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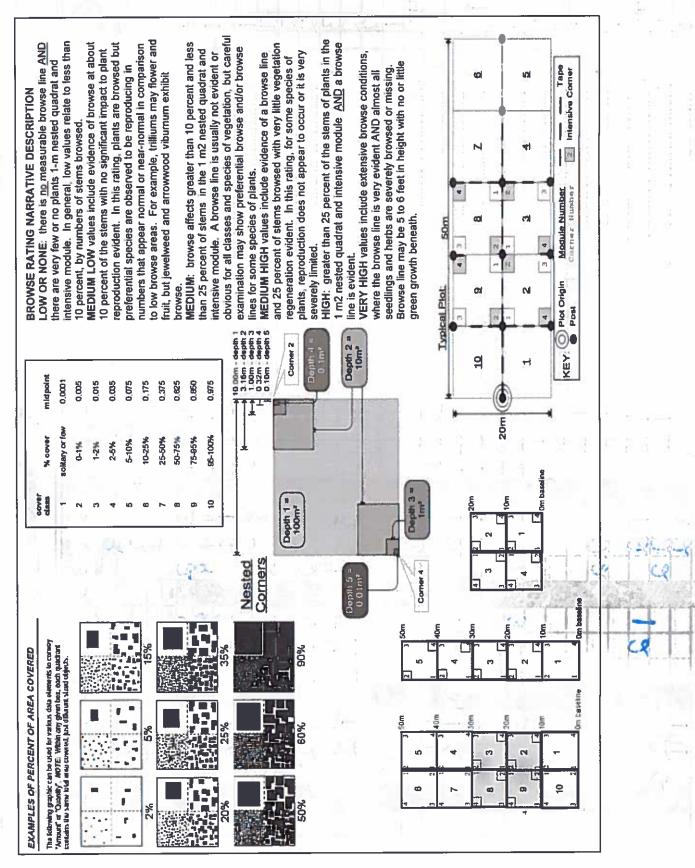
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		□ Point falls in a water (i.e. river, lake)
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١		Paved area (i.e. parkinglot, road)
ı		Unsafe to sample (i.e. steep slope)
I		Other

Additional Comments:	

CLEVELAND METROPARKS

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Total modules: Project Label: Project name: 02/(Rao/S Plot no.: 1054 Intensive modules: 4 Plot configuration: 2×5 Plot area (ha): Page \_\_\_ of \_2

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CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

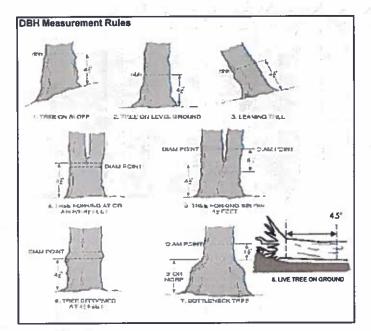
SRE\_CM PCAP TREE Species Cover Data sheet.xls last revised 6/10/2015 jjm

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	10 mm	bel: Project name: PCAP Prensence of tree mod mod mod	hel: Project name:  Prensence of tree mod mod mod mod species (X)	PCAP Project name:  Prensence of tree mod mod mod mod mod species (X)  Species C Voucher#	Project name:   PCAP   Project name:	bel: PCAP Project name:    Prensence of tree   mod   mod   mod   mod	bel: PCAP Project name:  Prensence of tree mod mod mod mod mod species (X)  Species C Voucher #	bel: PCAP Project name:    Prensence of tree   mod   m	hel: PCAP Project name:  Prensence of tree mod	bel: PCAP Project name:  Project name:  Project name:  Project name:  Species (X)  Species (C)  Species (C)	hel: PCAP Project name:  Prensence of tree mod mod mod mod species (X)  Species C Voucher #	bel: PCAP Project name:  Project name:  Project name:  Project name:  Species (X)  Species (X)	PCAP Project name:  Prensence of tree mod	hel: PCAP Project name:  Prensence of tree mod	Project name:  Prensence of tree mod	Project name:  Prensence of tree   mod   m	PCAP Project name:  Prensence of tree mod mod mod species (X)  Species (X)  C Voucher #  C Voucher #  C Voucher #	PCAP Project name:  Prensence of tree mod mod mod seed mod seed mod seed seed seed seed seed seed seed se	Project name:    Project name:	Project name:  Project name:  Prensence of tree   mod   mod	Project name:  Project name:  Prensence of tree mod	PCAP Project name:  P	PCAP Project name:  P	Project name:    Presence of tree   mod   mod	Indire plot Species C Voucher # Indire plot Species C Voucher	Project name:  Prensence of tree mod mod mod mod species (X)  Species C Voucher#  C Voucher#	Project name:  Project name:  Prensence of tree mod mod mod mod species (X)  Species (X)  And species (X)  Sp	PCAP   Project name:

ō

12 Stanting see 2 Vitto liquir CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 2 Jesedus glober 5 km dry I sees JUNION MIDEL Lightym Whale いれられにゆるのう Standing dead STANDIM Ligustum Volgane Explain subsample (additional room on back): All maying Vitis ciorcia Acci pigum PIUMUS GLOTING FLEXIMUS CO. XEDILA Preschus almbro-Avil regundo Juglans origin Resculus glabor Palthungissos foir gazanto Munus Scotins Floxinus andi came deas Leak Project Label: 1 0-1,4m or super % sub Project Name: 02881015 shoub size class (cm) woody stems > 1.4m 0-<1 : 2.5-<5 Plot No .: 1054 ŧ 10 - <15 Page: 30 - <35 (Cleveland Metropanks 35 - <40 ö 76.6 なら >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.
- 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.



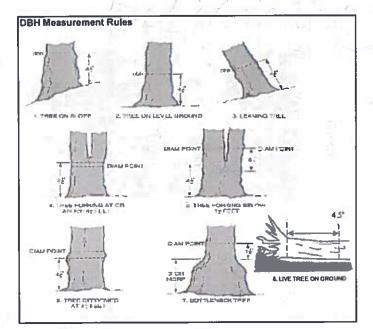
Ε

# 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.

-Out 05 plat 2010 waste breach of present 7 Asserves glubur CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 7 Juaines 11 gra-6 Standing deve 5 Acxulus alabor 4 Linser Know 6 Lighton Whome + Ligury to m Volgery 6 Runs serosive 6 Ru Marino QUE MEQUINDO Rosa multistion Vitis upana Aus may não Fraince of Society Floring medican Promos sensina KHS JOHN ciraur lanzoin Ligus grum Vulkam Storreign dead HUNK YINTIN Project Label: :1 0-1.4m or super % sub Project Name: 02 K \$2015 shrub size class (cm) woody stems >1.4m 24 . Plot No.: 1054 10 - <15 Page: 1 5 701,418,647 >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.
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- 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.



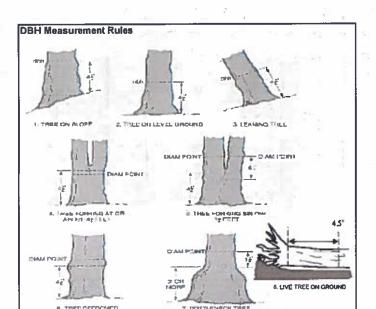
C

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(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).
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- 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 Natural Woody Stem Data Sheet a wis cionin 10 morning read 4 Linder - Writin 10 Fromin us pensy humien Hone sugarion DECI NAME USO Plugus Scrafin Stanting. MEXINUS 41. SUZIN Duals no night Acquire alabor FO-XIOUS AND : OF M what is animally Acquir alabio-Explain subsample (additional room on back): ALLI MAUNDO Juglans nigra FIRST AME IT WAY Standing Leak VHS COME AGWINE species dear Project Label: PCAP voucher# browsed 0-1.4m or super stems % sub Project Name: 028 KO15 shrub size class (cm) woody stems >1.4m 1 7 : 1-<2.5 2.5-<5 Plot No.: 1057 5-<10 10-<15 ۲, 15 - <20 20 - <25 Page: 25 - < 30 30 - <35 Cieveland Metroparks 35 - <40 5 67.7 63,1 >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 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.
- 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.



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.

If Ash Condition scores 5 (dead) provide breakup score (A-E)
 Count EAB exit holes 1.25m2 x ≥1.5m
 Woodpecker and epicormic marked present (1) or absent (0)

CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet

Project Label: PCAP

Project Name: 62 RR105

Page: 1 of 2

														4										1	Module
y n	24	23	22	21	20	19	5	17	16	亦	4	13	12	=	6	9	8	7	6	Ch	4	ω	N	-	ᅙᇶ
																								town onest	Species
				2 1				9-1														Hos.			Dead n
																		100		100 M					: Voucher#
							Ī	┢											Ē	$\vdash$		$\vdash$			DBH (cm)
				-			H	-		2534												$\vdash$			HBQ
								F																	
				<u> </u>																					Ash 'Dead condition
																								70.00	7.4
										Ť															Exit Epicormic oles present
			7																						Woodpecker holes
							i			÷	В	selic	10												
				Map all ash trees ≥10cm in each module using Tree ID numb					N						9		7	*** Change intensive module numbers when necessary		F	~	<u>&gt;</u>	)		
				odule using Tree ID num				Į.	٢						69			nbers when necessary			W		Λ,		

Natural Resources Management FORM 2010-04a

# CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detecti	on/ Rapid response		Pre	sence		GPS	
		NE	SE	SW	NW		Presence
Alcrostegium vimineum	Japanese stiltgrass						X: yes
tanunculus ficaria	Lesser Celandine						
	e) Black Swallow-wort		1				
	nd) Flowering Rush		$\top$				
Heracleum mantegazzianum	Giant Hogweed		$\top$				
Tier 2: Asses		1	# of	Plants		comments	311
(IEI Z- ASSE	as iveeded	NE	SE	SW	NW		# of Plants
Landa de la constante de la co	Norway Maple	IVE	30	344			1: 1-10
Acer platanoides	Tree of Heaven		+-	+	1	<u></u>	2: 11-50.
Ailanthus altissima		_		+-			3: 51-100
onicera japonica (vin		+		+	<del>                                     </del>	···	4: 101-1,000
ythrum salicaria (wetlar		_	-	+-			5: >1,000
legopodium podagraria (G-cov		_	+-	-		· · · · · · · · · · · · · · · · · · ·	[5: >1,000
Celastrus orbiculatus (vir	<del></del>		+-	-			_
Torilis sp.	Hedgeparsley	_	-		$\vdash$	₩.	-
Conium maculatum	Poison Hemlock		-		<del>                                     </del>	***	$\dashv$
Rhamnus cathartica	Common Buckthorn (shru		_				_
Berberis thunbergii	Japanese Barberry (shru	b)	+	_		·	_
Alnus glutinosa	European Alder						_
Dipsacus laciniatus	Cut-leaf Teasel					·	
laeagnus umbellata	Autumn Olive (shru	b)	Π				
onicera maackii	Amur Honeysuckle (shru	b)					
Euonymus fortunei	Wintercreeper						
Tier 3: Present		- 13 June	# of	Plants		comments	
		NE	SE	sw	NW		# of Plants
Convallaria majalis (G-cov	er) Lily of the Valley						1: 1-10
	er) Crown Vetch						2: 11-50.
leutherococcus pentaphyllus	Five-leaf Aralia (shru	b)					3: 51-100
	er) Japanese Pachysandra	-,				<del></del>	4: 101-1,000
Philadelphus coronarius	Mock Orange (shr	ıb)	_	+		***	5: >1,000
	er) Lungwort	,,,	+	+		<del>-</del>	
	Wineberry	_	+	+-	+		-
Rubus phoenicolasius			+	+	<del>                                     </del>	<del>.</del>	$\dashv$
	nd) Yellow Flag Iris		_	+-	+	···-	
Ornithogalum umbellatum	Star of Bethlehem	16.3	+	+			<del></del> -
Viburnum opulus var. opulus	European Cranberry (shru		+-		-	<del></del>	$\dashv$
/iburnum plicatum	Doublefile Viburnum (shru	(D)					
Tier 4: Widespre	ad and abundant		_	esence		comments	H of Dissess
		NE	SE	SW	NW		# of Plants
Alliaria petiolata	Garlic Mustard		-	-	+		1: 1-10
Ligustrum vulgare	Common Privet (shru			-	+		2: 11-50.
L. morrowii, L. tatarica	Bush Honeysuckles (shru	b)	+	4		<del></del>	3: 51-100
Phalaris arundinacea	Reed Canarygrass	$\perp$	_	4_			4: 101-1,00
Phragmites australis (wetlan	d) Phragmites		$\perp$		$\bot$		5: >1,000
Polygonum cuspidatum	Japanese Knotweed						
Frangula alnus	Glossy Buckthorn (shru	b)				<del></del>	
Rosa multiflora	Multiflora Rose (shru	b)					
<del></del>	Cattails (wetland)					· · · · · · · · · · · · · · · · · · ·	
Typha angustifolia. T. x.glauca	1	<del>- í -</del>					
Typha angustifolia, T. x.glauca Cirsium arvense	Canada thistle		- 1				
Cirsium arvense	Canada thistle	-	╫	+	<del>                                     </del>	<del></del>	
	Canada thistle Common Teasel Dame's Rocket						$\exists$

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

4bCM PCAP Invasive species datasheet.xls last revised 6/11/2012 ceh

**Natural Resoures** 

Project Label: PCAP Project Name <u>b2 ( 2 10 15                                </u>	CLE
# size class (cm) woody stems >1m	CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Sheet
# size class (cm) woody stems >1m	t Communi
5-<10 10<15 15<20	y Assessme
5-<10 10<15 15<20	nt Progran
5-<10 10<15 15<20	1 Forest
5-<10 10<15 15<20	Pest an
	d Patho
	gens Da
7 8 9 20 - <25 25 - <30 30 - <35	ta Shee
Page: 9 9 9 9 30 - <35	1
Page 9 30 - <35	
	<b>A</b>
10 35 - <40	Clevela
of 11 >40 (record each tree)	Cleveland Metroparks

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

Strata	# of stem Infected	Severity (H,M, or L)	* Write N	* Write None Present if no evidence:		
Tree (size class 3 or above)			Marc	Beech (Fungus)	None	Asian Longhorned Beetle
Shrub (size class 2 or below including shrub clumps)	J		None		Non	Other Pest or Pathogen
			Nowl	Walnut (Thousand Canker	anker)	
Severity				L.		
High = more than 50% of leat/needle cover exhibiting symptoms	needle cove	r exhibiting sym	otoms	-		
Medium = Less than 50% of leaf/needle cover exhibiting symptoms	af/needle co	over exhibiting s	mptoms			
Low = Only a few leaves or branches are exhibiting symptoms	anches are	exhibiting sympt	oms			

Plot No.: 105 4

Clavel and Hotel Page: 1 of 1

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

+15 degrees

K z

SE

LFI is angle of plot to the horizon. TSI is angles formed by local slopes. For TSI measure angle from recorders eye to 95 of person 50 of person.

At aspect

TANDING BIOMASS (required for emergent wetlands) collected :  (0.1 in clip plots (32x32 cm) from concers 1 and 3 in each intensive obtate. Required for VIBI-E score calculation. C7-check when sherted
---

Module #	C?	Comer Come	Comer
100			
		H	

(FIT = coochest g Fit and Confidence		
Hydroecomorphic class (WETLANDS ONLY):		
DEPRESSION	File	Conf*
a IMPOUNDMENT a Beaver a Human	7	Conf=_
g RIVERINE a Headwater a Mainstern a Channel	Fitz	Conf
SLOPE (ground water hydrology or on a physical sloys	Fire	Conf=
o FRINGING o Reservoir o Natural Lake	7	Conf.
to COASTAL (specify subclass)	F)(=	Conf=
D BOG (strongly, moderately, weekly ombrotrophic)	Fit=	Conf=
Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):	CLING	
a FOREST a swamp forest a bog forest a forest seep	7	[] []
a SHRUB a shrub swamp a tall sh. bog a tall sh. (en		

# MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

lope 1 = slight elevational grade across module (hill) laries for microhabitat features. Selections or select two and everage the score.NOTE: If mod talk on a slope automatically gets ranked based on steepness (1-3) to begin + any features present Stope 2 = falls on stope ~20 \* Slope 3 = maximum steepness that can be safely sampled -45\*

- feature is absent or functionally absent from the wettend
- 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 1
ا تد	N
W	3
-	-
	1 00
8	(count)
7	10x10m
	depth I
ĩ	(12-40cm)
7.	C.W.d

corresponding space. (4 dots per grid square)	readings per module facing N, S, E, W Place dot count in	CROWN COVER (DENSIONETER): Male 4	

' Landform Index (position within landscape)
" Terrain Shape Index (site microtopographic shape)

+370 degrees +315 degrees

> Z € WS

+225 degrees + 130 degrees +135 degrees +iyn degree

-c	-	<b></b>		Medake	Summer of the same
2	٦	0	4	z	manufactured and property of the Comments
0	O	0	0	s	9
C	-	-	v	m	
_	C	-	5	¥	L

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

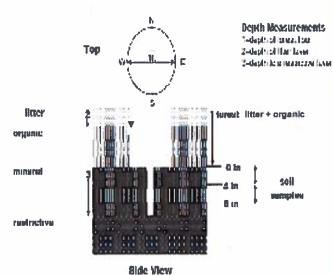
### **COVER BY STRATA**

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.



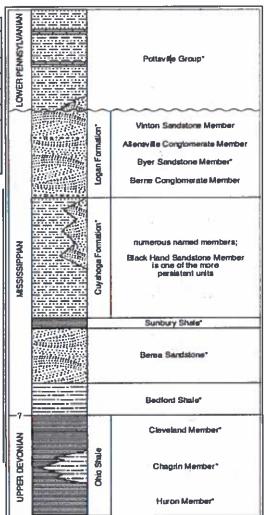


FIGURE 3-20.—Generalized section of Upper Devenian Missamppian, and Lower Pennsylvanian formations in northeastern Ohio Asterisks indicate units that are maniferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to easile, but the thicknesses indicated are proportional. The term "Waverly is used in the older literature to refer to Missamppian rocks in Ohio. Some geologists use the European resm "Carboniferous," which encompasses the Missamppian 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 speciarislar misserve sandstone that is furly widespread but discontinuous. See Hyde (1953), Hoover (1960), and Collins (1979) for more information on Missampian rocks in Ohio. See figure 3-18 for explanation of rock types.

Page: 1 of 1

Citerciand Metroparks

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

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

				20 cm							5 cm
lexture*	oxid roots	%mottle	motile color	matrix color	hydr. cond ***	redox features**	lexture*	axid roots	%mottle	mottle color	matrix color
	4				- s	4		~			
	z				M D	z		z			
o s	01	0	240	P	IS.	E	Soi	So.	We	E	Se:
a Somewhat poorly dr	o Well drained	o Excessively dr.	RAINAGE*	Parent Material	Depth to rest. Layer:	Landform type:	Soil Series Source	Soil Series/Type:	b Sail Surrey I	2,3,8,9 composited	Soil Collection Modula
dr		0			la la		왕		T-101E		duli

redox features\*\* hydro, cond \*\*\* I S M D ~ z

c impermeable surface

a Moderately well dr. C Somewhat excessively

D Very poorly dr.

refer to texture classes on reverse pide

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

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

a - worms or custings 3- costings a willing 2-astings preson

SOIL SAMPLES Standard procedure: collect a soil intensive module and composite the sample sample of the top 10 cm of soil from center of each

Soil Collection Modul (Herizen (A. B. C)	ņ
2,3,8,9 composited	>
Web Sell Survey Informations	
Soil Series/Type:	
Soil Series Source: Ohio Soil Survey	
Landform type:	Qui
Depth to rest. Layer:	
Parent Material	
DRAINAGE.	

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

record as >30

þ	8	W	2	mod#
0.2	0	6	0	1 liner+ organic depth (cm)
0.2	0	0	0	2 litter depth (cm)
0	0	0	0	water depth (cm)
0	6	0	0	depth sat soil (cm)

EARTH SURFACE & GROUND COVER	CE & GROU	ND COVER
Underlying Earth Surface	h Surface*	Ground Cover
(Short - 100%)	percent	(Each ≤ 100%)
Histosol	1	Coarse Woody Debris***
Mineral Soil	1007	100 % Fine Woody Debris****
Gravel-Cobble*	١	Litter
Boulder**	١	Duff (Ferm.+ Humus)
Bedrock	\	Bryophyte- Lichen
* Gravel-Cobble = 1/16-10*	= 1/16-10°	Water
**Boulder *> 10 m	m	Bare Soil
*** >5 cm in diameter	ncter	RoedTrail
		Other

 Bridle
 Hiking sanctioned Bootleg unsanctioned

All Purpose

cord type and cover for each RAIL INFORMATION:

%Cover

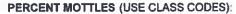
Grave!

Strata	Height Range (m)	100
Shrub	2 8	
Herb	5 2	
(Floating)*		Н
	r	

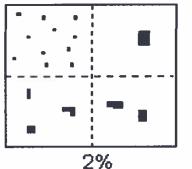
STAND SIZE	
a >600 x plot size	
a > 100 x plot size	
10-100 x plot size	
D 3-10 x plot size	
o 1-3 x plot size	
□ < plot size	

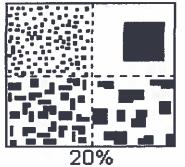
- < plot size	o 1-3 x plot size	0 3-10 x plot size	10-100 x plot size	a > 100 x plot size	a >600 x plot size	STAND SIZE	

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



Class	C	ode	Criteria: % of
Till i	Conv.	NASIS	Surface Area Covered
Few	f	#	< 2
Common	l c	#	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; e.g., (for Hills) nose slope or NS. Тептасез rise Hills tread NASIS PDP interfluve ΙF head slope HS nose slope NS NS SS SS side slope rise (S&W, 1908)

Hitstope - Profile Position (Hilstope 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.

shoulder backslope	SU SH 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.

(PJS 1000 advated from Rules 1975)

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.