SAMPLING QUALITY* Minimum required fields in Bold and Underlined TAXONOMIC STANDARD ⇒ Accurate Effort Level: PLOT NOT SAMPLED: Party Date (mm/dd/yyyy).06 Plot No.: // みし Plot Name: Project Name: 0/Be 20/1 Project Label: PCAP GENERAL INFORMATION CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet Authority: rascui TAXONOMIC ACCURACY * Roles: Co-leader, Asst. Guide, Owner, Taxonomist, etc. End date (if > 1 day): ichen Very thorough Perm. water - Daved - Slope - Safety MURPHY ZOZEZ BRETH Level 5 (nested corners sampled) Leve(4 (no nested corners sampled) BARTON 12/2 G&C modera. sampling. Hurried plots how much effort put into may still provide good subjective evaluation of 127 2011 Pub Date Role** Soils, Stems Plot leader サンベー かってき OW: ? ⊃ Other not sinp 1998 State: Camera No.: 3 Plot size for cover data: 0.04 GPS location in plot x=0 to 5, y=-1,0,-1): Source of coordinates - D. MAP Photo Nos.: C-3 <u>Depth: (1-5):</u> GPS File Name: Datum: ■NAD85/WGS84 ■ Lat/Long ⊃ UTM = StatePlane Coordinate system: O N Reason: Check one: Public data == Private Data Data Confidentiality: Local Place Names: ∠ /Ŧスス ど このどだしの人 Quadrangie: SHAKER If data not public why? c Fuzz 100m ∈ Fuzz 250m = Fuzz 500m LOCATION ntensive modules: 2, 3, 8, 9 ∦ Stoms prosent <u>Plot size stems</u>; <u>O√O+</u> (ha) ongitude: 81. 55190 atitude: 41. 38357 andowner: CLE NETRO *Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide Stems not sampled on this plot in Stems absent oord. Accuracy: X-axis Bearing of plot: O H y = 1 (base of plot x=0, y=0) 1/27A 0491m ⊏ fi HE 16475 County: Coya Hely & □ NAD27 🔳 deg 🗆 deg min Coord. Units ■ GPS [276] (hectares) content). Rationale (why here), and Veg Characterization (description of community, NOTES: melude Layout (any unusual shape details). Location (directions and landscape dominants, strata, BROWSE). Additional notes in space on back Diagram © Plet ongin & GPS location

(0,0) point point Plot placement: Transect component \square Systematic (grid) \square Capture specific feature \square Other RATIONALE - Algree as layout, original VEG - Hamlock - Beech woods with BATTON LOSATION - CO. SOON of Little Overlook. LAYOUT - 1×4 Follow bently trail to plot on remlack Mort & Shub layer Sparse, Growne E Representative 3 PRTS = Random = Stratified Random ٦t. (وا photo taken, with direction নিটিবাক্তবাচনাইইবাক্তব্যক্তি Page 1 of 2 • 16 iocation of permanent posts OVER

Project Label: PCAP CLASSIFICATION CLASSIFICATION (FIT = excellent good, thit, poor, CONF = high, med., low) Fit and Confidence Hydrogeomorphic class (WETLANDS ONLY): DEPRESSION DEPRESSION DIMPOUNDMENT of Beaver of Human RIVERING Expective and the stream of the confidence	Project Name: TAND SIZE >4,000 x plot size > 100 x plot size	NCES	Plot No.: 1137	Page 2 of 2
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BOD FILE CONF # Hemock - Harrowood	= Saltwater	☐ Intermittently/seasonally saturated	1 E Semipermanently freeded	ly ficoded
BOD FILE CONF # HOMOCK - HARDWOOD	= Brackish	(seldom flooded)	c Permanently flooded	oded '
Homock - Hareswood	= Fresh	⊃ Permanently/Semipermanent, saturated	irated = Tidal/Seiche frooded daily	oded daily
Hemock - Harowas	Jet pland (n/a)	(dry <1/yr, seldom flooded)	= Tidal/Seiche flooded monthly	oded monthly
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© Compositional trend across the piot		-		
E Conspicuous reclusions				
□ Irregular/pattern mosaic				
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CI EVEL AND METROPARK	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet	nont Drogram Species	Cover Da	ta Sheet				Pa	Page of	N
Project Label:	PCAP	Project name: Ø	0/1302011		Plot no	1127			, - -	•
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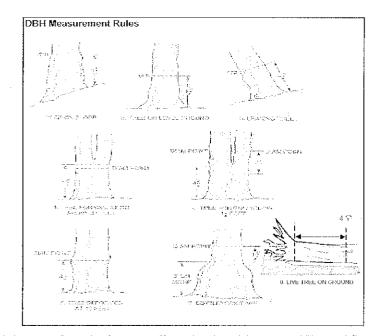
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Natural Resources Management FORM NR/2010-025

2bCM PCAP Species Cover Data Sheet Back Page_ver.1.3.ppt

3 Focus gravelitolia $\dot{\omega}$ S 7 CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Smilax rotunctifalia Acer socurerum Shareling dead Smiles returbitalis Standing doesd Tassa grandifolia Isviga comprehensis Acer sacehorum Fasys grandifolis Facus granditolis Isuso compdensis Tsuga carndensis Project Label: _ PCAP 41 °. \$ c 0 0 # 2 # 2 # stems Z browsed 9 5 5 or super % sub Project Name: 018 2011 shrub # 08 size class (cm) woody stems > 'm ď. 7. 55 e ø e 0 25.07 Plot No.: 1127 c e # * * ø F 5-<10 ¢ . Pege: ø 9 ំរឿង នៅក្នុងនៅនេះបានកំពុងកំពុងកំពុង 53.7 2 53.3 559,469 >40 (record each tree) ċ



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 fally 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.



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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.

0 24 3 0 00 00 00 00 00 00 00 00 00 00 00 00	ATABLE BECHAINCEL VISUES	SEE BACK OF PAGE FOR TYPICALT	" submersed, most plant mass below sufface	passema figually to Bujgay and passou.	(Acuste)**	(Fiosting)*	Herb X 05 23	Shrub 0.5 5 13	Tee 5 · 1 83	Height Range	COVER BY STRATA (Sestimate using mispelns (6.6.4).
			m m			İ				er (%)	

EARTH SURFACE & GROUND COVER	ACE & GRO	UND COVER	
Underlying Earth Surface*	th Surface*	Ground Cover	
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Histosof	0	Course Woody Debris***	13
Minoral Soli	7.36	Faid Weddy Debris****	ဏ
Gravel-Cebble*	17	Litter	93
Boulder**	17.	Duff (Fern. + Eumus)	93
Bedrook	Q	Briophyre-Liehen	W
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-i 01 <= sapine@		Bare Soil	B
rete= 3 d n, wo ek	Ner Te	Read/Trail	ū
letellus o J. luo g>	meter	Otter	0

Remember: in a standard 2x5 plot each module = 10% cover

				aggregated	ers out counts are a	VOTE: tusspok and hummlooksrate counted in BOTH heated quadrat corners out counts are aggregated	are counted in BOT	ok and hummooks:	NOTE: tusso
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					nodules only	MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only	EATURE COU	POGRAPHIC F	MICROTO

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twid. = course woody debris

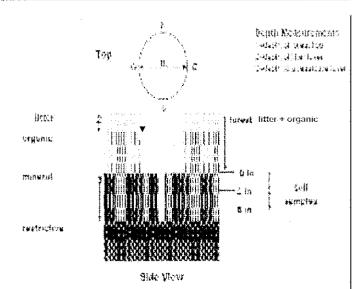
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COVI	≘кв	YSL	RA L	Α.

STRATUM	GENERAL FORM
Tree (generally >5 m)	Tree (overstory) very tall shrubs* liana epiphyte)
Shrub (generally 0.5 to 5 m)	Tree (sapting), 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.



LOWER PENNSYLVANIAN			Polisvija linaug				
200	Green and Springer	·	A CONTROL OF THE PROPERTY OF T				
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1			Gardena States				
***************************************			Sanbury Sheto" Pessa Santatona"				
	Entrader Control & Charles		Bedfeld Shale*				
H			Cleveland Member				
UPPER DEVOUAN		Che Shate	Chagon Nember				
THAT .			ffaran Membar				

FIGURE 2-13.—Generalized scribts of Upwer Devousar, Mixiosispiae, and Lower Pennsylvanian formations in northeastern Ofici. Asterializate shall also painted that are formations in northeastern Ofici. Asterializate shall also problems are to access has the definitions to a course, but the thinkness to additionable population. The certain factor of the definition for the course problems are to define the discrimination of the description of the discrimination for the discrimination of the discrimination and Pennsylvanian Pennsylvanian for the U.S. Many tento have been caused within the Opensylvanian Deviation for the U.S. Many tento have been caused within the Opensylvanian Tentonian and tentonian of the discrimination of the U.S. Many been also and cannot be traced over great accuracy. The 2Dath Sinch Newther is a spectagular massive randations that it fault under great and Colona 1939 for many information on Mixiosappion radio in Ohio. See figure 3-16 for engagements of took types.

Page; 1 of 1

Plot No.: 1127

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

Soil pit module # 3 (one per entire plot)

and middens not Notes: include evidence of earthworms (worms, castings, micdens) 👸 e.g. hydrogen sulfide odor, gleying, etc 20 cm OPSELVED Soil in pit rocky w/ ≖indundated S≃saturated M=moist D=dry ** Circle one: 5 cm Organic layer present refer to texture classes on reverse side bits of shale Eavilhourns, cousting, matrix color JOYE hydr. cond.*** exture* redox features** exture* edox features** eroots pixid ómottle nottie color xid reets imottie dro cond *** iottie color atrıx color かる S <u>τ</u> ر 10 10

> 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 Series/Type: Troga 1	Web Soil Survey Information	Soil Description/notes: **Removed oveganic larger and coil bettech 10cm of A hovizor soil		1, 2, 3, 4 2,3,8,9 composited	Soil Collection Module
oam To		gr and A horizon		Α	Horizon (A, B, C)

Soil Series Source: Ohio Soil Survey Parent Material andform type: Flood plain Alluvium

DRAINAGE*

Excessively drained

□ Somewhat excessively

□ Moderately well dr. শ্ৰ\Well drained

Somewhat poorly dis

🗆 linpermeable surface □ Very poorly dr.

> STANDING BIOMASS (required for emergent wetlands): each intensive module. Required for VIBI-E score calculation. collected in 0.1m clip piots (32x32 cm) from corners 1 and 3 m C?=check when collected

		Mcdule #
		C?
		Corner
		Corner

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

)e,i	record as >30	0	
	I litter –	2 litter	5 restrict.	w.arcr	depth
	organic depth	depth	deptin(cin)	depth	sai soil
mod#	(cm)	(cm)	*[W88]	(cm)	(cm)
	6.25	1.25 >100	>100	0	>30
2	10.5	1.50	56	D	>30
w	021	1.0	57	Ð	>30
ተ	11,1	1.80	53	0	>30
Length of	Length of soil probe = 125 cm	= 125 cm			

Depth to restrict Use Web Soil Survey for #3 Restrictive layer dept.

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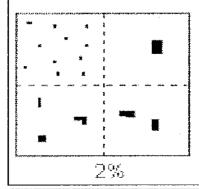
>80 m.

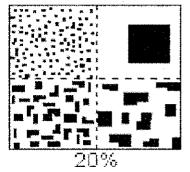
आवंट ऑक्स 1. litter + organic Poster Militaria de como o la marca de la comitación de l

M55- @55

PERCENT MOTTLES (USE CLASS CODES):

Class	(lode	Criteria: % of
	Conv.	NASIS	Surface Area Covered
Few	f	**	< 2
Common	t	7#	2 to < 20
Many	m	₩.	a 20





Terraces

HSer tread Uptarid: 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

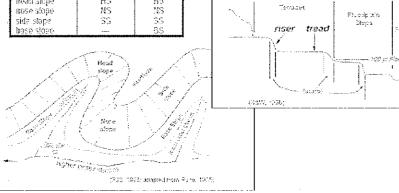
Annual

- 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, Ferraces, Mountains, and Ffat Plains.

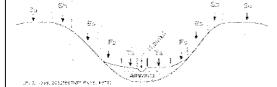
e.g., (for HIIIs) nose stage of NS

Riffs	Co	de
j	PDP	NASIS
mentuva	Ĭ.F	ŢĒ.
head stope	HS	HS
nose stape	MS	MS
side stage	SG	35
base slope		5.5



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., becksions or BS. This is best applied to transects or paints, not areas.

Position	Code
suamst	SU
shoulder	SH
backslope	BS
fectstape	FS
teeslage	TS



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

UPLAND: Not a wetland. Very rarely flooded

INTERMITTENTLY/SEASONALLY SATURATED: Dry at least once per year. Surface water is seldom present, but substrate is saturated to surface for extended periods during the growing season

Code

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

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

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey Constitued Carbonalis Tier 1: Early detection/ Rapid response GPS Presence SW NW. NE SE. Presence Microstegium vimineum X: yes Japanese stiltgrass Lesser Celandine Ranunculus ficaria (vine) Black Swallow-wort Cynanchum Iouiseae (wetland) Flowering Rush Butomus umbellatus Heracleum mantegazzianum Giant Hogweed Tier 2: Assess as Needed # of Plants comments NE SE. SW NW # of Plants Norway Maple Acer platanoides 1-10 Ailanthus altissima Tree of Heaven 11-50. Lonicera japonica (vine) Japanese Honeysuckle 3: 51-100 4: 101-1,000 Lythrum salicaria (wetland) Purple Loosestrife 5: >1,000 Aegopodium podagraria (G-cover) Bishop's Goutweed Celastrus orbiculatus (vine) Asian Bittersweet Torilis sp. Hedgeparsley Conium maculatum (wetland) Poison Hemlock Rhamnus cathartica Common Buckthorn (shrub) 2 Berberis thunbergii Japanese Barberry (shrub) Alnus glutinosa European Alder Dipsacus laciniatus Cut-leaf Teasel # of Plants 1-10

Elaeagnus umbellata		Autumn Olive	(shrub)						
Lonicera maackii		Amur Honeysuckle	(shrub)						
Euonymus fortunei		Wintercreeper							
Tier 3:	Presence is	of Interest			# of	Plants			comments
				NE	SE	SW	NW		
Convallaria majalis	(G-cover)	Lily of the Valley							
Coronilla varia	(G-cover)	Crown Vetch				l			
Eleutherococcus pentaphyl	lus	Five-leaf Aralia	(shrub)						
Pachysandra terminalis	(G-cover)	Japanese Pachysandra							
Philadelphus coronarius		Mock Orange	(shrub)						
Pulmonaria officinalis	(G-cover)	Lungwort							
Rubus phoenicolasius		Wineberry			<u> </u>				
Iris pseudacorus	(wetland)	Yellow Flag Iris			<u> </u>				
Ornithogalum umbellatum		Star of Bethlehem				<u></u>			
Viburnum opulus var. opul	us	European Cranberry	(shrub)						
Viburnum plicatum		Doublefile Viburnum	(shrub)						
Tier 4: W	idespread a	and abundant			Pres	ence			comments
				NE	SE	SW	NW		
Alfiaria petiolata		Garlic Mustard				X	$\perp \times$		
Ligustrum vulgare		Common Privet	(shrub)	X	<u></u>				
L. morrowii, L. tatarica		Bush Honeysuckles	(shrub)			<u> </u>			
Phalaris arundinacea		Reed Canarygrass		X		ļ	X		***
Phragmites australis	(wetland)	Phragmites				<u> </u>			
Polygonum cuspidatum		Japanese Knotweed					\times		
Frangula alnus		Glossy Buckthorn	(shrub)	X		X	X		
Rosa multiflora		Multiflora Rose	(shrub)	X	<u> </u>	$\perp \times$	X		
Typha angustifolia, T. x.glat	ıca	Cattails (wetland)							
Cirsium arvense		Canada thistle							
Dipsacus fullonum		Common Teasel							
Hesperis matronalis		Dame's Rocket							
Vinca minor	(G-cover)	Periwinkle							
Note: For Ground-cover pl	ants record	"stem #" but in comm	ent field	descr	ibe#	of cold	nies a	nd patc	h size (S,M, L)

Presence X: yes

2: 11-50. 3: 51-100 4: 101-1,000 5: >1,000

CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet

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		Only	ASH									
Date: $(6/2)/1$ Page: 1 of 2	1127	Plot No.:		٠	Project Name: 0156201		ct Name	Proj	OA?	Project Label: PCAP	Proje	
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* 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)

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15 15 24 23

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Ø AA C	Center	C	N	0	S	O E	E 0	W	OF	lot '	1	ΟI	Plot	2	O P	lot 3					
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																	%); 3 = Heavy (40-75%); 4 = \	/ery H	cavy (>75%)
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Road - for	ır lane			0	0	0		Water Lev	el Contro	l Stru	cture	0	0	0		Row Crops		0	0	0	
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Mine (surf	ace)			0	0	0		Tree Planta			0	0	0		Trails		0	0	0	
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FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)