			Comment required if item answer is NO
Parking/Access outsid	e of Park Boundaries:	Y (N)	If yes, write details in Comments section below
Field journals complet		YN	
Site sketch made on 1:		YN	N/A
Check cover page	X-axis Bearing of plot recorded	N (V)	1982
	GPS coords. Recorded	N (Y)	57 m 1
	North direction recorded	N	
	Photographs taken?	И	
	Relocated Pins Mapped	N (X)	
lot No., Date agreem		И	
leader data completed		N	
	i in all Intensive modules	N	
Browse Level By Spec	ies	N (X)	
Woody stem quality co		(Y) N	Check every line and cross check with the Tree Cover Sheet
Invasive plant quality		YN	N/A
Ash trees mapped		X N	W/A
Completed Forest Pest	/Pathogen Datasheet	N (	
Cover by Strata? (conf	NOTE OF THE PERSON OF THE PERS	Y) N	4
Soil samples collected	with matching plot #.	YN	NA
Cross check 2010 info		Y N	Highlight any changes from 2010 information
ouchers labeled on d	atasheet with initials and number	N	
Vouchers labeled on c	ollection bag	И	
Pink flags removed		И	
Data sheet QA before	leaving site?	И	
Common equipment re		И	<b>到</b> 商
Data sheets scanned?		6/19/15	Enter date to left
Final data sheets scan	ned?		Enter date to left
Buffer Widths measur	ed?	YN	
Web Soil Survey		YN	1/4
Voucher Location	Refrigerator	(A) N	
# vouchers collected}	Press (#)	0	Enter number to left
	Drier	Y N	SPECIFICATION REPORT OF THE PROPERTY OF THE PR
	Identified	YN	
	Mounted	Y N	
	Thrown away	YN	
			· ·
GRTS point verificat	ion: Is plot sampleable?	- W.	
Yes	Original GRTS point is sampleable	31	
p No	Original GRTS point lands in a non	-sampleable area (fi	ll in category below)
	D Point falls in a water (i.e. river,	lake)	1
	Managed mowed area (i.e. gol	f course, pienic area, righ	ri-of-way)
1	Paved area (i.e. parkinglot, road)		
	Unsafe to sample (i.e. steep slop	xe)	
	D Other		

i dest

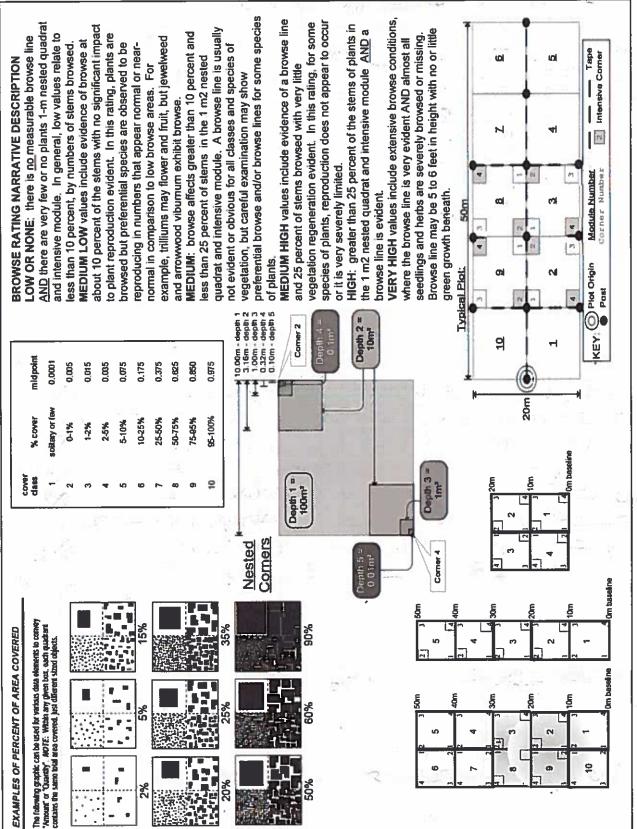
OVER	CVS Field Guide	*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide	Minimum required fields in Bold and Underlined
		u Systematic (µrid) и Сартиге specific feature и Other	Authority: G&C Pub Date: 1998
ower shows layer.	have her pareoust lower survo lank	C Random C Stratified Random C Transect component	TAXONOMIC STANDARD
	Dayler Control of 1	Plot placement: or GRTS a Representative	lichen
at in shrub langer	thicket. I'm prese	Photo Nos.: 635,074	Блуо
Mordswarte		Camera No.: 3	vascul. n/a
0000	Astrobed orose	dules 2.3.8,9   ) LEDIT IF MODIFIEDS	high modera low not smpl
y High war	Veg. Unavactoristics -	Depth: (1-5):	TAXONOMIC ACCURACY
	3 21	X-axis Bearing of plot: [179] O	b Hurried data
RTS point, PCAT R-Sample.	Nationale > GRTS poin	Plot size for cover data: (hectares)	Accurate may still provide good
		GPS File Name: 1014H	how much effort put into
of the ridge.	nouses at the top	uracy: Vm o A +-3	Effor Level: subjective evaluation of
C or subs mit		Longitude: 81, 833 24	SAMPLING QUALITY*
1000	Plot is located ala	Lattrude: 41, 34603	O Perm. water O Paved O Slope O Safety
Valley Pkmy.	of 4-way stop on Valley Hawy.	x = 0 $y = -$ (base of plot $x=0$ , $y=0$ )	PLOT NOT SAMPLED: G Other
SOO M NOTTHEAST	Cold in block	GPS location in plot x=0 to 5, y=-1,0,+1);	** Roles: Co-leader, Asst., Guide, Owner, Taxonomist. etc.
200	) water & Access	Datum: ■ NAD83/WGS84 □ NAD27	
	rayour , 1, of	n Other (specify)	T. Cachran Crew
		■ Lat/Long □ UTM □ StatePlane ■ deg □ deg min	M. Busam Crew
s in space on back.	dominants, strata, BROWSE). Additional notes in space on back.	Coordinate system: Coord, Units	D. Sweet Bot. Asst.
acterization (description of community,	NOTES: Include Layout (any unusual shape details). Location (directions and landscape content), Rationale (why here), and Veg Characterization (description of community,	Source of coordinates	A. Lance Plot leader
with direction permanent posts	Key: (0,0) point point	If data not public why?	Party Role**
	Plot printing GPS location	Reason:	End date (if > 1 day): / /
из из	#1 #2	o Fuzz 100m o Fuzz 250m o Fuzz 500m	Date (mm/dd/yyyy)06 /17/2015
1	P	Check one: Public data   Private Data	■ Level 5 (nested corners sampled)
	Z Z	Data Confidentiality:	D Level 4 (no nested corners sampled)
10	pao:	CWB	Plot No.: 1014
	2.10	Murnoilee Overpass	SUNNY SLOPE
4		I neal Piace Names	
)		anole	Project Name: OUMSUATS
lop	Droin a R	State OH County Cut ahoa	Project Label: PCAP
		LOCATION	GENERAL INFORMATION
Page 1 of 2	Data Sheet	CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	CLEVELAND METROPARKS Plant Co

LEVELAND METROPARKS Plant Community Assessment Program - Background Data Sneet  PCAP  Project Label: PCAP	nmunity Assessment Pro	ogram - Background Data Sneet Project Name: 02.015 2015	and Data S	2015		Plot No.: JOI 4		Page 2 of 2	61
ODIFIED NATURESERVE CLASS*			DISTUR	DISTURBANCES					_
ODE (on separate form):	Fit= Conf=	9	type	severity**	yrs ago % of plot	of plot	description		
			Human	I	0		drainage pipe	Toe trash	
140-3			Natural						
DAMUNITY NAME:	13		Fire						
7	101		Cut						
Loland Jimb met	1221		Animal	I	0	100%	promse		
Blackberry	Thicket		Other	,					
OMOGENEITY	1		**[_=low.	ML=med lov	v. M=med, N	dH=med hi	**[_=low, ML=med low, M=med, MH=med high, H=high, VH=very high	high	
flomogeneous a Compositional	Compositional trend across the plot		Current 1	Current Land Use: PARK	ARK				_
Conspicuous inclusions a Irregular/pattern mosaic	n mosaic		Former Land Use:	and Use:	UNKNOWN	NOO			_
	HYDROLOGIC REGIME*	IME*					2.		
	compland (seldom flooded)	o Inter	□ Intermittently flooded	oded					
ALINITY*	a Intermittently/scasonally saturated		□ Semipermanently flooded	flooded			Ÿ.	2 E	1-
Saltwater	(seldom flooded)	о Реп	□ Permanently flooded	ded					*
Brackish	Dermanently/Semipermanent saturated		□ Tidal/Seiche flooded daily	ded daily					
Fresh	(dry <1/yr, seldom flooded)		☐ Tidal/Seiche flooded monthly	ded monthly					
opland (n/a)	□ Occasionally flooded (<1/yr)		☐ Tidal/Seiche flooded irregular	ded irregular	6				
7	a Temporarily flooded	(e.	(e.g. wind, storms)	(51					
y default unless plot is a wetland)	All and a second	o Unk	n Unknown		-				r
dditional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)	ess of plot to the stand, succession	onal status, maturity, e	tc.)		,				/
White Snakeroof, Rubus, and	Rubus, and	grape	az	abun	dart	ï	grape are abundant in shrub therb	herb	
Guo.		•							
				U II	0 -	_			
Lots of encroach	ment, dia	rass pip	SV) 2	alled	hq	70°Z	owner 1	nas	
had a significant	impact on	baseline	بر	unes	CS	10-	TO 170,9	<b>∞</b>	_
reference the pipe lawn debris and a discarded Christmas thee.	e laun debn	s and o	dis	rarde	ر اد	Thris	Imas the		
	31	_	,				_	,	
									7

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a Strata - Cov. entire plot Metroparks Total modules: Project Label: S H (F)(A)Br 8 Rubus persylvani pa us Runs STITUT COMODERS Rubus occidentalis Kanwaewlus recurvotus duceria striata Lonicera macks CHARACTOCHUM FURILLISAM trisaema triphyllum Duophens cartholisiana tacke to voicint an a MYND APILL especis matronali otentilla simplex describe amount of browse per species over olyanium viral Manum REVISIA VIVOLAICA Oxicodendron radicans His acstivatis olyporocitym modifiens capenis Br = Browse Level. Use cover classes to mus americana 2 RHOLATO Species entire plot ი %unveg. ground (bare soil) Intensive modules: %unvegetated open water Estimate for each intensive module: %unveg. litter (bare litter Project name: Oamsau's Voucher# %open water COV depth ş Plot configuration: depen ş 88 Z cov depth Plot no.: 1014 6 スメ 9 8 depth **d** ₹ depth comer epv depth ş ck) mod depth Plot area (ha): VQQ ğ Page \_\_\_ of \_\_\_\_\_ 88 8 depth 20 9 ğ 3 depth depth ş ABO

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

Natural Resource Management FORM NR/2010-02a

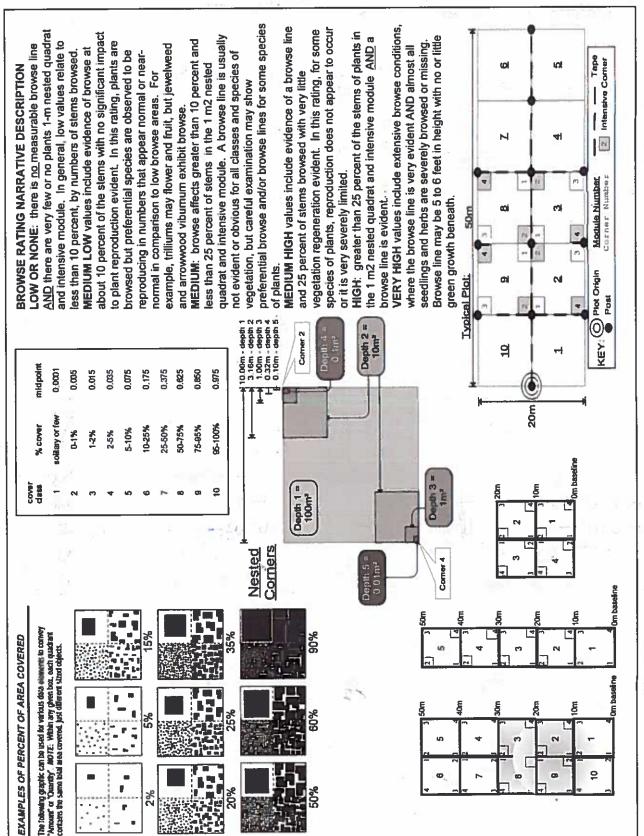


2bCM PCAP Species Cover Data Sheet Back Page\_ver 1.3.ppt

乳 CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a Strata - Cov. entire plot Total modules: Project Label: Gleveland Metroparks 63 S H (F)(A) Br 8 Hster sn. Brehmeria Solium asperillar Rumex obtusifalia Phytolacca americana Sharans sp. seedling Corex spr navene sp. JORY VICTORIAGE Br # Browse Level. Use cover classes to describe amount of browse per species over entire plot runus serotinguipmont asa multitlera ster s JUNCUS TENUIS toer so seedlins ster lateriflorus assatras albidum usimachia numullana Anknown dicot indeca seventa Indica Carex spol inapadium vulgare uad reatans 2 Species benzoin Cullodifica A n Intensive modules: %unveg. ground (bare soll) %unvegetated open water intensive module: Estimate for each %unveg. litter (bare litter) AN 294 ACT 335 ACL 293 Project name: Cams 2615 Voucher # %open water ナンナ Ŋ Amer mod g) 8 \_ 7 cov depth cov depth ົ ນ Plot configuration: 99 ş 8 Plot no .: 104 COV | depth 9 Ex C 900 ş depth mod comer mod comer 8 cov depth depth Plot area (ha): ş ş 8 mod 600 depth depth 300 ş ğ

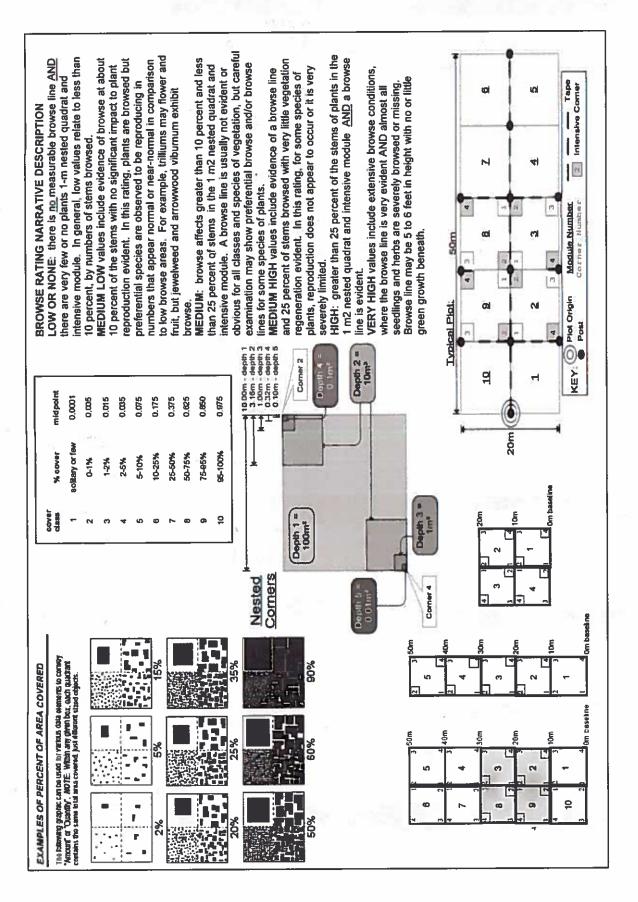
aCM PCAP Species Cover Data wheat Page 1 of x\_ver 3.xls last revised 5/29/2012 ceh

Natural Resource Management FORM NR/2010-02a



2bCM PCAP Species Cover Data Sheet Back Page\_ver 1,3.ppt

Strata - Cov. entire plot
S H (F)(A)Br CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Cleveland Metroparks Total modules: Project Label: 10 Fragues granditalia Officer platastides tachenocissus awasus to describe amount of browse per species over CON X SP Br = Browse Level. Use cover classes to phoenicolasius entire plot Species O Project name: CSM 5 20/5 Intensive modules: 2 Plot con %unveg. ground (bare soll) %unvegetated open water intensive module: Estimate for each %unveg. Etter (bare litter 401257 Voucher# %open water corner mod comer ş cav I depth Plot configuration: ş ş C C Corner Plot no.: 1014 ation: 1×2 ) ရ cov 4 depth ą ş mod Depp # corner mod corner mod corner mod corner cov depth cov I depth Plot area (ha): , 02 8 å cov i depth 8 900 COY



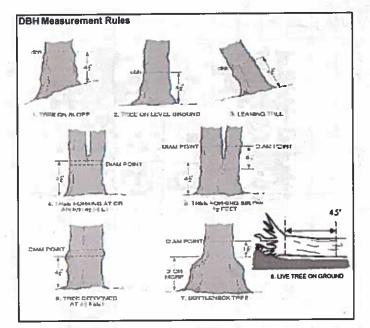
SRE\_CM PCAP TREE Species Cover Data sheet.xls last revised 6/10/2015 jjm

CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet % COVER Strata - Cov. entire plot Project Label: 막 Species Prensence of tree mod specification mad specification with the specification of the specifica Project name: OBMS2015 Plot no.: 1014

10:																									
Plot no.:		œ (	~	T																					
Shee	$\ $	рош																							
Data		pour																							4
Cover		pow															100		17706			 			
Tree (		99	7	$\dashv$	$\dashv$	$\dashv$	$\dashv$	_						Н			_						$\vdash$		$\dashv$
t Program Tre Project name:		Prensence of tree mod	species (X)	Voucher #					,			•				:			i	:		18			
smen		4	$\dashv$	히			-			,	j		$\vdash$			!		_					_	Н	Č.
ty Asses		_		1																					
CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Project Label:  Project Label:  Project Label:				Species														,					7/2	:	
ETROP/			Şqt												-										
CLEVELAND M Project Label:		ÆR	Strata - Cov. entire plot	ă																					
CLEVE		% COVER	Strata - (	<b> -</b>																					

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet NHIS AREALVAILS TOWINGS BY Explain subsample (additional room on back) SOS AND HOLD IN Standing dead Ace Demodes CONCENTS MARK ROSA MUHIFOX JIMUS AMPRICANT ODCE/ZYNEE( VITA ACTIVATION consultance say Inns American Sey, Tubys 2000 Project Label: DOSING. PCAP voucher# Ü 9 # sterra browsed 0-1.4m u simple or super % sub Project Name: 07MSZ015 Plot No.: 104 ü dumps shrub \* size class (cm) woody stems >1.4m Ž . 1-<2.5 11 2.5-6 5-<10 10 - <15 15 - <20 20 - <25 Page: 25 - < 30 30 - <35 Dieveland Metroparks 35 - <40 5 >40 (record each tree)

1



## Woody Stem Deer Browse

Record the number of stems/plants between 0.5-1.0 meters tall that exhibit evidence of this years deer browse.

Record using the tally system from 1 to 10













## ASH CANOPY CONDITION

- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
- 2. Thinning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.
- 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 (towest branch) on the trunk.



В

¢

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.

							악	- 1			
<u>1</u> 2	Species O C Voucher#		₩ 180	Ash condition	*Dead condition	# Ext	Epicomic present	Whodpecker holes			
1	No Paradent										
2										(	
3	-									Ī	
4						Ē					
NO.											
8						Ĩ					
7									Change i	*** Change intensive module numbers when necessary	ers when necessary
80											
8											
10										[	•
11											•
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13				-3					ulles		
4				T. V.		Ħ		8	e8		
15											
16							100			[7	
17										]	2
18		- 10									
19											
8								and an artist of the second			
21									Map all ash tr	rees ≥10cm in each mod	Map all ash trees ≥10cm in each module using Tree ID number
22											
ន											
75											
٦		-	ŀ								

• If Ash Condition scores 5 (dead) provide breakup score (A-E) Count EAB exit holes 1.25m2 x 21.5m Woodpecker and epicormic marked present (1) or absent (0)

(Cleveland intetroparks

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey

	(J.M.2) size dated t	sue sațu	olos to	# sdi	1329b	blait tra			Note: For Ground-cover p
	<u>.</u>						Periwinkle	(G-cover)	Vinca minor
							Dame's Rocket		eilenortem zinagzaH
							Common Teasel		Dipsacus fullonum
				[			Sansda thistle		Cirsium arvense
							(bneliew) slietieD	ncs	slg.x .T , siloìiteugns erlqyT
						(dunda)	Multiflora Rose		Rosa multiflora
						(dunda)	Glossy Buckthorn		Frangula alnus
							Japanese Knotweed		Polygonum cuspidatum
000'T< :S							29 rimge14	(wetland)	Phragmites australls
4: 101-1,000							Reed Canarygrass		Phalaris arundinacea
3: ST-100						(sprub)	gnzh Houekancklez		L. morrowii, L. tatarica
S: 11-50°	<del>-</del>			$\neg \neg$		(spinp)	Common Privet		Ligustrum vulgare
0T-T :T						<del></del>	Garlic Mustard		Alliaria petiolata
strial4 to #		MN	MS	ЭS	NË		- Namislant Va		
	comments		suce				ansbrade br	videspread a	N :4: N
						(shrub)	MuniudiV elitelduoQ	1.45	Mibumum plicatum
		+				(shrub)	European Cranberry	snı	Viburnum opulus var. opu
		+-	$\vdash\vdash$			1-1	Star of Bethlehem		Ornithogalum umbellatum
		+	$\vdash\vdash\vdash$				Yellow Flag Iris		Iris pseudacorus
			Н				Wineberry	(114)	Rubus phoenicolasius
		_					Lungwort	(12402-0)	Pulmonaria officinalis
222/2 4 42			Н			(on us)		(101103-9)	Philadelphus coronarius
000'T< :S						(dunds)	Mock Orange	(12402-D)	
4: 101-1,000		_					sibnesydoe9 esenegel		Pachysandra terminalis
3: ST-100		_				(dunda)	Five-leaf Aralia		Eleutherococcus pentaphy
7: 11-50.							Crown Vetch		Coronilla varia
1: 1-10							Lily of the Valley	(G-cover)	Convallaria majalis
strisis to #		MN	MS		3N				
	zhammoo	3 4 -5	zinsk	1 to #				Presence is	
						(	Wintercreeper		Euonymus fortunei
				$\overline{}$		(sprub)	Amur Honeysuckle		Lonicera maackii
						(dunds)	evilO nmutuA		Elaeagnus umbellata
							leaf Teasel		Dipsacus laciniatus
			$oxed{oxed}$				European Alder		seonifulg suniA
						(shrub)	Japanese Barberry		Berberis thunbergii
						(spunp)	Соттоп Вискthorn		Rhamnus cathartica
							Poison Hemlock		Conium maculatum
							Hedgeparsley		.qs silinoT
							Asian Bittersweet		Celastrus orbiculatus
000'T< \$							Bishop's Goutweed	(G-cover)	Aegopodium podagaA
000'T-TOT :Þ							Purple Loosestrife	(wetland)	Lythrum salicaria
3: 27-100							Japanese Honeysuckle	(9niv)	Lonicera Japonica
7: 11-50°							Tree of Heaven		smizzitle zudtnsliA
J: 1-10							Norway Maple	-	Acer platanoides
atrial To #		MN	MS	SE	NE	1000			
	comments		stns!			1	рәрәәм	Z: Assess as	19[1
							Giant Hogweed		Heracleum mantegazzianu
	· · · · · · · · · · · · · · · · · · ·						Flowering Rush		Butomus umbellatus
		+					Black Swallow-wort		Cynanchum louiseae
		+-					Lesser Celandine		Ranunculus ficaria
х: уез							Japanese stiltgrass		Microstegium vimineum
Presence		MN	MS	2E	NE	Service and	4117		
21.0304.0	S49	77114	aons		211	The second second	Rapid response	/uomanan /	ijet J: Estr
		E 10	10			-		, , , , , , , , , , , , , , , , , , ,	
ematorsam o									

Mote: For Ground-cover plants record "stem #" but in comment field describe # of colonies and patch size (5,M, L)

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

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	10	9	æ	7	6	۲'n	4	ω	2	 mod #		CLE	
										species	Explain subsample (additional room on back):	CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Sheet  Project Label: PCAP Project Name: Own Sale 15 Plot No.: 10 14	
NONE PRESENT			e same							voucher#	n back):	t Communi PCA	
M										% sub or super sample		ty Assess	
PR										# shrub		ment Projec	
ESE									- K. St.	size class 1 0-<1		gram F	
1									) )/(1)	(cm) woo 2 1-<2.5		Op M	
		,								size class (cm) woody stems >1m 1 2 3 0-<1 1-<2.5 2.5-<5 5-		nt Program Forest Pest and Pa Project Name: OR MS 2015	
										>1m 4 5-<10		Pathogo S	
										5 10 - <15		ens Date	
										5 6 7 10-<15 15-<20 20-<25		B Sheet	
										7 20 - <25			
									8	) 25 - <30		Page:	
										30 - <35			
												Cleveland Of	
	The same of the									10 11 35 - <40 (record each tree)		Cleveland Metroparks	

Strata	Total %
Tree	
Shrub	
Herbacous	

-Beech (Fungus) -Asian L	* Write None Present if no evidence:
-Asian Longhomed Beetle	

-Hemlock (HWA) -Other Forest Pest or Pathogen

STANDING BIOMASS (required for emergent wedlands) collected in 0. Im clip plots (32x32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C7=check when NOTE: bussock and burranocks are counted in BOTH ny SaCM PCAP Plant Cover Liams Su 10 feature is present in moderate or greater amounts and of highest quality HIGROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only policid ope 1 = slight elevational grade across module (hit) feature it present in moderate amounts, but not of highest quality, or in small amounts of highest quality feature is present in the wetland in very small amounts or it more common, of low quality leature is absent or functionally absent from the wedged is for microhabitat features. Select one or select two and average the score.NOTE: If mod fals on a slope submadically gots ranked based on steephress (1-3) to begin + any features present COUNCY depth 3 tussocks i x 70. 20. S uplands (Tip-Ups) 3,1653,16m ed quadra (square for con depth 3 paramocks no, of Slope 2 = talls on slope ~20° no. macro. depth 1 The possible CLASSIFICATION o SHRUB o shrub awamp to tall sh, bog to tall sh, for O SLOPE (ground water by drology or on a physical slop) o RIVERINE o Headwater o Mainstern o Channel DEPRESSION a COASTAL (specify subclass) FRINGING a Reservoir a Natural Lake IMPOUNDMENT to Beaver to Human EMERGENT to moush to wet meadow to open bog this EPA VIBI Flant Community Class (WETLANDS ONLY): <u> Irdraetomerniki clasi (WETLANDS ONLY):</u> FIT = excellent g Fit and Confidence FOREST a swamp forest a bog forest a forest seep BOG (strongly, moderately, weekly ombrotrophic) (2-12 cm) Q 10%1000 depth I CW.d c.w.d. - count for pieces with minimum 1m length Stope 3 = maximum steepness that can be safety sampled ~45" (12-l0cm) 10x10ms depth I CW.q 111101012 ¥ Gg Gg depth 1 10:10:0 0.878 0 Film | | 7 ä 1 1 1 interspers microhab. 10x10m depth 1 Conf. Conf= Conf\* Conf\* Conf Conf" Confi Conf\* Conf SLOPE microhab. T40 [48] McNAB INDICES (degrees) + for up - for down FILLED DUT USING OIS PROGRAM - DO NOT FILL OUT IN FIELD) Lendform Index (position within landscape)
Temain Shape Index (site microlopographic shape) CROWN COVER (BENSIOMETER): Make 4 readings per module facing N, S, E, W. Place dol count corresonding space. (4 dots per grid square) +270 degrees +45 degrees +315 degrees +110 degrees +135 degrees +225 degrees +90 degree At aspec N.W. WE ¥ 紹 K z

Plot No.: CH

CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface
Project Label: PCAP Project Name: 02 STATES

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27 16	188 188 188	F			B	57	2	
1882	要の	トラス			3	58	s	1
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133	超去	7	3000		드	46	*	]
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Clevel and Stebra parts Page: 1 of 1

recorders eye to eye of person

angle from

standing - 10 m

local slopes. For horizon. TSI is

angles formed plot to the LFI is angle of

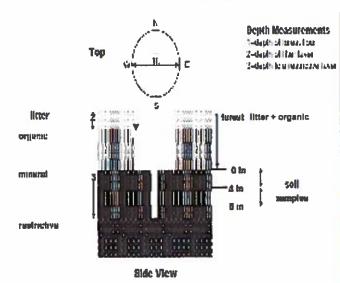
## **COVER BY STRATA**

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

"Very tall shrubs are sometimes included in the tree stratum

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

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



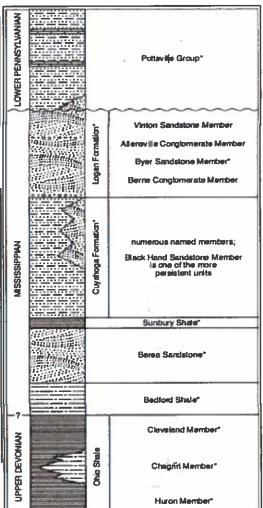


FIGURE 3-20.—Generalized section of Upper Devonian, Ministrippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterials militate units that are feasible rous. This composite section represents about 400 meters of rock exposed across the size. The section is not to scale, but the thicknesses indicated are proportional. The term "Waverly" is used in the older instruture to refer to Ministrippian rocks in Ohio. Some peologists use the European term "Carboniferous," which encompasses the Missingsian 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 ever great distances. The Black Hind Member is a spectacular measure sandstone that is fairly undespread but discontinuous. See Hyde (1953), Hower (1960), and Collins (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 tabel: PCAP Project Name: 0205 2015
Project tabel: PCAP

(E) Cacyreland Hickoparks

Page: 1 of 1

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

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 pit module # \_\_\_\_ (one per entire piol)

Soil Collection Modul (Herizen (A. B. C)

						20 cm							5 Cm
5	redox features**	icxture*	oxid roots	Amortle	mottle color	matrix color	hydr cond.***	redax features**	texture*	oxid roots	%mottle	mottle color	matrix color
	4		<				- s	4		4			
	z		z				N D	z		z			
	derj a	o Som	n Wel	o Exc	DRAI	Parent	Depth	Landfo	Soil S	Soil S	Webs	2,3,8,9	Seil C
	□ Impermeable surface	a Samewhat poorly dr	p Well drained	□ Excessively dr	MNAGE*	Parent Material:	Depth to rest. Layer:	andform type:	Soil Series Source: Ohi	Soil Series/Type:	Sall Survey !	2,3,8,9 composited	Soil Collection Module
	80	8	0	0			la la		옻		to form	1	de la

Soil Series Source: Ohio Soil Survey

do Sall Survey in formation

refer to texture classes on reverse side

hydro cond \*\*\*

\*\* e.g. hydrogen sulfide odot, gleying, etc.

MadI-No

major appropriate

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

I S M D SOIL DEPTH MEASUREMENT: Measure to the neares 0.1 cm in center of intensive modules. If >30.5 cm, record as >30

Moderately well dr. Somewhat excessively

Very poorly dr.

	N	-	mod#
	0	0	1 litter+ organic depth (cm)
1 200	0	0	2 litter depth (cm)
	t	١	water depth (cm)
100	Λ.	1	depth sat soil (cm)

EARTH SURFACE & GROUND COVER  Underlying Earth Surface* Ground Cover    Sum   100%   Percent (Each ≤ 100%)

(Aquatic)	Herb	Shrub	Tree	Strata
	0	5 5	5	Helaht Range (m)
	4876	739	39.	Total Cover (%)

RFACE & G	RFACE & GROUND COVER	
Earth Surface*	x* Ground Cover	
percent	thach ≤ 100%)	percent
	Coarse Woody Debris***	5'
101	00% Fine Woody Debris****	00
e.	Litter	1 1 2
1	Duff (Ferm.+ Humus)	00
١	Bryophyle- Lichen	12.
bble = i/16-10		07
> 10 in	Bare Soil	S)
diameter	Road/Trail	0%
0	C. C	

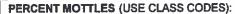
STRATA		Other
	14.	
×		-

therage .	Helight Range (m)	Total Cover (%)
Tree	7	39.
Shrub	5 5	739
Herb	0.5	98%
losting)*		
Qualic)		

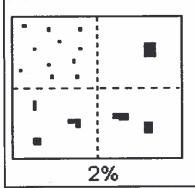
Deer	O Gravel	Bootleg unsanctioned	Hiking sanctioned	2 Bridle	All Purpose	Type %Caver	scord type and cover for each	NOUTE TRAIL INFORMATION:
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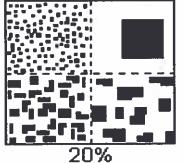
a > 100 x plot size STAND SIZE 1-3 x plot size 10-100 x plot size >600 x plot size 3-10 x plot size < plot sizz

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



Class	Code		Criteria: % of
	Conv.	NASIS	Surface Area Covered
Few	- I	#	< 2
Common	C	#	2 to < 20
Many	m	#	≥ 20



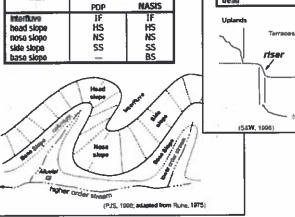


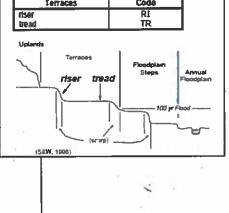
SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but 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

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) nase slope or NS.

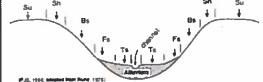
Hills POP IF head slope HS NS HS NS nosa slopo side slope





Hilistope - Profile Position (Hilistope Position in PDP) - Two-dimensional descriptors of parts of line segments (i.e., stope 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
shoulder	SH
backslope	BS
footslope	FS
toeslope	l 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.

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.