CLEVELAND METROPA	ARKS Plant Community Assessment		© Gieveland Metroparks	
Project Label:	PCAP	Plot No: 1204 Date Sampled:	8-24-12 Lead: loen, Cy	Eysenbuh

			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 compl	eted	YN	
Site sketch made on	1:3000 map?	Y N	
Check cover page	X-axis Bearing of plot recorded	Ŵ N	
5-98.5-97	GPS coords. Recorded	Y N	
	North direction recorded	Y N	0 355
	Photographs taken?	Y N	
Plot No., Date agreer	ment on all pages?	N N	
Header data complet	ed all pages?	N (S)	
Cover classes record	ed in all Intensive modules	Y N	Warners N
Browse Level By Sp	ecies	Y N	NA
Woody stem quality	control check	Y N	NA
Invasive plant quality	control check	Y N	NA
Ash trees mapped		Y N	NIA
Cover by Strata? (cor	nfirm cover type)	(Y) N	7
Soil samples collecte	d with matching plot #.	Y N	
Vouchers labeled on	datasheet with initials and number	N 🛇	
Vouchers labeled on	collection bag	(Y) N	
Pink flags removed		Y N	
Data sheet QA before	e leaving site?	Y N	
Common equipment	returned to tub.	Y N	
Data sheets scanned?			Enter date to left 8/3/1/2 Se_
Final data sheets scar	nned?		Enter date to left
Buffer Widths measu	red?	(Y) N	8-31-12 SC
Web Soil Survey		Y N	8-31-12 SC
Voucher Location	Refrigerator	Y N	107 (100)
(# vouchers collected)	Press (#)		Enter number to left
	Drier	Y N	
	Identified	Y N	
	Mounted	Y N	
	Thrown away	Y N	3.25

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

Additional Comments: + Lotus?
Plot falls in Marsh Dominated by Nophar. Emergent Contents surrounds Prictos testen in Each cardinal Pricetim. C3 0855-South C3-0854- vector C3-0857-Nocth; C3-0858-East

PCAP Data Quality Control 2011.xls last revised 6/20/2011 ceh

Natural Resources Mangement Form NR/2011

Roch trial to Native species Nuisvry than Cut South to march.
Potenhally PARR at drive Leading to Nursury. BAKKIN I F POSSIble - B. W rurve on RIVER ROad.

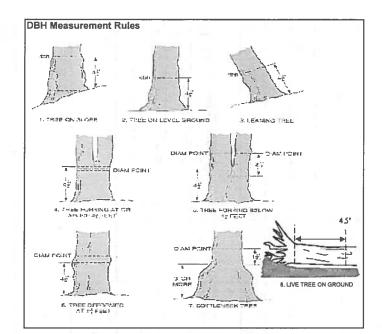
CLEVELAND METROPARKS Plant Co	CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	ata Sheet	
GENERAL INFORMATION	LOCATION		
Project Label: PCAP	State: OH County: Ciya 1000		
Project Name: SINCAPIL	Quadrangle: Mayfield H15		
Plot Name: I found a hole	vames: 0 inagers Marsh	3 4 3 4	
Plot No.: 1204	Landowner: (A)	#10 #9	
 Level 4 (no nested corners sampled) 	dentiality:	2 1, 2 -/	
■ Level 5 (nested corners sampled)	Check one: Appublic data Drivate Data	Q	
Date (mm/dd/yyyy): 8 84/2012	m 🗆 Fuzz 250m	#1 #2 #3	
1	Reason:	4 3 4	
Party Role**	If data not public why?	Key: (0,0) point point point with direction permanent posts	
J. Rainiar Plot leader	Source of coordinates MAP GPS NOT	NOTES: Include Layout (any unusual shape details), Location (directions and landscape	
S. Eusenbach Ass	Coordinate system: Coord. Units domi	dominants, strata, BROWSE). Additional notes in space on back.	
T Police Most	deg min	awoot: NVA	
	Datum: ■ NAD83/WGS84 □ NAD27		
** Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc.	GPS location in plot x=0 to 5, y=-1,0,+1): SKE 95-133		
PLOT NOT SAMPLED:		Tipo O ST Allenson Time South	
□ Perm. water □ Paved □ Slope □ Safety	Latitude: 41,55965 41,55966 40	Call of Tark of Noised wat a collect	PPICK
SAMPLING QUALITY*		180 m. walk along edge of wotlovel	tland
Effort Level: subjective evaluation of	Coord. Accuracy: 15 m of ft +- 15	to the obline upland in mildle of	of mars
how much effort put into	GPS File Name: 1204)		
ō	Plot size for cover data: O. 04 (hectares)	Rational . OKIO pt	
o Hurried data	X-axis Bearing of plot: [] [] °	-	
TAXONOMIC ACCURACY	Depth: (1-5): 4		
highy modera. low not smpl	Intensive modules, 2, 3, 8, 9, 7, 7, 5, 4 (EDIT IF MODIFIED)		
vascul. \ n/a	Camera No.: 2	La No caropa	
bryo	Photo Nos.: (2-2/23		
lichen	Plot placement: GRTS - Representative	West in the court New York	
TAXONOMIC STANDARD	ied Random 🏻 Transe	W per vo	
Authority: G&C Pub Date: 1998	☐ Systematic (grid) ☐ Capture specific feature ☐ Other	Very Day 1, sur - will be unplux without	
Minimum required fields in Bold and Underlined	*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide	Q	
		1001	

ss, maturity, etc.)	ness of plot to the stand, successional statu	Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)
a Unknown		(by default unless plot is a wetland)
(e.g. wind, storms)	□ Temporarily flooded	
□ Tidal/Seiche flooded irregular	□ Occasionally flooded (<1/yr)	□ Upland (n/a)
Tidal/Seiche flooded monthly	(dry <1/yr, seldom flooded)	Fresh
ted 🛮 Tidal/Seiche flooded daily	□ Permanently/Semipermanent. saturated	n Brackish
□ Permanently flooded	(seldom flooded)	□ Saltwater
Semipermanently flooded	ntermittently/seasonally saturated	SALINITY*
□ Intermittently flooded	□ Upland (seldom flooded)	
	HYDROLOGIC REGIME*	
Former Land Use: (In)	rn mosaic	☐ Conspicuous inclusions ☐ Irregular/pattern mosaic
Current Land Use: Park	Compositional trend across the plot	Homogeneous Compositional
**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high		HOMOGENEITY
Other		
Animal		
Cut	merarint	mich Imerator
Fire	-	COMMUNITY NAME:
Natural	-) (
Human no disturbance SE 8/3/12		202
type* severity** yrs ago % of plot description	Fit=Conf=	CODE (on separate form):
DISTURBANCES		MODIFIED NATURESERVE CLASS*
- Background Data Sheet Project Name: OINCRO Plot No.: 1204 Page 2 of 2	mmunity Assessment Program i:PCAP	CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet Project Label: PCAP Project Name: OIN C QC
1		

Intensive n Estimate fo intensive m %unvegetated %unveg. litter c Vouc	nter nter inter
	ect name: OINCADIA modules:

KIT

O



Woody Stem Deer Browse

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

Record using the tally system from 1 to













ASH CANOPY CONDITION

- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
- 2. Thinning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.
- 3. Dieback: Canopy is thinning and some top branches exposed to sunlight are dead (have no leaves). Lower branches, not exposed to sunlight, die naturally and are not considered.
- 4. >50% Dieback: The canopy has less than half of the leaves that should be there and/or half of the top branches are dead.
- 5. Dead canopy: No leaves remain in the canopy portion of the tree. It still counts as a 5 even if there are epicormic sprouts below the canopy (lowest branch) on the trunk.



В

С

D

Е

ASH CANOPY BREAKUP CONDITION (for dead trees):

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

- A: All main branches contain fine twigs (newly dead).
- B: Over 50% of main branches have fine twigs.
- C: Less than 50% of main branches have fine twigs.
- D: Stem still standing and tertiary main branches present.
- E: Central stem still standing.

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



<u> </u>									
Tier 1: Early	detection/	Rapid response		100		sence	A SE	GPS	
				NE	SE	SW	NW		Presence
Microstegium vimineum		Japanese stiltgrass						<u> </u>	X: yes
Ranunculus ficaria		Lesser Celandine	,			<u> </u>			
Cynanchum louiseae	(vine)	Black Swallow-wort							
Butomus umbellatus	(wetland)	Flowering Rush			I]
Heracleum mantegazzianum	1	Giant Hogweed							1
	: Assess a			TO SEE	# of	Plants	2000	comments	
			nie spilip	NE	SE	sw	NW		# of Plants
Acer platanoides	-	Norway Maple				230743			1: 1-10
Ailanthus altissima		Tree of Heaven							2: 11-50.
kónicera japonica	(vine)	Japanese Honeysuckle	<u> </u>	¹ Z	1		2		3: 51-100
	<u> </u>	Purple Loosestrife	-		+	12	2		4: 101-1,000
Aegopodium podagraria	(G-cover)	Bishop's Goutweed		\vdash	+	 -	-		5: >1,000
Celastrus orbiculatus	(vine)	Asian Bittersweet		гч	\vdash	+	ų		3. >1,000
	(virie)			,		+-			1
Torilis sp.		Hedgeparsley Poison Hemlock		\vdash	\vdash	+	+-+		1
Conium maculatum			/ala le 1	-	-	-	+		1
Rhamnus cathartica		Common Buckthorn	(shrub)	 	+-	+	\vdash		1
Berberis thunbergii		Japanese Barberry	(shrub)	-	├	-	\vdash		-
Alnus glutinosa		European Alder		 	-	+	-		-
Dipsacus laciniatus		Cut-leaf Teasel		ļ	₩	↓			-
Elaeagnus umbellata		Autumn Olive	(shrub)	↓	↓	1-			
Lonicera maackii		Amur Honeysuckle	(shrub)			1			
Euonymus fortunei		Wintercreeper		-					
Tier 3: F	resence is	of Interest		TO THE	7	Plants		comments	
	ledda.			NE	SE	SW	NW		# of Plants
Convallaria majalis	(G-cover)	Lily of the Valley							1: 1-10
Coronilla varia	(G-cover)	Crown Vetch						,	2: 11-50.
Eleutherococcus pentaphyll	us	Five-leaf Aralia	(shrub)						3: 51-100
Pachysandra terminalis	(G-cover)	Japanese Pachysandra	3						4: 101-1,000
Philadelphus coronarius		Mock Orange	(shrub)						5: >1,000
Pulmonaria officinalis	(G-cover)	Lungwort							
Rubus phoenicolasius		Wineberry							
ris pseudacorus	(wetland)	Yellow Flag Iris							
Ornithogalum umbellatum		Star of Bethlehem							1
Viburnum opulus var. opulu	s	European Cranberry	(shrub)						1
Viburnum plicatum		Doublefile Viburnum	(shrub)						1
Tier 4: Wie	despread a	and abundant		1200	Pre	sence		comments	
				NE	SE	sw	NW		Presence
Alliaria petiolata		Garlic Mustard		13			3		X: yes
Ligustrum vulgare		Common Privet	(shrub)	14	12	12	4		
L. morrowii, L. tatarica		Bush Honeysuckles	(shrub)	12	12	12	2		1
Phalaris arundinacea		Reed Canarygrass	(1
	wetland)	Phragmites			15				1
Polygonum cuspidatum	c.ana)	Japanese Knotweed	-	†	1~	1			1
Frangula alnus		Glossy Buckthorn	(shrub)	13	12	13	3		1
Rosa multiflora		Multiflora Rose	(shrub)	14	2	12	3		1
			(Siliub)	15	5	15			1
Typha angustifolia, T. x.glau	Ld	Cattails (wetland)		12	۲	+	5 2		1
Cirsium arvense		Canada thistle		1-	+	+	4		-
Dipsacus fullonum		Common Teasel		-	-	+			-
Hesperis matronalis		Dame's Rocket		-	-	1-	-		-
Vinca minor (G-cover)	Periwinkle		1		1	لــــــــــــــــــــــــــــــــــــــ		J

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

25	24	23	22	21	20	19	18	17	18	15	14	13	12	=	10	9	8	7	6	51	4	3	2		Module ID.
			2			9	3	7	3	5	4	3	2											Zo A	Species
		0.00																							Dead o
																									Voucher# (cm)
																									Ht @ Ash DBH condition
																									*Dead # Exit Epi condition holes pro
																									cormic
				Map all ash tree							Bas	selino						*** Change int							Woodpecker holes
				es ≥10cm in each modu		1			2				34	œ	•]			*** Change intensive module numbers when necessary				z			
				Map all ash trees ≥10cm in each module using Tree ID number				۵.						•	•			rs when necessary							

* 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)

Page: 1 of 1

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

Soil pit module # (one per entire plot)

20 cm 5 cm matrix color matrix color texture* texture* oxid roots oxid roots edox features** ıydı: cond.*** edox features** mottle mottle ottle color ottle color 2.54312 2.572.5/1 2 | A IS (M) D ZA 4 3 0 O z z

refer to texture classes on reverse side

tydro cond.***

I S M

••• Circle one:

l=indundated S=saturated M=moist D=dry

Notes: include evidence of earthworms (worms.) ** e.g. hydrogen sulfide odor, gleving, etc.

NO WORMS

castings, middens)

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

Soil Series Type Holly Selt loans Depth to rest. Layer: >80" Soil Series Source: Ohio Soil Survey Soil Collection Module Horizon arent Material: Alluvium andform type: +8,9 composited Rood plairs 14. 20

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

o Impermeable surface Afoorly drained Somewhat poorly dr. Very poorly dr. C1/18/8 DC

0.1 cm in center of intensive modules. If >30.5 cm, SOIL DEPTH MEASUREMENT: Measure to the nearest record as >30

4	3	2	1	moď⊭
0	0.5	0	0	1 litter+ organic depth (cm)
Õ	5,0	0	0	2 litter depth (cm)
Q	0	0	O	water depth
25	Drs	625	Ø25	depth sat

**** <5 cm in diameter	*** >5 cm in diameter	**Boulder => 10 in	* Gravel-Cobble = 1/16-10*	Bedrock	Boulder**	Gravel-Cobble*	Mineral Soil	Histosol	(Sum = 100%)	Underlying Earth Surface*	EARTH SURFACE & GROUND COVER
neter	eter	n'	1/16-10*	Ø	Ø	\Diamond	00	O	percent	Surface*	E & GROUP
Other	Road/Trail	Bare Soil	Water	Bryophyte- Lichen	Duff (Ferm.+ Humus)	Litter	Fine Woody Debris****	Coarse Woody Debris***	(Each ≤ 100%)	Ground Cover	D COVER
	\mathcal{Z}	U	Q		0	Э.	TO 2	4	percent		

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

Strata	Height Range (m)	Total Cover (%)
Tree	25)
Shrub	1.5	Ŏ
Herb	<i> 5 </i>	93
(Floating)*	1	
(Aquatic)*	9	
° rooted and fi	° rooted and floating or slightly emersed	sed
** submersed,	** submersed, most plant mass below surface	w surface

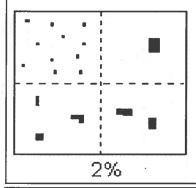
Notrai	Deer	□ Gravel	Bootleg unsanctioned	□ Hiking sanctioned	□ Bridle	□ All Purpose	Туре	record type and cover for each	TRAIL INFORMATION:	一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一
							%Cover	ach		

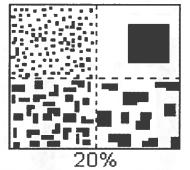
□ < plot size	□ 1-3 x plot size	□ 3-10 x plot size	10-100 x plot size	a > 100 x plot size	□ >600 x plot size	STAND SIZE	

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



Class	# C	ode	Criteria: % of
L 1	Conv.	NASIS	Surface Area Covered
Few	f	THE THE	< 2
Common	С	<u> </u>	2 to < 20
Many	m	#	≥ 20





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

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

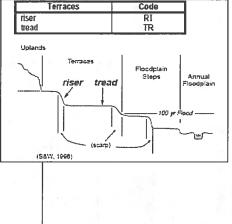
Geomorphic Component - Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains;

NASIS

(FJS, 1998; adapted from Ruine, 1975)

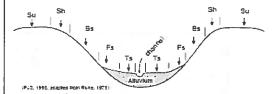
e.g., (for Hills) nose slope of NS.

	interfluve head slope	IF HS	IF HS	
	nose slope side slope	NS SS	NS SS	
	base slope		BS	
		Head slope	Refure Signer	
-	Barra Store	Nose slope	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1



Hillslope - Profile Position (Hillslope 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.

Code
SU
SH
BS
FS
TS



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

UPLAND: Not a wetland. Very rarely flooded.

INTERMITTENTLY/SEASONALLY SATURATED: Dry at least once per year. Surface water is seldom present, but substrate is saturated to surface for extended periods during the growing season.

PERMANENTLY/SEMIPERMANENTLY SATURATED: Dry less than once per year. Surface water is seldom present, but substrate is saturated to surface for extended periods during the growing season. Equivalent to Cowardin's Saturated modifier.

OCCASIONALLY FLOODED: Surface water can be present for brief periods during growing season, but not in most years. Often characterizes flood-plain upper terraces.

TEMPORARILY FLOODED: Surface water present for brief periods during growing season, but water table usually lies well below soil surface. Often characterizes flood-plain levees and lower terraces. Equivalent to Cowardin's Temporary modifier.

INTERMITTENTLY FLOODED: Substrate is usually exposed, but surface water can be present for variable periods without detectable seasonal periodicity. Inundation is not predictable to a given season and is dependent upon highly localized rain storms. This modifier was developed for use in the arid West for water regimes of Playa lakes, intermittent streams, and dry washes but can be used in other parts of the U.S. where appropriate. This modifier can be applied to both wetland and non-wetland situations. Equivalent to Cowardin's latermittently 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.

Plot No.: 1204

Observed and Methoparton Page: 1 of 1

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

STANDING BIOMASS (required for emergent wetlands) collected in 0.1m clip plots (32x32 cm) from comers 1 and 3 in each intensive module. Required for VIBI-E score calculation. C?=check when

	4	ω	S		Module #
	<	人	?	<	C7
(ريز	3	3	37	Corner
)	1	-		Corner

CLASSIFICATION		
(FIT = excellent, g Fit and Confidence		
Hydrocemerphic class (WETLANDS ONLY):		
A DET RESSION	7	Conf≖
o IMPOUNDMENT o Beaver o Human	7	Conf
RIVERINE - Headwater Mainstern - Channel	7	Conf
□ SLOPE (ground water hydrology or on a physical slop)	7	Conf
n FRINGING in Reservoir in Natural Lake	Fit	Conf=
n COASTAL (specify subclass)	F	Conf"
BOG (strongly, moderately, weekly ombrotrophic)	Fit=	Conf=
Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):	CLTING	
□ FOREST □ swamp forest □ bog forest □ forest seep	File	Conf=
EMERGENT marsh a wet mendow a open bog	Film	Conf=
□ SHRUB □ shrub swamp □ tall sh. bog □ tall sh. fen	Fire	Conf=

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

lope 1 = stight elevational grade across module (hit) anks for microhabitat features. 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 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 wetland
- 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

4	a	<i>b</i>	_	mod# corner					
0	0	0	0	er (count)	lxlm	depth 3		tussocks	no of
0	0	0	0	(count)	3 16x3 16m	depth 2	uplands (Tip-Ups)	hummocks	no of
h	U	2	W	(count)	10x10m	depth 1		depressions	no. macro.
12	1	0	20	(count)	10x10m	depth I		(2-12 cm)	c.w.d
23	1	N	R	(count)	10x10m	depth 1		(12-40cm)	c.w.d
-	0	0	0	(count)	10x10m	depth 1		>40 cm	c.w.d
7	6	5	6	(rank)	10x10m	depth 1		interspers	microhab
0	0	0	0	(rank)	10×10m	SLOPE	N. A.		microhab

CROWN COVER (DENSIOMETER): Make 4 readings per module facing N. S. E. W. Place dot count in corresonding space (4 dots per gnd square)

** Terrain Shape Index (site microtopographic shape)

Landform Index (position within landscape)

+315 degrees +270 degrees

N N

+180 degrees +225 degrees

SW

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

anay

[€

+135 degrees +90 degrees +45 degrees At aspect

SE

Z z

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

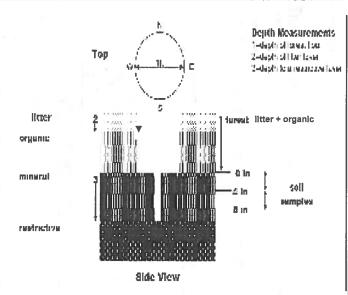
44	¥3	12	1	Nodule	Samuel Comment for Samuel Comment
96	38	96	96	Z	non (, aou ba
16	96	96	96	s	. Breathanna
10	96	96	36	E	,
76	96	96	36	W	L

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

^{***}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.



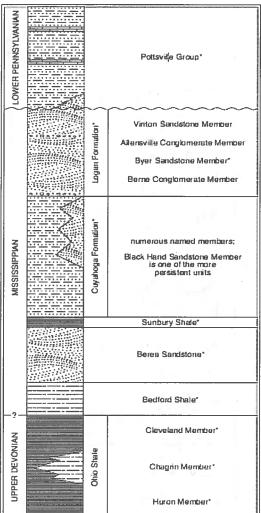


FIGURE 3-20.—Generalized section of Upper Devonian, Mississippian, and Lower Pennsylvanian formations in northeastern Onio. Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Waverty" is used in the older literature to refer to Mississippian rocks in Ohio. Some geologists uses the European term "Carboniferous," which enconpasses the Mississippian and Pennsylvanian Periods of the U.S. Many units have been named within the Cuyahoga Formation, out most units are local and cannot be traced over great distances. Ine Black Hand Member is a spectacular massive sandstone that is fairly widespread four discontinuous. See Hyde (1933), Hoover (1960), and Collins (1979) for more information on Mississippian rocks in Ohio. See figure 3-13 for explanation of rock types.

^{**}Can also include seedlings of shrubs, i.e. all shrubs <0.5m

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Water hyacinth	0	0	0		Knotweed	0	0	0		Kudzu	0	0	0	iida
Yellow Floating Heart	0	0	0	_	Japanese Knotweed	0	0	0	-1-	Multiflora Rose	0	0	0	
Giant Salvinia	0	0	0		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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Other:		10		0	0	0		(BLACKENED)				0	0	0		Other:	-120			0	O	0	
			-			Exp		uspect meas: lags in comm							igned b	y each field c	rew.	2	2428	3168	304		
Bı	uffer San	nple l	Plots	05	/27/:	2011			S 77-14 9								194						

- 5 1 4 5 1					ER SAMPLE PLOTS -					Reviewed by	/ (initial	1):	ayla	
Site ID:	Po	CAP	NC	IZO	Ч	DAI	E: _	0 , 8	<u>5</u> /	2,4,1,2,0,1,2,	10-11	F	100	
Confirm	a fille	ed da	ta b	ıbble iı	ndicates presence and an un	filled	bubb	le ind	dicates	absence by filling in this bub	ole	-		
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Eurasian Watermilfoil	0	0	0		Purple Loosestrife	0	0	0		Johnson Grass	0	0	0	
Water hyacinth	0	0	0		Knotweed	0	0	0		Kudzu	0	0	0	"Ip
Yellow Floating Heart	0	0	0		Japanese Knotweed	0	0	0		Multiflora Rose	0	0	•	1117
Giant Salvinia	0	0	0		Perennial Pepperweed	0	0	0		Common Buckthorn	0	0	0	
Gartic Mustard	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	
Canada Thistle	0	0	0		Leafy Spurge	0	0	0		Other:	0	0	0	
										Other:	0	0	0	
				He of S	PLOT COOR	DINA	TES	3						
O AA CENTER N		os h y		O E3	O W3 O Nearest pro	Lor	ngitu	de V		g and comment below)	S			
Flag Comments														
		- \						1-14	Ll	1)	4163			
2 Clemet Fo	262	000	U.	rom	10m away, (n	nucl	4	we	TIAM	NZ		-		
2 Clemet Fo	res	4	PI	015(0	on: Native Species	NW	rsev	4	(~	N 2				
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		SILE	A)								1,130		1735	
Buffer Sample P	oints	- Tar	gete	d Alien	Species 05/27/2011					790	5662	354	8	•

			Old		15.5		FO	OM D 4:	DITE	ED	CA.	AD:	E D	107	re /F	ron4)	1,31	11.25	**			
							FOI	RM B-1:	BUFF	EK	SAI	VIPL	EP	LUI		N .		Reviewed I			— (
Site	ID: P	CA	PN	CZ	01	2						ų,				08					2	
Locati																ıld not be	sample	ed and	flag	→		
OAA	Center	С	N	0	S	9 I	E 0	W		lot			Plot			Plot 3	-100					a
								s; E = Evergre h strata type fo		ype: E	B = Bro	oadlea	f; N =	Needle	e Leaf. A			vy (40-75°	%); 4 = \	/ery H	eavy (>75%)
Buffer Plot 1	Canop		e: 🕞		\rightarrow	bsen	t: 🤣	Buffer Plot 2	Canopy				\leftarrow	bsent		Buffer Plot 3	Canopy	Type: (-	sent	
Big Trees (>			0) (<u>.</u>	0	0	Flag			f Typ	\sim		0	0	Flag		(>0.3m DBH)			<u>(</u>	0	Flag
mail Trees (<	-		0	0	0	0	-	Big Trees (>		-	0	0	<u>0</u>	0		Small Trees			+=	0	0	
Voody Shrubs		-		-	-	+-		Small Trees (Woody Shrub		+=-	-			_			ubs, Saplings	+=+=	+ -		-	
	-5m HIGH)	9	0	(2)	0	0			-5m HIGH)	-	0	③	0	0		(0.5	im-5m HIGH) ibs, Saplings	+ 	1 -	0	9	
(<0.	.5m HIGH) orbs and	9	0	0	0	0		(<0	.5m HIGH) Forbs and	Ø		0	0	<u>O</u>		(-	(0.5m HIGH) Forbs and		+=	<u>0</u>	9	
	Grasses	0	0	0	0	(2)	1	110720, 1	Grasses	9	0	0	0	②			Grasses	00	+ -	③	0	
Bare	ground	0	9	0	0	0		Bare	ground	0	Ø	0	0	0		Bai	re ground		+ =	0	0	
Lit	ter, duff	0	②		0	0		Lit	tter, duff	0	0	0	<u> </u>			L	itter, duff	0	+ -	0	0	
	Rock	9	<u>O</u> ,	0	0	0			Rock	②	0	(2)	0	\odot			Rock			0	0	
	Water	9	0	<u> </u>	0	0			Water	(4)	0	0	0	0			Water	00		0		
	bmerged egetation		0	0	0	0			ubmerged egetation		0	①	0	0			Submerged Vegetation	0	(2)	0		
Stress	or Pres	enc	e/Ab	senc	e -	Confi	rm that	a filled data	bubble in	ndica	tes p	resen	ce an	d an	unfilled	bubble indi	cates abse	nce by f	lling th	is bub	ble.	0
Resi	dential	and	Urba	an St	tres	sors		pinn si	Hydrolo	gy S	tres	sors					Agricultu	ıral & F	ural S	tres	sors	
ill bubble	if prese	ent - l	Plot	1	2	3	Flag	Fill bubble	e if prese	ent - I	Plot	1	2	3	Flag	Fill bubble	if preser	t - Plot	1	2	3	Flag
Road - gra	evel			0	0	0		Ditches, C	hanneliza	ation		0	0	0		Pasture/Ha	ıy		0	0	0	
Road - two	lane			0	0	0		Dike/Dam/		Bed		0	0	0		Range			0	0	0	
Road - fou	ır lane			0	0	0		Water Leve		l Stru	cture	0	0	0		Row Crops			0	0	0	
Parking Lo	ot/Pavem	ent		0	0	0		Excavation	, Dredgir	ng		0	0	0		Fallow Fiel		RESTING	0	0	0	
Golf Cours	se		J. T.	0	0	0		Fill/Spoil B	anks			0	0	0		Fallow Fiel SHRUBS, TRE	d (OLD - GR	ASS,	0	0	0	
Lawn/Park		8 63		0	0	0		Freshly De		Sedim	nent	0	0	0	,	Nursery	- Harri		0	0	0	
Suburban	Residen	tial		0	0	0		Soil Loss/F		osure		0	0	0		Dairy			0	0	0	
Urban/Mul	tifamily			0	0	0		Wall/Ripra	P			0	0	0		Orchard			0	0	0	
Landfill		9		0	0	0		Inlets, Out	ets			0	0	0		Confined A	nimal Fee	ding	0	0	0	
Dumping				0	0	0		Point Sour (EFFLUENT C	R STORMV	VATER	2)	0	0	0		Rural Resi	dential		0	0	0	
Trash				0	0	0		Impervious (SHEETFLOW	surface	input		0	0	0		Gravel Pit			0	0	0	
Other:				0	0	0		Other:				0	0	0		Irrigation			0	0	0	
Other:	and the second			0	0	0		Other:				0	0	0		Other:			0	0	0	
Indus	strial D	evel	opm	ent S	Stres	sor	8						Habi	tat/V	egeta	tion Stress	sors					
ill bubble	if prese	ent - l	Plot	1	2	3	Flag	Fill bubble	if prese	nt - F	Plot	1	2	3	Flag	Fill bubb	le if prese	ent - Plo	1	2	3	Flag
Oil Drilling				0	0	0		Forest Clea	r Cut		4	0	0	0		Herbicide L	lse		0	0	0	
Gas Wells				0	0	0		Forest Sele	ctive Cut			0	0	0		Mowing/Sh	rub Cutting	,	0	0	0	
Mine (surfa	ace)	V.	- 4	0	0	0		Tree Planta	tion			0	0	0		Trails			0	0	0	
Mine (unde	erground	1)		0	0	0		Tree Canop	y Herbivo	огу		0	0	0		Soil Compa		no for	0	0	0	
Military				0	0	0		Shrub Layer		d		0	0	0		Offroad veh		ge	0	0	0	
Other:				0	0	0		(WILD OR DON Highly Graz	ed Grass	ses	1125	0	0	0		Soil erosion	(FROM WIN			0	0	
Other:	-	-	7					(OVERALL <3° Recently Bu		est		1000	0	0		OR OVERUSE Other:	1		0	0		
				0	0	0		Canopy Recently Bu	ırned Gra	esslar	nd	0				PUTCH CONTROL		17481			0	
Other:	na nadac	K = 1	do	0	0	0		(BLACKENED)		THE S		O	0	0		Other:	POW		.] 0	0	0	
		100				Exp		uspect measi lags in comm							ignea b	у еасп пека с	ew.	24	2816	3304	IK.	
В	uffer Sar	npie	PIOTS	U5,	121/	2011								100-					111111111111111111111111111111111111111			

Site ID:	Pc	AP	NC	120	ч	DAT	E: _	0 8	3.1.	2412012				
Confirm :	a fille	ed da	ta bu	ıbble ir	ndicates presence and an unf	illed t	oubbl	le ind	licates	absence by filling in this bubb	ole	VALUE OF THE PARTY		
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Eurasian Watermilfoil	0	0	0		Purple Loosestrife	0	0	0		Johnson Grass	0	0	0	
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	
Giant Salvinia	0	0	0		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	14
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		Other:	0	0	0	
Canada Thistle	0	0	0		Leafy Spurge	0	0	0		Other:	0	0	0	
		4				XT.				Other:	0	0	0	
			N. S.	200	PLOT COORI	DINA	TES		9 4 6				134	15.00
Location of coordinate O AA CENTER O No	3	O S	3	O E3	9,9,5,0	Lon	gitu	de V		g and comment below)	3		Fla	ag
					Use Decimal Deg	rees;	NAI	083						
Flag Comments														
				C :	3, (deep swamp)) VI	isu	الم	u 6	ssessed and too	L.			
					187				4 - 1	1,00	7			
point	2	- M		we.	st of E3-									
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						6.70			Sa.					
		ESSEN							HEOREM					
Buffer Sample Po	oints	- Tar	gete	d Alien	Species 05/27/2011					796	662	354	8	

FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)

Reviewed by (initial):_