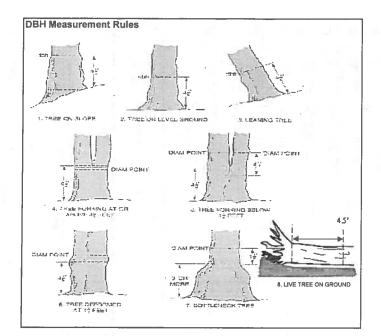
CLEVELAND ME	TROPARKS Plant Community Asses			
Project Label:	PCAP PCAP	_ PI	ot No	: 1273 Date Sampled: 8-28-17 Lead: 1458
			201 F.	Comment required if item answer is NO
Parking/Access outsi	de of Park Boundaries:	Υ (M	If yes, write details in Comments section below
Field journals compl	eted	(8)	N	
Site sketch made on	1:3000 map?	3	N	
Check cover page	X-axis Bearing of plot recorded		N	
	GPS coords. Recorded	(Ý)	N	
	North direction recorded	M	N	
	Photographs taken?	3	N	
Plot No., Date agreer	ment on all pages?	Y	N	
Header data complete		100	N	
-	ed in all Intensive modules		N	
Browse Level By Spe	ecies	"Y	N	No Brows
Woody stem quality			N	
Invasive plant quality			N	NO INVOSIVES
Ash trees mapped			N	NA
Cover by Strata? (cor	nfirm cover type)		N	
	d with matching plot #.		N	
	datasheet with initials and number		N	
Vouchers labeled on			N	
Pink flags removed			N	
Data sheet QA before	leaving site?	6	N	
Common equipment			N	
Data sheets scanned?				Enter date to left Se 8/31/12
rinal data sheets scan	ned?			Enter date to left
Buffer Widths measu		(Ŷ)	N	KEL 7-8-12
Web Soil Survey		\sim	N.	SC 8-31-12
oucher Location	Refrigerator		N.	0 3, 12
# vouchers collected)	Press (#)	 		Enter number to left
	Drier	l v	N	Enter number to left
Set-631	Identified		N N	
	Mounted		N	
	Thrown away		N N	
<u> </u>	11movii away	1 .	14	
TRTCi-tifi	diana. Ta mlad assemble 2			
	tion: Is plot sampleable?			
□ Yes	Original GRTS point is sampleable			
No	Original GRTS point lands in a non-s. Point falls in a water (i.e. river, la		rea (11	II in category below)
	Managed mowed area (i.e. golf c		es righ	Lof week
	□ Paved area (i.e. parkinglot, road)	ourse, preme ar	ca, ngn	1-01-way)
	Unsafe to sample (i.e. steep slope)			
	□ Other			
dditional Commen	ts:			

Minimum required fields in Bold and Underlined *Definitions and values in CM 14 CM *Definitions and values in CM 15 CM PCAP Background Data Sheet Page 1_ver 3.0.xls last revised 5/29/2012 ceh	Authority: G&C Pub Date: 1998 os	<	n/a Ca	high modera low not smpl In	TAXONOMIC ACCURACY D	datadata	15 2	subjective evaluation of	SAMPLING QUALITY*	□ Perm. water □ Paved ►Slope □ Safety La	PLOT NOT SAMPLED: Other x =	* Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc.) Soila/woods/s			yserboch Plot leader Sc	Role**	End date (if > 1 day):	corners sampled)	Level 4 (no nested corners sampled)	Piot No.: 1773	Plot Name: My duch Mpss La	Project Name: C/NC2012	Project Label: PCAP St	GENERAL INFORMATION L	ND METROPARKS Plant Comm	
*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide	□ Random □ Stratified Random □ Transect component □ Systematic (grid) □ Capture specific feature □ Other	tive	Camera No.: 2 Ca-2 35	Intensive modules: 2, 3, 8, 9 1, 2, 5, 7 (EDIT IF MODIFIED)	Depth: (1-5):		JA A	_ 	Longitude: 81. 43143	Latitude: 41.56975	$= \bigcirc y = - \text{(base of plot x=0, y=0)}$	GPS location in plot x=0 to 5, y=-1,0,+1):	pecify) ■ m □ ft □	■ Lat/Long □ UTM □ StatePlane ■ deg □ deg min	Coordinate system: Coord. Units de	□ MAP ■ GPS	ot public why?	Reason:		Data Confidentialky:	Landowner: CM	Names: Equipped Trail	angle: Mayfield Ht.	State: OH County: Chychoga	LOCATION	CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	4
	IVI C	Vag Char: P. Rock Harley	+ m Hemboll community sair ig	Shifted plot to represent	not getting the Hamlock community	but we are disaportionately	Rationale: GRTS of fel on Steep slope		Work aperox 580 m	the truit split (stay on ridge)	Squire I trail along sides post	pocation: Park at Buttermilk Falls. Take		Lavort: 1×5	dominants, strata, BROWSE). Additional notes in space on back.	nclude Layout (any unusual shape details), Location (directions) of the control o	Diagram Plot origin Charles in photorogen, location of with direction permanent posts		#1 #2 #3 #44 #5		piot: PAD #8	2.10 Y	do.			Data Sheet இப்பார்க்க	

Total modules:	(M
Clewland Metroparks	Br = Browse Level. Use cover classes to describe amount of browse per species over entire plot
T S H (F)(A) Br	3r Species
1 69 8	Facus C
4 2	Tsolar Canadensis
と	7 250
ي	Acex Sp. (spodlings)
a)	` 5₽.
	Ž
2	+1)
	Vica
-	Froxinus spilseedlings)
	NAY!
-	Corex (dring)
2)	M/hen
2	5
	Shara strict
	Agrostis (perennens)
	Scho
	-
-	
E	או
	Taraxhum officiale
حو	Oryopters intermedia

T S Ø 2 CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet d S 3 mod 7 ی Fagus granditain Tough canadensis Standing TSVAA Standing dead Tsuga canadensis Tsuga canadensis Standing dead Explain subsample (additional room on back): Standing dead Acer rubrum Fagus grandifolia Fagus granditalia Fagus grandifolia Fagus granditalia canadensis canadensis dead Project Label: _ PCAP voucher# browsed 0-1.4m # stems or super sample % sub Project Name: DINC 2012 clumps shrub # size class (cm) woody stems >1.4m N 0 0 N D 우<1 L' 0 四 1-<2.5 N 2.5-<5 Plot No.: 1273 . 図 5-<10 00 6 10 - <15 15 - <20 20 - <25 Page: 25 - <30 30 - <35 으 (Cleveland Metroparks 35 - <40 ö 68.5 4.14 9.14 71.64 100.5 W 6.99 >40 (record each tree)



Woody Stem Deer Browse

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

Record using the tally system from 1 to













ASH CANOPY CONDITION

- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
- 2. Thinning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.
- 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.
- 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.



B

С

D

Ε

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.

NO INOSNOS

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



								412.412.41	
Tier 1: Earl	y detection,	/ Rapid response				sence	ZPE CO	GPS GPS	
	CONTRACTOR OF STATE			NE	SE	SW	NW		Presence
Microstegium vimineum		Japanese stiltgrass		-					X: yes
Ranunculus ficaria		Lesser Celandine				<u> </u>			_
Cynanchum Iouiseae	(vine)	Black Swallow-wort							
Butomus umbellatus	(wetland)	Flowering Rush							
Heracleum mantegazzianı		Giant Hogweed							
Tie	r 2: Assess a	s Needed			# of	Plants		comments	
				NE	SE	SW	NW		# of Plants
Acer platanoides		Norway Maple							1: 1-10
Ailanthus altissima		Tree of Heaven							2: 11-50.
Lonicera japonica	(vine)	Japanese Honeysuckle	2						3: 51-100
Lythrum salicaria	(wetland)	Purple Loosestrife							4: 101-1,000
Aegopodium podagraria	(G-cover)	Bishop's Goutweed		Ī					5: >1,000
Celastrus orbiculatus	(vine)	Asian Bittersweet							
Torilis sp.		Hedgeparsley							
Conium maculatum		Poison Hemlock							
Rhamnus cathartica		Common Buckthorn	(shrub)			Ĺ			
Berberis thunbergii		Japanese Barberry	(shrub)						
Alnus glutinosa		European Alder			1				
Dipsacus laciniatus		Cut-leaf Teasel							
Elaeagnus umbellata		Autumn Olive	(shrub)						
Lonicera maackii		Amur Honeysuckle	(shrub)						
Euonymus fortunei		Wintercreeper							
	: Presence is	of Interest			# of	Plants	19811	comments	74
				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 pentaphy	/llus	Five-leaf Aralia	(shrub)						3: 51-100
Pachysandra terminalis		Japanese Pachysandra	1						4: 101-1,000
Philadelphus coronarius		Mock Orange	(shrub)						5: >1,000
Pulmonaria officinalis	(G-cover)	Lungwort							
Rubus phoenicolasius	<u>-</u> -	Wineberry							
ris pseudacorus	(wetland)	Yellow Flag Iris							
Ornithogalum umbellatum		Star of Bethlehem							
Viburnum opulus var. opu		European Cranberry	(shrub)						7
/iburnum plicatum		Doublefile Viburnum							7
	Videspread a	and abundant	akkana o		Pre	sence		comments	
9 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3				NE	SE	sw	NW		Presence
Alliaria petiolata		Garlic Mustard							X: yes
igustrum vulgare		Common Privet	(shrub)		1			<u>-</u>	7
morrowii, L. tatarica		Bush Honeysuckles	(shrub)						7
Phalaris arundinacea		Reed Canarygrass	(2						7
Phragmites australis	(wetland)	Phragmites	=1-2		1	\vdash		1983	
Polygonum cuspidatum	(wesand)	Japanese Knotweed				\vdash			=04 ~
rangula alnus		Glossy Buckthorn	(shrub)		1				- TRE 9-10
Rosa multiflora		Multiflora Rose	(shrub)		-	-	1		
Typha angustifolia, T. x.gla	auca	Cattails (wetland)	(3.11 0.0)		+	_			⊣
Cirsium arvense	aucu .	Canada thistle			1	+	\vdash	<u> </u>	-
Dipsacus fullonum		Common Teasel			+-				
Hesperis matronalis		Dame's Rocket			+	+			-
Vinca minor	(G-cover)	Periwinkle		 	+				-
Anica minor	(G-cover)	I CHANILLE		<u> </u>		-f		und und his disade (C. D.A. 1.)	_

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

CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet 14 10 24 23 22 2 20 16 ü _ ω 19 5 9 * 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) Project Label: PCAP Dead Voucher# Project Name: DINC 2012 (cm) BH Ash .Dead # Exit ASH Only Epicormic present INTENSIVE MODULES ONLY Plot No.: 1273 Date: 8/28/2014 Woodpecker holes Baseline Map all ash trees ≥10cm in each module using Tree ID number *** Change intensive module numbers when necessary TREES > 10CM ONLY ဖ 2 U Z M Page: 1 of 2 œ ω 由

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a

Project label: PCAP Project Name: 01 NC 2012

Plot No.: 1273 Plot No.: 1273

(a) Gleveband Metroparks

Page: 1 of 1

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

Soil pit module # ____ (one per entire plot)

					20 cm							5 cm
redox features** Y	texture*	oxid roots Y	**mottle NA	mottle color NA	matrix color 10 Ye 4/4	hydr cond *** ISM (D)	redox features** Y	texture*	oxid roots Y N	%mottle NA	mottle color NA	matrix color 10 Ye 3/3

refer to texture classes on reverse side

hydro cond ***

1 s M

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

*** Circle one:

I-indundated S-saturated M=moist D=dry

Notes: include evidence of earthworms (worms, castings, middens)

No Evidence of Worms 1

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

☐ Excessively dr. ☐ Somewhat excessively	DEALVARET	Parent Material: Residuum weathered	Depth to rest. Layer: >801	Landform type: Drain ageways	Soil Series Source: Ohio Soil Survey	Soil Series Type: 13 recksville silt loam	2,3,8,9 composited	Soil Collection Module Horizon (A, B, C)
cessively		weat		ys		lesult	>	0
		hared				loan		

□ Impermeable surface 831/12 SC

□ Somewhat poorly dr. Well drained

Moderately well dr. Very poorly dr.

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

4	3	d	1	mod#
3.1	5.7	4.9	3.1	1 litter+ organic depth (cm)
1.2	3.6	1.7	1.0	2 litter depth (cm)
Ø	Ø	Ø	Ø	water depth (cm)
>30	>30	3 5<	>30	depth sat

	V1	360									
	al										
**** <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
	eter	5	1/16-10"	Ó	0	12	88	0	percent	Surface*	E & GROUN
Other	Road/Trail	Bare Soil	Water	Bryophyte- Lichen	Duff (Ferm.+ Humus)	Litter	Fine Woody Debris***	Coarse Woody Debris***	(Each ≤ 100%)	Ground Cover	D COVER
0	12	S	0	2	88	88	W	10	percent	14.	

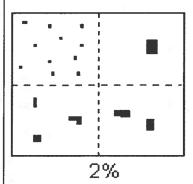
COVER BY STRATA estimate using midpol	COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13	,ex:3, 8, 13
Strata	Height Range (m)	Total Cover (%)
Tree	8.5	93
Shrub	0.5-5	84
Herb	x .05	3
(Floating)*	ı)
(Aquatic)*		(
* rooted and fic	 rooted and floating or slightly emersed 	rsed
•• submersed,	** submersed, most plant mass below surface	w surface
SEE BACK OF	SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS. STRATA CAN VARY BY CO	SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.
The same of the sa		

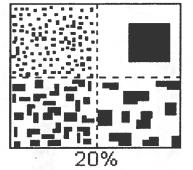
	-
	□ Deer
	□ Gravel
	□ Bootleg unsanctioned
R	Hiking sanctioned
	n Bridle
	□ All Purpose
%Cover	Туре
ach	record type and cover for each
	TRAIL INFORMATION:

STAND SIZE >600 x plot size >100 x plot size



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





Terraces

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= Sandv
- 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;

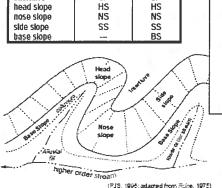
Code

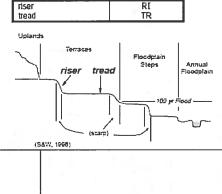
PDP

NASIS

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

interfluve

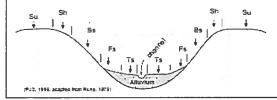




Code

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.

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 .

Plot No.: 1275

Page: 1 of 1

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

LFI*

At aspect

z

LFI is angle of plot to the horizon. TSI is

local slopes. For TSI measure angle from

angles formed by

STANDING BIOMASS (required for emergent wethands) collected in 0.1m clip plots (32x32 cm) from comers 1 and 3 in each intensive module. Required for VIBI-E score calculation. C7=check when collected

Module #	C?	Corner Corner	Corner

Fir= Conf=	□ SHRUB □ shrub swamp □ tall sh. bog □ tall sh. fen
Fit= Conf=	□ EMERGENT □ marsh □ wet meadow □ open bog
Fit=Conf=	□ FOREST □ swamp forest □ bog forest □ forest seep
CKTINO	Ohio EPA VIBLPlant Community Class (WETLANDS ONLY):
Fit= Conf=	□ BOG (strongly, moderately, weekly ombrotrophic)
Fit= Conf=	COASTAL (specify subclass)
Fit= Conf=	o FRINGING o Reservoir o Natural Lake
Fit= Conf=	□ SLOPE (ground water hydrology or on a physical slop)
Fit=Conf=	DRIVERINE DHeadwater DMainstem DChannel
Fit=Conf=	n IMPOUNDMENT o Beaver o Human
Fit= Conf=	DEPRESSION
	Hydrogeomorphic class (WETLANDS ONLY):
	(FIT = excellent g Fit and Confidence
	CLASSIFICATION

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

Slope 1 = slight elevational grade across module (hill) Ranks for microhabilat features. Select one or select two and everage the score.NOTE: If mod fals 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

1			Г	_	Г	_	_					
		7	W.	ع	_	mod#						
						corner				,		
		0	0	0	0	(count)	lxlm	depth 3		tussocks	no. of	
		0	0	0	0	(count)	3,16x3 16m	depth 2	uplands (Tip-Ups)	hummocks	no, of	
		3	ى	_		(count)	10x10m	depth 1		depressions	no, macro,	
		11	6	9	#	(count)	10x10m	depth 1		(2-12 cm)	c.w.d	c.w.d count
		0	ع	٦.	ىد	(count)	10x10m	depth 1		(12-40cm)	c.w.d	for pieces with
		0	0	0	1	(count)	10x10m	depth I		>40 cm	c.w.d	c.w.d count for pieces with minimum 1m length
		3	W	S	3	(rank)	10x10m	depth I		interspers.	nucrohab.	
		1	1	/	/	(rank)	10×10m	SLOPE			microhab.	

+45 degrees NE +90 degrees E +135 degrees S +180 degrees S +180 degrees S +225 degrees SW +270 degrees WW +270 degrees WW +715 degrees WW -1570 degrees WW

eye of person standing ~10 m

away.

corresonding space (4 dots per grid square)	readings per module facing N, S, E, W Place dot count in	CROWN COVER (DENSIONIETER): Make 4	

10					Module	
6 M S 6 ™	h	3	ھ	~	dule	
6 M 8 6 12	4	نھ	4	10	N	
	4	W	1	4	s	
セ イ / + *	6	V	થ	6	ਲ	
	4	4	1	4	W	

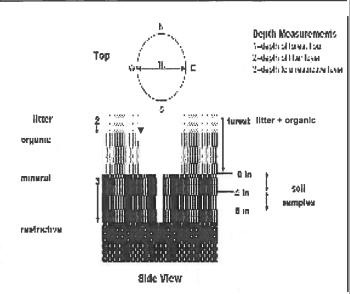
NOTE: tussock and hummocks are counted in BOTH nested quadrat corners but counts are aggregated.

COVER BY STRATA

OOTEN DI ONGNI	
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.



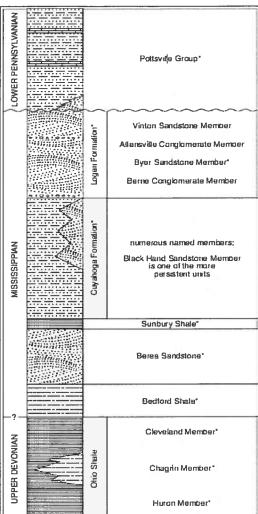


FIGURE 3-20.—Generalized section of Upper Devoman, Missistepian, and Lower Pennsylvanian formations in northeastern Ofrio Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the chicknesses indicated are proportional. The term "Waverty is used in the older hierarure to refer to Mississippian rocks in Okio Some geologists use the Eurogean term "Carboniferous" which encompasses the Mississippian and Pennsylvanian Periods of the U.S. Many units have been named within the Cuyahoga Fariation, but most units are local and cannot be traced over great distances. The Black Hand Member is a speciacular massive sandstone that is fairly widespread but discontinuous. See Hyde (1953). Hoover (1960), and Colins. 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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Road - two lane	0	0	0		Dike/Dam/Roa (IMPEDE FLOW)	ad/RR	Bed		0	0	0		Range			0	0	0	
Road - four lane	0	0	0		Water Level C	ontro	l Stru	cture	0	0	0	1	Row Crops	3		0	0	0	
Parking Lot/Pavement	0	0	0		Excavation, D	redgir	ng		0	0	0		Fallow Fiel	d (RECENT-	RESTING	0	0	0	
Golf Course	0	0	0		Fill/Spoil Bank				0	0	0		Fallow Fiel	d (OLD - GR	ASS,	0	0	0	
Lawn/Park	0	0	0		Freshly Depos (UNVEGETATED)	ited S	Sedin	nent	0	0	0		Nursery			0	0	0	
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Urban/Multifamily	0	0	0		Wall/Riprap				0	0	0		Orchard			0	0	0	- 100
Landfill	0	0	0		Inlets, Outlets Point Source/F	line			0	0	0		Confined A		eding	0	0	0	
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Trash	0	0	0		(SHEETFLOW)	liace	Iriput		0	0	0		Gravel Pit			0	0	0	
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Gas Wells	0	0	0		Forest Selective	e Cut			0	0	0		Mowing/Sh	rub Cuttin	g	0	0	0	
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Explain all flags in comment section on the back of this form

Buffer Sample Plots 05/27/2011



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Buffer Ca	nopy		e: 🕑			bsen		Buffer Plot 2	Canopy				\leftarrow	osen	$\overline{}$	Buffer Plot 3	Canopy		$\stackrel{\sim}{-}$	<u>(i)</u>	Ab	sent	
Big Trees (>0.3m		(O)	0	0	<u>/ </u>	0	Flag				e: (•	آحاً		<u></u>	Flag			Type	$\overline{\sim}$	<u>(0</u>			Flag
mall Trees (<0.3m		$\frac{0}{0}$	0	0	0	0		Big Trees (>		0	0	① ①	0	$\frac{\odot}{\odot}$			(>0.3m DBH)	$\stackrel{\mid \mathcal{S} \mid}{}$	$\frac{\Theta}{\Theta}$	0	9	9	
Voody Shrubs, Sar	plings	$\frac{0}{0}$	_	_		0		Small Trees (- Woody Shrub		-	0	-	0		<u> </u>	Small Trees Woody Shru	ubs, Saplings	$\stackrel{\mid \sim}{\sim}$		<u> </u>	0	9	
(0.5m-5m h Voody Shrubs, Sap			0	0	0	0			-5m HIGH)	0	0	0	9	$\frac{\odot}{\odot}$		(0.5	om-5m HIGH) bs, Saplings	19	의	<u> </u>	의	의	
(<0.5m Herbs, Forbs	HIGH)	<u>0</u>	0	0	0			(<0	.5m HIGH) Forbs and	0	0	0	9	$\frac{\odot}{\odot}$		(•	<0.5m HIGH) , Forbs and	191	의	<u> </u>	의	9	
	sses	<u>0</u>	0	0	0	0			Grasses	0	0	0	9	$\frac{\odot}{\odot}$		_	Grasses		의	<u> </u>	<u> </u>	<u> </u>	
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Stressor	Pres	ence	e/Ab	senc	e - (Confi	rm that	a filled data	bubble in	ndica	tes pi	resen	ce an	d an	unfilled	bubble indi	cates abse	ence b	y fillir	g this	s bub	ble.	0
Residen	ntial a	and	Urba	an St	ress	SOLS			Hydrolo	gy S	tres	sors					Agricult	ural 8	Rui	al S	tress	sors	
ill bubble if p	orese	nt - F	Plot	1	2	3	Flag	Fill bubble	if prese	nt - I	Plot	1	2	3	Flag	Fill bubble	e if preser	nt - Pl	ot	1	2	3	Flag
Road - gravel				0	0	0		Ditches, Cl				0	0	0		Pasture/Ha	ay	i de		0	0	0	
Road - two lar	ne		1 3	0	0	0		Dike/Dam/		Bed		0	0	0		Range				0	0	0	
Road - four la	ne			0	0	0	J.	Water Leve	el Control	Stru	cture	0	0	0	1	Row Crops				0	0	0	
Parking Lot/Pa	avem	ent		0	0	0	į.	Excavation	, Dredgin	ıg		0	0	0	- 10	Fallow Fiel	D)		G	0	0	0	
Golf Course				0	0	0	30	Fill/Spoil B				0	0	0		Fallow Fiel SHRUBS, TRE		ASS,		0	0	0	
Lawn/Park				0	0	0		Freshly De (UNVEGETAT	ED)	min		0	0	0		Nursery				0	0	0	
Suburban Res	sidenti	ial		0	0	0		Soil Loss/F	Root Expo	sure		0	0	0		Dairy				0	0	0	
Jrban/Multifar	nily			0	0	0		Wall/Ripraj				0	0	0		Orchard				0	-	0	
_andfill				0	0	0	-	Inlets, Outl				0	0	0		Confined A		ding				0	
Dumping				0	0	0		(EFFLUENT O	RSTORMV			0	0	0		Rural Resid	dentiai			0	0	0	
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Oil Drilling		NITE.		0	0	0		Forest Clear	r Cut			0	0	0		Herbicide U	lse			이		0	
Gas Wells				0	0	0		Forest Selec	ctive Cut			0	0	0		Mowing/Shi	rub Cutting	9		0	0	0	
Mine (surface)				0	0	0		Tree Plantat				0	0	0		Trails				0	0	0	
Vine (undergr	ound)			0	0	0		Tree Canop (INSECT)				0	0	0		Soil Compa (ANIMAL OR H				0	0	0	
Military				0	0	0		Shrub Layer (WILD OR DOM	ESTIC)			0	0	0		Offroad veh				0	0	0	
Other:			1	0	0	0		Highly Graze (OVERALL <3" I		es		0	0	0		Soil erosion OR OVERUSE)		ID, WAT	ER,	0	0	0	
Other:	925-3111			0	0	0		Recently Bu Canopy		est		0	0	0		Other:				0	0	0	
Other:	*****			0	0	0		Recently Bu (BLACKENED)	rned Gra	sslar	nd	0	0	0		Other:				0		0	
						(Section 1)		(DESCRIPTION)				100000								- 1		_	

Fiag codes: K = No measurement made, U = Suspect measurement., F1,F2, etc. = misc. flags assigned by each field crew.

Explain all flags in comment section on the back of this form

Buffer Sample Plots 05/27/2011



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