Project Label:	PCAP	Children in	6:3385 Date Sampled: 9112015 Lead: Lyse
	100 0 0 0	NA PARAME	Comment required if item answer is NO
Parking/Access outsi	ide of Park Boundaries:	Y (N)	If yes, write details in Comments section below
Field journals compl	eted	(V) N	
Site sketch made on	1:3000 map?	(V) N	
Check cover page	X-axis Bearing of plot recorded	Ø N	3.
	GPS coords. Recorded	O N	
	North direction recorded	Q N	- 2 P-p
	Photographs taken?	₩ N	
	Relocated Pins Mapped	N (V)	37133344 3 3
Plot No., Date agree	ment on all pages?	(V) N	
Header data complet	ed all pages?	₩ N	
Cover classes record	ed in all Intensive modules	W N	
Browse Level By Sp	ecies	Ø N	
Woody stem quality	control check	(Ŷ) N	Check every line and cross check with the Tree Cover Sheet
Invasive plant quality	y control check	YN	N/A
Ash trees mapped	578526 VE	Y N	NIA
Completed Forest Pe	st/Pathogen Datasheet	Ø N	
Cover by Strata? (co	nfirm cover type)	N Ø	
Soil samples collecte	ed with matching plot #.	Y N	N/A
Cross check 2010 in		N Q	Highlight any changes from 2010 information
Vouchers labeled on	datasheet with initials and number	Y N	NONE
Vouchers labeled on	collection bag	Y N	700.00
Pink flags removed		N (2)	
Data sheet QA befor	e leaving site?	Ø N	
Common equipment	returned to tub.	W N	
Data sheets scanned	?		Enter date to left
Final data sheets sca	nned?		Enter date to left
Buffer Widths meast	ured?	ΥN	
Web Soil Survey	100 - 100	Y N	
Voucher Location	Refrigerator	Y N	
(#vouchers collected)	Press (#)	2 10	Enter number to left
	Drier	Y N	
	Identified	Y N	
	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, pictale area, right-of-way)
	Paved area (i.e. parkinglot, road)
	Unsafe to sample (i.e. steep slope)
	Other

Additional Com								_
Rick	n gravel	Polloff	near	trail	divide	e.	hilery,	Bridle

	P	q	

SAMPLING QUALITY\* CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet PLOT NOT SAMPLED: GENERAL INFORMATION Minimum required fields in Bold and Underlined TAXONOMIC STANDARD TAXONOMIC ACCURACY Plot No.: 3385 Not Dooth Fall chen nd date (if > 1 day): ate (mm/dd/yyyy): " 1 / 1 / W / 5 roject Label: Very thorough oiect Name: 02 NC2015 1 JSRABOALA Plot leader Level 5 (nested corners sampled) Level 4 (no nested corners sampled) 12 modera. how much effort put into may still provide good subjective evaluation of sampling. Hurried plots Pub Date: Mooch low o Other not smp 1998 □ Systematic (grid) □ Capture specific feature □ Other Plot placement: VGRTS GPS location in plot x=0 to 5, y=-1,0,+1) ■ Lat/Long □ UTM □ StatePlane Source of coordinates 

MAP □ Fuzz 100m □ Fuzz 250m □ Fuzz 500m Check one: Public data - Private Date Data Confidentiality: Quadrangle: May Field 1/13 LOCATION Camera No.: 22 GPS File Name: 3385A x = 0 y = 0 (base of plot x=0, y=0) Coordinate system: Depth: (1-5): Datum: ■ NAD83/WGS84 □ NAD27 Other (specify) Random | Stratified Random | Transect component Plot size for cover data: 0.03 (hectares) Coord. Accuracy: wm of Latitude: 57 41 5 (710 Local Place Names ntensive modules: 2.3,8,9 ( 2 3 IEDIT IF MODIFIED f data not public why? Buttermilk folls scenic overlock industry andowner: \*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide X-axis Bearing of plot: County: (W Y Representative M deg a deg min Coord. Units ■ GPS 126 पा ° Location: Park of Butternilk falls.

Location: Park of Butternilk falls.

Walk approx 2000 NE to where frail and a hilking trail and shiking trail along hilking trail. Plot is Rationale: GRTS of (resample) content), Rationale (why here), and Veg Characterization (description of community, dominants, strata, BROWSE). Additional notes in space on back. Very Cher: Canopy: Red Oak w/Beech and Red Maple NOTES: Include Layout (any unusual shape details). Location (directions and landscape Diagram Plot origin 

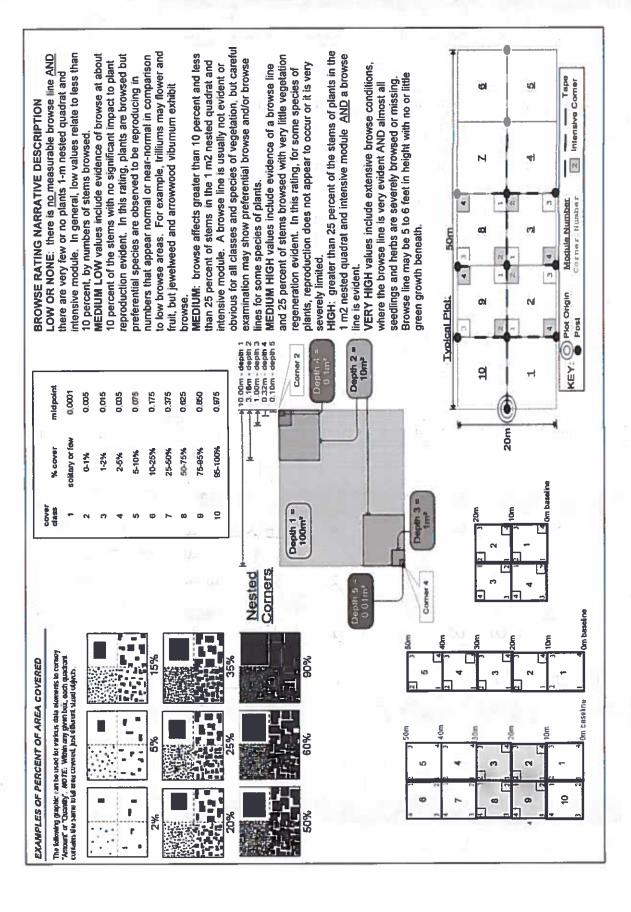
GPS location 

photo taken, with direction Herb: Lots of moss, woody seedings 告 -KAN location of permanent posts (BClueviuredMutruperto Page 1 of 2 375

to bloom

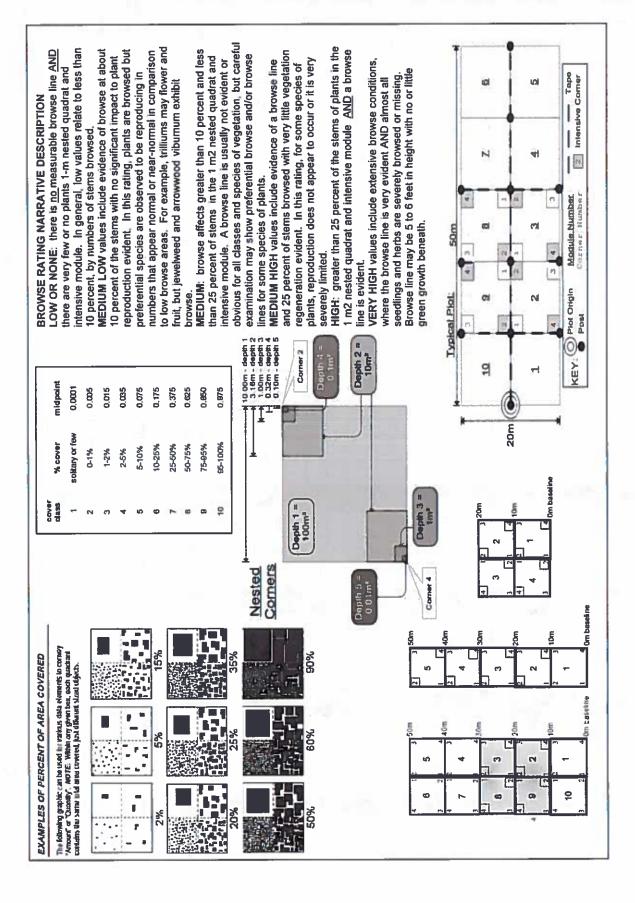
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Metroparks	entire plot	%unvegetated open water	_			-				1	_	ulle l			and the second			
Circle Cou entire plat		%unveg. ground (bare soil)	- -	+		۸					+			1	_		$\downarrow$	
S H (F)(A)Br	Br Species	c Voucher#	depth o	cov depth	COV	depth		clape)	D 460	depth	- 4	depth	P 400	depth	0 V V 00	depith	NGG C	depth
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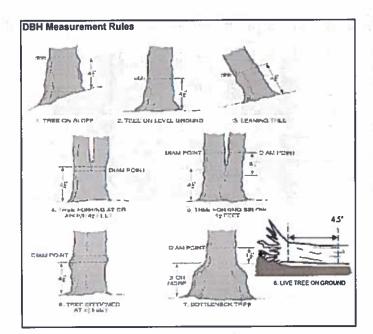


CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Strata - Cov. entire plot % COVER Project Label: aulius rubia Facus grandifolin Axir wown Species ဂ Prensence of tree mod species (X) Project name: 52NCW15 Plot no.: 3385 Voucher # N mod **70** 20 Page \_\_\_ of \_

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CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Project Label: PCAP				Species																
CLEVELAND METROP	The section of the se	% COVER	Strata - Cov. entire plot	⊢ Br																

Page of

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet RHAMNUS FRANGULA STHAIDING DEAD Explain subsample (additional room on back): Rubus allighenienses ROSH MULTIFLIER Quercus rubra Strading dead Fraxious americana Foods grandifolia Smilax rotundisalia Acer rubrum Isuga Canadensis Overcus pubra Toxiscodendran radicans Isuga Canadensis Tsuga canadensis Quercus rubra Toxicodendron radionis Fagus amadifolia No Browse Folgus grandifolia Project Label: voucher# perwand 0-1.4m or super % sub Project Name: OZN CZOI S clumps size class (cm) woody stems >1.4m = 2 • M . 1-<2.5 2.5-<5 ٠ Plot No.: 3385 5-<10 . ₩, 10 - <15 15 - <20 | 20 - <25 • Page: 25 - < 30 30 - <35 잋 (Cleveland Metroparks 35 - <40 5 >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.
- 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

F

## 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 tertlary main branches present.
- E: Central stem still standing.

Natural Resources Management FORM 2010-04a

\* 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 Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detection	Rapid response	4	Pre	sence	2 2	GPS	
110. 40		NE	SE	sw	NW		Presence
Microstegium vimineum	Japanese stiltgrass						X: yes
Ranunculus ficaria	Lesser Celandine		1		121	<u> </u>	
	Black Swallow-wort						7
	Flowering Rush		1			·	┑
Heracleum mantegazzianum	Giant Hogweed		+				$\neg$
Tier 2: Assess a			# of	Plants		comments	
(IEI 2. A33633 a	3 Necwes	NE	SE	sw	NW		# of Plants
Acer platanoides	Norway Maple	1115	100				1: 1-10
Ailanthus altissima	Tree of Heaven		+	1-	$\vdash$	-	2: 11-50.
	Japanese Honeysuckle		+	+		· · · · · · · · · · · · · · · · · · ·	3: 51-100
	Purple Loosestrife			+	<del>                                     </del>		4: 101-1,00
	Bishop's Goutweed	_	+-	+	<del>                                     </del>		5: >1,000
Celastrus orbiculatus (G-cover)	Asian Bittersweet		-	+	<del>                                     </del>		3. 71,000
	Hedgeparsley		+	+			$\dashv$
Torilis sp.  Conium maculatum	Poison Hemlock		+	+	+ +	<u></u>	┨
<del></del>	Common Buckthorn (shru	(b)	+	+	+	·	$\dashv$
Rhamnus cathartica			+	+	<del>                                     </del>	·	$\dashv$
Berberis thunbergii	Japanese Barberry (shru	iu)	+	+	<del>                                     </del>	<u></u>	-
Alnus glutinosa	European Alder	-	+	+	<del>                                     </del>	<del> </del>	$\dashv$
Dipsacus laciniatus	Cut-leaf Teasel	L)	+	+		<u></u>	$\dashv$
Elaeagnus umbellata	Autumn Olive (shru	-	-	+			$\dashv$
Lonicera maackii	Amur Honeysuckle (shru	(G)	+	+	<del>                                     </del>		$\dashv$
Euonymus fartunei	Wintercreeper		A ad	Plants	- 6	comments	-
Tier 3: Presence i	s or interest	NE	SE	SW	NW	Comments	# of Plants
Converted and all (Convert	It the eastern Malley	IAE	JE .	244	1444		1: 1-10
	Lily of the Valley Crown Vetch	+	+	+	+		2: 11-50.
<del></del>	Five-leaf Aralia (shru	lol l	+	+-	+	*	3: 51-100
Eleutherococcus pentaphyllus	<del></del>	101	+	+	┼	<del></del>	4: 101-1,00
Pachysandra terminalis (G-cover)		163	+	+	<del>                                     </del>		5: >1,000
Philadelphus coronarius	Mock Orange (shr	10)	-	+	<del>                                     </del>		3. >1,000
Pulmonaria officinalis (G-cover)			-	+-	╄═╌┼╴		_
Rubus phoenicolasius	Wineberry	-	+		+		<del></del>
Iris pseudacorus (wetland)		-	+	-	+ +	<u> </u>	<b>-</b> -
Ornithogalum umbellatum	Star of Bethlehem		+-	-	-	<u> </u>	_
Viburnum opulus var. opulus	European Cranberry (shru		+-	+	╂╼═┼	<del>.</del>	_
Viburnum plicatum	Doublefile Viburnum (shru	0)	D-				
Tier 4: Widespread	and abundant	AUC		sence	ADAC	comments	# of Plants
	In the second	NE	SE	SW	NW		
Alliaria petiolata	Garlic Mustard		+-	+	+	<u> </u>	1: 1-10 2: 11-50.
Ligustrum vulgare	Common Privet (shru		+	+	+		
L. morrowii, L. tatarica	Bush Honeysuckles (shru	(D)	-	+-	+		3: 51-100
Phalaris arundinacea	Reed Canarygrass	+	+-	+	+ +		4: 101-1,00
Phragmites australis (wetland)	Phragmites		-	+	+ +	<u> </u>	5: >1,000
Polygonum cuspidatum	Japanese Knotweed	.   -	+	-	<del>                                     </del>	<u></u>	$\dashv$
Frangula alnus	Glossy Buckthorn (shru		+	-	+		$\dashv$
Rosa multiflora	Multiflora Rose (shru	b)	—	-	+		_
Typha angustifolia, T. x.glauca	Cattails (wetland)		+	4—	+		$\dashv$
Cirsium arvense	Canada thistle		+	-	1		$\dashv$
Dipsacus fullonum	Common Teasel	$\rightarrow$	_ _	+	<del>                                     </del>		_
Hesperis matronalis	Dame's Rocket		_	+	1		
	I Destruie la la	- 1	•	1	ì		
Vinca minor (G-cover)	Periwinkle					··	

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

10	9	ça .	7	o.	ნ	4	ω	2		mod #	CLEA
									1 NIONE PRESENT	species	CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Sheet  Project Label: PCAP Project Name: 02 NC2015 Plot No.: 32
										youcher#	Pommunit
										# shrub clumps	PCAP
										size class (cm) woody stems > 1m 1 2 3 0~1 1 1~2.5 2.5~5	nt Program Projec
										m) woody ste	Forest Pot Name:
								-		stems > 1m 3 4 2.5~5 5-<10	Project Name: 02 NIC2015
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										7 8 9 10 11 20 - <25   25 - <30   30 - <35   35 - <40   >40 (record each tree)	Claveland Metroperts of
										11 cord each tree)	of
				502					3/KS		

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

Strata Infected	m Severity (H.M. or L)	* Write None Present if no evidence:	
Tree (size class 3 or above)		NbNie Beech (Fungus)	None Asian Longhorned Beetle
Shrub (size class 2 or below including shrub clumps)		* FORUS TYPES JOOK IN half Hay	

Walnut (Thousand Canker)

Severity
High = more than 50% of leaffneedle cover exhibiting symptoms
Medium = Less than 50% of leaf/needle cover exhibiting symptoms
Low = Only a few leaves or branches are exhibiting symptoms

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808	888	300 300 	To feature is present in mod	est, ossections or characteristics of the service or present from the service or present end of tussocks depth 3	(NE)  amounts or if more control highest quality, or turns and of highest quality, or the part of historical suplants (Tip-Ups)  alepin 2  3.16c.2.16m	no. reacro.  depressions  depressions  depth 1  10x10m	C.w.d co. C.w.d co. C.w.d (2-12 cm)	Slope 3 = matri  Link for placess with  c.n.d  (12-40cm)  depth 1  10x10m	mini.	num 1m len c.w.d >40 cm depth 1
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8	8	8	To feature is present in modification in model cerner	est, ossed one or produce or prod	(NII)  Amounts or if more consumit and of highest quality, or our highest quality, or flamed (Tip-Ups)  Acquisit (Tip-Ups)  Acquisit (Count)	no. macro. depressions depressions depressions (count)	C.w.d cos c.w.d cos c.w.d (2-12 cm) depth 1 10x10m (count)	Slope 3 = matri  Slope 3 = matri  C.v.:d  (12-40cm)  depth 1  10x10m  (count)		theophess that card card card depth 1 10x10ma
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Plot No.: 3385

CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface
Project Label: PCAP Project Name: OANC 2015

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

+3	+2	+21	<u>+</u> _	<u> </u>	<u>+</u> _	 		_	
+3   5 degrees	+270 degrees	+225 degrees	+180 degrees	+135 degrees	) H) degrees	+45 degrees	Al aspeci		
WW	W	SW	S	SE	E	NE	×		
								LFI*	1000000
								**151	Contract to the same of
	away.	e) e of person	recorders eye to	TSI measure	angles formed by	horizon. TSI is	LFI is angle of		, come

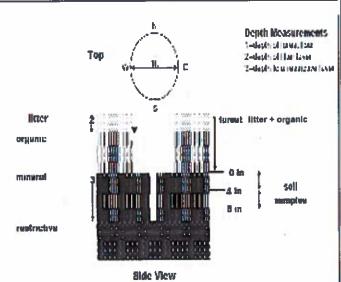
\* Landtorm index (position within landscape)
\*\* Terrain Strape Index (site intcrolopographic shape)

## **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.



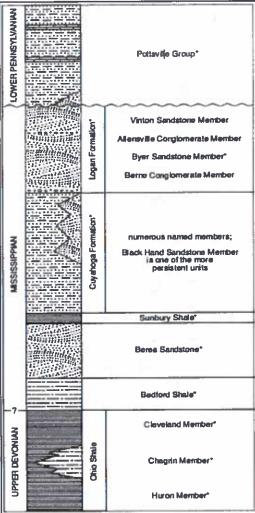


FIGURE 3.10.—Generalized section of Upper Devenan, Alisissippian, and Lower Pennsylvanian fermations in northeastern Ohio Asteriaks indicate units that are feasible-true. This composite section represents about 400 meters of rock exposed across the area. The sections not to earle, but the thicknesses indicated are proportional. The term "Waverty" is used in the older literature to refer to Alississippian rocks in Ohio, Some geologists use the European term "Carboniferous," which enconpasses the Alissispian and Pennsylvanian Periods of the U.S. Many units have been named within the Cuyahoga Formation, but most units are local and cannot be traced over great distances. The Black Hand Member is a spectacular massive sensione that is fairly widespread but distantion on Mississippian rocks in Ohio. See figure 3-16 for more information on Mississippian rocks in Ohio. See figure 3-16 for explanation of rock types.

CLEVELAND METROPARKS Plant Community Assessment Program - Solls, Crown Cover, Standing Blomass Data Sheet 6a
Project label: PCAP Project Name: 12/10/15

(E) Citcreland lifetroparies

Page: 1 of 1

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

Soil plt module # \_\_\_ (one per entire plot)

20 cm 6 cm matrix color axid roots matrix color redux features\*\* exture stoor bex -mottle dox features\*\* mottle ydr, cond.\*\*\* ottle color ittle color S Z z U z

refer to texture classes on reverse side hydro. cond \*\*\* M D

S

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

1-indundated S-saturated M=moist D=dry.
Notes: include evidence of earthworms (worms, castings, middens)

no worms absenued InoD3; None present. Moderation of the North Modera

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

o Impermeable surface	Well drained	Excessively dr.	AINAGE*	Parent Material:	Depth to rest. Layer:	Landform type:	Soil Series Source. Ohio Soil Survey	Soil Series/Type:	b Soli Survey Information;	2,3,8,9 composited
	A F	vely		-		L				<u> </u>

T.	_			7 0 10
$  \hat{ } $	g.	_	modif	SOIL DEPTH 0,1 cm in cent record as >30
به	<u>ال</u>	ب 4-1	I litter+ organic depth (cm)	SOIL DEPTH MEASUREMENT: Measure to the neares 0.1 cm in center of intensive modules. If >30.5 cm, record as >30
<i>a.</i> 5	<del>ا</del>	ب	2 litter depth (cm)	JREMENT:
Ø	Ø	Q	water depth (cm)	Measure to tules. If >3
Ø	Ø	B	depth sat	the nearest 0.5 cm,

EARTH SURFACE & GROUND COVER	CE & GROU	IND COVER	-
Underlying Earth Surface*	h Surface*	Ground Cover	-
(Nego) - mars)	percent	(Each \(\leq 100%)	percen
Histosol	Φ	Coarse Woody Debris***	3%
Nineral Soil	16°%	Fine Woody Debris****	160
Gravel-Cobble*	4 %	Litter	30°
Boulder**	(	Duff (Ferm.+ Humus)	
Bedrock	1	Bryophyte- Lichen	35%
* Gravel-Cobble = 1/16-10*	= 1/16-10*	Water	_
**Boulder = > 10 in	in	Bare Soil	20%
*** >5 cm in diameter	neter	Road/Trail	20

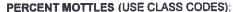
		(Aquatic)*
		(Floating)*
<b>1</b>	<b>₹</b> .0.5	Herb
78	055	Shrub
88	7	Tree
Total Cover (%)	Height Range (m)	Strata
	100	

Gravel	n Bootleg unsanctioned	Whiting sunctioned	c Bridle	a All Purpose	Туре %С	record type and cover for each	TRAIL INFORMATION
		0			%Cover		

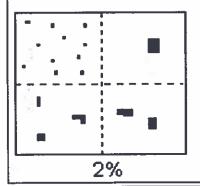
□ < plot size	o 1-3 x piot suze	3-10 x plot size	□ 10400×J	o > 100 x plot size	ti >600 x plot size	STAND SIZE	
	SUZE	1 31226	00 x plot size	X Size	X size	ZE	

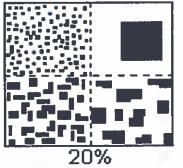
SEE BACK OF PAGE FOR "TYPICAL" STRATA DESCRIPTIONS, STRATA CAN VARY BY COVER TYPE.

submersed, most plant mass below surface



Class		ode	Criteria: % of
	Conv.	NASIS	Surface Area Covered
Few	ſ	#	< 2
Common	С	#	2 to < 20
Many	m	#	≥ 20



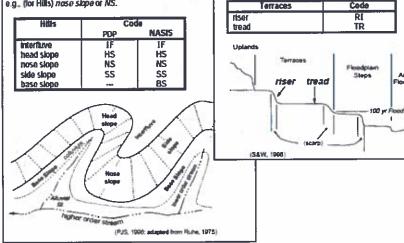


SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but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

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

e.g., (for Hills) nase slape or NS.



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., backslope or BS. This is best applied to transects or points, not preas.

Position	Code
summit	SU
shoulder	SH
hackslope	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 "hebooff

UNKNOWN: The hydrologic regime cannot be determined from the available information.