Project Label:	РСАР	_ '	101 100	: 1077 Date Sampled: 8-12-6 Lend: Experience
				Comment required if item answer is NO
Parking/Access outsi	de of Park Boundaries:	Y	<u>(N)</u>	If yes, write details in Comments section below
Field journals comple	eted	0	N	
Site sketch made on	1:3000 map?	T (V)	N	
Check cover page	X-axis Bearing of plot recorded	6	N	
	GPS coords. Recorded	0	N	
	North direction recorded	(V)	N	<u></u>
	Photographs taken?	(y)	N	(4)
	Relocated Pins Mapped	79	N	1
Plot No., Date agreen	nent on all pages?	<u> </u>	N	
Header data complete	ed all pages?	Q	N	<u></u>
Cover classes recorde	ed in all Intensive modules	\bigcirc	N	
Browse Level By Spe	ecies	Y	N	
Woody stem quality of	control check		N	Check every line and cross check with the Tree Cover Sheet
nvasive plant quality	y control check	Y	N	NA
Ash trees mapped		Y	N	N/A
Completed Forest Per	st/Pathogen Datasheet	\bigcirc	N	ALCOHOL TO THE PARTY OF THE PAR
Cover by Strata? (cor	nfirm cover type)	₩.	N	
Soil samples collecte	d with matching plot #.	Y	N	NA
Cross check 2010 inf	formation		N	Highlight any changes from 2010 information Some 155195
Vouchers labeled on	datasheet with initials and number	Q	N	
Vouchers labeled on	collection bag	Q	N	
Pink flags removed			N	
Data sheet QA before	e leaving site?	O	N	
Common equipment:	returned to tub.	Y	N	
Data sheets scanned?				Enter date to left
inal data sheets scar	nned?			Enter date to left
Buffer Widths measu	ired?	Y	N	
Web Soil Survey		Y.	N	N = 100 = 100 N 2 10 N
Voucher Location	Refrigerator	· Y	N	
# vouchers collected)	Press (#)			Enter number to left
Y AX	Drier	Y	N	
DE	Identified	Y	N	
712-72	Mounted	Y	N	1.
440	Thrown away	Y	N	

RTS point verifi	cation: Is plot sampleable?
✓ 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, lake)
	☐ 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)
	Other

Additional Comments:

Plot looks weird, Found conterline 20,30,40, Rightside 10,20 Leftside 0,10 Pin at 20m on right side is a meter off, Mod 3 has 2 large fagus

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

Pin out of ground at 10m centerline.

Thus not near where it was

supposed to be

not in add data

OVER	CVS Field Guide	*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide	equired fields in Bold and Unde
0	White arass	Contempolit (and) of Cardina spacetic fasting of Other	Authority: G&C Pub Date: 1998
carina grass, Ash Seed line	יסט וינמחתמ מ	□ Random □ Stratified Random □ Transect component	TAXONOMIC STANDARD
	Merb: I M	Plot placement: XGRTS - Representative	lichen X
		Photo Nos.: CZ-4600	byo
wholes smidt	Silver School of the second	Camera No.: CZ	vascul. X n/a
30		Intensive modules: 2.3.8.9 1,2,7.8 (EDIT IF MODIFIED)	high modera low not smpl
Ostruce 1 200	OSTAGE	Depth; (1-5): 4	TAXONOMIC ACCURACY
Rooch Carra Govern	Chinopy: Syour Membe	of plot:	- Hurried data
طا	Ved character trainers	Plot size for cover data: , 08 (hectares)	Accurate may still provide good
	くい いいけんちいろうしい・	GPS File Name: 077 A	Avery thorough how much effort put into
	Rationale: GR TS	Coord. Accuracy: 5km of ft +- 3	Effort Level: subjective evaluation of
as crancy occasion date.	lice burk key, lock of w	Longitude: 81, 75613	SAMPLING QUALITY*
on road laws	Don't de la contrada	Latitude: 4/30490	□ Perm. water □ Paved □ Slope □ Safety
turking it is Mass	onton at occasion area	x = O y = O (base of plot $x=0$, $y=0$)	PLOT NOT SAMPLED: G Other
to the mowed	area Platis wery close	GPS location in plot $x=0$ to 5, $y=-1,0,+1$):	** Roles: Co-leader, Asst., Guide, Owner, Taxonomist. etc.
s past of parking	The Day Plat	Datum: ■ NAD83/WGS84 □ NAD27	
Road Picnic Area	Location. Park of York	□ Other (specify) ■ m □ ft □	D. Sweet Woods
spins not relocated origin, (0,-1), L,	Layout: 2x4 spins n	■ Lat/Long □ UTM □ StatePlane ■ deg □ deg min	FICKEUSS Woods
n space on back.	dominants, strata, BROWSE). Additional noles in space on back	Coordinate system: Coord. Units	T. Cochran 3 Asst
uls), Location (directions and landscape lerization (description of community,	NOTES: Include Layout (any unusual snape details), Location (directions and landscape content), Rationale (why here), and Veg Characterization (description of community,	Source of coordinates MAP GPS	S. Eusonbach Plot leader
with direction permanent posts	Key: (0,0) point point	If data not public why?	Party Role**
aboto taken a location of	Diagram GDS location	Reason:	End date (if > 1 day): / /
#3 #	#:	o Fuzz 100m o Fuzz 250m o Fuzz 500m	Date (mm/dd/yyyy): 8 / 12/2015
ະວ		Check one: Public data Private Data	■ Level 5 (nested corners sampled)
_		Data Confidentiality:	 Level 4 (no nested corners sampled)
No.	\$ C	Landowner: CMP	Plot No.: 10 77
4		Picnic Area	1
	**	vames:	Plot Name: Something about
Alger		angle: Sowea	Project Name: 028RZ015
my tool	/	State: OH County: Cuyonage	Project Label: PCAP
		LOCATION	GENERAL INFORMATION
Ar & Page 1 of 2	d Data Sheet York Pronc Arac	CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	CLEVELAND METROPARKS Plant Co

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet Project Label: $PCAP$ Project Name: $O2BR2$	mmunity Assessment Pr	rogram - Bac Project	Kground Da	- Background Data Sheet Project Name: $028(2015)$	10	Plot No.:	Plot No.: 1077 Page 2 of 3	Page 2 of 2
MODIFIED NATURESERVE CLASS*	e 200		DIS	DISTURBANCES	S			
CODE (on separate form):	Fit= Conf=		type*		severity** yrs ago % of plot	% of plot	description	
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5,5		(1)	Natural	1			0 '	
COMMUNITY NAME:			Fire		-			
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		×	Animal	I	0	90/	Growse-	
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HOMOGENEITY			<u>"</u> ,	ow, ML=med lo	w M=med.	MH=med	**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high	
Homogeneous a Compositional trend across the	trend across the plot		Curr	Current Land Use:	Park	j		
Conspicuous inclusions 🗆 Irregular/pattern mosaic	n mosaic	220	Form	Former Land Use:				
	HYDROLOGIC REGIME*	IME*						
	Upland (seldom flooded)		a Intermittently flooded	flooded /				
SALINITY*	e-Intermittently/seasonally saturated	aturated	D Semipermanently flooded	ently flooded				
o Saltwater	(seldom flooded)		Dermanently flooded	Nooded				
D Brackish	□ Permanently/Semipermanent, saturated	int, saturated	n Tidal/Seiche flooded daily	flooded daily				
o Fresh	(dry <1/yr, seldom flooded)	-	o Tidal/Seiche	Tidal/Seiche flooded monthly				
· Oupland (n/a)	□ Occasionally flooded (<1/yr)	(1)	□ Tidal/Seiche	□ Tidal/Seiche flooded irregular	1			
	□ Temporarily flooded		(e.g. wind, storms)	torms)				
(by default unless plot is a wettand)			□ Unknown					
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)	ess of plot to the stand, successi	ional status, mati	rrity, etc.)					
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portion of the plot	plot is hear	A Ver	A Wat	area.	107	\$ 0 s	sugar maple	
Browse is heavy throughout the plat. Some trush is present.	and through	ost the	رقع کے	t. &	ne tre	3	s present.	
plot is influenced by open pictic area and wetland on both edges.	d by open pi	CPIC A	Les an	el wet	land	6	ooth edges.	
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CLEVELAND MET	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet	nent Program Speci	es Cover Data She	Distance .	1077	Page 2 of 3	
Total modules:	8	Intensive modules:	H Plot cor	guration: 2		Plot area (ha): 08	
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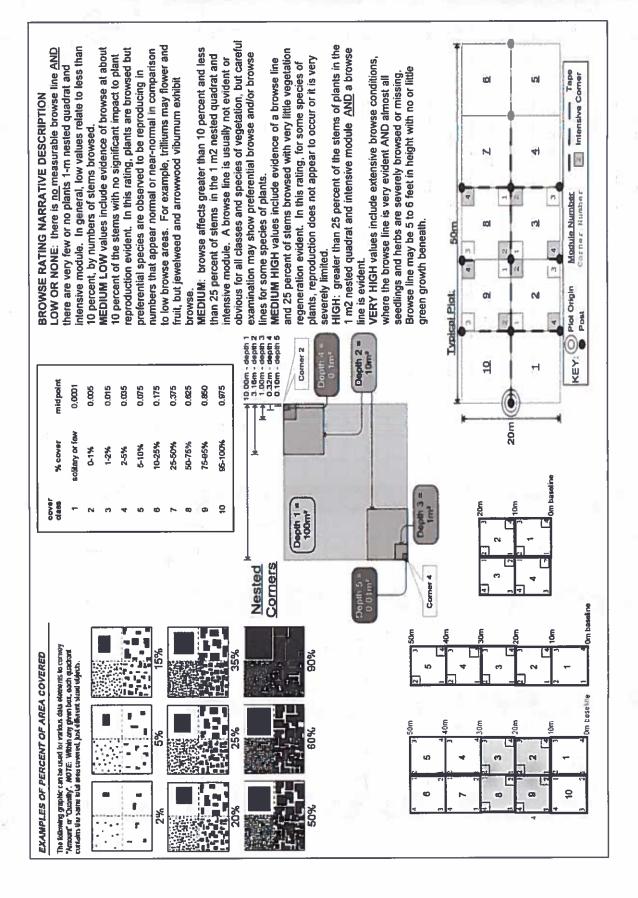
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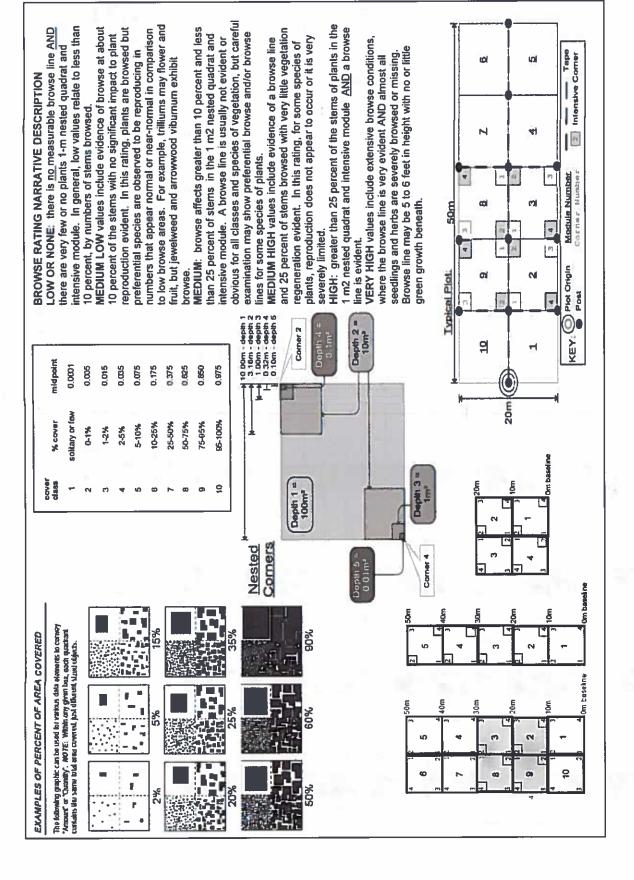
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% COVER CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Strata - Cov. entire plot Project Label: 6 뫄 Acer Icaxinus americano Utitus americane Grunus serbting Tillia americany Acur subsom Facus Ostrus Carpinus caroliniana Conga Cordiformis Ulmus rubra Sechanim grand folia Yirgini and Species Prensence of tree mod mod species (X) 2 Project name: 02 BR2015 Plot no.: 1077 Voucher # 又 ZJ 2 Page /

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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label:

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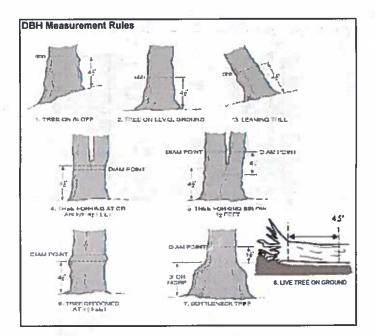
Project Name: 07MSZ015

Plot No .: 1077

Page:

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			# stema	% sub	**	size class (cm) woody stems >1.4m	cm) wood	y stems >	1.4m					10		
mod #	species	c voucher#	0-1.4m browsed	or super	shrub dumps	<u>z</u> -	2 1-<2.5	3 2.5-<5	4 5-<10	5 10 - <15	6 15 - <20	7 20 - <25	8 25 - <30	9 30 - <35	10 35 - <40	11 >40 (record each tree)
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8	FLAXINUS prahsylvanica		•											K		
S	ROS multislan															
7	Toxicodendron labicons	5	•													
K	Evoluto summors														dears	
1	ALLY GOLCH ON UM					la la	超日		• •	•						
4	Standing dead				,								(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)			LEN
2		IJ	4			-					,					
1	THE AMERICA ??			7		-8										



Woody Stem Deer Browse

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

Record using the tally system from 1 to















ASH CANOPY CONDITION

- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
- 2. Thinning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.
- 3. Dieback: Canopy is thinning and some top branches exposed to sunlight are dead (have no leaves). Lower branches, not exposed to sunlight, die naturally and are not considered.
- 4. >50% Dieback: The canopy has less than half of the leaves that should be there and/or half of the top branches are dead.
- 5. Dead canopy: No leaves remain in the canopy portion of the tree. It still counts as a 5 even if there are epicormic sprouts below the canopy (lowest branch) on the trunk.



В

C

D

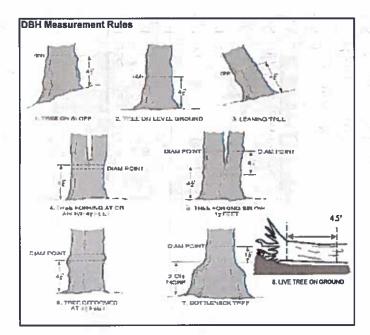
.

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.

nuis		тод	_	4	*	Ç.	2	Ý	X	14	な	8	Sq	S	N	V	B	R	6	6/	6	5	4	6	1	13
Project Label: Pi	- Yhan I sensai ibia (andinosiai I control	species	, W110-		friends touch to me	ROS- MITTHON	4112 Sp.	~	Alu Succlimium	4	they judium	Bismo Vilginian	daya Waibumis	8	1000	ıcı	1 890 Sr				2	2		7	toompro Journa	Emple and
PCAP	ics).	voucher#							115					,												1
	# starns	0-1.4m browsed			r		•							×	٠	**	٠					•:			7.7	::
Projec	% sub		_						- "																	
Project Name: 02 MS(015	#	B &											52		•											
07MS	ize class (2 - 2						1790	•	,	S47.			*:	×											
1818	size class (cm) woody stems	1-<2.5		44					拉区	**				1					XXX		***					
	v I I	CO -							נו				pr-						A		•					
Plot No.:	1.4m	8	_											111-4			2									
740		10 - <15		×				22	X.										3.0							
		6 15 - <20	_						ì		×															
Page:		7 20 - <25						9			•											1,	- is			
٦		å 25 - <30													_											
<u>o</u>		9 - <35					4																			
W		10 35 - <40		Phonon																			•			
3 Commonwealth		11 >40 (record each tree)											45,4											VIII ASS		
	JL	-			1	37	Conto									,										



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 1













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В

C

D

E

ASH CANOPY BREAKUP CONDITION (for dead trees):

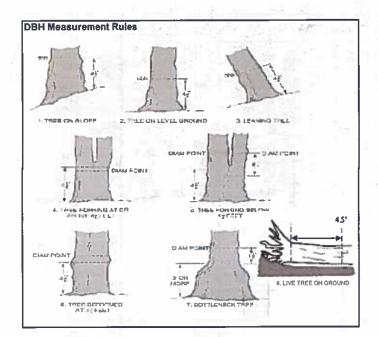
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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet My ranson OSMA worder my Harding dead Pric Southarn Explain subsample (additional room on back) Ulmus sp. Youx mus american MIRANG Rups alkahenicus Eurymus fairuni Forgus guardiblio largious condiniar Ostype virginiare Kubus alkajuni eusi From Inus plansy wanic begus annellour wins wilmoso まました しんべんだって phillia mothing Eurinus pennsylvanita DIAUS followest loxicodendron sadicons Las VIGINIANO 10 10 11 niano Project Label: PCAP voucher# t 23 11 0-1.4m or super % sub Project Name: 12 MSUNIS shrub size class (cm) woody stems >1.4m 図は D 1-<2.5 7 n 2.5-<5 Plot No.: 1077 5-<10 10 - <15 15 - <20 20 - <25 Page: 3 25 - <30 30 - <35 잌 (Dicienciand Metroparks 35 - <40 ö 44.W 4.05 44.0 >40 (record each tree) =

3aCM PCAP Natural Woody Stem Data Sheet ver 2.0.xls last revised 5/29/2012 jim

くくこうかん



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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CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet D Tree 25 20 15 14 10 2 22 2 19 18 17 ᇙ 13 23 9 Ch. 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) 202 Species greent Project Label: PCAP Voucher# Project Name: DZHSZUS (cm) DBH CO Ash 'Dead # Exit Epic condition condition holes pre Epicomic present PIOT NO.: 1077 Date: Woodpecker holes Date: 8/12/15 Baseline *** Change Intensive modute numbers when necessary Map all ash trees >10cm in each module using Tree ID number TREES ≥ 10CM ONLY - 40 N Page: 1 of 2 **@** <u>د</u>

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detection	/ Rapid response		Pre	sence		GPS	
The straint were straint		NE	SE	SW	NW		Presence
Microstegium vimineum	Japanese stiltgrass	- 1.42			1111		X: yes
Ranunculus ficaria	Lesser Celandine	-	1				
	Black Swallow-wort	_	1	 			┥
	Flowering Rush		+	1			\dashv
Heracleum mantegazzianum	Giant Hogweed		\dashv				_
Tier 2: Assess a			# 01	Plants	Version 623	comments	10
Hel & Masesa t	3 1466566	NE	-	sw	NW	W Collinion Co.	# of Plants
Acer platanoides	Norway Maple	116		211	1.44		1: 1-10
Ailanthus altissima	Tree of Heaven	=	_	+			2: 11-50.
Lonicera japonica (vine)	1	-	-	-	 		3: 51-100
	Purple Loosestrife	+	+	+-	 		4: 101-1,00
	Bishop's Goutweed	\dashv	+	+	 		5: >1,000
Celastrus orbiculatus (vine)		+	+	+-		***	[3. >1,000
·····	Hedgeparsley	\dashv	+	+-	1 1		\dashv
Torilis sp. Conium maculatum	Poison Hemlock	+	+	+			-
Rhamnus cathartica	Common Buckthorn (shr	161	+	-	-		-
Berberis thunbergii	Japanese Barberry (shr			+	 		\dashv
Alnus glutinosa	European Alder	וטו	-	+			
Ainus giutinosa Dipsacus laciniatus	Cut-leaf Teasel	-	+	+	 		-
	Autumn Olive (shri	153	+	+-	 		\dashv
Elaeagnus umbellata Lonicera maackii	Amur Honeysuckle (shr		+	+-	 		-
	 	101		╅			_
Euonymus fortunei Tier 3: Presence i	Wintercreeper		4 04	Plants	300000	annon ante	100
Ther 5; Presence i	5 Of Miterest	NE		SW	NW	comments	# of Plants
Convallaria majalis (G-cover)	Lily of the Valley	145	JUL	344	1111		1: 1-10
	Crown Vetch		_	+	 		2: 11-50.
Eleutherococcus pentaphyllus	Five-leaf Aralia (shru	ıbl	+	+			3: 51-100
	Japanese Pachysandra	,,,	+	+			4: 101-1,00
Philadelphus coronarius	Mock Orange (shr	ub)	+	+	 		5: >1,000
Pulmonaria officinalis (G-cover)		30,	+	+	 		3 1,000
Rubus phoenicolasius	Wineberry	\neg	_	+	 		\dashv
	Yellow Flag Iris	\dashv	\dashv	-	 		\dashv
Ornithogalum umbellatum	Star of Bethlehem	+	+		+		\dashv
Viburnum opulus var. opulus	European Cranberry (shru	ıb)	+	+			
Viburnum plicatum	Doublefile Viburnum (shru	-	+	+-			\dashv
Tier 4: Widespread		10,	Dre	sence		comments	
THE THE VOICE OF THE PERSON NAMED IN COLUMN 1		NE		sw	NW		# of Plants
Alliaria petiolata	Garlic Mustard	146	120	311			1: 1-10
Ligustrum vulgare	Common Privet (shru	h)	\dashv	+	 		2: 11-50.
L. morrowii, L. tatarica	Bush Honeysuckles (shru		+	+	 		3: 51-100
Phalaris arundinacea	Reed Canarygrass	,	+	+	 		4: 101-1,00
Phragmites australis (wetland)	Phragmites	\dashv	-	+	 		5: >1,000
Polygonum cuspidatum	Japanese Knotweed	+	_		 		J. 72,000
Frangula alnus	Glossy Buckthorn (shru	h)	+	1	 		\dashv
rrangula ainus Rosa multiflora	Multiflora Rose (shru	_	+	+	 -		\dashv
	Cattails (wetland)	η 	+	+	 	·	\dashv
Typha angustifolia, T. x.glauca Cirsium arvense	Canada thistle	+	+	+	 		\dashv
7		\dashv	+	_			\dashv
Dipsacus fullonum	Common Teasel		\dashv	_	 		-
Hesperis matronalis	Dame's Rocket		_	_	+ +		\dashv
Vinca minor (G-cover)	Periwinkle						

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

						10	9	œ	7	o	ڻ.	4	ယ	2		mod #		CLE
	Shrub (size class 2 or below including shrub clumps)	Tree (size class 3 or above)	Strata	IF EVIDENCE OF PEST OR PATHOGEN RECORD TOTAL SPECIES POPULATION IN THE PLOT EVEN											THESERVE STOCK	species		CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Sheet Project Label: PCAP Project Name: 02M57 o 15 Plot No.: {{\oldsymbol{E}}}
			# of stem	THOGEN												voucher#		Communit
			Severity (H.M, or L)	RECORD TOI												shrub clumps	#	PCAP
				AL SPECI												<u> </u>	size class (cm) woody stems >1m	rt Program Projec
		Now	* Write	ES PO												2 1-<2.5	m) wood	* Name:
		T	None P	ULATIO												3 2.5~5	stems >1	Pest ar
Walnut	Hemloc	Beech	resent if	N IN												4 5≺10	-₃	ngram Forest Pest and Pathon Project Name: 02MS7 o 15
(Thousa	Hemlock (HWA)	Beech (Fungus)	* Write None Present if no evidence:	HE PLO										in the second		5 10 - <15		ogens D
Walnut (Thousand Canker)	•		ence:	T EVEN												6 15 - <20		Piot No.
(er)		No		THE NO	4							I Tomas Andrews				7 20 - <25		Plot No.: (D]?
		2		THE NOT INFECTED												25 - <30		2.1.02/6.0
	Other F	Asian L		CTED												9 30 - <35		Page:
	est or P	onghorn.	F													10 35 - <40		(A)
	Other Pest or Pathogen	Asian Longhorned Beetle														>40 (record each tree)		Cleveland Metroparks

Severity

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

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

Low = Only a few leaves or branches are exhibiting symptoms

CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface

Project Label: PCAP Project Name: DCM S 20X

Phot No.: 1077

Page: 1 of 1

MCNAB INDICES (degrees) + for up - for down (filled out using ais program- do not fill out in field)

Module #	C7	Corner	Corner
		111	Ģ
			Į
	_		

CLASSIFICATION		πŽ
FIT = execitent, p Fit and Confidence		
tydroexomerphic class (WETLANDS ONLY):		
DEPRESSION	<u>=</u>	Conf
IMPOUNDMENT a Beaver a Human	1	Conf=
RIVERINE to Headwater to Mainstern to Channel	1	Conf+
SLOPE (ground water by drokogy or on a physical slop)	7	Confa
FRINGING to Reservoir to Natural Lake	======================================	Conf=
COASTAL (specify subclass)	F	Confa
s BOG (strongly, moderately, weekly ombrotrophic)	Film	Conf=
This EFA VIBI Flant Community Class (WETLANDS ONLY):	E S	
FOREST a swamp forest a bog forest a forest seep	7 7	Conf=
SHRUB to shrub swamp to tall sh. bog to tall sh. fen	Fic	Conf=

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

tope 1 = slight elevational grade across module (NII) write for microhabitat features. Select one or select two and everage the acces,MOTE; If mod falls on a slope automatically gets ranked based on steepmess (1-3) to begin + any features present Slope 2 = talls on slope ~20 * Slope 3 = maximum steepness that can be safely sampled -45"

- feature is absent or functionally absent from the wedland
- feature is present in the wetland in very small amounts or if more common, of low quality
- 7 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

-	-	a	-	h	0	U	0		8
_	-	0	-	- 24	0	0	O		4
-	-	0	0	4	1	0	σ		2
-	-	0	c	=	-	0	0		_
(rank)	(rank)	(count)	(count)	(count)	(count)	(count)	(count)	COFFEE	modil
10x10m	I Ox i Om	10s10m	10x10m	10x10m	16x30m	3.16x3.16m	lxlm		
SLOPE	depth I	depth I	depth 1	depth 1	depth I	depth 2	depth 3	2	
						uplands (Tip-Ups)			
	interspers.	>40 cm	(12-40cm)	(2-12 cm)	depressions	hummocks	tuesocks		
microhab.	microhab.	cwd	c.w.d	6,8/.d	no macro.	no. of	no. of		
		nicimum 1m length	c.w.d count for pieces with minimum 1m langth	c.w.d coun				-	

* Landfrim Index (position within tandscape)
** Terrein Shape Index (site microtopographic shape)

+225 degrees

٧S

+135 degrees

SE

LFI is angle of plot to the horizon. TSI is angles formed by local slopes. For TSI measure angle from recorders eye to eye of person standing ~10 m

+270 degrees

٤

Sena.

+315 degrees

N.Y

+45 degrees

ă

At aspect

z

TSI ..

+90 degrees

CROWN COVER (DENSIOMETER) Make a readings per module facing N. S. E. W. Place dot count in domesonding space. (4 dots per grid square)

h h 0 4
2 2

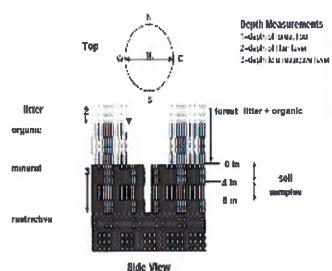
PHOTE: fuseock and hummocks are counted in BOTH nested quadral corners but counts are eggregated.

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.



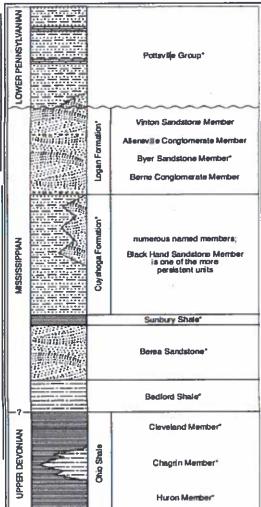


FIGURE 3-20.—Generalized section of Upper Devunian, Mississippian, and Lower Permaylvanian formations in northeastern Ohio. Asteriaks indicate units that are finantierous. This compositie section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The serim "Waveriy" is used in the older literature to refer to Mississippian rocks in Ohio. Some geologists use the European term "Carboniferum," 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 sandstone that is fairly widespread but discontinuous. See Hyde (1955), Hoover (1960), and Colina (1979) for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of rock types.

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a

Project label: PCAP Project Name: 57657 015

Cacycland Methopatics

Page: 1 of 1

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

Soli pit module #

(one per entire plot)

20 cm g CM matrix color matrix color exture* oxid roots ydr. cond.*** edox features** mottle ottle color mottle xtic color SMD

edox features** a impermeable surface

stoors buxc

refer to texture classes on reverse side hydro cond *** N S

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

*** Circle one:
I-indurdated S-saturated M-moist D-dry
Moteas: Include evidence of earthworms (worms.

2 - No worm's preserva I No woins present 7 - costing 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

Soil Collection Madul Herizon (A. B. C)	,
2.3.8.9 composited A	
Web Sell Servey Information:	
Soil Series/Type:	-
Soil Series Source: Ohio Soil Survey	_
Landform type:	_
Depth to rest. Layer	
Parent Material:	
DRAINAGE*	
o Excessively dr	
g Well drained	

SOIL DEPTH).1 cm in cent ecord as >30	SOIL DEPTH MEASUREMENT: Measure to the nearest 1.1 cm in center of intensive modules. If >30.5 cm, ecord as >30	REMENT: I	Measure to t	the nearest 0.5 cm,
mod#	l litter+ organic depth	2 litter depth (cm)	water depth (cm)	depth sat soil (em)
-	١. ٩	١, ٩	0	0
2	ابک	1.5	0	0
41	0.4	P. 0	0	0
8	0.6	0.0	0	0

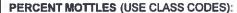
Underlying Earth Surface*	Surface*	Ground Cover	
(Sum) - 100%)	percent	(Each ≤ 100%)	percent
Histosol	0	Coarse Woody Debru***	1
Mineral Soil	88	Fine Woody Debris****	≪ -
Gravel-Cobble*	7	Litter	60
Boulder**	0	Duff (Ferm.+ Humus)	0
Bedrock	0	Bryophyte Lichen	1
• Gravel-Cobble = 1/16-10	1/16-10*	Waler	0
• Boulder • > 10 in	S	Bare Soil	ယ
••• >5 cm in diameter	ncter	Roed/Trail	7
	inder	Other	C

Strata	Height Range (m)	Total Cower
Træ	7.5	3
Shrub	5.5	83
Herb	5,5	38
(Floating)*		
(Amintia)*		

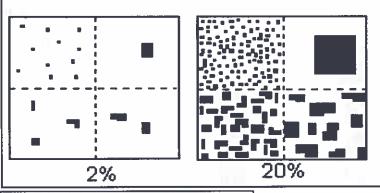
a Deer	o Gravel	Bediles unsanctioned	> Hiking sanctioned	o Bridle	o All Purpose	Туре	record type and cover for each	TRAIL INFORMATION:
		2				%Cover	or each	:NC

^ P	3	D 3-10	ᅙ	D > 10	g X	STAND
< plot size	-3 x plot size	3-10 x plot size	0-100 x plot size	> 100 x plot size	>600 x plot size	D SIZE
100		100				

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



Class	Code		Criteria: % of
	Conv.	NASIS	Surface Area Covered
Few	1	#	< 2
Common	С	#	2 to < 20
Many	m	#	≥ 20



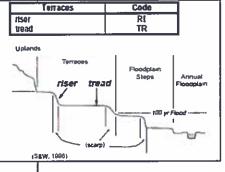
SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but 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= Clayey
- 3= Sandy
- 4= Coarse Sand
- 9= Not measured make plot note

Geomorphic Component - Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains; e.g., (for Hills) nase stope or MS.

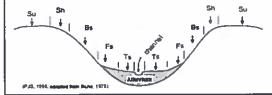
Hills Code
PDP NASIS
Interfluve IF IF

head slope nose slope side slope base slope	HS NS SS 	HS NS SS BS	
	Head slope	Sect.	
	Nose	(1)	
Ahmer 1900	The state of the s		



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



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 looded"

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