CLEVELAND METI	ROPARKS Plant Community Assess						and Metropa	anks
Project Label:	PCAP	Plot	No: 13	540	Date Sampled: <u>&amp;</u>	/30_	Lead:	riller
					Comment required	if item answer	is NO	
Parking/Access outside	e of Park Boundaries:	Y B	lfy	es, write	details in Comment	s section belov	ıv .	
Field journals complete	ed	Y N						
Site sketch made on 1:		N (V)						
Check cover page	X-axis Bearing of plot recorded	N Q		1				
	GPS coords. Recorded	Q N						
	North direction recorded	(Y) N	1					
	Photographs taken?	(§) N						
Plot No., Date agreeme	ent on all pages?	(3) N						—
Header data completed	i all pages?	(3) V	1					
Cover classes recorded	in all Intensive modules	(v) N	1					
Browse Level By Spec	cies	N (Y)	1					
Woody stem quality co	ontrol check	(Y) N	1					
Invasive plant quality	control check	V V	1					
Ash trees mapped		N (V)	1		,			
Cover by Strata? (conf	îrm cover type)	<u>(V)</u> N	1					
Soil samples collected	with matching plot #.	(Ŷ) N	1					
Vouchers labeled on d	atasheet with initials and number	(V) N	1					$\longrightarrow$
Vouchers labeled on c	ollection bag	Y N	1					
Pink flags removed		Y N	1					
Data sheet QA before	leaving site?	(Y)	N.					
Common equipment re	eturned to tub.	Y N	1					
Data sheets scanned?		9-3-1	3 En	ter date to	oleft CL			
Final data sheets scann	ned?		En	ter date to				
Buffer Widths measur	ed?	V N	1	BB	6-28-13		<u></u>	
Web Soil Survey		(Y) N	1	CL	9-3-13			
Voucher Location	Refrigerator	YN	1					
( # vouchers collected)	Press (#)		En	ter numb	er to left			
JAM	Drier	Y N	<u>۷</u>					
246-	Identified	Y N	4					
249	Mounted	Y N	Ň					
411	Thrown away	Y	V .					
		~ 2000						
GRTS point verificat	tion: Is plot sampleable?							
Yes	Original GRTS point is sampleable							
□ No	Original GRTS point lands in a non-	sampleable ar	ea (fill i	categor	y below)			
	D Point falls in a water (i.e. river, l							
	Managed mowed area (i.e. golf	course, picnic are	ea, right-of	·way)				
	Paved area (i.e. parkinglot, road) Unsafe to sample (i.e. steep slope	0)						
	Unsale to sample (i.e. steep slope  Other							
Additional Comment	302 - ST - S							
P Data Quality Contr	ol 2011 vis last revised 6/20/2011	ceh			Natural Res	sources Man	gement For	m NR/

CLEVELAND METROPARKS Plant Community		Assessment Program - Background Data Sheet	leef			
Project Label:		Project Name (2) EC 2013	3	Plot No.:	1340	Page 2 of 2
MODIFIED NATURESERVE CLASS*		DISTUR	DISTURBANCES			
CODE (on separate form):	Fit=Conf=	type*	severity** yrs ago	o % of plot	description	
C & 3		Human	ν <sub>H</sub> 0	100%	rubioish	
		Natural				
COMMUNITY NAME:		Fire				
Beech-Maple	Beech-Maple, Jugar Maple	Cut	1			
	)	Animal	o I	1607	dear browse	
HOMOGENEITY		**L=low, N	L=med low. M=me	.d. MH≒med h	Ouer **L=low, ML=med low, M=med, MH=med high, H=high, VH=verv high	
☐ Homogeneous ☐ Compositional tr	□ Compositional trend across the plot	Current Land Use:	nd Use: CIMP			
Conspicuous inclusions     Irregular/pattern mosaic	mosaic	Former Land Use:	nd Use: UMK	V		
rolding.	HYDROLOGIC REGIME*					
manhote/sewer.	of Upland (seldom flooded)	□ Intermittently flooded	pa			
SALINITY*	☐ Intermittently/scasonally saturated	rated	looded			
D Saltwater	(seldom flooded)	□ Permanently flooded				
□ Brackish	□ Permanently/Semipermanent. saturated	saturated   Tidal/Seiche flooded daily	d daily			
□ Fresh	(dry <1/yr, seldom flooded)	□ Tidal/Seiche flooded monthly	d monthly			
►Upland (n/a)	□ Occasionally flooded (<1/yr)	□ Tidal/Sciche flooded irregular	d irregular			
	□ Temporarily flooded	(e.g. wind, storms)				
(by default unless plot is a wetland)		ם Unknown				
$\overline{}$	ss of plot to the stand, successional status, maturity, etc.)	al status, maturity, ctc.)				
steep super.						
		5				
						2

( think the Cohoshi **CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a** Strata - Cov. entire plot Cleveland Metroparks 5 Total modules: Project Label: S H (F)(A) Br K S Frazinys Moss Spp Frazinus 71 Sangtinania Acer spo Solidago Acer SYNO avex 390+1050 montiens **Br** = Browse Level. Use cover classes to describe amount of browse per species over eex this 1 aranditalic Sacchann aestivalis 900 Henroulis rivainia penns ylvanico Species entire plot seedling capensis Canadense ဂ Intensive modules: 4 %unveg. ground (bare soil) %unvegetated open water intensive module: Estimate for each %unveg. litter (bare litter) **₹ 3** Project name: O1 EC 7613 Voucher# 1247 %open water depth N N mod corner mod corner 2 0 opv depth h 1 N 1  $\boldsymbol{q}$ N cov | depth ¢ L O 7-لن Plot configuration: 8 depth mod comer mod 0 VQV ō C cov depth Plot no.: <u>)%4</u>ն W C C 3×1 8 9 depth depth Bom 0 cov | depth CO U 0 0 cov depth Z 1 5 Plot area (ha): 0.5 8 depth depth 300 Page O depth coher mod comer cov | depth 3 0 a 2 A00 ş depth depth mod 20

Š

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2aCM PCAP Species Cover Data sheet Page 1 of x\_ver 3.xls last revised 5/29/2012 ceh

1

Prunus wirdinama Serotina

Maianthemun

racomosa

raxinus pop

tumanuelis vivainiaso

PEXERS

des

seedling

in dera

penzain

5

Salizhagu

cassio

cemadansis

E

W

V

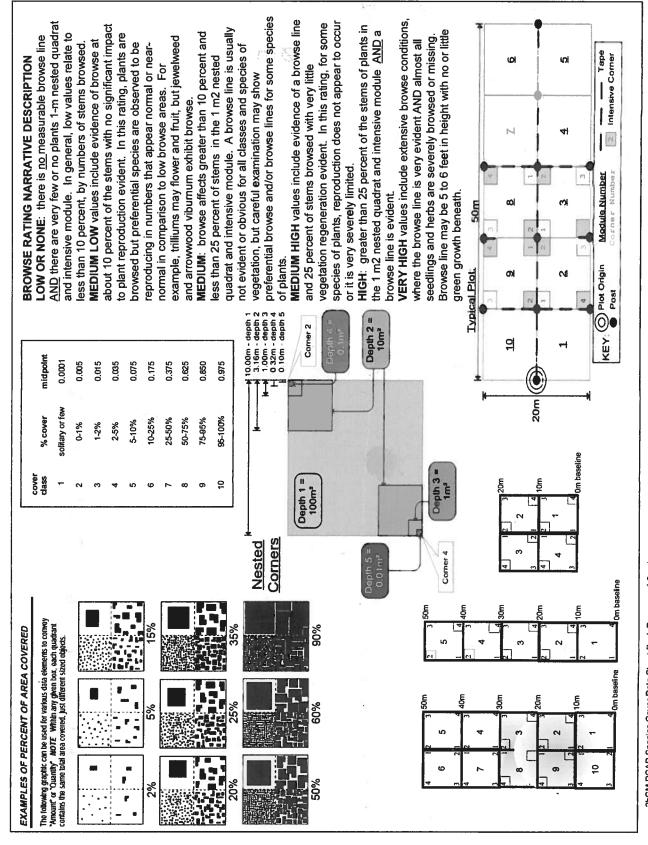
7

2

C

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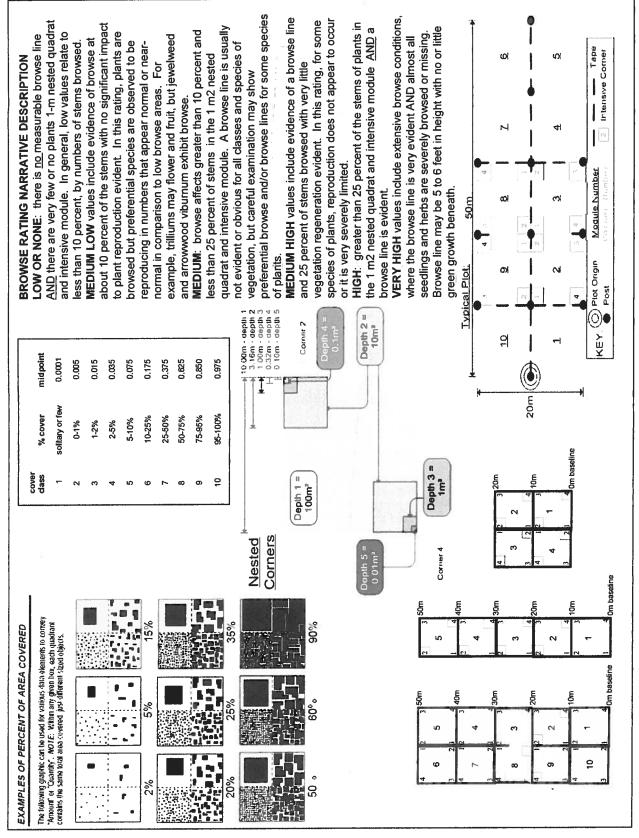
Natural Resource Management FORM NR/2010-02a



2bCM PCAP Species Cover Data Sheet Back Page\_ver 1.3.ppt

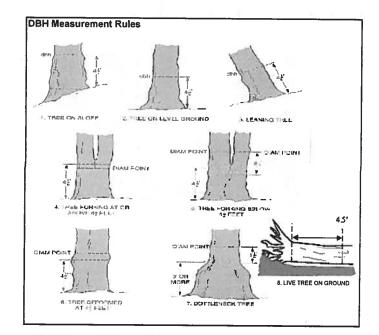
LEVELAND MET	LEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a	ent Program Speci	es Cover Data S	sheet 2a			Page 2	of Z	
Project Label:	PCAP	Project name:	61 Ec 2013	Plot configuration:	0. 1540	2	Blat arms (ha): O:5	1	-
•		Estimate for each	mod corner mod c	comer mod camer n	mod corner mod c	corner, mod corner	mod comer mod camer	π nod	comer
	Br = Browse Level. Use cover classes to	intensive module:	cov depth	COV	depth	cov depth cov	depth cov depth	cov depth	COV
Cleveland	describe amount of browse per species over	%open water						-	
•		%unveg. ground (bare soil)			_				Ш
trata - Cov. entire plot		%unveg, litter (bare litter)	<b>.</b>				1		
S H (F)(A) Br	Species	c Voucher#	depth cov depth	cov depth cav de	depth cov depth	cav depth cav	depth cov depth	cov depth	Ş
-1	Aster Ma	X JAM 248	-				72		
	5	4					121		
2	•		-			-	_	R	12
~	r							R	7
2	4	X JAM 249						Z	10
3	Ulmis amenitans	E TS	-					Ŗ	5
	द							R	
5.	01						5	PB	
					,				
,									
		70							
	2000					<u>.</u>			
					,				
							-		
		50000			Note	- I	FORM	NB/2010 02	
2aCM PCAP Species	2aCM PCAP Species Cover Data sheet Page 1 of x_ver 3.xls last revised 5/29/2012 ceh	5/29/2012 ceh			Natur	al Resource Mar	Natural Resource Management FORM NR/2010-02a	NR/2010-02a	

2aCM PCAP Species Cover Data sheet Page 1 of x\_ver 3.xls last revised 5/29/2012 ceh



2bCM PCAP Species Cover Data Sheet Back Page\_ver 1.3.ppt

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet d di P Standing dead Hamamela Vican Standing dead Standing dead Vits destivation Explain subsample (additional room on back) Hamamelis Virgini Acersackharum Order cus rubra Acer Saccharun Standing dead Traxique so. Isuga canadens Acer Saccharin Fagus grandibli Prunus serotico Hamainello Virgin Acer platanoides Lindera tentor Acer saccharun Standing dead Ummanerican lits aestralia sacchanum Project Label: ara PCAP ana voucher# # stems 0-1.4m browsed or super % sub Project Name: 01602013 clumps shrub \* Xo . size class (cm) woody stems >1.4m <u>수</u> X • .7 凶 1-<2.5 治 7 7 Z Plot No.: 1340 \*.° 7 0 5-<10 10 - <15 15 - <20 Ф 20 - <25 Page: 25 - <30 30 - <35 앜 Cleveland Netroparks 35 - <40 5 3 8.08 55.5 61.5 >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.
- 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

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.

23 23 2 20 19 18 17

25

12

10

ဖ

13

15

Tree ID.

Φ 5

	n/ Rapid response		PI	resenc	e	Prince to	GPS	
		NE	_	SW	-	v	G. S	Presenc
Microstegium vimineum	Japanese stiltgrass	$\top$						X: yes
Ranunculus ficaria	Lesser Celandine	$\top$						[X. YE3
	) Black Swallow-wort							
Butomus umbellatus (wetland	) Flowering Rush							
Heracleum mantegazzianum	Giant Hogweed				_			$\overline{}$
Tier 2: Assess	as Needed		# 0	f Plan	ts	C	omments	
		NE	SE	sw				# of Plan
Acer platanoides	Norway Maple		1					1: 1-10
Ailanthus altissima	Tree of Heaven				1			2: 11-50
Lonicera japonica (vine)	Japanese Honeysuckle							3: 51-10
Lythrum salicaria (wetland)	Purple Loosestrife			$\top$				4: 101-1,
Aegopodium podagraria (G-cover	Bishop's Goutweed				_			5: >1,00
Celastrus orbiculatus (vine)		$\top$	$\rightarrow$	_	+			[5: >1,00
Torilis sp.	Hedgeparsley		+	+	+-			
Conium maculatum	Poison Hemlock		+	+-	+-	+		$\dashv$
Rhamnus cathartica	Common Buckthorn (shrub)	1	+	+-	-			_
Berberis thunbergii	Japanese Barberry (shrub)	+	+-	+	+-	-		
Alnus glutinosa	European Alder	+	+-	+	+-	+		
Dipsacus laciniatus	Cut-leaf Teasel	-		+	+	<del> </del>		
laeagnus umbellata		-	+	+	+-	+		
onicera maackii	1-11.00	-	+-	+-	+-	-		
uonymus fortunei		<del>                                      </del>	+	+	-			
Tier 3: Presence i	Wintercreeper							
Her 3: Presence I	s of interest	-		Plant	7		mments	
Convallaria majalis (G-cover)	Lucia de la	NE	SE	SW	NW			# of Plant
	Lily of the Valley	-	╀.	_				1: 1-10
(0 00.01)	Crown Vetch	<u> </u>	$\perp$	-	<del> </del>			2: 11-50
leutherococcus pentaphyllus	Five-leaf Aralia (shrub)		_					3: 51-100
achysandra terminalis (G-cover)	Japanese Pachysandra			$\bot$				4: 101-1,0
hiladelphus coronarius	Mock Orange (shrub)							5: >1,00
ulmonaria officinalis (G-cover)	Lungwort							
ubus phoenicolasius	Wineberry							
	Yellow Flag Iris							
rnithogalum umbellatum	Star of Bethlehem							
iburnum opulus var. opulus	European Cranberry (shrub)							
iburnum plicatum	Doublefile Viburnum (shrub)							
Tier 4: Widespread a	and abundant		Pre	sence		COL	nments	
		NE	SE	sw	NW			# of Plants
liaria petiolata	Garlic Mustard							1: 1-10
gustrum vulgare	Common Privet (shrub)							2: 11-50.
morrowii, L. tatarica	Bush Honeysuckles (shrub)							3: 51-100
	Reed Canarygrass					<del></del>		4: 101-1,00
	Phragmites	4					<del></del> .	
	Japanese Knotweed	12			$\vdash$			5: >1,000
	Glossy Buckthorn (shrub)	_		_	<del>                                     </del>			-
	Multiflora Rose (shrub)		i		<del>                                     </del>			
	Cattails (wetland)		<del>                                     </del>					$\dashv$
rsium arvense	Canada thistle	3	-		$\vdash$			$\dashv$
	Common Teasel	<u> </u>	<del></del>		$\vdash \vdash$			_
	-0		<b>-</b>		-			_
	Dame's Rocket							

	wallands): rollariad		CTANIST BIOMACC (manifest for amounts tradingle): collected
Project Name: UICLXUIS	Project Name:	PCAP	Project Label: PCAP
CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface	munity Assessm	RKS Plant Com	CLEVELAND METROPA

Plot No .: 1340

@ Gleveland Metroparta Page: 1 of 1

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

Module #	C7	Comer Comer	Comer

CLASSIFICATION

□ SLOPE (ground water hydrology or on a physical slop) COASTAL (specify subclass) o RIVERINE o Headwater o Mainstem o Channel FRINGING o Reservoir o Natural Lake 1 Fi Fig F

o SHRUB o shrub swamp o tall sh. bog o tall sh. fen Conf=

(FIF = excellent g Fit and Confidence

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

IMPOUNDMENT D Beaver D Human DEPRESSION Conf-Conf-

BOG (strongly, moderately, weekly ombrotrophic) 7 Conf

# □ FOREST □ swamp forest □ bog forest □ forest seep □ EMERGENT □ marsh □ wet meadow □ open bog

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

anks for microhabitat features. Selectione 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°

Stope 3 = maximum steepness that can be safely sampled ~45°

Slope 1 = slight elevational grade across module (till)

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

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

-	_	-	_		_	_		_	-		-	_		~
				S	4	3	2	mod#						
							- Acres	corner						
				O	C	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	
					-	2	W	(count)	10x10m	depth 1		depressions	no macro.	
				4	6	10	16	(count)	10x10m	depth 1		(2-12 cm)	c.w.d	c.w.d count
				2	(V)	7	2	(count)	10x10m	depth 1		(12-40cm)	c,w,d	for pieces with
				0	0		0	(count)	10x10m	depth I		>40 cm	c.w.d	c.w.d count for pieces with minimum 1m length
				w	w	O	T	(rank)	10x10m	depth 1		interspers	microhab.	
				7	p	N	1	(rank)	10x10m	SLOPE			microhab	

Hydrogeomorphic class (WETLANDS ONLY):

Conf= Conf Conf-

+135 degrees

SE

local slopes For TSI measure angle from

eye of person standing ~10 m

recorders eye to

DA DY

+45 degrees +90 degrees

K

LFI is angle of plot to the angles formed by honzon TSI is

+225 degrees + 180 degrees

+270 degree

Ę SW

¥

Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):

Conf= Conf

\*\* Terrain Shape Index (site microtopographic shape) Landform Index (position within landscape) +315 degrees

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

1 2 2 2 3 1 2 3 1 3 1 3 1 3 1 3 1 3 1 3
A 2 0 1

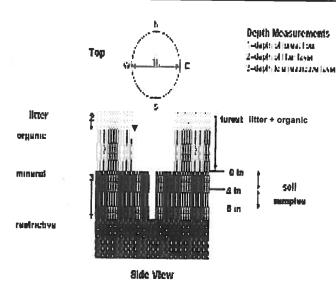
NOTE: tussock and hummocks are counted in BOTH nested quadrat corners but counts are aggregated.

## **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

<sup>\*\*\*</sup>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.



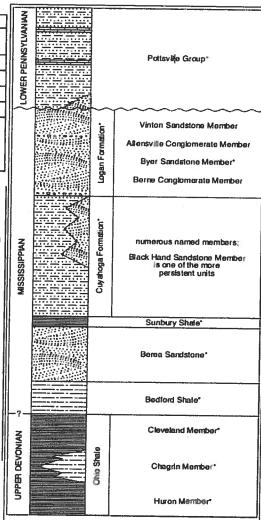


FIGURE 3-20.—Generalized section of Upper Devoman, Missesppian, and Lower Pennsylvanian formations in northeastern Ohio Asterisks indicate units that are feasiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Waverty" is used in the older literature to refer to Mississippian rocks in Ohio. Some geologists use the European term "Carboniferous," which encompasses the Mississippian 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 19 a spectacular massive sandstone that 18 fairly undespread but discontinuous See Hyde (1953). Hoover (1960), and Collins (1979) for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of rock types.

<sup>\*\*</sup>Can also include seedlings of shrubs, i.e. all shrubs <0.5m

Page: 1 of 1

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

Soil pit module # 3 (one per entire plot)

20 cm 5 cm matrix color 1018312 lexture\* matrix color hydro. cond.\*\*\* redox features\*\* texture\* oxid roots ydr. cond \*\*\* edox features\*\* xid roots monde ottle color mottle ortle color 10YR たのと D VO V I S M (D) I S M GZ 2 2 z

refer to texture classes on reverse side

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

record as >30

Notes: include evidence of earthworms (worms, Circle one \*\* e.g. hydrogen sulfide odor, gleying, etc. indundated S=saturated M=moist D=dry

Success found @ least 's Castings covered plot, astings, middens)

> N mod#

<sub>U</sub> (CIII)

w S

730

30

organic depth ! litter+

water depth

depth (cm) 2 litter

(cm)

soil (cm) depth sat

W

0

300

730

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

Parent Material: Cesiduum weath ered for	DRAINAGE*	DRAINAGE <sup>4</sup> □ Somewhat excessively	-
--	-----------	--	---

EARTH SURFACE & GROUND COVER	CE & GROUP	ND COVER	
Underlying Earth Surface*	Surface*	Ground Cover	
(Sum = 100%)	percent	(Einth ≤ 100%)	percent
Histosol	0	Coarse Woody Debris***	15
Mineral Soil	56	Fine Woody Debris****	一件
Gravel-Cobble*	9	Litter	75%.
Boulder**	0	Duff (Ferm. + Humus)	1.
Bedrock	0	Bryophyte- Lichen	1 %
* Gravel-Cobble = 1/16-10"	= 1/16-10"	Water	1
**Boulder = > 10 in	5	Bare Soil	15%
shale *** >5 cm in diameter	neter	Road/Trail	1
**** <5 cm in diameter	meter	Other	l

	COVER BY STRATA estimate using midpoin	COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13	ex:3, 8, 13
	Strata	Height Range (m)	Total Cover (%)
	Tree	76	98%
	Shrub	0.5.5	48%
	Herb	€ 0.5	3%
	(Floating)*	N/A	N/A
	(Aquatic)*	N/A	NA
	• rooted and the	<ul> <li>rooted and floating or slightly emersed</li> </ul>	sed
1	** submersed,	** submersed, most plant mass below surface	w surface

30-100 x plot size > 100 x plot size

3-10 x plot size 1-3 x plot size

< plot size

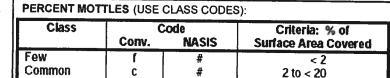
STAND SIZE

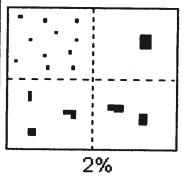
>600 x plot size

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

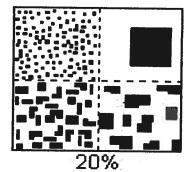
COVER BY STRATA estimate using midpoi	COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13	ex:3, 8, 13
Strata	Height Range (m)	Total Cover (%)
Tree	76	98%
Shrub	0.5.5	48%
Herb	€ 0.5	3%
(Floating)*	N/A	N/A
(Aquatic)*	N/A	N/A
• rooted and fi	rooted and floating or slightly emersed	sed
** submersed,	** submersed, most plant mass below surface	w surface
SEE BACK OF DESCRIPTION	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.

Natural
Resources
Mangement
FORM
VR/2010-06a





Many



≥ 20

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

0= Organic

1= Loamy

2= Clayey

3= Sandy

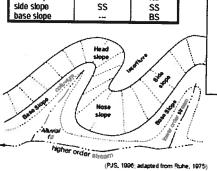
4= Coarse Sand

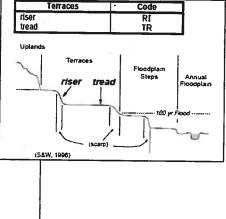
9= Not measured - make plot note

Position

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

m





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

shoulder backslope footslope toeslope	SH BS FS TS		
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(PJQ, 1996; adapted from Ruhe, 1	Alluvkum	/	

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 .

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