Project Label:	FROPARKS Plant Community Asse PCAP		_	Quality Control Form Quality Control Form Quality Control Form: 819/15 Lead: (KA
	8_100_1			Comment required if item answer is NO
Parking/Access outsi	de of Park Boundaries:	Y	N	If yes, write details in Comments section below
Field journals comple	ted	0	N	
Site sketch made on 1	1:3000 map?	(2)	N	
Check cover page	X-axis Bearing of plot recorded	8	N	(EE(A(T)) 10 =- 7.1
	GPS coords. Recorded	Q	N	
	North direction recorded	T (V)	N	36
	Photographs taken?	(K)	N	
	Relocated Pins Mapped	(9)	N	bid not set up
Plot No., Date agreen		198	N	100 150 200
Header data complete		180	N	
	ed in all Intensive modules	(V)	N	
Browse Level By Spe		170	N.	
Woody stem quality of		10	N	Check every line and cross check with the Tree Cover Sheet
nvasive plant quality		V	N	VA
Ash trees mapped		(v)	N	
The state of the s	st/Pathogen Datasheet	(0)	N	
Cover by Strata? (con	12: 10: 10:	18	N	
	d with matching plot #.	10	N	MA
Cross check 2010 inf	[1]	6	N	Highlight any changes from 2010 information
	datasheet with initials and number	(v)	N	rightight any changes note 2010 information
ouchers labeled on		N	N	
Pink flags removed	conection bag	1	N	
Data sheet QA before	leating cite?	1	N	
Common equipment:		(v)	N	
Data sheets scanned?		10	14	E-t d-t t 1-0
		+	_	Enter date to left
inal data sheets scan				Enter date to left
Buffer Widths measu	red?	Y	N	1
Web Soil Survey	- ·	Y	N	
Voucher Location	Refrigerator	Y	N	
# vouchers collected)	Press (#)			Enter number to left
CKM 395-		Y	N	
402	Identified	Y	N	
70 -	Mounted	Y	N	
	Thrown away	Y	N	
	N-31 = 0.			
	tion: Is plot sampleable?			35
□ Yes	Original GRTS point is sampleable			3
□ No	Original GRTS point lands in a non-		ar c a (f	ill in category below)
	Point falls in a water (i.e. river,			
	Managed mowed area (i.e. golf Paved area (i.e. parkinglot, road)	course, picnic	area, rigi	ht-of-way)
5	Unsafe to sample (i.e. steep slope	2)		
The same	Other			
Additional Commen	ts:	164		3. F3.
We left 2	on-50m Hags up	hesau	c D	of low we both the
וואן שעי	טווי ווייט ווייט עוף	041.00		TO TOWN WISHEST TO

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SAMPLING QUALITY* Minimum required fields in Bold and Underlined TAXONOMIC STANDARD CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet vascul TAXONOMIC ACCURACY Very thorough PLOT NOT SAMPLED: GENERAL INFORMATION Accurate Effort Level: Roles: Co-leader Asst. Guide, Owner, Taxonomist, etc. 180 : 080 Mod Name: Old ox bow Humed ind date (if > I day): 8 / Pate (mm/dd/yyyy): 8 roject Label: PCAP roject Name: 02RR 2015 Perm. water Paved Slope Safety Level 4 (no nested corners sampled) Level 5 (nested corners sampled)). Sweet Merchan (Seitale) nigh modera. may still provide good how much effort put into subjective evaluation of sampling. Hurried plots depressions Pub Date: 19/2015 Role** low Plot leader 2008 2015 o Other dus sou 1998 Systematic (grid) in Capture specific feature in Other Photo Nos.: C4866 x = 0 y = 0 (base of plot x=0, y=0) o Fuzz 100m o Fuzz 250m o Fuzz 500m Quadrangle: Hake Wood State: OH Plot placement: XGRTS Camera No.: Depth: (1-5): GPS File Name: GPS location in plot x=0 to 5, y=-1,0,+1) Datum: ■ NAD83/WGS84 □ NAD27 Lat/Long UTM a StatePlane Coordinate system: Source of coordinates UMAP Reason: Check one: Public data Derivate Date Data Confidentiality: 90/Hilliard Bridge LOCATION Random | Stratified Random | Transect component intensive modules: 2, 3, 8, 9 Coord. Accuracy: Mm of Other (specify) If data not public why? *Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide atitude: X-axis Bearing of plot: County: (Wyahoga deg odeg min □ Representative Coord, Units ■ GPS 10 147 (EDIT IF MODIFIED Veg Characterization: The canopy is dominated by fall cottonwoods and dominated by fall cottonwoods and the fact is dominated by Box Elder. The herb layer is extremely thick dominated by spicebush and wingstern and content), Rationale (why here), and Veg Characterization (description of community, NOTES: Include Layout (any unusual shape details), Location (directions and landscape Location: Park under the L-90 bridge on was Valley Puky. Walk south along Valley Pkwy Trail, for ~200 m. Plot 78 OX bow. ~ 20m off trail to the east in an old dominants, strata, BROWSE). Additional notes in space on back. Rationale: GRTS Layout: 2x5 No. 6 Plot origin & GPS location O #10 2 floodplain spacies E 3 photo taken, 13 7 with direction ŧ *5 location of Page 1 (ChardendMaine permanent posts OVER #5 悉

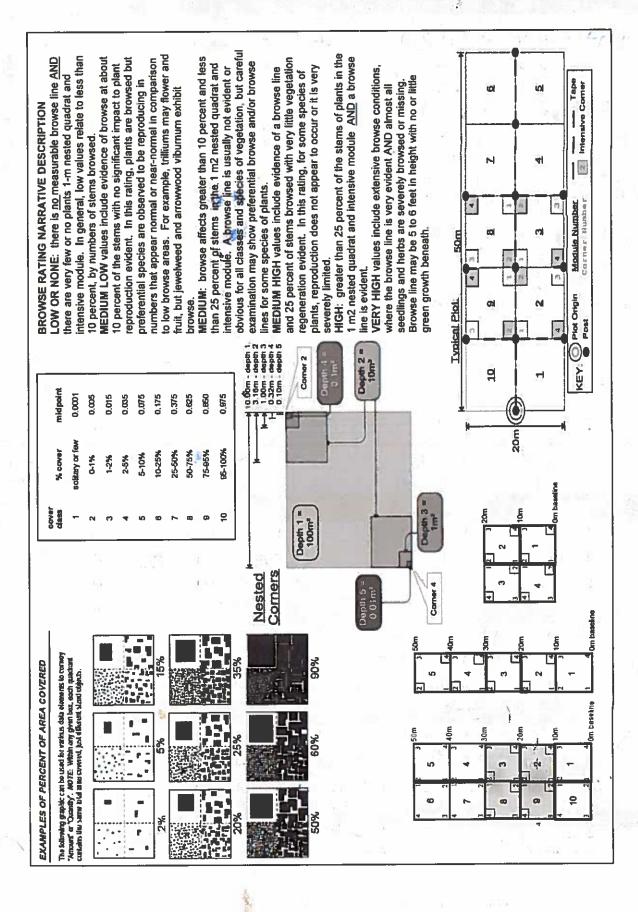
Project Label: PCAP Project Name: 02 RR 2	Project Label:	PCAP	Proj	Project Name: 02 RR 2015	2 RR	2015		Plot No.:	Plot No.: 1086	Page 2 of	Page 2 of 2
MODIFIED NATT RESERVE CLASS*	E CLASS*			Q	STUR	DISTURBANCES					
CODE (on separate form):		Fit=Conf=	7. 1			severity** yrs ago % of plot	yrs ago	% of plot	description		
207			and I	로 호	Human Natural	ML	0	\$50	Light amoun	t of A	Syddbon Y
COMMUNITY NAME:				F	_U						
Cottonwood Floodplain Forest	loodplain Fe	rest		Ani Cut	Cut	M	0	100	Deer bro	Dews.C.	
HOMOGENEITY					L=low A	fl_med low	, M=med	. MH=med	**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high	very high	
n Homogeneous	□ Compositional	Compositional trend across the plot		<u> </u>	errent L	Current Land Use: C	MP				THE REAL PROPERTY.
Conspicuous inclusions	o Irregular/pattern mosaic	mosaic		Fo	Former Land Use:						
1	E I	HYDROLOGIC REGIME*	GIME*								
	3	a Upland (seldom flooded)		□ Intermittently flooded	intly floo	ded .					
SALINITY*		□ Intermittently/seasonally saturated	/ saturated	n Semipermanently flooded	nanently	looded					
D Saltwaler		(seldom flooded)		a Permanently flooded	atly flood	pa					
o Brackish		C Permanently/Semipermanent. saturated	ment. saturated	□ Tidal/Seiche flooded daily	che flood	ed daily					i
o Fresh		(dry <1/yr, seldom flooded)	(pag	□ Tidal/Sei	che flood	□ Tidal/Seiche flooded monthly					
Mpland (r/a)		Occasionally flooded (<1/yr) Temporarily flooded	l/yr)	Tidal/Sei (c.g. wit	Fidal/Seiche flooder (e.g. wind, storms)	Tidal/Seiche flooded irregular (e.g. wind, storms)	1		ń		
(by default unless plot is a wetland)	fland)			o Unknown					00000		
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)	s: (Representativene	ess of plot to the stand, succe	ssional status, m	naturity, etc.)		, v	· ·	5	F v o C o	الا كالالا	buch
The stan	2	even aged with	A A	2 (0/19)	9	7	\ 5	7		+ - -	1
here gree doing good but most clumps are not mature. Uverall othersity is lower than the	good but	most clumps	are no	+ mat	- مالح	Dyertel	£ F	ersity	Tamol SI	than t	18
Lingto sampling but of contract	expected	with some	day.	e encra	gen.	mant.	40	Oxb Four	Hat day, a Only found one of four Elymus called	s water	
on last so	mpling.	on last sampling.	1 10 EV		6						
+											
		2000						Signa			

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheel Cleveland Metroparks Total modules: Project Label: trata - Cov. entire plot S H (F)(A) Br W Circara Francis KOSA WANTED AND Moss Sanjeula gregaria Sar Harpock Shr Acer neguinds describe amount of browse per species over Eupatorium avex loxicodendron radizans o Lygonan Virginianum erbesina rers la Br = Browse Level. Use cover classes to shop to ento are x puspal 0 pisabols arundihacea MUTTFLORP day oru 2 amphibile Corditarmis Virginica Species entire plot Denn sylvanico CERASUS utetiana Den Zoin altrin tolio ARUNDITAACT condens MASSAM H-ZW Barring n Intensive modules: %unveg. ground (bare sol intensive module: Estimate for each %unvegetated open water %unveg. litter (bere litter CKW39 CKM347 CKANGSH Project name: Voucher# Hopen water 1675 Ē Г N 02RR 2015 comer mod comer N 717 N ş Plot configuration: N ğ ş W N W Plot no.: w DOM 1086 2×5 Q DOM 7 ไก P H 8 O 7 7 ą mod æ Plot area (ha): ğ N Page W W W W N VŢ W ş (A 30 Q N ğ ğ

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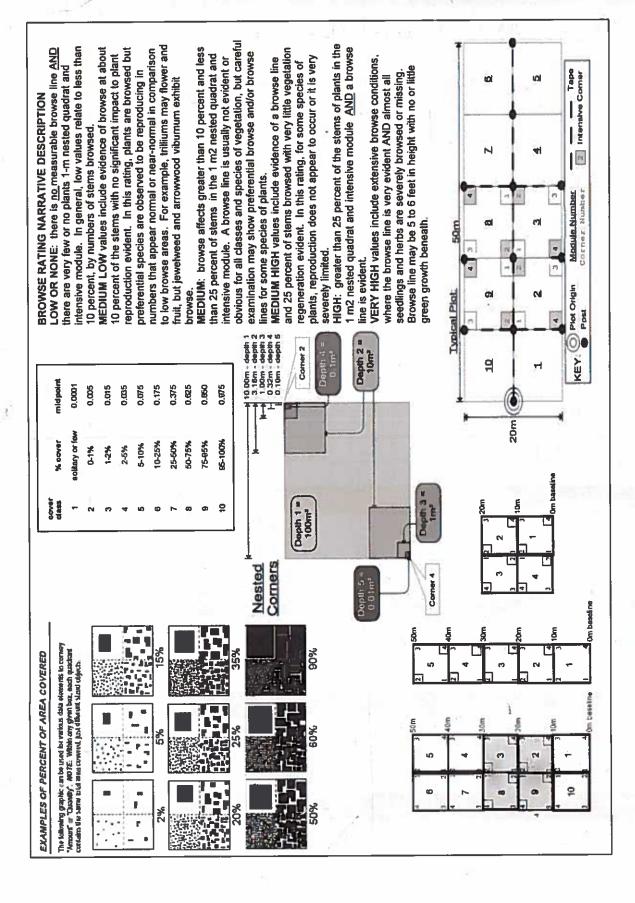


wall boarlike Awzzy Shed Strata - Cov. entire plot Cleveland Metroparks Total modules: S H (F)(A) Br 4 7 7 Hackelia Aesculus glabra EUONYMUS PORTUNETA Soldage Sungh Edroge a Quercus sp. Fraxinus 38. (seed ing) Oxalis strict Hmphicarpaea tar monia describe amount of browse per species over -ONTERRA MORROWAS Br = Browse Level. Use cover classes to typothens capensis erbono unicifolia practice #1 TRIODENDRON TULTURER YSI MACHIA NUMMIN IGUSTRUM VULGARE F SAWA O CMM Lycopus americand MUM DRULUS VAR VAO 1321 JOH Species Hexicaulis entire plot ALCO IN IGNO practeato CHAS O %unveg. ground (bare soil) Intensive modules: %unvegetated open water Estimate for each intensive module: 16 17 A SUTUBO CKM399 ndestinu m %unveg. fitter (bare litter) CKW39B **C4867** 1-8-11 30 CK/M 400 Voucher # %open water comer mod comer J N cay depth Plot configuration: ş VOS W NW W ğ 8 Plot no .: e depth cl 2×2/08 ğ 8 T mod oomer depen N N N 8 W ğ dopth depth G 30 Plot area (ha): ş ş 9 Page __ 2 7 N ş 3 8 2 8 depen N N 20000

BOUND

SRE_CM PCAP Species Cover Data .xls last revised 6/10/2015 jm द्व

Natural Resource Management FORM NR/2010-02a



CHE WHO Amoglica wormwood like pasa/ Cleveland Metroparks CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Strata - Cov, entire plot Total modules: Project Label: S H (F)(A) Br #*N UKFF Soph mer la PORCEGE 3 ALTARTA ROBINIA Carex 3 overrhand emarce Thetichrum Angelica atropurpured describe amount of browse per species over arpinus caroliniana Br = Browse Level. Use cover classes to \bar{o} Actemisia vija PSEUD BOACACIA entire plot dasy carpu PETTOLAT Cylindrica Project name: 02RR 2015
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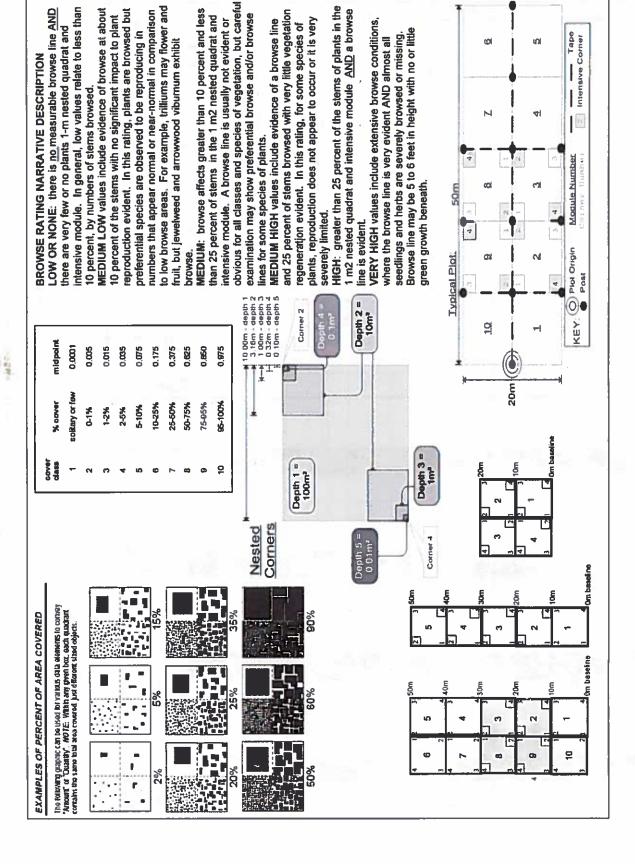
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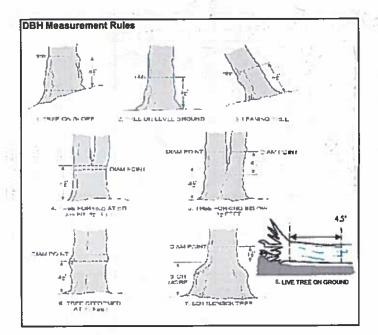
Project Labe	el: PCAP	Project Label: PCAP Project name: 02 RR 2015 Plot no.: 1086	1086
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- Cov	Ì	species (X)	
F - Br	7	c Voucher# 7 3 8 9	
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	CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Street			plot	L								<u> </u>	_					\vdash					ge a	-14		\dashv
		pel:		Strata - Cov. entire plot	គ																'						
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	Explain subsample (additional room on back):
SC 50 B	000
	1. Linder
3	1 Ac
	1 Standon
	1 Fraxons
1	1 fooding
2	2 Acer no
_	Linder
_	1 Standon
-	Francis
	Hartans occidentate
_	Ostrya virgianes
	Splataris accidentalis
	Acer regardo
-	Kindera berzoin
1	SHIV &
-	+ Under
-	4 Acer regulate
-	Stanbu
_	Askicoderator noticens
	Francis & Reasylvan
_	4 VOHS and Cipania
-	Lindera
_	Acu
-	The Control



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

IU













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.
- 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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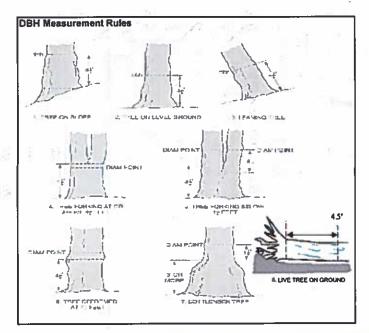
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ASH CANOPY BREAKUP CONDITION (for dead trees):

(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.

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet UMUS - CONS Stondary Standing Assalt Suidal + frexions lensylver where Acer regulate 722 Acer regulato Cindesa. Vito cipacia indesa PLAKING KNIGHTS 4 cel negundo Aller regundo traviaus gensylvanica Jopulus - Carland tarding regurdo benzoin benzoin 2)2079 benzoin Demsylvania genza\n benzon de la des Project Label: dead dead aena PCAP voucher# D コ browsed 91.4m or super % sub Project Name: 02 22 2015 D size class (cm) woody stems >1.4m 7 1-42.5 2.5-6 Plot No .: 1086 5-<10 10-<15 15 - <20 20 - <25 Page: 25 - < 30 2 30 - <35 잋 P gleveland Metroparks 35 - <40 ō 116.4 >40 (record each tree) 05.1 = 30



Woody Stem Deer Browse

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

Record using the tally system from 1 to













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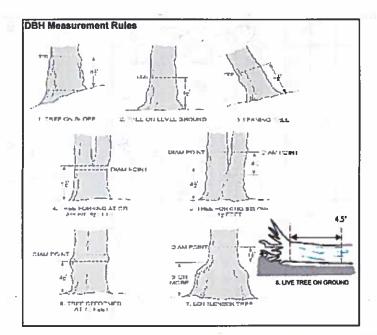
E

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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 10 aesculus glabra Standing dead bindera benzoin Aesculus alabora · x) wheren radians Fraginal SI Project Label: PCAP # stems browsed 0-1.4m or super % sub Project Name: QRR 2015 ahrub # size class (cm) woody stems >1.4m 2 1-<2.5 2.5-<5 Plot No.: 108/6 5-<10 10 - <15 15 - <20 20 - <25 Page: 3 25 - < 30 30 - <35 (P) Giercland Metroparks 35 - <40 ö >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















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- E: Central stem still standing.

CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet 21 22 10 2 22 19 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) Fraxilaus Frakins Project Label: PCAP pen's y wonica Voucher # Project Name: QBRR 2015 33.9 10.1 (CE) DE DBH CO Ash condition ASH Only holes 0 0 INTENSIVE MODULES ONLY Plot No.: 1086 9 0 Woodpecker holes 0 0 Date: 8-18-15 Baseline Map all ash trees ≥10cm in each module using Tree ID number *** Change intensive module numbers when necessary 80 2 1 Page: 1 of 2 **\$** w

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detection,	Rapid response		Pre:	sence		GPS	
in a mily account		NE	SE	sw	NW		Presence
Microstegium vimineum	Japanese stiltgrass						X: yes
Ranunculus ficaria	Lesser Celandine			11	\Box		
The state of the s	Black Swallow-wort						7
1	Flowering Rush					- c	1
Heracleum mantegazzianum	Giant Hogweed	\vdash					7
Tier 2: Assess a		8	# of	Plants	U. I	comments	T
		NE	SE	SW	NW		# of Plants
Acer platanoides	Norway Maple		1				1: 1-10
Ailanthus altissima	Tree of Heaven	 	la	1			2: 11-50.
onicera japonica (vine)	Japanese Honeysuckle		1	$\overline{}$		**************************************	3: 51-100
	Purple Loosestrife	\vdash	7	$\overline{}$		-	4: 101-1,000
		+		+	1		5: >1,000
Regopodium podagraria (G-cover) Celastrus orbiculatus (vine)		 		+-	 		1 2,000
Torilis sp.	Hedgeparsley		+	+	 		1
- P. 100 F.	Poison Hemlock		+	-	 		1
Conium maculatum ::: Chamnus cathartica	Common Buckthorn (shrub)		+	+	 	·	1
Rerberis thunbergii	Japanese Barberry (shrub)		+	+-	╁┈┪	· · · · · · · · · · · · · · · · · · ·	1
	European Alder	+	+	+	╁─┤	- 0-5-	1
Alnus glutinosa Dipsacus laciniatus	Cut-leaf Teasel	\vdash	1	+	┼╌╌┤		1
	Autumn Olive (shrub)	+	-	-			-
laeagnus umbellata		\vdash	+	+			-
onicera maackii			+	+	1		
Euonymus fortuneí	Wintercreeper		4 -5	Plants		comments	-
Tier 3: Presence is	or interest	NE	SE	SW	NW	Comments	# of Plants
Convallaria majalis (G-cover)	Lily of the Valley	INE	35	344	1444		1: 1-10
	Crown Vetch	_	+		1 1		2: 11-50.
leutherococcus pentaphyllus	Five-leaf Aralia (shrub)	+	+		1 1		3: 51-100
	Japanese Pachysandra	+-	+	1	1		4: 101-1,000
	Mock Orange (shrub)	_	+	 		:	5: >1,000
Philadelphus coronarius Pulmonaria officinalis (G-cover)		+	+	-	\vdash		31,000
	Wineberry	+	+	-	\vdash		┨
Rubus phoenicolasius ris pseudacorus (wetland)	Yellow Flag Iris		╫	+-	┼┈╌┤		┨
	Star of Bethlehem	+		+	 		┪
Ornithogalum umbellatum	European Cranberry (shrub)	+	╁	+-			┨
Viburnum opulus var. opulus	Doublefile Viburnum (shrub)		+	+	1		
/iburnum plicatum Tier 4: Widespread			Dro	sence		comments	
Her 4: Widespread	and abundant	NE	SE	sw	NW	Commence	# of Plants
Alliaria natiolata	Garlic Mustard	146	25	344	11.10		1: 1-10
Alliaria petiolata	Common Privet (shrub)	+	+-	+	+	<u> </u>	2: 11-50.
Ligustrum vulgare	Bush Honeysuckles (shrub)	_	+	+-	+		3: 51-100
L. morrowii, L. tatarica		+	2 m (+	+		4: 101-1,00
Phalaris arundinacea	Reed Canarygrass	┼─	+	+-	+		5: >1,000
Phragmites australis (wetland)	Phragmites	-	+	+	-		3. 71,000
Polygonum cuspidatum	Japanese Knotweed		+-	+			┥
Frangula ainus	Glossy Buckthorn (shrub)	1	+	+	+		┨
Rosa multiflora	Multiflora Rose (shrub)	+		+	-		┨
Typha angustifolia, T. x.glauca	Cattails (wetland)	+-	┿	+	\vdash		-
Cirsium arvense	Canada thistle		+	-	+-		-{
Dipsacus fullonum	Common Teasel	+-	+-	-	+		-
Hesperis matronalis	Dame's Rocket	-	+-	-	+		-
Vinca minor (G-cover)	Periwinkle	1	1	1			

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

		mod #		2	ω	4	ر ت	6	7	œ	9	10	
Project Label: PCAP Project Name: 03883015 Plot No.: 1		species	None Present										
P		voucher#											
PCAP	*	shrub											
Proje	size class (cm) woody stems > 1m	<u>7</u> -								ā			
Project Name: OARR 2015	m) woody	2 1-<2.5		CXTS.									
Oakka	stems >1r	3 2.5-<5											
05		4 5-<10	4										
Gais C		5 6 10 - <15 15 - <20											
Plot No.:		6 15 - <20			,					02.00			
108%		7 20 - <25	٠				i.						
		8 25 - <30						1F00				G Gyatos	
Page		9 30 - <35		- 8									
Clavela		10 35 - <40										Mar Gods	
Cleveland Metroperks of		7 8 9 10 11 20 - <25 25 - <30 30 - <35 35 - <40 >40 (record each bree)											
-					1				L		L		

* IF EVIDENCE OF PEST OR PATHOGEN RECORD TOTAL SPECIES POPULATION IN THE PLOT EVEN THE NOT INFECTED

Strata	# of stem Severity infected (H,M, or L)	* Write None Present if no evidence:	
Tree (size class 3 or above)	*	>	Asian Longhorned Beetle
Shrub			
(size class 2 or below including shrub clumps)		Hemlock (HWA)	Other Pest or Pathogen
		MADDE Walnut (Thousand Canker)	
Severity			8
High = more than 50% of leaf/needle cover exhibiting symptoms	eedle cover exhibiting :	ptoms	
Medium = Less than 50% of leaf/needle cover exhibiting symptoms	ıf/needle cover exhibitir	symptoms	
Low = Only a few leaves or branches are exhibiting symptoms	nches are exhibiting sy	toms	

CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface
Project Label: PCAP Project Name: DR RR 2015 STANDING BIOMASS (required for emergent wetlands) collected in 0.1m clip plots (32x32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C7-check when ollected ្ជ

PHO! No.: 108/2

Chevel and Stebrogarts Page: 1 of 1

IFILLED DUT USING GIS PROGRAM • DO NOT PILL OUT IN FIELD! McNAB INDICES (degrees) + for up - for down

CLASSIFICATION		
(FT) * overfloot, g Ff1 and Confidence		
Hydressemerakis dan OWETLANDS ONLY):		
n DEPRESSION	H	Conf-
a IMPOUNDMENT a Beaver a Human	File	Conf=
n RIVERINE o Hondwater o Mainstein o Chamel	E I	Conf-
EI SLOPE (ground water hydrology or on a physical slop)	7	Conf-a
o FRINGING o Reservoir o Natural Lake	7	Conf's
a COASTA1, (specify subclass)	Fit:	Conf=
a BOG (strangly, moderately, weekly ambiguraphic)	File	Confr
Ohie EPA VIRLITANI Community Class OVETLANDS ONLY:	NLY.	
n FOREST o swamp forest n bog forest n forest seep	File	Conf.
o EMERGENT o marsh o wet meadow o open bog	7	Conf [±]
a SHRUB a shrub swamp a tall sh. bog a tall sh. fen	Fit=	Confa

יי	n n	2 0 2	Module	CROWN COVER (DENSIOMETER): Make 4 readings per module Skring N. S. E. W. Place dot count in corresponding space. (4 dots per grid square)
	83	w	*	ount in

10 feature is precent in moderate or greater amounts and of highest quality

nussocks 70. of

hummocks

depressions DO MINCTO

(2-12 cm)

(12-40cm)

>40 cm

interspers. пистовав.

C.W.d

CW.d

P.W.S

mecroheb

C.W.d. - count for pieces with min

num 1m lengt

no, of

plands (Tip-Ups)

feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality

feature is present in the wettend in very small amounts or if more common, of low quality

leature is absent or functionally absent from the wettend

spe 1 = slight elevational grade across module (hill)

nits for microhabital feature. Select one or select two and everage the score.NOTE; If mod falls on a slope subcreatically gets ranked based on sloopness (1-3) to begin + any features present

Slope 2 = falls on slope -20 *

Slope 3 = maximum sleepness that can be safely sampled -45"

Landform Index (position within landscape) Terrain Shape Index (sile microtopographic shape)

+315 degrees +270 degrees +225 degrees

¥ ٤ WS +150 degrees +135 degrees

+90 degree +45 degrees Al aspoc

ធា

angles formed by local slopes. For TSI measure

LFI is angle of plot to the horizon. TSI is

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

SENS.

똤 z

SE

ICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

HOTE: buseock and hummocks are counted in BOTH nested quadrat corners but counts are aggregated.

0 (n/b)

2

0

O

0

0 0 0 0

0

95

0

0 0 0

0

0 0 (count) lx lm depth 3

(count)

6

3.16x3.16m depth 2

IDA I Um (count)

> 102 000 depth 1

> 10x10m depth I

> 10x10m deprh I

> HON ION SLOPE

(count)

(count)

ω_§ 83

depth 1

depth I 10x10m

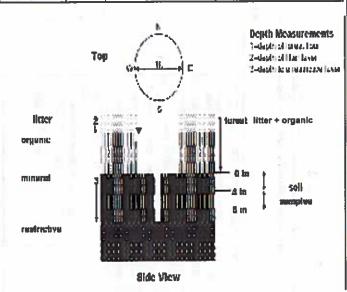
~~	VER	DV	PT	The A	TA
uu	VER	DI	31	KA	IA.

COTEL DI GUNTIN	
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.



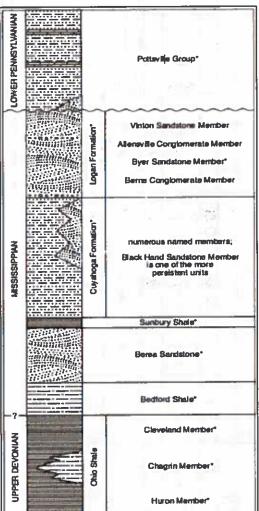


FIGURE 3-20.—Generalized section of Upper Devoman, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio. Asteriaks indicate units that are manifesters. This emploise section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The series "Wavetty" is used in the older literature to refer to Mississippian rocks in Ohio. Some geologists use the European term "Carboniserous," which encompasses the Mississippian and Pennsylvanian Periods of the U.S. Many units have been named within the Cuyahoga Formation, but most units are local and cannot be traced over great distances. The Black Hand Member is a spectacular measure sandsome that is fairly widespread but discontinuous. See Hyde (1953), Hoover (1960), and Collins (1979) for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of took types.

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a
Project label: PCAP Project Name: 04/863015

(4) Occureband Metroparks

Page: 1 of 1

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

Soll plt module # (one per entire plot)

					20 cm							S CH
redox features**	lexture*	axid mots	%motile	mottle color	matrix color	hydr. cond.***	redox features**	lexture*	exid roots	%mottle	montile color	matrix color
4		~	a.			- S	4	13	4			
z		z				M D	z	100	z	511		
					0000			'n			(1972)	

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

e.g. hydrogen suifide odor, gleying, etc. indundated S-saturated M-moist D-dry

tes: include evidence of earthworms (worms

MOD9: Costings present Mad 8: Castings present MOD 3: Costings present MOD a: Costings 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

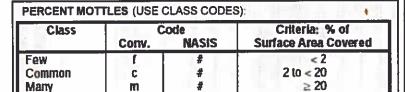
a impermeable surface	a Well drained a Moderately well dr a Somewhat poorly dr. a Very poorly dr.	Excessively dr	DRAINAGE*	Parent Moterial:	Depth to rest. Layer:	Landform type:	Soil Series Source: Ohio Soil Survey	Soil Series/Type:	Wab Sail Survey Information:	2,3.8,9 composited	Sell Collection Model Herizon (A. B. C.)
	ge Pr	sively		L	L		1			>	

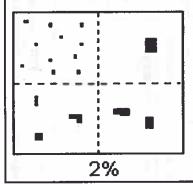
	••• >5 cm in diameter	••Boulder = > 10 m	* Gravel-Cobble = 1/16-10*	Bedrock	Boulder**	Gravei-Cobble*	Mineral Soil	Histosol	(2001 - 1005G)	Underlying Earth Surface*	EARTH SURFACE & GROUND COVER
maca .	nder	5	1/16-10*	1	1	1	400	1	percent	Surface*	CE & GROU
Other	Road/Trail	Bare Soil	Water	Bryophyte- Lichen	Duff (Ferm + Humus)	Litter	Fine Woody Debris****	Coarse Woody Debris***	(Each \(\) 100%)	Ground Cover	IND COVER
1	1	r	r		O_	100	2	6	percent	100	100
63	210	111		T Table		26	22	5%			- 0

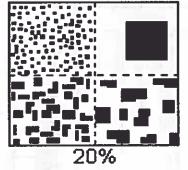
COVER BY STRATA	COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13	% % % % % % % % % % % % % % % % % % %
Strate	Height Range (m)	Total Cover (%)
Tree	5	68
Shrub	25 - 5	22 8
Herb	0-25	93
(Floating)*	.1	(
(Aquatic)	١	1
rooted and I	" rooted and floating or slightly emersed "submersed, most plant mass below surface	ed surface
SEE BACK O	SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS: STRATA CAN VARY BY COVER TYPE	"STRATA

n Deer	3 Gravel	3 Rootleg unsunctioned	a Hiking sanctioned	n Bridle	a All Purpose	Туре	record type and cover for each	TRAIL INFORMATI
	100	8.		be		%Cover	for each	OME

C < plot size	□ 1-3 x plot size	□ 3-10 x plot size	10-100 x plot size	n > 100 x plot size	□ >600 x plot size	STAND SIZE	
_	-				-	111	1







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

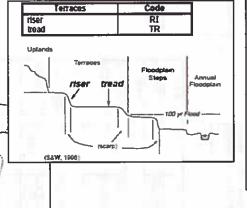
Position

shoulder

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

e.g., (for Hills) nose slope or MS.

		PDP	
IF HS	Т	IF HS	Interfluve
NS	1	l NS	nose slope
SS	- 1		rido ciono
B	t	HS NS SS	head slope nose slope side slope base slope



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

hackslope footslope toeslope	BS FS TS	6	
Su Sh Bs		Sh Ba	Su

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.