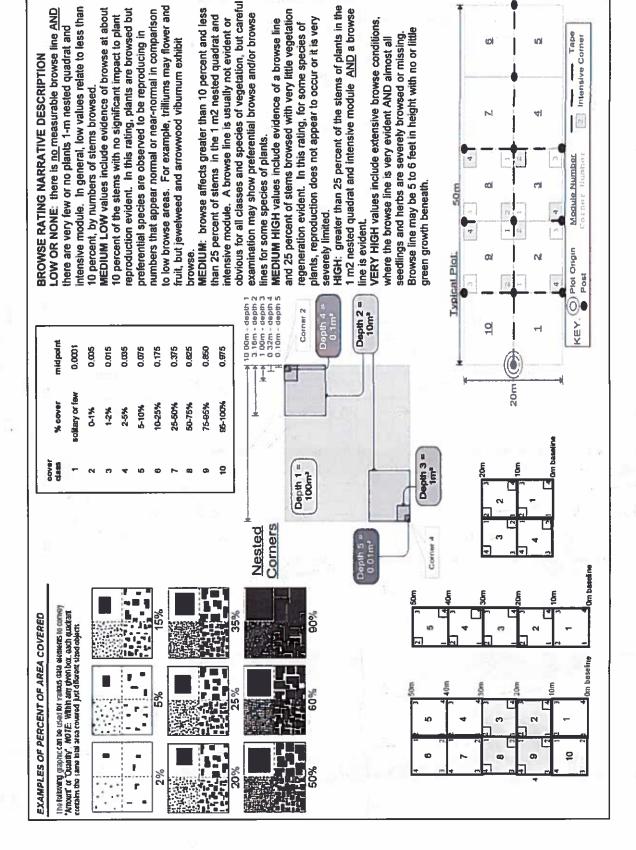
CLEVELAND ME' Project Label:	FROPARKS Plant Community Ass	essment Program	: Quality Control Form
rroject Laber:	PCAP	Plot No	
Daulina (Anassa austi	de of Bed. Damidados	T ,, (1)	Comment required if item answer is NO
	de of Park Boundaries:	(A)	If yes, write details in Comments section below
ield journals comple		N N	
Site sketch made on	A STATE OF THE STA	N	
Check cover page	X-axis Bearing of plot recorded	KY N	
	GPS coords. Recorded	N N	
	North direction recorded	N N	
	Photographs taken?	И	
1 . 1	Relocated Pins Mapped	N N	
lot No., Date agreen	7.127	N N	
leader data complete		N	
	ed in all Intensive modules	N N	
rowse Level By Spe		YN	
Voody stem quality o		YN	Check every line and cross check with the Tree Cover Sheet
wasive plant quality	control check	N	N/A
sh trees mapped		N Keek	
	t/Pathogen Datasheet	Y N	
over by Strata? (con	firm cover type)	YN	
oil samples collected	d with matching plot #.	YN	N/A
ross check 2010 info	ormation	Y N	Highlight any changes from 2010 information
ouchers labeled on	datasheet with initials and number	MCO N	
ouchers labeled on o	collection bag	N (Y)	
ink flags removed	200	N) Left to flags
ata sheet QA before	leaving site?	(PL)	
ommon equipment :	returned to tub.	N	
ata sheets scanned?		0	Enter date to left
inal data sheets scan	ned?		Enter date to left
uffer Widths measu	red?	YN	
eb Soil Survey	A 1967	Y N	- 32 - 3252 3262
oucher Location	Refrigerator	(Y) N	77
vouchers collected)	Press (#)	0	Enter number to left
	Drier '	YN	
ACL	Identified	YN	
205	Mounted	YN	
15 W	Thrown away	YN	
	I III O WII GREET	1 1	
DTS == = unification	tion: Is plot sampleable?	2200	
		_	
Yes	Original GRTS point is sampleable		
a No	Original GRTS point lands in a non-		fill in category below)
	Point falls in a water (i.e. river,		
vest	 Managed moved area (i.e. gelf Paved area (i.e. parkinglot, road) 	course, picnic area, rig	mr-or-way)
	☐ Unsafe to sample (i.e. steep slop	e)	
	□ Other		
dditional Commen	ts:		
		-	•

_EVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	nmunity Assessment Pro	gram - Backgr	ound Data	Sheet				<u>5</u>	(Clerelandsteingarts	12.2	
Project Label:	PCAP	Project Na	Project Name: 025C2d(S	SJOET		Plot No.:	Plot No.: /055	1	Page 2 of 2		
ODIFIED NATURESERVE CLASS*			DISTU	DISTURBANCES							
ODE (on separate form):	Fir Conf=		type	severity**	yrs ago	yrs ago % of plot	description				
			Human	X	0	1007	trush				
(°) /0-M			Natural	#	0	100%	EAR W	impact	· prac d	re-back	ck
DMMUNITY NAME:	88		Fire						11		<i>'</i>
/ 0/ / 10			Cut								
Planted (Pine)	N _{sa}		Anima	HW	0	100%.	branse	X			
OMOGENEITY			**L=low	Other **I = low. MI = med low. M=med. MH=med high. H=high. VH=very high	v. M=med	MH=med	ieh. H=hieh.	VH=verv hi	-		
	Compositional trend across the plot		Current	Current Land Use:	PARK	(Con	CORRIDOR			9	
nclusions	mosaic		Former		LINKNOWA	Ã)
	HYDROLOGIC REGIME*	ME*									
	edepland (seldom flooded)		□ Intermittently flooded	looded							
ALINITY*	o Intermittently/seasonally saturated		□ Semipermanently flooded	ly flooded							
Saltwater	(seldom flooded)	<u> </u>	a Permanently flooded	popo							
Brackish	n Permanently/Semipermanent. saturated		n Tidal/Seiche flooded daily	oded daily							
Fresh	(dry <1/yr, seldom flooded)		idal/Seiche flo	□ Tidal/Seiche flooded monthly				ě			
Opland (n/a)	Occasionally flooded (<1/yr)		dal/Seiche fic	□ Tidal/Seiche flooded irregular							
Characteristics of the following the state of the state o	a Temporarily flooded		(e.g. wind, storms)	rms)							
y detault uniess prot 15 g weitung)	processing the stand successing	one etatus maturity	etc.)								
quinona notes & diagranus. (Acpresentativeness of prof.to ure stand, successional status, matematy, every	as of piot to are statio, successit	ภาสา รเลเนร, ขเฉเพาหร				•					
Plot is comple	tely domine	sted 1	זען לע	1251VE	4	Maj	05 70	nece	of		
Buckthorn fruits to be dispersed by birds.	to be dispe	rked	و۔ در	rds.		•			2.9	,)
	9									3	
	:(3.									
	2	» []		ř.							
			74								

The Tables of the sales

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Total modules: Project Label: PCAP Project name: 035C201S Plot no.: 1 055 Intensive modules: 4 Plot configuration: 35 | x 4 Plot area (ha):

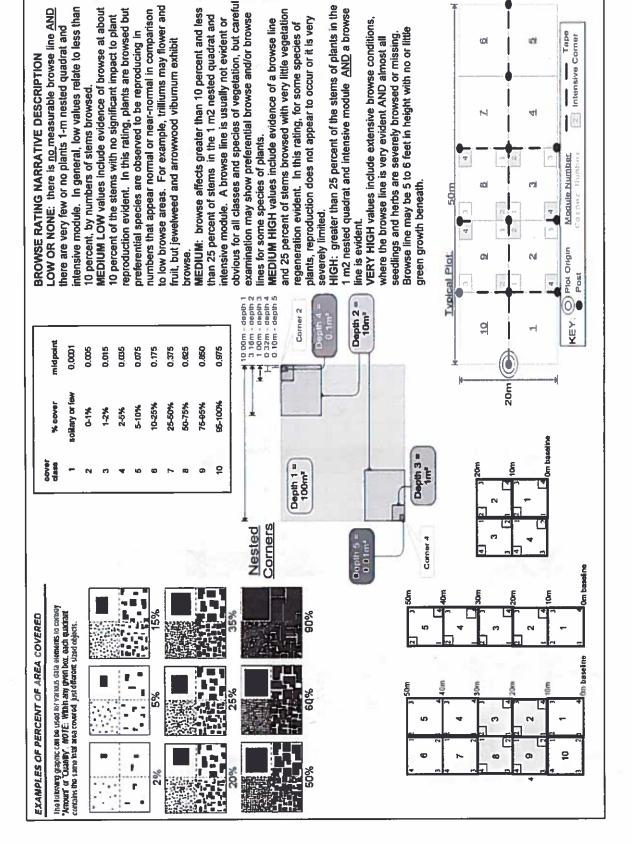
S S S	2	<u>د</u>	9.	20	2	9	39:	> %	78	30.	2)K	2	52	*	92	92	<i>s</i>	ر د د	9)	2	8 4	08	_	Strata - Cov. entire plot		Cieveland Metroparks		3	
61		14		-								7		6	I	56	000	6				6	6	H (F)(A) Br	ine plot	I				
Rosa multifluca	nsa.	-	Ulmus fo	agazelum afficinale	SATALOGONS Sp.	bathonia spicata	11055 501	polanum dulcamara	Byanica officinalis	arex sp.	Histor Sp.	Amelonchier sp.	onicero morrow ii	Frankly Market 1990			vidagre	Vibumum opulus var odul	THIS SO.	linus strobus		Κ.	6 Khampius trangula	Species			describe amount of browse per species over entire plot	Br = Browse Level. Use cover classes to		
	٠		T and	_					F					2050	1			wh						င	*	. Yeun	*	1	: II]
														duantes				3				100.4		Voucher#	%unveg. litter (bare litter)	%unveg. ground (bare soil)	Sunvagetated open water	intensive module:	Estimate for each	director for a second
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			_		0	 	├-	+-	╁	<u> </u>		-		+	-}	2	2	3)	g V	<u>د</u>	3	8	2	04 P	3		9	Ş Q	L	11
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		1					Popul		2				F	b	E	Committee Commit		u	2.5	S	4	H	4	v depth	_		_	depth	-	3
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التوبير	- F						0.00						F		and the last					Billion (C)	eriore.	-	diam'r.	w depth		+		depth.	þ	4



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 Inknown (Mio the por the Footcat sp Hunus Serotina Rubus pensulvanics ornus so YUNUS CECASUS describe amount of browse per species over probites hieracitalia Br = Browse Level. Use cover classes to onicera meac Species entire plot PCAP Intensive modules: %unveg. ground (bare soil) Estimate for each intensive module: %unvegetated open water %unveg. litter (bare litter) ACL375 Project name: QSC20/S Voucher# 7-15-%open water depth H Plot configuration: 2 cov i depth cov i depth AGO ğ depth cov depth cov i depth Plot no.: 1055 124 Q 8 depth depth oov depth T amer cov 6 depth Plot area (ha): . 04 ğ 8 depen Page 2 of 2 the the ນ cov i depth cov i depth QQ4 8 depth

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

Natural Resource Management FORM NR/2010-02a

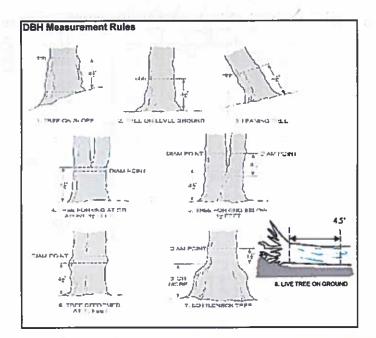


SRE_CM PCAP TREE Species Cover Data sheet.xls last revised 6/10/2015 jim

Project Label:	Project Label: PCAP Project name: 02542015 F	'	Project name:	51027520	40	N	Plot no.: 105
% COVER	nio		8	bom bom	mod	Dom.	72
T Br	Species	n	Voucher#		,		7
7	Acer rubium			×			
	~			X	X	×	
J	Fraxinus densulvanica			×		8	
4	√'			>		1	
5	Prunus seroting			×	<u></u>	×	
9	9			4			
5	Plunus Cernsus				-	H	
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Plot no.:	[~	2																			
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ent Program Tre Project name:	Prensence of tree	species (X)	Voucher #	,					1/4					4	e de San	* -					
essm			υ	· ·										2.7				-			
CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Project Label: PCAP Project name: PCAP			Species							i.	<i>(</i> 3	134				,					
ETR(plot	Ц		,		L							_							
:LEVELAND M Project Label:	ER I	Strata - Cov. entire plot	Ŗ							,											
CLEVE Projec	% COVER	Strata - C	⊢																		

See Ja JAHOCH CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Toxicodeneran padicom Pinus wife Liquestum vulgant Property Suprison Phrynnus Svangula Standing doc KUNUS Seletine Explain subsample (additional room on back) Tresinos princy n Standing dear Puny Scioting Fromins prinsylvanica Phymnus tranquis Forxinus pennsylvanice Frains pennsylvanica-Phymnus tionwis-Liaustrum Vulaxie Pinus Wilyan Parting ocissus ging ablica HONNS SETATIVE Floring pennylly and intocaus so. prices sautovin Project Label: # stems browsed 91.4m or super 25% 15% 252 sample 25% 18% % sub Project Name: 02502015 shrub # 数门 2 size class (cm) woody stems >1.4m 2 2 6 1-<2.5 U 2.5~5 Plot No.: 1055 5-<10 10 - <15 0 15 - <20 0 20 + <25 6 Page: n 25 - <30 30 - <35 (P) Gleveland Metroparks 35 - <40 6 >40 (record each tree) CA A BE Seporal o test Compine Simple



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 10













ASH CANOPY CONDITION

- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
- 2. Thinning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.
- Dieback: Canopy is thinning and some top branches exposed to sunlight are dead (have no leaves). Lower branches, not exposed to sunlight, die naturally and are not considered.
- 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

C

D

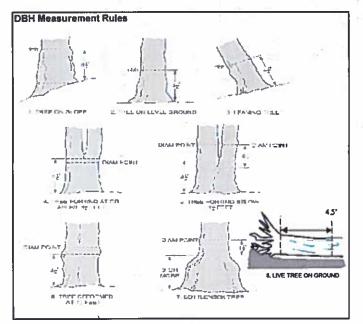
E

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.

50-25 Sunus -Wad hay CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 4 Specim ders Prumus cerasus Pinus night Caryo coldisalmis Pall Johns PINES MAYE Tuxicandian indicans Ruhus occidenta to Promos Statione Florinus gansylvania Consul mou owi Ehranus Francis traxinus prinsylvani Vibrain of phone Primus sinting Rosa mithfloor Toxicoleraign losicons froxinos prinsylvanias Explain subsample (additional room on back) Pinus strows Standing lead Loni cora modicki Rhomaus stangula Lonkel morowin Project Label: ç PCAP 四 DI # stems 0-1.4m browsed 25% 22% or super 1052 25% sample % sub Project Name: 12567015 ع shrub * size class (cm) woody stems >1.4m 130 2 <u>오</u> 7 e. 1-25 2.5~5 Plot No : 1155 5-410 10 - <15 un 15 - < 20 20 - <25 Page: 2 25 - <30 30 - <35 Cleveland Metropains 35 - <40 ö 4 となり アント >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













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В

C

D

E

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- 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)

Change intensive module numbers when necessary

CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet

Project Label: PCAP

Project Name: 025CO15

INTENSIVE MODULES ONLY

TREES > 10CM ONLY

								1		7			S. August	-									ے		Module
'n	24	23	22	21	28	19	18	17	18	15	14	13	12	==	10	9	co	7	6	Ch	4	ω	2	-	₽ ā
																				۰			Francisco dena	Frozing pennsulum	Species
																								0	Dead
_				-		<u> </u>		_				<u> </u>								L		L		٢	G
								-					V												Voucher #
		7		,																			11.3	DV9	(cm)
																									HBC HCC
																		j					2	Ч	Ash
																									Condition
															L.								0		holes pre
		E		h.																٠			0	0	Sent
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ap all ash trees ≥10cm in each modute using Tree ID number ф N CO <u>...</u>

3 山山

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey Cleveland Metroparks **GPS** Tier 1: Early detection/Rapid response Presence NW Presence NE SE SW X: yes Microstegium vimineum Japanese stiltgrass Ranunculus ficaria Lesser Celandine (vine) Black Swallow-wort Cynanchum louiseae Butomus umbellatus (wetland) Flowering Rush Heracleum mantegazzianum **Giant Hogweed** Tier 2: Assess as Needed # of Plants comments # of Plants NE SW NW 1-10 Acer platanoides Norway Maple 11-50. Ailanthus altissima Tree of Heaven (vine) Japanese Honeysuckle 51-100 Lonicera japonica 4: 101-1,000 (wetland) Purple Loosestrife Lythrum salicaria >1,000 Aegopodium podagraria (G-cover) Bishop's Goutweed (vine) Asian Bittersweet Celastrus orbiculatus Torilis sp. Hedgeparsley Conium maculatum Poison Hemlock Common Buckthorn (shrub) Rhamnus cathartica Berberis thunbergii Japanese Barberry (shrub) Alnus glutinosa European Alder Dipsacus laciniatus Cut-leaf Teasel **Autumn Olive** (shrub) Elaeagnus umbellata Amur Honeysuckle (shrub) Lonicera maackii Euonymus fortunei Wintercreeper Tier 3: Presence is of Interest # of Plants comments NE SW NW # of Plants SE Lily of the Valley 1-10 Convallaria majalis (G-cover) 2: 11-50. Coronilla varia (G-cover) Crown Vetch 3: 51-100 Eleutherococcus pentaphyllus Five-leaf Aralia (shrub) 4: 101-1,000 Pachysandra terminalis (G-cover) Japanese Pachysandra (shrub) 5: >1,000 Philadelphus coronarius **Mock Orange** Pulmonaria officinalis (G-cover) Lungwort Rubus phoenicolasius Wineberry Yellow Flag Iris (wetland) Iris pseudacorus Ornithogalum umbellatum Star of Bethlehem Viburnum opulus var. opulus **European Cranberry** (shrub) Doublefile Viburnum (shrub) Viburnum plicatum Tier 4: Widespread and abundant Presence comments SW NW # of Plants NE SE 1-10 Garlic Mustard Alliaria petiolata 2: 11-50. Common Privet (shrub) Ligustrum vulgare 3: 51-100 (shrub) L. morrowii, L. tatarica **Bush Honeysuckles** 4: 101-1,000 Phalaris arundinacea Reed Canarygrass Phragmites australis 5: >1,000 (wetland) **Phragmites** Japanese Knotweed Polygonum cuspidatum Glossy Buckthorn (shrub) Frangula alnus Rosa multiflora Multiflora Rose (shrub) (wetland) Typha angustifolia, T. x.glauca Cattails Canada thistle Cirsium arvense Dipsacus fullonum Common Teasel

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

(G-cover)

Dame's Rocket

Periwinkle

Hesperis matronalis

Vinca minor

0 0 4 ω ν -	mod #
None Present	Project Label: PCAP Project Name: 025C2075 Plot No.: (// ## size class (cm) woody stems >1m species voucher# clumps 0-<1 1-2.5 2.5-<5 5-<10 10 - <15 15 - <20 20
	voucher#
	PCAP # shrub
	Project Name: <u>0 2 5 C</u> size class (cm) woody stems >1m 1 2 3 0-<1 1-2.5 2.5-5
	Project Name: <u>0</u> 25C2075
	015C
and the second second	STATE OF
	Piot No.
	Plot No.:
	1055
	25- <30
	Page:
	10 10 10 10 10 10 10 10 10 10 10 10 10 1
	Page: 1 of Page: 1 of 11

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

Strata	# of stem Severity infected (H,M, or L)		* Write None Present if no evidence:	
Tree (size class 3 or above)			Beech (Fungus)	Asian Longhorned Beetle
Shrub (size class 2 or below including shrub				
clumps)			Hemlock (HWA)	Other Pest or Pathogen
		=	Walnut (Thousand Canker)	
Severity		N		
High = more than 50% of leaf/needle cover exhibiting symptoms	eedle cover exhibiting	symptoms		
Medium = Less than 50% of leaf/needle cover exhibiting symptoms	af/needle cover exhibiti	Smotoms or		

Low = Only a few leaves or branches are exhibiting symptoms

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

collected	module, Required	in 0.1m clip plots (STANDING BIO
	module. Required for VIBI-E score calculation. C?=check when	in 0.1m clip plots (32x32 cm) from corners 1 and 3 in each intensive	STANDING BIOMASS (required for emergent wedlands) collecte
	lculation, C?=chec	ners I and 3 in eac	r emergent weda
	k when	th unionsive	eds) collected

Module #	C7	Corner Corner	Comer
		+	
	200		

CLASSIFICATION			/
TT = carefoot, g Fit and Confidence			
Indressomerabis class (WETLANDS ONLY):			
DEPRESSION	₹ 	Conf	
IMPOUNDMENT to Beaver to Human	# 	Conf-	
RIVERINE of Headwater of Mainstern of Charact	Fits	Conf	
SLOPE (ground water hydrology or on a physical slope	7	Conf=	
FRINGING o Reservoir o Natural Lake	Fig.	Conf.	
(COASTAL (specify subclass)	# F	Conf"	_
BOG (strongly, moderately, weekly ombrotrophic)	File	Conf=	
Mid EPA VIBI Flant Convenients Class (WETLANDS ONLY):	*XTNO		
FOREST a swamp forest a bog forest a forest seep	7	Confi	
EMERGENT a manh a wet meadow a open bog	Fig	Conf*	
SHRUB a shrub swamp a tall sh. bog a tall sh. fen	Fit=	Conf=	

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

leps 1 = slight elevational grade across module (NII) was for microhabitat feetures. Select one or select two and average the scora.NOTE: If mod falls on a slope autom Slape 2 = tats on slope -20° ratically gets renked besed on steepness (1-3) to begin + any features present Slope 3 = maximum steepness that can be safely sampled ~45°

- feature is absent or functionally absent from the wetland
- feature to present in the wettand in very small amounts or if more common, of low quality
- testure 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

	_			٤	3	2		med# cerner						7
				0	a	a	0	(count)	ixim	depth 3		tussocks	no. of	
Company of the Party of the Par				C	0	O	Ü	(couri)	3,16:3 16m	depth 2	uplands (Tip-Ups)	hummocks	no. of	
				15	0	0	0	(count)	10x10m	depth I		depressions	по, тасто.	
				٤	6	D 10	口 8	(count)	10x10m	depth I		(2-12 cm)	cw.d	c.w.d count
	•		3.000 3.00	_	3	2	1: 5	(count)	10x 10m	depth I		(12-40cm)	cw.d	for pieces with
				0	0	0	O	(count)	10410m	depth 1		Ne di	CW d	c.w.d count for pieces with minimum 1m length
		,				^	1	(rank)	10210	depth 1		interspers.	microhab.	
								(rank)	i0x10m	SLOPE	1		microhab	

CROWN COVER (DENSIOMETER). Make 4 readings per module facing N. S. E. W. Place dot count i commanding space. (4 dets per grid square)

* Landform index (position within tandscape)
** Terrain Shape Index (sits microtopographic shape)

+270 degrees +315 degrees

Z. € WS

+ I Bit degrees +225 degrees

recorders eye to eye of person standing ~10 m

angle from

away

+135 degree

SE

+65 degrees +90 degree

줆

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

LFI is angle of

42	4	2 *	1	Medule
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0)	0	7	,	s
2	_	6	0	3
_	0	0	7	¥

SeCM PCAP Plant Cover_Earth Surface Data sheet Page 1_ver 3.xts last revised \$2292012 cah

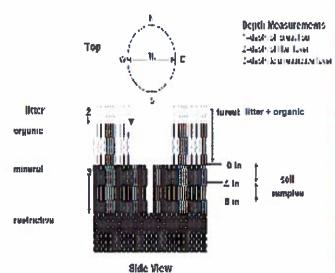
COL	/ED	PV	STR	ATA

OOTEN DI GIROTIA	
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.



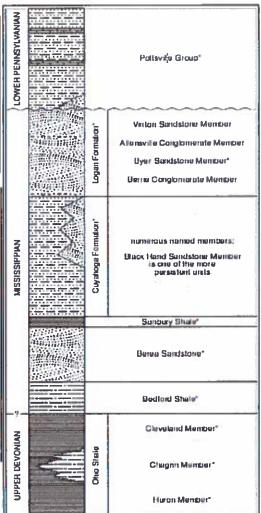


FIGURE 3-3. —Generalized section of Upper Devoman, Ministrypsian, and Lewer Permaylyanian firmations in northeastern Orio. Asterials: indicate units that are finalifatious. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the indicates excluding a proportional. The term "Wavety" is used in the older literature in refer to Missistypian rocks in Onion, Some geologists has the European term "Carboniferous," which ancongases the Missistypian and Pennsylvanian Percods of the U.S. Many limits have been named within the Cuyahoga Formanon, our most units are local, and canary be traced over great distances. The Black Hand Member is a spectarular massive sandatone that is fairly widespread but discontinuous. See Hyde (1933, Horver 1950), and Collins (1978) for more information on Mississippian rocks in Ohio. See figure 3-16 for explanation of rock types.

NONE INFORMATION:

cord type and cover for each

%Cover

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

Soll pit module #_ (one per entire plot)

Γ						20 cm	Γ			Tel So		/31 max	\$ CM
hydro, cond	redex features**	lexture*	oxid roots	%mortle	mottle color	matrix color	hydr. cond.***	redox features**	(exture*	axid roots	%mottle	mottle color	matrix color
- 5	~<		×				- s	4		4		ı	
N D	z		z				M	z		z		Т	
	a Impermeable surface	a Somewhat poorly dr. a Very poorly dr.	a Well drained a Moderately well dr.	a Excessively dr. a Somewhat excessively	DRAINAGE*	Parent Material:	Depth to rest Layer:	Landform type:	Soil Series Source: Ohio Soil Survey	Soil Series/Type:	Web Soil Servey Information:	2,3,8,9 composited A	Soil Collection Modul (Harizon (A. B. C)

* refer to texture classes on reverse side

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

*** Circle one:
I-indundated S-saturated M-moist D-day
Notes: include evidence of earthworms (worms,

3- no warms/lastings Saland Palls 2-100 wollms/ costing 1- no admis/lasting 4- 100 wd 1m6/1457114/

> Soil Series Source: Ohio Soil Survey SOIL SAMPLES Standard procedure: collect a soil sample of the top 10 cm of soil from cerater of each unterasive module and composite the sample Soil Collection Modul Horizon (A. B. C) Soil Series/Type: 2,3,8,9 composited Veb Sell Servey Information:

	emeable surface
	SC S

	-				
2	3	2		mod#	SOIL DEPTH 0.1 cm in cent record as >30
٧.٧	6.3	1,4	1.0	l litter+ organic depth	SOIL DEPTH MEASUREMENT: Measure to the nearest 0.1 cm in center of intensive modules. If >30.5 cm, record as >30
2.4	6.3	1.4	1.0	2 litter depth (cm)	JREMENT: I
0	0	0	0	water depth (cm)	Measure to lutes. If >3
0	6	0	0	depth sat	the nearest 0.5 cm,

EARTH SURFACE & GROUND COVER	CE & GROU	ND COVER	
Underlying Earth Surface*	h Surface*	Ground Cover	
(Start - 100%)	percent	(Each ≤ 100%)	percen
Histosol	1	Coarse Woody Debris***	12
Mineral Soil	100%	Fine Woody Debris****	88
Gravel-Cobble®	١	Litter	90
Boulder	١	Duff (Ferm.+ Humus)	1
Bedrock	1	Bryophyle- Lichen	190
* Gravel-Cobble = 1/16-10*	- 1/16-10°	Water	1
**Boulder => 10 in	in	Bare Soil	1 %
*** >5 cm in diameter	neter	Road/Trail	J
and of the state o		Other	١

Hiking sanctioned

Bridle All Purpose

Bootleg unsanctioned

Gravel

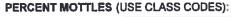
Strata	Height Range (m)	Total Cover (%)
Tree	5 - 1	83%
Shrub	5.5	829
Herb	60	789
(Floating)*		
Amusic	ř	

|--|

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

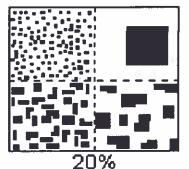
** submersed, most plant mass below surface

6eCM PCAP Soils_Crown cover_Landform_Standing Biomass_Data Sheet_ver 3.xls last revised 6/4/2012 ceh



Class	C	ode	Criteria: % of
	Conv.	NASIS	Surface Area Covered
Few		#	< 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.

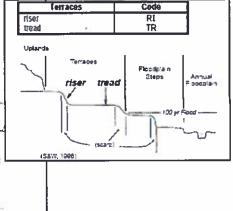
- 0= Organic
- 1= Loamy
- 2= Clayey
- 3= Sandy
- 4= Coarse Sand
- 9= Not measured make plot note

Position

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.

	PDP	NASIS	
interfluve head slope nose slope side slope	IF HS NS SS	IF HS NS SS	
base slope	33	SS BS	
	Head slope	A. S.	1
	Nose slope		1



Hillstope - Profile Position (Hillstope Position in PDP) - Twodimensional descriptors of parts of line segments (i.e., slope position) along a transect that runs up and down the slope; e.g., backstope or BS. This is best applied to transects or points, not areas.

Code

summit shoulder backslope footslope toeslope	SU SH BS FS TS	
SJ Sh Bs		Ba J



HYDROLOGIC REGIME Modified from Grossman et al 1998. (Frequency and duration of flooding.)

UPLAND: Not a wetland. Very rarely flooded.

the order mroom

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

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.