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CLEVELAND METROPARKS Plant Cor	CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	SERVICE SECUL AUTHOR SPORTS THINKS
GENERAL INFORMATION	LOCATION	S offer in the
Project Label: PCAP	State: OH County: Luyahosa	
Project Name: 02NC2015	angle:	
Plot Name: Two Tougs	Local Place Names: Balow the We High	3 4 3 4
Plot No.: 1044	Landowner:	84
 Level 4 (no nested corners sampled) 	Data Confidentiality:	2 12
■ Level 5 (nested corners sampled)	Check one: Deblic data Derivate Data	ţ3
Date (mm/dd/yyyy): 7/16/2015	□ Fuzz 100m □ Fuzz 250m □ Fuzz 500m	15
End date (if > 1 day): / /	Reason:	
Party Role**	If data not public why?	key: (0,0) point point with direction permanent posts
S. F. Stabach Plot leader	Source of coordinates DMAP GPS	content), Rationale (why here), and Veg Characterization (description of community,
O. Sweet	Coordinate system: Coord. Units	dominants, strata, BROWSE). Additional notes in space on back.
	■ Lat/Long o UTM o StatePlane ■ deg o deg min	16.001 7x5
E. Knauss	□ Other (specify)	Eaglest . L.
	Datum: ■ NAD83/WGS84 □ NAD27	Location: Party on arrival pull off mone stoo
** Roles: Co-leader, Assa., Guide, Owner, Taxonomist, etc.	GPS location in plot $x=0$ to 5, $y=-1,0,+1$):	Control of State Delight (See 1)
PLOT NOT SAMPLED: - Other	x = 0 $y = 0$ (base of plot $x=0$, $y=0$)	sign on Up and Unit Wilk along
n Perm. water o Paved o Slope o Safety	Latitude: 41, 56 145	You North until woods to the know
SAMPLING QUALITY*	Langitude: 81. 41309	Cut in Thom
Effort Level: subjective evaluation of	Coord. Accuracy: Vm o ft +- 3	
thorough how much effort put into	GPS File Name: 1044A	Rationale. (SRTS rosample
Accurate may still provide good	Plot size for cover data: (hectares)	(
- Hurried data	X-axis Bearing of plot: [184]	
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high / modera. low not smpl	Intensive modules: 2, 3, 8, 9 (EDIT IF MODIFIED	Carlota Cocas III
bryo	Photo Nes.: (L-1410)	Short Verm departurate - 101 Copies
lichen V	Plot placement: WARTS Representative	
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Authority: G&C Pub Date: 1998	□ Systematic (grid) □ Capture specific feature □ Other	1400
Minimum required fields in Bold and Underlined	*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide	CVS Field Guide Juckin Pulpit OVER
		Wimitiliain and oright spouts

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet PCAP Project Label: PCAP PCAP	nmunity Assessment Prog	ram - Backgrour Project Name:	nd Data S	heet W15		Plot No.:	Plot No.: 1044	(Actumtumitations) Page 2 of 2
MODIFIED NATURESERVE CLASS*			DISTU	DISTURBANCES				
CODE (on separate form):	Fit=Conf=		type*	severity**	yrs ago % of plot	% of plot	description	
C			Нитап					
COMMITTED NAME:			Natura					
			2 -					
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HOMOGENEITY			**L=low.	NL=med low	M-med.	MI-I-med h	Other V+K / / // / // / / // / // // // // // //	very high
	Compositional trend across the plot		Current Land Use:	and Use:				
nclusions	п тоѕаіс	ACT TO SERVICE AND ADDRESS OF THE PERSON NAMED IN	Former Land Use:	and Use:				
	HYDROLOGIC REGIME*	E*						
	syUpland (seldom flooded)	п Intem	□ Intermittently flooded	pape				
SALINITY*	□ Intermittently/seasonally saturated		☐ Semipermanently flooded	flooded				
D Saltwater	(seldom flooded)	D Permi	Dermanently flooded	ded	2000			
o Brackish	Demanently/Semipermanent. saturated		☐ Tidal/Seiche flooded daily	ded daily				
o Fresh	(dry <1/yr, seldom flooded)	D Tidal	Seiche floo	n Tidal/Seiche flooded monthly				
d Mpland (n/a)	□ Occasionally flooded (<1/yr)	□ Tidal	Seiche floo	□ Tidal/Seiche flooded irregular				
	a Temporarily flooded	(e.g.	(e.g. wind, storms)	(5)				•
(by default unless plot is a wetland)		a Unknown	own		2000			
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)	ess of plot to the stand, successiona	l status, maturity, etc	o o					
- Plotis highly	affection from	LVICANO!	earth	JUBI MS	15	sof	astings	and the
Last Utley	leaf wither has been reduced to twigs !	to do to	Nigs				2	
No herb	merens or shrub	(aux - 1	ر المرام 1879ء	Jo les	40			1 6. 40
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JOM JULY MOS	INS MANY INTIN	21150 + 120 -			Se te	V0(
- Many of the Shr	rubs have penishee	- possible	y sha	led ou	0	なった	eduba c	of Geof (1412)
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Project Label:	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Project Label: PCAP Project Label: 02 NL 2015	nent Program Species Cover Project name: 02 NL	s Cover Data Sh	heet Plot no.:	1044		Page 1	<u>e</u>
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		%unveg. ground (bare soil)	-1	- 8	-		00	
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CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet

Project Label: PCAP Project Label: 92,000 Plot no.: 2044 Strata - Cov. entire plot % COVER 뫄 Ó 10. O 0 Acer Dridendon tilipitera Drunus Septira VIHS aestavalis での名 Dyssa Acer rubrum Soccharyn Species Sylvatica Densylvanicis Prensence of tree mod mad species (X) 2 3 Voucher # Dom O Page 1

% COVER Strata - Cov. entire plot T Br										
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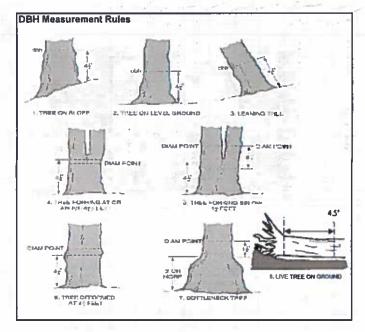
CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 4 Stanoing dead My Stansing dead Ulmus unusicona-Pluns weather Add socherum 11:4% astivalis Sees satisfaction STANZIMI Explain subsample (additional room on back) Ligustry on VV) gare Par multision Ulmus amaicava Vitis aestivation V.t.5 alstivelis Red was Vitis aestimalis Vitis austivatis ALL SALLANDS IN Prints Station CHIBARNOS Julgitha Circanana tolipia Sollhorm 5 will are multigle a Kos Project Label: voucher# # stems i 0-1.4m or super % sub Project Name: DZN CZOIS shrub size class (cm) woody stems >1.4m 2 1-<2.5 2.5-<5 Plot No :: 1044 × 5-<10 10-<15 Page: 25 - < 30 30 - <35 잌 Ocieveland Metropaiks 35 - <40 46.1,57.0 >40 (record sach tree)

ACM PCAP Natural Woody Stem Data Sheet ver 2.0.xls last revised 5/29/2012 jim

Natural Resources Management FORM NR/2010-03a







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.

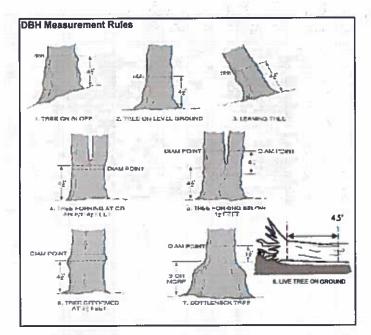


ASH CANOPY BREAKUP CONDITION (for dead trees):

(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.

newsires about to Shanding dead 6 10th Strinding acod 3aCM PCAP Natural Woody Stem Data Sheet ver 2.0.xls last rev CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 17 No blance presen 6 Ulmus american that suchasian Standing Lad Stanzing Des Obytop Nyssa sylvatile Vitis austivalis Explain subsample (additional room on back): Acel succhasium ALLY WAYN Rel Succhaium Str wairin Pell Sacchairm Ruly Suchasium Rosa multisloan Ulmus americane Lirioxnovan tolipiter Lividences tolipita standing dead Ciriosendron Mipider i liodend on thinks multidiosa Leas. Project Label: 0 voucher# 0-1,4m sed 5/29/2012 jim or super % sub Project Name: 62NC2015 size class (cm) woody stems >1.4m 7 1-<2.5 2.5-<5 Plot No .: 1047 5-<10 口 10-<15 15-<20 20 - <25 tural Resources Mahagement FORM NR/2010-03a Page: 30 - <35 Cierciand Metroparks 35 - <40 5 25.2,57.57 10.0,57.5,57.0 55.5,57. 25. >40 (record each tree) Livi Barve vor



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- 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.

Natural Resources Management FORM 2010-04a

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

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey

Tier 1: Early detection	Rapid response		Li.	Pre	sence	بالهوا	GPS	
			NE	SE	SW	NW		Presence
Microstegium vimineum	Japanese stiltgrass							X: yes
Ranunculus ficaria	Lesser Celandine	00						
ynanchum louiseae (vine)	Black Swallow-wort							7
	Flowering Rush					-6		7
leracleum mantegazzianum	Giant Hogweed							7
Tier 2: Assess a				# of	Plants		comments	
			NE	SE	sw	NW		# of Plants
Acer platanoides	Norway Maple				1			1: 1-10
Allanthus altissima	Tree of Heaven							2: 11-50.
onicera japonica (vine)	Japanese Honeysuckle							3: 51-100
ythrum salicaria (wetland)	Purple Loosestrife							4: 101-1,00
Aegopodium podagraria (G-cover)	Bishop's Goutweed			1	1			5: >1,000
Celastrus orbiculatus (vine)	Asian Bittersweet	_		+	-	 	<u>.</u>	1
	Hedgeparsley			 	_			1
Forilis sp. Conium maculatum	Poison Hemlock			+	\vdash	 		1
	Common Buckthorn	(shrub)	 	1	 	 		1
Rhamnus cathartica		(shrub)	 	+	-			1
Berberis thunbergii	Japanese Barberry	(Sinus)	 	+	+			1
Alnus glutinosa	European Alder		-		+			┪
Dipsacus laciniatus	Cut-leaf Teasel	(alacush)						┨
laeagnus umbellata	Autumn Olive	(shrub)		-	-			-
onicera maackii	Amur Honeysuckle	(shrub)	<u> </u>	-	├─	-		-
Euonymus fortunei	Wintercreeper				21 4		Company and the Company of the Compa	-
Tier 3: Presence i	s of Interest		NE	# OT	Plants	NW	comments	# of Plants
	lette - Cat - Mallan		NE) DE	DAA	TAY I		1: 1-10
	Lily of the Valley		\vdash	-	-	╀		2: 11-50.
Coronilla varia (G-cover)		/-ll-1	├	+	+	++		3: 51-100
Eleutherococcus pentaphyllus	Five-leaf Aralia	(shrub)		-		╂		4: 101-1,00
	Japanese Pachysandra		├	┥─	-			5: >1,000
Philadelphus coronarius	Mock Orange	(shrub)	⊢	┼-	+-	 	.	3: >1,000
Pulmonaria officinalis (G-cover)			-		+	-	<u> </u>	
Rubus phoenicolasius	Wineberry		ļ	+	┼	-	 	-{
ris pseudacorus (wetland)			-	+	┼			-
Ornithogalum umbellatum	Star of Bethlehem		-	+	+	\vdash		4
Viburnum opulus var. opulus	European Cranberry		╄		₩		<u>.</u>	-
Viburnum plicatum	Doublefile Viburnum	(shrub)	-					-
Tier 4: Widespread	and abundant	20			sence		comments	ii e Nese
	I was	11345	NE	SE	SW	NW		# of Plants
Alliaria petiolata	Garlic Mustard		-	+-	-	1	<u> </u>	1: 1-10
Ligustrum vulgare	Common Privet	(shrub)	1	╄-	+	 		2: 11-50.
L. morrowii, L. tatarica	Bush Honeysuckles	(shrub)	_	1		+		3: 51-100
Phalaris arundinacea	Reed Canarygrass		_	4		+		4: 101-1,00
Phragmites australis (wetland)	Phragmites		 -	-	╄	1	<u> </u>	5: >1,000
Polygonum cuspidatum	Japanese Knotweed		_	\bot	<u> </u>			_
Frangula alnus	Glossy Buckthorn	(shrub)						_
	Multiflora Rose	(shrub)						_
Rosa multiflora	A	1						_
	Cattails (wetland)		_					
Typha angustifolia, T. x.glauca Cirsium arvense	Cattails (wetland) Canada thistle	-						╛
Typha angustifolia, T. x.glauca Cirsium arvense								_
Typha angustifolia, T. x.glauca	Canada thistle							

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

Ē	Project Label: PCAP Project Name: 02NClor5 Plot No.: 1	P	PCAP	_ Proje	Project Name: DZNCCo 15	02NC	to 15	gails Da	Plot No.:	1044			Page	Cleveland Metroparks		1 10
			##	size class (cm) woody stems >1m	cm) woody	stems >1m					_ _			1	- []	\parallel
mod #	species	voucher#	shrub	<u>7</u> -	1-62.5	2.5-<5	5-<10	5 10 - <15	6 15 - <20	7 20 - <25	8 25-<30		9 30 - <35	35 - <40	ο.	11 11 240 (record each tree)
	Abre Present															
2											-					
ω											_					
4													in a			
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6																
7								- 5								
œ						The second second										
9																
10																
											-					\vdash
. <u>.</u>	* IF EVIDENCE OF PEST OR PATHOGEN RECORD TOTAL SPECIES POPULATION IN THE PLOT EVEN	ATHOGEN	RECORD TO	TAL SPEC	IES POP	ULATIO	N IN TH	E PLOT		THE NOT INFECTED	를	E	TED			
	Strafa	or stem	Severity (H,M, or L)		* Write None Present if no evidence:	ione Pre	sent if	no evide	nce:						2	
	Tree (size class 3 or above)				June.		Beech (Fungus)	ungus)		home			Acian	Asian I onghomed Reatle	5	1
						ı		,			ľ		7910111	4	- 2	Ē

SRE_
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PCAP
Forest
st Pest
3
d Pathogen
Data.xls
ast
revised
7/2/2015
<u></u>

Medium = Less than 50% of leaf/needle cover exhibiting symptoms High = more than 50% of leaffneedle cover exhibiting symptoms

Low = Only a few leaves or branches are exhibiting symptoms

Severity

(size class 2 or below including shrub clumps)

Hemlock (HWA)

home

Other Pest or Pathogen

___Walnut (Thousand Canker)

Shrub

Project Label: PCAP Project Name: 62NC2015	PCAP	Pn	yect Name:	Project Name: BZNCZ015	
STANDING BIOMASS (required for emergent wetlands) collected in (I Im clip plots (32x32 cm) from cornect 1 and 3 in each intensive module. Required for VIBI-E score calculation. CT-sheek when	red for emerge on corners 1 an	al wedan d 3 in each Ci-check	is) collected intensive when		
Module #	C7	Comer Comer	Comer	(FIT = cuelle	(FIT = carelleat p Fit and Confidence
		19		Ниференци	CLING SQNVILLAM) step signamossospaH
				n DEPRESSION	ION
792		53		a IMPOUNT	d IMPOUNDMENT to Beaver to Human
		-			

MOINO 1047

Page: 1 of 1

CLASSIFICATION (FIT = carellent, g Fit and Confidence		
Hydromerahik dass (WETLANDS ONLY):		10% 201
 n DEPRESSION	<u> </u>	Conf-
 a IMPOUNDMENT a Beaver a Human	- - -	Conf=
 n RIVERINE in Headwater in Mainstern in Channel	=	Conf=
a SLOPE (pound water by drology or on a physical slop)	Fig.	Conf=
o FRINGING o Reservoir o Natural Lake	# F	Conf ²
a COASTAL (specify subclass)	Fic=	Conf
n BOG (strongly, moderately, weekly ombrotrophic)	Fitz	Confr
Obie EPA VIBI Fignt Community Class (WETLANDS ONLY):	CATING	
o FOREST a swamp forest a bog forest a forest seep to ENERGENT a mush a wet mendow a open bog	F F	Conf.
o SHRUB or shrub swamp or call sh. bog to call sh. fen	7	Confe

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

10 feature is present in moderate or greater amounts and of highest quality C.W.d Count for pieces with minimum 1m langth	alure is abset alure is prese slure is prese	nt or functions and in the wette and in moderate	feature is absent or functionally absent from the wedand feature is present in the wedand in very small amounts o feature is present in moderate amounts, but not of highe	feature is absent or functionally absent from the welfand feature is present in the welfand 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	on, of low quality small amounts of high	Atgent days				
100 100	vature is presi	ent in modera	te or greater amount	and of highest quality		c.w.d count	for pieces with	minimum 1m length		
tussocks hummocks depressions (2-12 cm) (12-40 cm) >40 cm into			no. of	no. of	no. macro.	e acq	cw.d	cwd		microhab.
			tussocks	hummocks	depressions	(2-12 cm)	(12-40cm)	>40 cm	interspers.	
depth 3 depth 2 depth 1 dept				uplands (Tip-Ups)			No.			
Cormer Count) C			depth 3	depth 2	depth 1	depth 1	depth (depth 1	depth (SLOPE
County C	-		ixim	3,16x3 16m	10x10m	the state of the s	10x10m	10:10:0	10x10m	10x10m
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0 0 7 1 0	ø		6	0	٦	10	ک	0	2	
	^		a	0	0	15	_	0	1	100
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CROWN COVER (DENSIOMETER), Make 4 readings per module facing N, S, E, W. Place dot count in contribunding space. (4 dots per grid square)	
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W P	
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NOTE: basock and hummocks are counted in BOTH nested quadrat corners but counts are aggregated.

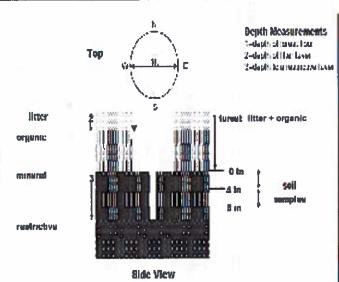
	STR	

OUTER DI GILLARIA	
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.



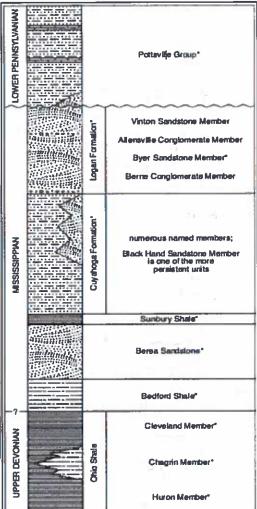


FIGURE 3-20.—Generalized section of Upper Devonian, Mississippian, and Lower Permaylvanian formations in northeastern Ohio. Asteriaks indicate units that are feasiliferous. This composite section represents about 400 meters of rick exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Waverly" is used in the older literature to refer to Mississippian rocks in Ohio. Some geologists use the European term "Carbonistrous," which encompasses the Mississippian and Permayivanian 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 measure 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 3-18 for explanation of rock types.

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a Project label: PCAP Project Name: DZNC20 (5 Plot No.: 1044

(E) Citerreland Methoparies

Page: 1 of 1

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

Soil pit module # ____ (one per entire piot)

20 cm 5 cm matrix color matrix color redox features** hydr cond. oxid roots mid roots edox features** mottle ottle color ottle color S M D z

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

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

Notes: include evidence of earthworms (worms undundated S-saturated M-most D-dry

2- middons i cassings, C-casting - cuanny - middens or sont indens present & when present fussis 6 willy

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

Soil Series/Type: Soil Series/Type: Soil Series/Type: Soil Survey Landform type: Depth to rest. Layer: Parent Material: Parent Material: Parent Material: Depth to rest. Layer: Depth to rest. Layer	Veb Sell Survey Informations	2,3,8,9 composited	Soil Collection Modul Herizen (A. B. C)
--	------------------------------	--------------------	---

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0.1 cm in center of intensive modules. If >30.5 cm,

ecord as >30

9	04	W	7	mod#
0.2	6.2	0.2	6,2	1 litter+ organic depth (cm)
0,2	5.0	0,2	0.2	2 litter depth (cm)
0	0	0	6	water depth (cm)
0	0	0	6	depth sat soil (cm)

EARTH SURFACE & GROUND COVER	CE & GROU	ND COVER	
Underlying Earth Surface*	Surface*	Ground Cover	
(Num - 100%)	percent	(Each < 100%)	percent
Histosol	0	Coarse Woody Debris***	W
Mineral Soil	100	Fine Woody Debris****	4
Gravel-Cobble*	0	Litter	8
Boulder**	0	Duff (Ferm.+ Humus)	0
Bedrock	0	Bryophyte-Lichen	
• Gravel-Cobble = 1/16-10*	1/16-10*	Water	0
**Boulder = > 10 in	5	Bare Soil	8
•••>5 cm in diameter	icter	Road/Trail	0
**** <5 cm in diameter	meter	Other	

ype

%Cover

scord type and cover for each TRAIL INFORMATION:

All Purpose

Bridle Hiking sanctioned

Bootleg unsanctioned

Gravel

2010	Transport transport	TALL LONG CONTROL
Tree	75	93
Shrub	5.5	90
Herb	2.5.	W
(Floating)*		
(Aquatic)*		8

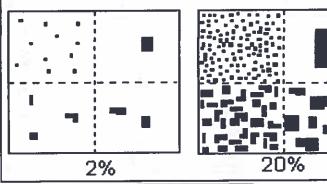
< plot size	1-3 x plot size	3-10 x plot size	10-100 x plot size	> 100 x plot size	>600 x plot size	TAND SIZE
	H					

8aCM PCAP Soils_Crown cover_Landform_Standing Biomass_Data Sheet_ver 3.rds last revised 6/4/2012 och

DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.



Class	C	ode	Criteria: % of
	Conv.	NASIS	Surface Area Covered
Few	f	#	< 2
Common	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.

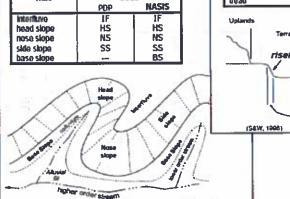
- 0= Organic
- 1= Loamy
- 2= Clayey
- 3= Sandy
- 4= Coarse Sand
- 9= Not measured make plot note

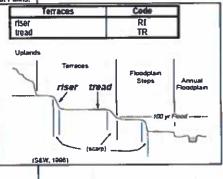
Position

shoulder

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) nase slape or NS.





Hillstope - Profile Position (Hillstope Position in PDP) - Twodimensional descriptors of parts of line segments (i.e., stope position) along a transect that runs up and down the stope; e.g., backstope or 85. This is best applied to transects or points, not areas.

SU

tackslope footslope toeslopa	BS FS TS		
Su Sh Bs		Sh .	Su .
	F9 79 65 79 1		
(P.JS., 1994; accepted from those;	Allertum	9.7	

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

UPLAND: Not a wetland. Very rarely flooded.

PJS, 1996;

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.