Project Label:	FROPARKS Plant Community Asset			Quality Control Form Claveland Metroparks: 1074 Date Sampled: 8(3)15 Lead: CKW
		ares area		Comment required if item answer is NO
Parking/Access outsi	de of Park Boundaries:	(A)	N	If yes, write details in Comments section below
Field journals compl	eted	Y	N	- 1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (
Site sketch made on		(Y)	N	
Check cover page	X-axis Bearing of plot recorded	0	N	
	GPS coords. Recorded	(Y)	N	
	North direction recorded	0	N	
	Photographs taken?	Q	N	
	Relocated Pins Mapped	(A)	N	
Plot No., Date agreer	nent on all pages?	(Y)	N	- ACAC
Header data complet		(Ŷ)	N	2,0024
	ed in all Intensive modules	(2)	N	() St. Section 1
Browse Level By Sp	ecies	W	N	
Woody stem quality		(0)	N	Check every line and cross check with the Tree Cover Sheet
invasive plant quality		Y	N	NA
Ash trees mapped	- C	(N	N	
	st/Pathogen Datasheet	(3)	N	
Cover by Strata? (co	nfirm cover type)	(2)	N	VET 2: 1084
	ed with matching plot #.	Y	N	NA
Cross check 2010 in:	formation	(V)	N	Highlight any changes from 2010 information
	datasheet with initials and number	Y	N	
Vouchers labeled on		10	N	
Pink flags removed		10	N	. (0)
Data sheet QA before	e leaving site?	Y	N	
Common equipment		Y	N	
Data sheets scanned?		Ş		Enter date to left
Final data sheets scanned?				Enter date to left
Buffer Widths measi	CONTRACTOR OF THE PARTY OF THE	Y	N.	
Web Soil Survey		Y	N	
Voucher Location	Refrigerator	Y	N	
(# vouchers collected)	Press (#)			Enter number to left
CKM 307-		Y	N	
217	Identified	Y	N	
315	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, take)
	Managed mowed area (i.e. golf course, picnic area, right-of-way)
	Paved area (i.e. parkinglot, road)
	Unsafe to sample (i.e. steep slope)
	D Other

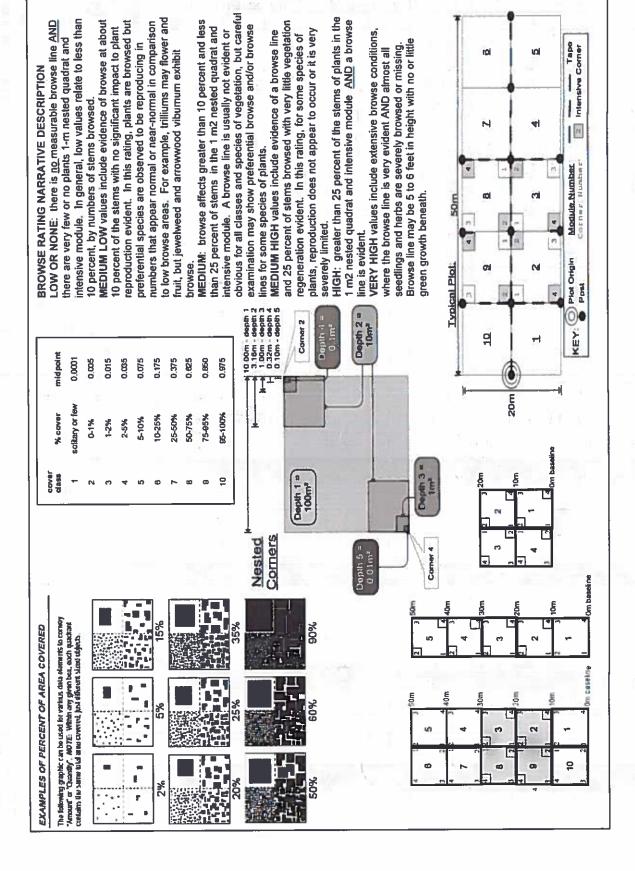
Foundall pins, might have parked on Airport property? Near intersection of Rule and Spatford-Paved road beside fenced runway light.

PCAP Data Quality Control 2015.xis last revised 6/10/2015 ceh

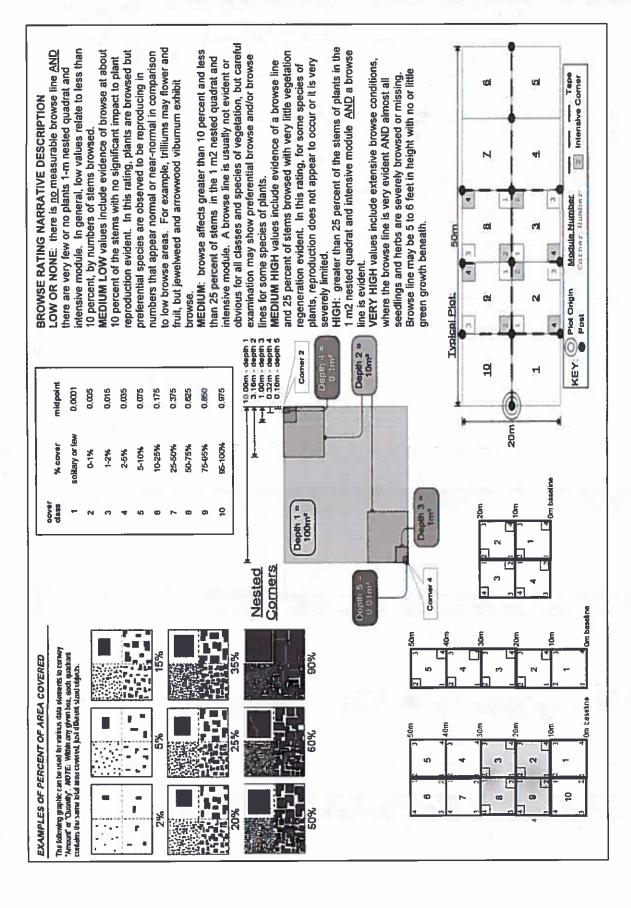
Natural Resources Mangement Form NR/2011

Last data sheet said recycling area which is closer but small and a truck pulled in as we left.

	Project Label: Total modules:	Project Label: PCAP Project name: 02 RR 2C Protal modules: Intensive modules: Plot	Project name: Project name: Intensive modules:	OZRR ZO		Plot configuration:
				mod comer mod	3	
	<u> </u>		Estimate for each	W	†-	
	4	Br = Browse Level. Use cover classes to	7	depth cov	- 4	depth cov depth cov depth
	Metroparks	describe amount of browse per species over entire plot	%unvenerated open water	0	Tì	
			%unveg. ground (bare soil)	9		
	Strata - Cov. entire plot	St.	%unveg. litter (bare litter)	1 7	Ħ	
	S H (F)(A) Br		c Voucher#	∌	cov dep	
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Sylves 1	100	Philipping to de	الل	I	E B	53
Catalog Sand		Pouzeat # 2 Fest wed miced	POS WAY	I	13 2	16 2
Twa Awastra	7	#3	X CKM316		2	2
THOT'IN OWNER 3	7	DITTE CON ACT	41	W	2	
	4	188		1	_	_
	. 2	Acer sp. (seedling)	St-71-21 33S	N	22	
Aster vingediate	1	cae 1	CKM3II	N	4 2	4 2
	2	RHAMNUS FRANGULA		N	2	2
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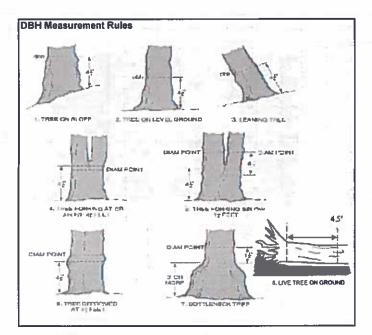
	Project Label:	CLEVELAND METROPARKS Plant Community Assessment Project name: 02 8 8 2015 Project Label:	ment Program Speck Project name:	es Co	RR 2015	ata s	heet	P	Plot no .		1074				70	age	Page ∠ of _	01	
	Total modules:		Intensive modules:	H) (2)	Plot configuration:	ration	٦	1.00	*	X		Plot	Plot area (ha):	(ha):		10	
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	Cleveland	describe amount of browse per species over	%open water	1		-		100			-				1				
	Metroparks	entire plot	%unvegetated open water	1			1			200	1				1				
			%unveg. ground (bare soil)	1			_				_	-20							
	10		%unveg. litter (bare litter)	_				t	h		_		i					Sections	1
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	G	Robinia pseudoacacia			\ <u>\</u>		Ti.					F	-	N					
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	57	Acer saccharum	1100		6	11	-2			9	1			W					211
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Strata - Cov. entire plot % COVER CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Project Label: 막 Fasinos and incorp U) mus (vor-Pastulaci Sus quinaxiois Aur Succharum from s smatim Species Prensence of tree mod mod mod species (X) Project name: 02 8 8 20 15 Plot no.: 107 4 Voucher# × × × × Page _

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Plant Community Assessment Program Tree Cover Data Sheet PCAP Project pame: 02K 2005 F			1			\																			
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CLEVELAND METROPARKS Project Label:		Cov. en	ģ																						
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	1 13	9,	2	- 4	12	M	7					103(1000							V				_	

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Ulmus rubia-Prinis Secotion 2 obinio- oscubosco RUV reguirdo Pasting cuesison which ALLY SAUCHOLUM Quellus ondo-so. Rose on Hillow Explain subsample (additional room on back): Standing dead TID-XINUS AMERICANO Project Label: PCAP CKM307 voucher# 0-1.4m or super Project Name: 62 2 2 2015 shrub # size class (cm) woody stems >1.4m H <u>7</u> . . 1-<2.5 M Plot No.: 1077 B 5~10 Ц 10-<15 15 - < 20 20 - <25 Page: 25 - <30 30 - <35 오 Cleveland Netroparks 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

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.

Natural Resources Management FORM 2010-04a

The Scascos State of the Character Class (Fig. 2) (Ash. Classes of the Character Chara
ASH Only Baseline
ASH Only Baseline
ASH Only Baseline
E) ASH Only Baseline
ASHONIV ASHONIV Nodes Exemples Present Nodes Nodes Present Nodes Present Nodes Nodes Present Nodes Nod
ASHONIV ASHONIV Nodes Epicomic Woodpecter holes Nodes Present holes Nodes Present Nodes Nodes Present Nodes
Baseline Baseline
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Baseline Baseline
Baseline *** Change intensive m Ap all ash trees > 0cm
1 7 1

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey Cleveland Metroparks **GPS** Tier 1: Early detection/ Rapid response Presence Presence NE SE SW NW X: yes Microstegium vimineum Japanese stiltgrass Lesser Celandine Ranunculus ficaria Cynanchum Iouiseae (vine) Black Swallow-wort (wetland) Flowering Rush Butomus umbellatus Giant Hogweed Heracleum mantegazzianum Tier 2: Assess as Needed # of Plants comments # of Plants SW NW NE SE 1: 1-10 Norway Maple Acer platanoides 2; 11-50. Tree of Heaven Ailanthus altissima 3: 51-100 Lonicera japonica (vine) Japanese Honeysuckle 4: 101-1.000 **Purple Loosestrife** (wetland) Lythrum salicaria >1,000 Aegopodium podagraria (G-cover) Bishop's Goutweed Celastrus orbiculatus (vine) **Asian Bittersweet** Hedgeparsley Torilis sp. Conium maculatum Poison Hemlock Common Buckthorn (shrub) Rhamnus cathartica Japanese Barberry (shrub) Berberis thunbergii Alnus glutinosa European Alder Dipsacus laciniatus **Cut-leaf Teasel** Autumn Olive (shrub) Elaeagnus umbellata Amur Honeysuckle (shrub) Lonicera maackii **Euonymus fortunei** Wintercreeper # of Plants comments Tier 3: Presence is of interest NW # of Plants SW NE 1-10 (G-cover) Lily of the Valley Convallaria majalis 2: 11-50. (G-cover) Crown Vetch Coronilla varia 3: 51-100 (shrub) Eleutherococcus pentaphyllus Five-leaf Aralia 4: 101-1.000 Pachysandra terminalis (G-cover) Japanese Pachysandra 5: >1,000 **Mock Orange** (shrub) Philadelphus coronarius Lungwort Pulmonaria officinalis (G-cover) Wineberry Rubus phoenicolasius Iris pseudacorus (wetland) Yellow Flag Iris Ornithogalum umbellatum Star of Bethlehem (shrub) Viburnum opulus var. opulus European Cranberry Viburnum plicatum Doublefile Viburnum (shrub) Tier 4: Widespread and abundant Presence comments SE SW NW # of Plants NE 1-10 Garlic Mustard Alliaria petiolata 2: 11-50. Ligustrum vulgare Common Privet (shrub) **Bush Honeysuckles** (shrub) 3: 51-100 L. morrowii, L. tatarica 4: 101-1,000 Phalaris arundinacea Reed Canarygrass 5: >1,000 Phragmites australis (wetland) Phragmites Japanese Knotweed Polygonum cuspidatum Glossy Buckthorn (shrub) Frangula alnus Multiflora Rose (shrub) Rosa multiflora (wetland) Typha angustifolia, T. x.glauca Cattails Canada thistle Cirsium arvense Dipsacus fullonum **Common Teasel** Dame's Rocket Hesperis matronalis

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

Periwinkle

(G-cover)

Vinca minor

CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Sheet Project Label: PCAP Project Name: してどとしつで Plot No.: し	t Communi P	nity Assessmen	nt Progran	n Forest	Noted Name: 42862015	d Patho	gens Da	ata She	1074		Page:	(Classel	Cieveland Metroparks
		shrub	size class (cm) woody stems >1m	im) woody	stems >1r	•		6.	7	Ça			30 30
- 18	Voucner#	ciumps	<u> </u>	7-<2.5	2,5-45	5410	10 - <15	15 - <20	20 - <25	25 - <30	30 - <35	35 - <40	>40 (record each tree)
1 Nove present											1.		
9 N		1						8		0			
4									0.00			5.	
G.													
6													
7													
8													
9									,				
10		Will											
										_			
* IF EVIDENCE OF PEST OR PATHOGEN RECORD TOTAL SPECIES POPULATION IN THE PLOT EVEN	ATHOGEN	RECORD TOT	AL SPEC	ES POF	ULATIO	N TH	E PLOT		THE NOT INFECTED	T INFE	CTED		
Strata	# of stem	Severity (H.M. or L)		* Write	* Write None Present if no evidence:	esent if	no evide	nce:					==4
Tree (size class 3 or above)				None	B	Beech (Fungus)	-ungus)	SIRE '	12-01	2/5	Asian I	onahorn	Asian I onghomed Reetle
Shrub (size class 2 or below including shrub clumps)						Hemlock (HWA)	(AWH)	1 50			Other P	Other Pest or Pathogen	athogen
						Walnut (Thousand Canker)	Thousar	nd Cank	ier)				-
Severity													
High = more than 50% of leafineedle cover exhibiting symptoms	eedle cover	exhibiting sym	ptoms										
Medium = Less than 50% of leaf/needle cover exhibiting symptoms	af/needle co	ver exhibiting s	symptoms										

CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface
Project Label: PCAP Project Name: 6228 2015

Plot No.: 1074

(S) Glavel and Making Bark Page: 1 of 1

STANDING BIOMASS (required for energes wetlands); collected in 0.1m clip plots (32x32 cm) from concert 1 and 3 in each intensive module. Required for V181-E score calculation. C1-check when collected	uired for emergen from corners 1 and score calculation. C	welland 3 in each 7 ~check	is) collected intensive when	333
Module #	C7	Comer Comer	Corner	
3.816				
				4

CLASSIFICATION		
(FIT = excellent g Fit and Confidence		
Hydraetomerabic dass (WETLANDS ONLY)		
D DEPRESSION	7	Conf-
o IMPOUNDMENT o Beaver o Human	F	Conf=_
o RIVERINE o Headwater o Mainstern o Channel	1	Conf*
CI SLOPE (ground water by drology or on a physical slope	ਤੌਂ 	Conf=
o FRINGING o Reservoir o Natural Lake	FICE	Conf*
to COASTAL (specify subclass)	Fire	Conf-
D BOG (strongly, moderately, weekly ombrotrophic)	File	Conf=
Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):	Ä	
a FOREST a swamp forest a bog forest a forest seep	FICT	Conf.
a EMERGENT a marsh a wet meadow a open bog	 	Conf.
o SHRUB mahrub awamp or tall sh. bog or tall sh. fen	Fir	Conf=

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

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

- feature is absent or functionally absent from the wetland
- feature is present in the wetland in very small emounds 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

			_	modil						
				COFRET						
			0	(count)	lxlm	depth 3		lussocks	no. of	
			0	(count)	3 16x3 16m	depth 2	uplands (Tip-Ups)	hummocks	no. of	
			0	(count)	10x10m	depth t		depressions	no. macro.	
			8	(count)	10x10m	depth 1		(2-12 cm)	cwd	
		1	0	(count)	10x10m	depth 1		(12-40cm)	cw.d	
			c	(count)	10x10m	depth I		>40 cm	cwd	
			7	(rank)	10x10m	depth I	, ve	interspera	microhab.	
			2	(rank)	10x10m	SLOPE	1.00		microhab	

ON			McNé	McNAB INDICES (degrees) + for up - for down	degrees) + t	or up - for	down
d Confidence			(FILLE)	IPILLED OUT USING OIS PROGRAM - DO NOT FILL OUT IN FIELD]	VS PROGRAM:	DO NOT FIL	LOUTINA
STAND SQUALITAKE 188						LFI	TSI**
	7	Conf.		At aspect	Z		
o Beaver o Human] 	Conf=_	Γ	445 degrees	NE		
water o Mainstern o Charnel	Fit	Conf.		+90 degrees	EE		
r by drology or on a physical slope	<u> </u>	Conf [±]	Γ	+ 35 degrees	SE		
noir o Natural Lake	7	Confr	Γ	+ 80 degrees	S		
subclass)	Fig	Conf-	<u> </u>	+225 degrees	SW		Standi
erately, weekly ombrotrophic)	Film	Conf=		+270 degrees	W		
(Community Class (WETLANDS ONLY):	KY.IN		<u> </u>	+315 degrees	WN		
lorest a bog forest a forest seep	F.	Conf-	· Land	Landform Index (position within landscape)	on within landsc	ape)	
sh a wet meadow a open bog	- 	Confa	" Terra	** Terrain Shape Index (site microtopographic shape)	(site microtopogi	aphic shape)	
amp cialish bog cialish fen	File	Confe		_			

angle from recorders eye to eye of person standing ~10 m

Agway.

LFI is angle of plot to the horizon. TSI is angles formed by local stopes. For TSI measure

corresonding space. (4 dots per grid square)	readings per module facing N. S. E. W. Place dot count in	CROWN COVER (DENSIGNETER): Make 4	
L	of complin	-	

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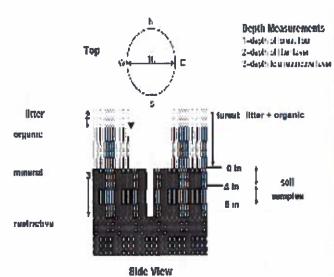
NOTE: tussock and hummocks are counted in BOTH nested quadrat corners but counts are appregated.

VER		

STRATUM	GENERAL FORM
Tree (generally >5 m)	Tree (overstory), very tall shrubs*, liana, epiphyte)
Shrub (generally 0.5 to 5 m)	Tree (sapling), shrub, liana, epiphyte)
Herb (Field)	Herb, dwarf-shrub**, tree (seedling***)
Floating	Floating
Aquatic (submerged)	Submerged

"Very tall shrubs are sometimes included in the tree stratum

^{**}Tree seedlings are often defined as up to 1.4 m height or as <2.5 cm DBH in which case they would span the herb and shrub layers.



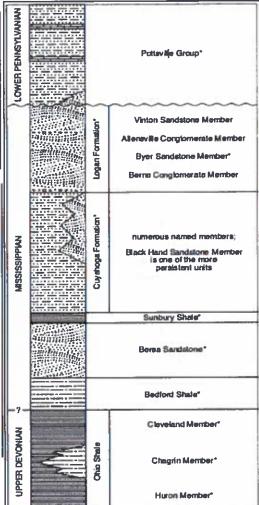


FIGURE 3-20.—Generalized section of Upper Devenian, Missasippian, and Lower Pennsylvanian formations in northeastern Ohno Asteriaks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to calle, but the thicknesses indicated are proportional. The term "Waverly" is used in the older literature in refer to Missassippian rocks in Ohno. Some geologists use the European term "Carbonistroms," which encomposes the Missasippian 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 sandstone that is fairly wissegues duri discontinuous. See Hyde (1953), Hoover (1960), and Collins (1979) for more information on Missasippian rocks in Ohio. See figure 3-18 for explanation of rock types.

[&]quot;Can also include seedlings of shrubs, i.e. all shrubs <0.5m

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a Project label: PCAP Project Name: 12 PR 2015

Plot No.: 1074

(E) Citeresand Metroparks

Page: 1 of 1

TRAIL INFORMATION: cord type and cover for each

%Cover

NONE

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

Soil pit module #

(one per entire plot)

20 cm E C matrix color matrix color redox features** axid roots lexiure" ydr. cond *** redox features** axid roots nottle color mottle ttle color ~ SM z U

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

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

*** Circle one: 1-industrated S-saturated M-moist D-day: Notes: include evidence of earthworms (worms, castings, middens)

(asimy present

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

a Impermeable surface	Somewhat poorly dr. Somewhat poorly dr. Somewhat poorly dr.	Excessively dr.	DRAINAGE*	Parent Material	Depth to rest. Layer:	Landform type:	Soil Series Source: Ohio Soil Survey	Soil Series/Type:	Web Sall Survey Informations	2,3,8,9 composited A	Soil Collection Module Herizen (A, B, C)
-----------------------	---	-----------------	-----------	-----------------	-----------------------	----------------	--------------------------------------	-------------------	------------------------------	----------------------	--

				1,411,411	
,	/	/	_	modif	SOIL DEPTH 0.1 cm in cent record as >30
1	1	/	40.5	1 litter+ organse depth (cm)	SOIL DEPTH MEASUREMENT: Measure to the nearest 0.1 cm in center of intensive modules. If >30.5 cm, record as >30
1		1	20.3	2 litter depth (cm)	JREMENT:
,	/	1	0	water depth (cm)	Measure to fules. If >3
	/	1	0	depth sat soil (cm)	the nearest 0.5 cm,

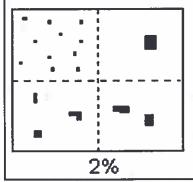
Underlying Earth Surface	Surface*	Ground Cover	
(Sum - 100%)	percent	(Each < 100%)	percent
Histosol	C	Coarse Woody Debris***	0
Mineral Soil	88	Fine Woody Debris****	14
Gravel-Cobble*	12	Litter	52.38
Boulder**	0	Duff (Ferm + Humus)	0
Bedrock	0	Bsyophyte- Lichen	_
Gravel-Cobble = 1/16-10*	1/16-10	Water	Q
**Boulder = > 10 in	5	Bare Soil	17
••• >5 cm m diameter	ndar	Road/Trail	0
	*** <5 cm in diameter	Other	7

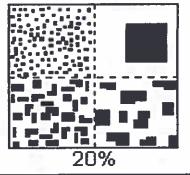
estimate us	estimate using midpoints of 5,ex:3, 8, 13	ex:3, 8, 13
Strata	Height Range (m)	Total Cover (%)
Tree	5 9	88
Shrub	0.5.5	64
Heb	c.0.5	48
(Floating)*	/	/
(Aquatic)*	\	/
rooted and &	· rooted and floating or slightly emersed	Zed
** submersed,	** submersed, most plant mass below surface	w surface
SEE BACK OF	SEE BACK OF PAGE FOR "TYPICAL"STRATA	AI "STRATA

□ < plot size	□ i-3 × plots	10-100 x plot size	o > 100 x plot size	a >600 x plot size	STAND SIZE					
		of size	\$12e	Size	ZE	Deer .	n Gravel	□ Bootleg unsanctioned	Hiking sanctioned	All Purpose



Class	C	ode	Criteria: % of
	Conv.	_ NASIS	Surface Area Covered
Few	= 1	#	< 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= Clavev

3= Sandy

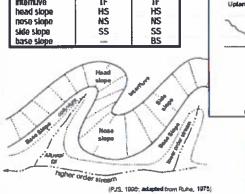
4= Coarse Sand

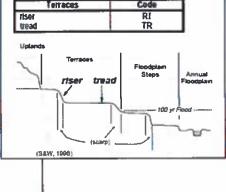
9= Not measured - make plot note

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

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

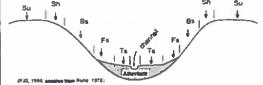
Hills Code
PDP NASIS
Interfure IF IF





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 areas.

POSITION	Code			
summit	SU			
shoulder	SH			
backslope	BS			
footslope	FS			
toeslope	TS			
Su Sh				
T #1				



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 takes, 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.