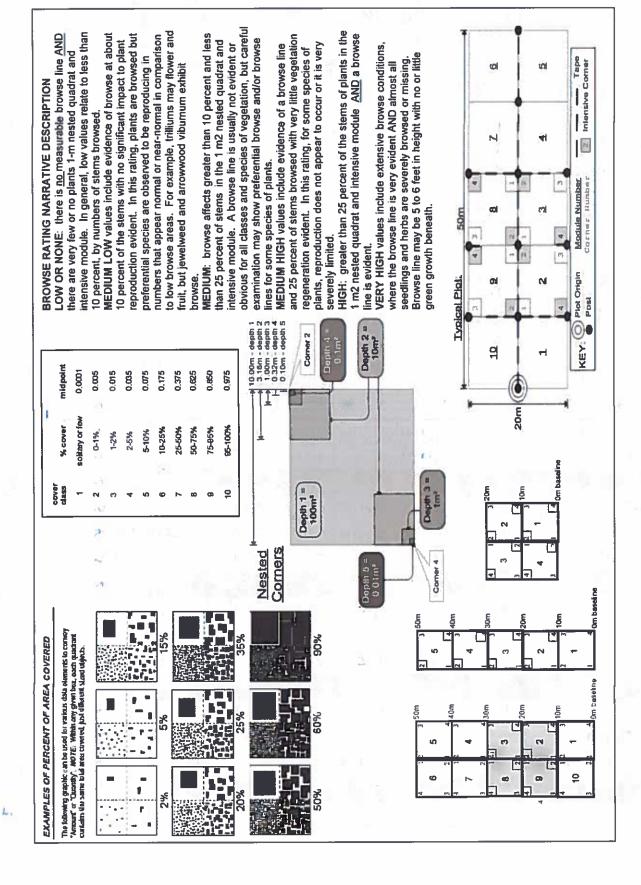
Bara - |

The Barrie

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet
Project Label: PCAP Project name: 02822015 Project name: 0282205 Plot no.: 3362 Intensive modules: 17.5.4 Plot configuration: 2×5 Plot area (ha): O-/ Page 1 of 3

Total modules:

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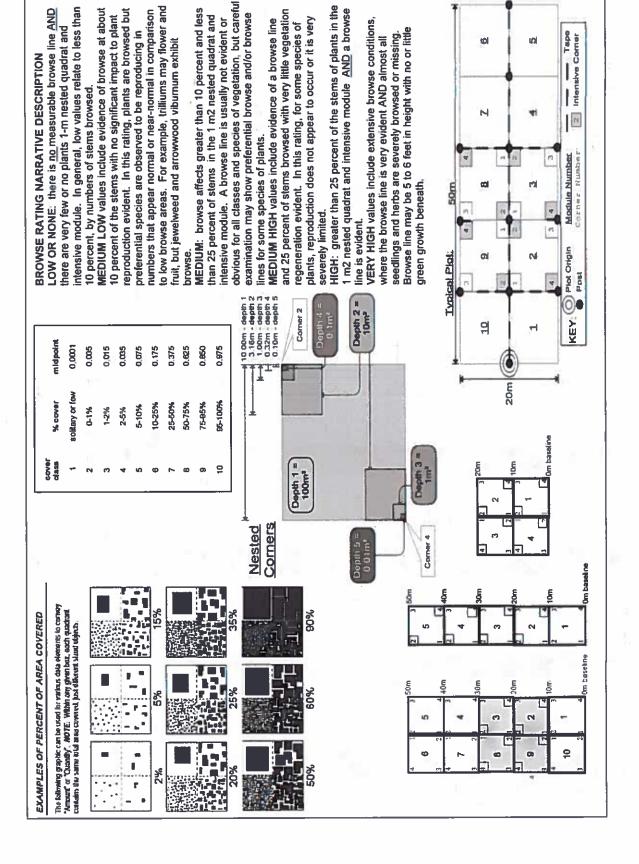
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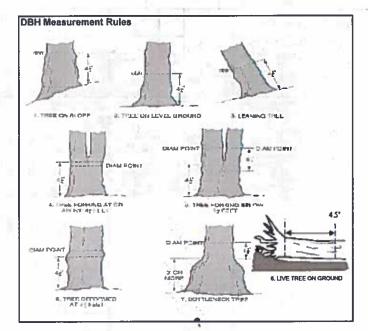


CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet % COVER Strata - Cov. entire plot Project Label: 噿 Ulmus rubka Quercus muchlenbergu Carya cordiformis Ostrya virginiana Jesculas glabia Arer succharum Aces nigrum Vitis riparia Liniodendron tulipitera Trynus scrating omexicano Species species (X) 7 3 Project name: 028220/5 Voucher# Plot no.: 3362 M Page / of

Project Label: % COVER Strata - Cov. entire plot T Br	PCAP		Project name:	= .			Plot no.:
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	:	1	4 862	BERIS THUNBE	2511			Ì			3								



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

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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.



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C

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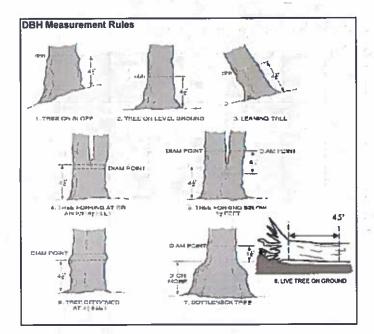
E

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.

Explain subsample (additional room on back):													
	**			size class (size class (cm) woody ster	stems >1.4m		$-\parallel$,		;
mod # species c vo	voucher# bro	browsed sample	per snrub	<u>8</u> -	1-2.5	2.5~5	5-<10 10-	10 - <15 15 - <20	·20 20 - < 25	25 - <30	30 - <35	35 - <40	>40 (record each tree)
1						•							
year print 5 Standing dead													
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to to be set of Rosa Mith Hora		-											
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ws cretarys + 6 Standing dead													
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- 6 BEEBERIS THUNBERGII	7		•										
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one from and 6 time 7 Ostrya virajnizana											Me		
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9 Tibra americana												7.0	-2 h 844/54
2					_					A F		3 -0	85.2
tree!		00											



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















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C

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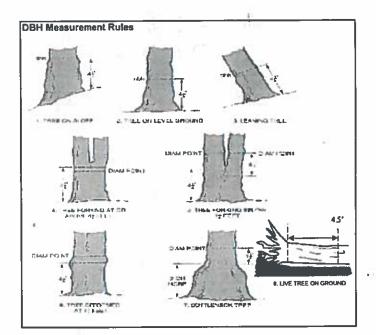
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70 mod # CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 10 Fragins Densylvance 10 Rosa Mulliflora 0 Carpinis Carolinamia Project Label: PCAP voucher# # sterns browsed sample clumps 0-1.4m or super % sub Project Name: 02 8/220/5 shrub size class (cm) woody stems >1.4m 2 1-<2.5 2.5-<5 Plot No.: 7 3362 5-<10 10-<15 15 - <20 20 - <25 Page: W 25 - < 30 30 - <35 © Cleveland Metroparks 35 - <40 5 >40 (record such 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













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4eCM PCAP Ash_Tree Data Sheet Page 1_ver 2.xls last revised \$29/2012 ceh

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

CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet Project Label: PCAP Project Name: 02822015 INTENSIVE MODULES ONLY TREES > 10CM ONLY PIOT NO.: 3362 Date: 9/2/15 Page: 1 of 2

																1									Module
2	24	23	22	21	22	5	65	17	6	다	4	ಚ	13	=	6	60	œ	7	o	CH	-	ω	N	-	ē §
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_			-	Map	1						В	asoli	ne			r Till		1					iji S	ila	

Bases

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10 Annual Processor

10 Annual Process

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detection	/ Rapid response			Pre	sence	(4 <u>-3</u>)	GPS	
		- Barol	NE	SE	SW	NW		Presence
Microstegium vimineum	Japanese stiltgrass							X: yes
Ranunculus ficaria	Lesser Celandine			Τ.]
Cynanchum louiseae (vine)	Black Swallow-wort							1
Butomus umbellatus (wetland) Flowering Rush			1				1
Heracleum mantegazzianum	Giant Hogweed						N. S. L.	1
Tier 2: Assess a		- 1		# of	Plants	120	comments	
			NE	SE	sw	NW		# of Plants
Acer platanoides	Norway Maple							1: 1-10
Ailanthus altissima	Tree of Heaven	1.1				\Box		2: 11-50.
Lonicera japonica (vine)			\vdash					3: 51-100
Lythrum salicaria (wetland)			一	1				4: 101-1,00
<u> </u>	Bishop's Goutweed		\vdash	1-	\vdash			5: >1,000
Celastrus orbiculatus (vine)			\vdash	+				13: + 2,000
Torilis sp.	Hedgeparsley			+	 		-	
Conium maculatum	Poison Hemlock			+	+	\vdash		1
Rhamnus cathartica	Common Buckthorn	(shrub)		+	+	\vdash		┪
	Japanese Barberry			+	+	+-+		┪
Berberis thunbergii		(shrub)	1	+	+	┝─┤		1
Alnus glutinosa	European Alder Cut-leaf Teasel		\vdash	+	+	\vdash		1
Dipsacus laciniatus		4 - 1 1 - 3		+		\vdash		┨
Elaeagnus umbeliata	Autumn Olive	(shrub)		+	\vdash	\vdash		-{
Lonicera maackii	Amur Honeysuckle	(shrub)		┼	-	\vdash		4
Euonymus fortunei	Wintercreeper		-	200				-
Tier 3: Presence i	s of Interest				Plants		comments	w dat
C	1216 xb - 24-11		NE	SE	SW	NW	\$50000	# of Plants 1: 1-10
	Lily of the Valley Crown Vetch		-	+	+-			2: 11-50.
		/-LL3		-			·	3: 51-100
Eleutherococcus pentaphyllus	Five-leaf Aralia	(shrub)	-	+		-		4: 101-1,00
•	Japanese Pachysandra			+	-	-		5: >1,000
Philadelphus coronarius	Mock Orange	(shrub)	1	+-	+	-	**	3: >1,000
. ,	Lungwort		\vdash	+-	-	\vdash		-
Rubus phoenicolasius	Wineberry		┈	+	+			-
Iris pseudacorus (wetland)			├─	+	+			_
Ornithogalum umbellatum	Star of Bethlehem		├—	-	+			-
Viburnum opulus var. opulus	European Cranberry	(shrub)	₩	-	-			-
Viburnum plicatum	Doublefile Viburnum	(shrub)						
Tier 4: Widespread	and abundant		245		sence	l anar	comments	H -C March
	To u as a d		NE	SE	SW	NW		# of Plants
Alliaria petiolata	Garlic Mustard	4.1	├	+		-	<u> </u>	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		₩	_				4: 101-1,00
Phragmites australis (wetland)	Phragmites		\vdash	1	-			5: >1,000
Polygonum cuspidatum	Japanese Knotweed		_	1	↓	\Box		4
	Glossy Buckthorn	(shrub)	<u> </u>	\bot	\bot			4
Frangula alnus		(alamah)						_
		(shrub)	-	_				
Frangula alnus	Multiflora Rose Cattails (wetland)	(SIIIUD)						
Frangula alnus Rosa multiflora		(SHI'UD)						
Frangula alnus Rosa multiflora Typha angustifolia, T. x.glauca	Cattails (wetland)	(SIRUD)						
Frangula alnus Rosa multiflora Typha angustifolia, T. x.glauca Cirsium arvense	Cattails (wetland) Canada thistle	(SIII OD)						-

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

CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Sheet Project Label: PCAP Project Name: 2 2 8 2 9 5 Plot No.: 3	t Communit	nity Assessmen PCAP	t Program	ngram Forest Pest and Pathogo Project Name: \$2.58220/5	Pest an	R Zel	ogens D	ata She	3362	10	Page	Cloveta	Cloveland Metroparts
				11 II				85					!
		*	size class (cm) woody stems >1m	(cm) wood)	stems >1	_3	,						
mod # species	voucher#	shrub clumps	0 1 -	2 1-<2.5	3 2.5~5	4 5-<10	5 10 - <15	6 15 - <20	7 20 - <25	8 25 - <30	9 30 - <35	10 35 - <40	t1 >40 (record each tree)
1 None gresent								-		,	1		
2									ij			K	
3													
4													
<u>හ</u>													
6													
7	,												
8								district O					
9													
10													
	. 1.												
* IF EVIDENCE OF PEST OR PATHOGEN RECORD TOTAL SPECIES POPULATION IN THE PLOT EVEN	ATHOGEN I	RECORD TO	AL SPEC	XES PO	PULATIO	N IN T	IE PLO:	T EVEN	THE NOT INFECTED	TINFE	CTED		
Strata	# of stem Infected	Severity (H,M, or L)		• Write	* Write None Present if no evidence:	esent if	no evid	ence:					
Tree (size class 3 or above)			,			Beech (Beech (Fungus)		None	7-	Asian L	onghorne	Asian Longhorned Beetle
Shrub (size class 2 or below including shrub clumps)						Hemloc	Hemlock (HWA)	_			Other P	Other Pest or Pathogen	ıthogen
						Walnut	Walnut (Thousand Canker)	ınd Cani	ker)				
Severity			211										
High = more than 50% of leaf/needle cover exhibiting symptoms	needle cover	exhibiting syn	ptoms										
Medium = Less than 50% of leaf/needle cover exhibiting symptoms	af/needle cov	er exhibiting	ymptoms		•								
The Carlot of Carlot and Carlot	~ - ~ ~ ~ ~ ~ ~ P		1										

CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface

Project Label: PCAP Project Name: 02882015

Plot No.: 3362

(Constitution of Making States Page: 1 of 1

collected			
Module #	C7	Corner Corner	Comer
			1
100			

CLASSIFICATION		
Hydroggemerishic class (WETLANDS ONLY):		
DEPRESSION	Ŧ	Conf.
IMPOUNDMENT to Beaver to Human	File	Conf=_
o RIVERINE o Headwater o Mainstern o Charnel	F)	Conf-
II SLOPE (pround water by drology or on a physical slop)	Fil=	Conf=
n FRINGING to Reservoir to Natural Lake	1	Conf.=
a COASTAL (specify subclass)	Fire	Conf=
n BOG (strongly, moderately, weekly ombrotrophic)	Fit=	Confa
Ohio EFA YIBI Flant Community Class (WETJANDS ONLY):	CCTIN	
o FOREST o swamp forest o bog forest o forest seep o EMERGENT o marsh o wet meadow o open bog		Conf.
o SHRUB o shrub swamp o tall sh. bog o tall sh. for	F	Conf

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

lope 1 = slight elevational grade across module (hill) nis for mirrohabitat features. Select one or select two and everage the score.NOTE: If mod falls on a slope eutomatically gets ranked based on steepness (1-3) to begin + any feetures 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 wedland
- feature is present in the wetland in very small amounts 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

9	80	w	2	mod#						
				COCHEC						7
Q	0	0	0	(count)	lxim	depth 3	ì	tussocks	no of	
9	0	0	0	(count)	3.16x3.16m	depth 2	uplands (Tip-Ups)	hummocks	no. of	
0	0	0	0	(count)	10x10m	depth 1		depressions	no. macro.	
-	9	80	×	(count)	10x10m	depth I		(2-12 cm)	c.w.d	
Θ	0	-	O	(count)	10x10m	depth 1		(12-40cm)	c.w.d	
0	0		0	(count)	HOLION	depth I		>40 cm	C.W.d	
2	7	√ i	2	(rank)	16x10m	deprh 1		interspers.	microhab.	
q		1		(rank)	10x10m	SLOPE			microhab.	

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

WETLANDS ONLY):		
	2º	Conf.
eaver o Human		Conf=_
ter o Mainstern o Channel	FI	Conf-
drology or on a physical slept	Fi	Conf=
er ti Natural Lake	== 	Conf [±] _
bclass)		Conf*
itely, weekly ombrotrophic)	Fit=	Confi
THE PART OF THE PA		

+135 degrees + 18/1 degree

SE

WS

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

¥

Sens.

+45 degrees +90 degree

Ä

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

Al aspect

fermin Shape Index (ate microtopographic shape)

andform Index (position within landscape)

+315 degroes +270 degree +225 degrees

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

OII	3	2	Medule	
`	P	1	Z	
2	3	3	s	
2	15	4	E	
7	4	0	W	L
		3 15	720	7 2 3 4 C 2 2 5 E C 2 4 C C C C C C C C C C C C C C C C C

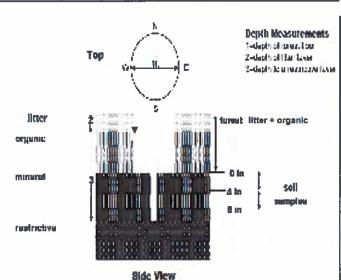
COVER BY STRATA

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.



LOWER PENNSYLVANIAN Pottsville Group* Vinton Sandstone Member Alleneville Congiomerate Member Byer Sandstone Member* Berne Conglomerate Member Augustia numerous named members; MISSISSIPPAN Black Hand Sandstone Member is one of the more Sunbury Shale* ani in ini Berea Sandstone* Bedlord Shale* Cleveland Member* DEVONIAN Chagrin Member* UPPGHU Huron Member*

FIGURE 3-D —Generalized section of Upper Devonian, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio Asteriaks indicate units that are fossiliterous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Waverly" is used in the older literature to refer to Mississippian rocks in Ohio. Some geologists use the European term "Carboniferous," 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 18 a spectacular massive sandstone that is fairly undergread bur discontinuous. See Hyde (1953), Hoover (1960), and Colins (1979) for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of rock types.

Page: 1 of 1

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)

20 cm e ca matrix color nydr cond.*** exture. oud roots Stoor bux cdox features** mottle motile atrix color ottle color ottle color SMD Soil Series Source Ohio Soil Survey Soil Series/Type: Soil Collection Modul Horizon (A. B. C) □ Well drained in Excessively dr. Depth to rest. Layer. Somewhat poorly dr. 3.8.9 composited andform type: srent Material

CAINAGE"

a Somewhat excessively Moderately well dr.

□ Very poorly dr

hydro. cond *** edox features** I S M D < o Impermeable surface

|-indundated S=saturated M=moist D=dry |Notea: Include evidence of earthworms (worms ** e.g. hydrogen sulfide odor, gleying, etc. record as >30

refer to texture classes on reverse side

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

Mod 2. Worms/Cstras/ PRYST

Mod 3: Worns/Costons/hudler 8
Preservy
A
Mod 8: Worns/Costons/hudlers

gresery

2

1.0

0.8

l litter+ organic depth (cm) 2 lilter 0:1 water depth 9 O 0 C 0

8.4 <u>ر</u> 0 0 depth sat soil (cm) C

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

All Purpose 귷

8

Hiking sanctioned Bridle

Bootleg unsanctioned

FRAIL INFORMATION:

scord type and cover for each

%Cover

o Decr 3 Gravel th Sall Survey Intern

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

(Aquatic)*	(Floating)*	Herb	Shrub	Tree	Strata
4	.1	0 - 0.5	0.5 - 5	57	Height Range (m)
1	1	53	æ	78	Total Cover (%)

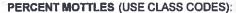
o >600 x plot size 100 x plot size a 1-3 x plot size □ 3-10 x plot size STAND SIZE 10-100 x plot size < plot size

Mad 9: Larus (US) And Judden!

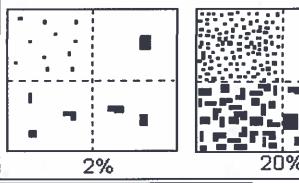
Back PCAP Soils_Califf Ender Martinam_Standing Biomass_Data Sheet_ver 3.4s last revised 6442012 och

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

submersed, most plant mass below surface



Class		Code	Criteria: % of	
_	Conv.	NASIS	Surface Area Covered	
Few	- 1	#	< 2	
Common	С	#	2 to < 20	
Many	m	#	≥ 20	



NASIS

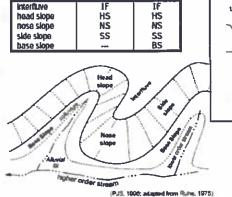
SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but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

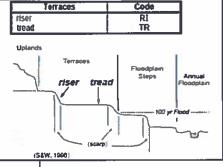
- 0= Organic
- 1= Loamy
- 2= Clayey
- 3= Sandy
- 4= Coarse Sand
- 9= Not measured make plot note

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

PDP

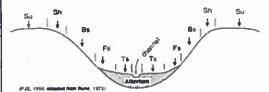
e.g., (for Hills) nose slope or NS.





Hilislope - Profile Position (Hilislope Position in PDP) - Twodimensional descriptors of parts of line segments (i.e., stope 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.