CLEVELAND MET	ROPARKS Plant Community Asse			© Cleveland Metroparks
Project Label:	РСАР	Plot No	: 1081 Date Sampled:	08/03/15 Lead: <u>LANCE</u>
		_	Comment requi	red if item answer is NO
Parking/Access outsi	de of Park Boundaries:	Y (N	If yes, write details in Comm	nents section below
Field journals comple	eted	Y N	The same of the sa	
Site sketch made on	1:3000 map?	Y N		
Check cover page	X-axis Bearing of plot recorded	N (V		
	GPS coords. Recorded	N		10.30
	North direction recorded	И		
	Photographs taken?	N		
	Relocated Pins Mapped	YN		
Plot No., Date agreen	nent on all pages?	N (V		1227
Header data complete	ed all pages?	N		
Cover classes recorde	ed in all Intensive modules	(<u>)</u> N		
Browse Level By Spe	cies	N		
Woody stem quality of	control check	Y N	Check every line and cross	check with the Tree Cover Sheet
Invasive plant quality	control check	Y N	N/A	
Ash trees mapped		Y N	NIA	
Completed Forest Per	st/Pathogen Datasheet	N (X)		
Cover by Strata? (cor	nfirm cover type)	И		
Soil samples collected	d with matching plot #.	YN	NIA	
Cross check 2010 inf	ormation	(N) N	Highlight any changes from	2010 information
Vouchers labeled on	datasheet with initials and number	N (See	4	
Vouchers labeled on	collection bag	И		
Pink flags removed		N (K)		
Data sheet QA before	e leaving site?	(X) N		22 7000
Common equipment	returned to tub.	N (<)		
Data sheets scanned?		P	Enter date to left	982-1
Final data sheets scar	nned?		Enter date to left	
Buffer Widths measu	red?	Y N		
Web Soil Survey		X N		
Voucher Location	Refrigerator	(P) N		
(# vouchers collected)	Press (#)		Enter number to Icil	
10.01	Drier	YN		
ACL 412	Identified	Y N		
412	Mounted	Y N	100000000000000000000000000000000000000	
	Thrown away	YN	10000	
GRTS point verifica	ation: Is plot sampleable?			
Yes	Original GRTS point is sampleable			
□ No	Original GRTS point lands in a non		fill in category below)	
- 140	D Point falls in a water (i.e. river,		res at entellos) peton)	
	☐ Managed mowed area (i.e. gol		zht-of-way)	
	Paved area (i.e. parkinglot, road)			
	Unsafe to sample (i.e. steep slop	м)		
	Other			
Additional Commer	nts:			

CLEVELAND METROPARKS Plant Co	CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	d Data Sheet Scientification Page 1 of 2
GENERAL INFORMATION	LOCATION	· ·
Project Label: PCAP	State: OH County: 1_ake	*= Light Gap
Project Name: ORNCROIS	Quadrangie Mayfield Hts.	C
Plot. Name:	R. Harman D.	TROIDS T
Plot No.: 08/		Phot: #8 #7 #6
 Level 4 (no nested corners sampled) 	Data Confidentiality:	
■ Level 5 (nested corners sampled)	Check one: Dublic data Drivate Data	9
Date (mm/dd/yyyy): 08 / 03/ 30/5	o Fuzz 100m o Fuzz 250m o Fuzz 500m	1
End date (if > 1 day): / /	Reason:	Blot origin GDS Incertion Photo Inlean
Party Role**	If data not public why?	Key: (0,0) point point with direction permanent posts
A. Lance Plot leader	Source of coordinates MAP GPS	NOTES: Include Layout (any unusual shape details), Location (directions and landscape content) Rationale (who here) and Veg Characterization (description of community
T. Carbran Bat. Asst.	Coordinate system: Coord. Units	dominants, strata, BROWSE). Additional notes in space on back.
M. Geitary Crew	■ Lat/Long □ UTM □ StatePlane ■ deg □ deg min	Davour SXCV twoner
M. Busami Orew	a Other (specify) ■ m a ft a	
	Datum: ■ NAD83/WGS84 □ NAD27	Location & Approx. DO m east of
** Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc.	GPS location in plot $x=0$ to 5, $y=-1,0,+1$):	Rulling 11. Falls Plum, Plot is between
PLOT NOT SAMPLED: 0 Other	x = O y = O (base of plot $x=0$, $y=0$)	ources i may i in it occurred
□ Perm. water □ Paved □ Slope □ Safety	Latitude: 41, 57407	a bridge trail and road.
SAMPLING QUALITY*	Longitude: 81.43044	
Effort Level: subjective evaluation of	Coord. Accuracy: of of A +- 3	nationale > GRTS 1 CHT re-sample
every thorough how much effort put into	GPS File Name: 108 A	V2 C1
Accurate may still provide good	in l	Veg. Transactivistics - Vold beech
o Hurried data	X-axis Bearing of plot: [160] o	dominate the contract of the contract of
TAXONOMIC ACCURACY	180	activity of this put.
high modera low not smpl	Intensive modules: 2, 3, 8, 9 (EDIT IF MODIFIED)	Jugar maple Co-dominate,
vascul. V	Camera No.: 3	100 T
bryo	Photo Nos.: Olle	
lichen	Plot placement: WRTS - Representative	light acro encompasses must be
TAXONOMIC STANDARD	Random Stratified Random D Transect component	
Authority: G&C Pub Date 1998	□ Systematic (grid) □ Capture specific feature □ Other	mad of their layer in the gap
Minimum required fields in Bold and Underlined	*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide	

CLEVELAND METROPARRY FIRM COMMUNITY ASSESSMENT FIGGRAM - DECAGOUND DATA SHEET	munity Assessment	Program - Bac	kground Data	Sheet				(Clumbund Humpan
Project Label:	PCAP	Projec	Project Name: ODNC 2015	51000	Plo	Plot No.:	1891	Page 2 of 2
MODIFIED NATURESERVE CLASS*		1	DISTU	DISTURBANCES				
CODE (on separate form):	Fit= Conf=		type	severity**	yrs ago % o		description	,
			Human	3	<u>ဒ</u>		trash	
60-0			Natural	그	0 100	100% De	neech disease	ase impact
COMMUNITY NAME:	× .	ev.	Fire		•			
<u>.</u>			Cnt	:	\dashv	- 1		
Keech-Maple Forest	24	3	Animal	≭ ≶	₽ C	4 2001	Sawk Fall	
HOMOGENEITY	A.	B	**L=low	. ML=med low	М=med, МН	=med high,	*L=low, ML=med low, M=med, MH=med high, H=high, VH=very high	ry high
Homogeneous	Compositional trend across the plot		Current	Current Land Use: P	PARK			
econspicuous inclusions of fregular/pattern mosaic	mosaic	5	Former	Former Land Use:	JAKN.	73		
	HYDROLOGIC REGIME*	GIME*						
	Literard (seldom flooded)		a Intermittently flooded	ooded				
SALINITY*	□ Intermittently/seasonally saturated	/ safurated	□ Semipermanently flooded	y flooded				
n Saltwater	(seldom flooded)		□ Permanently flooded	oded				
D Brackish	D Permanently/Semipermanent. saturated	ment. saturated	□ Tidal/Seiche flooded daily	oded daily				
D Fresh	(dry <1/yr, seldom flooded)	(pag	□ Tidal/Seiche flooded monthly	oded monthly				
edpland (n/a)	□ Occasionally flooded (<1/yr)	1/yr)	□ Tidal/Seiche flooded irregular	oded irregular				
	- Temporarily flooded		(e.g. wind, storms)	ms)				
(by default unless plot is a wetland)	2 1 1 1 C 10 1		n Unknown	5				
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)	s of plot to the stand, succe	ssional status, mati	urity, etc.)		le.		-	
and along trail is	dominates	م لھ ہ	hitegra	155, ju	mp see	ટ ~	rd seven	2 a
other edge species hots of Impatiens in the light gap.	Lots of	Impath	ens in	大から	ant	340.		
0 ,	A STATE OF S	8	7	1000) ~	V		7-17-1
The under peech compy .	4	altemots	to pers	rist d	espite	, ±	inters	lenots to persist despite the intense browse
pressures,	-	e e e			-		Mas	Mastly historica
*	Lots of beech a	Isease	sease throughout A	to t	1	+ 2	plot most common	roww
Lander	through shrub layer.	layer.				-		

Smy CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Cieveland Metroparks Total modules: Project Label: rata - Cov. entire plot S | H | (F)|(A)|Br Mundould togus Moss sp. Smilax retunditalia traxious sp. Digital Changing Aster lateritlarias thaceae Rhamous trangula Hicer Saccharum describe amount of browse per species over eersta viroinica why contains tunuating BOLGE SP. montens pilobium hirsutum Br = Browse Level. Use cover classes to a Points Yalis stricta DE AND oilobium colandum mbrum grandifoli Species entire plot Caroliniona ō capensis (John Gradine o intensive modules: %unveg. ground (bare soil) Estimate for each %unvegetated open water intensive module: %unveg. litter (bare litter) ACCH12 SK-17-16-15 Project name: OUNCAOIS Voucher# %open water U تن 7 **8** € Ŋ cov i depth _ Plot configuration: ş 3 a 2) ည 2 Plot no.: 2×5 108 ğ depth Plot area (ha): ğ Page 60 88 ş

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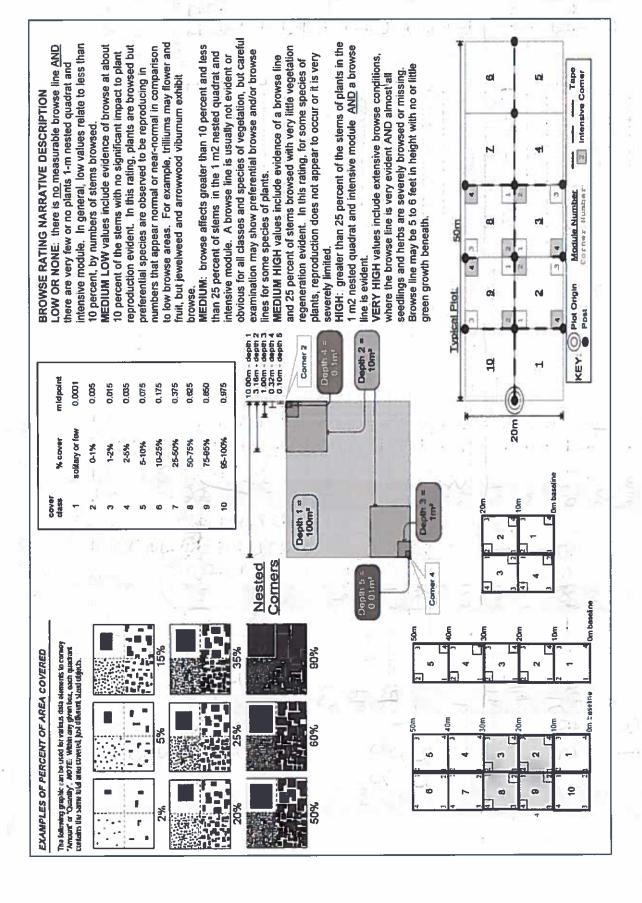
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Jehn canadense

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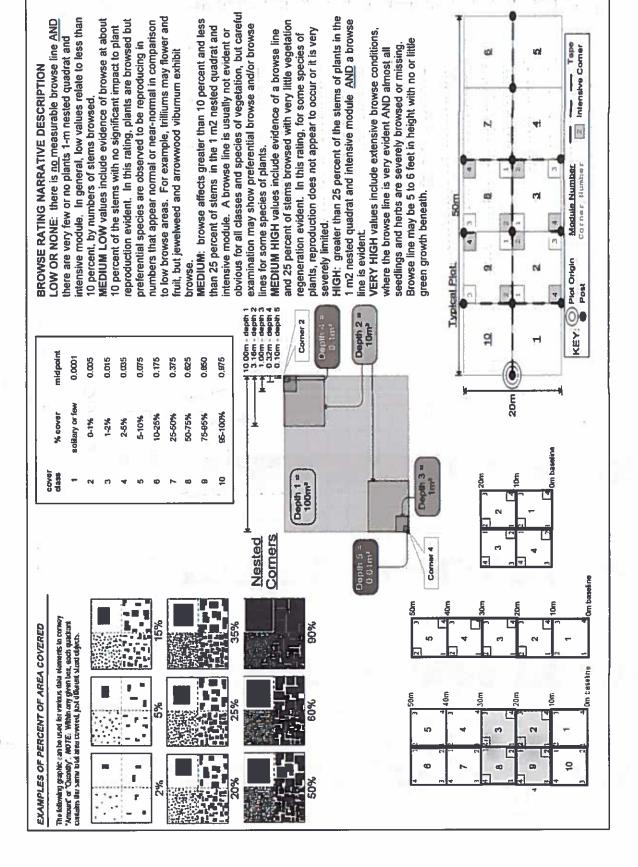
www.ohio

Persica 1/2



Brassia CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Cleveland Metroparks Strata - Cov. entire plot Project Label: Total modules: S H (F)(A)Br U Blyganatum pubescens Bidens Rubus sp. Hrisaema triphyllum preclatites hieracifolia rilea punita Punus virginiana DORY SWOM! arex laxiculous pitagus Viginiana describe amount of browse per species over iciadendon tulipitem nunus Septina arex sp. acya cordiformis Br = Browse Level. Use cover classes to ibumum aceritalium indera benzoin actual obation <u>oxitodendron rodicons</u> AKADXIA dicot itchella repens agnolia acuminata \$0. Species entire plot n Intensive modules: %unveg. ground (bare soil) %unvegetated open water intensive module: Estimate for each %unveg, litter (bare litter) Project name: ONICAOIS Voucher# %open water depth Plot configuration: 2x5 F cov 1 depth cov i depth S ş ş Ø) C . A60 Plot no .: 108/ ğ ş depth Ş رو COV I deoth 8 4 depth Plot area (ha): ş ğ depth Page 2 of 2 8 5 8 8 8 موتو ٥

15-33



CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet % COVER Strata - Cov. entire plot Project Label: 시늄 Hoer rubrum feagus grandifelia Her saccharum Species Prensence of tree mod mod mod species (X) 2 3 8 9 Project name: DANICADIS Plot no.: 1081 Voucher# Page 5

it Plot no.:_	E E	œ				'												
Shee	рош																	
Data	POE	1 1											i					
ver	pou																	
ပို့	DOE.																	
ent Program Tre Project name:	Prensence of tree	species (X)	Voucher #															
ESS			٥				1											
CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Project Label: PCAP Project name: PCAP		olot	Species											,				
Project Label:	ÆR	Strata - Cov. entire plot	B															
CLEVE Projec	% COVER	Strata - (⊢															

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Page

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Explain subsample (additional room on back): Standing Dead Standing Dead Standing Dead Fagus grandifolia Fraxinus sp. tagus quartitolia Standing Dead tagus giannitolia aurso. Dur rubium Standing Dead Fagus grandifolia tagus grandifolia Our sacharum Fraxious sp. indura benzoin lur sacharim aur rubrum arpinus carolinana aux wbrum lur soucharum Jur soucharum lur sauharum Project Label: voucher# 3; :: ċ browsed 0-1,4m stems 8 C B or super % sub Project Name: OBNC2015 shrub # size class (cm) woody stems >1.4m 3 × d 1-<2.5 2.5-<5 ×:• X **Ø** 口 Z Plot No.: 1081 Z :: コ :1 5-<10 10-<15 15-<20 20 - <25 Page: 25 - < 30 30 - <35 Operationd Metroparks 35 - <40 5 62.9 >40 (record each tree)

0

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652

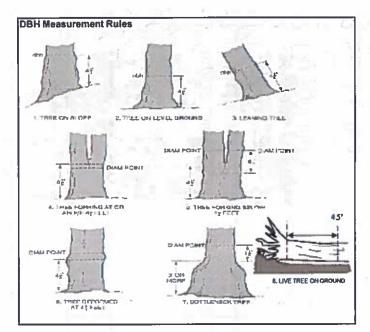
CM PCAP Natural Woody Stem Data Sheet ver 2.0.xls last revised 5/29/2012 jim

Hagus granditolia

S

耳

口



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.



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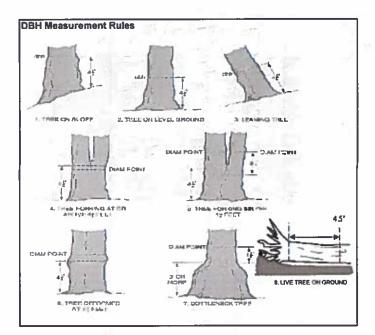
ASH CANOPY BREAKUP CONDITION (for dead trees):

(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 Fagus grandifolia Standing Dead Explain subsample (additional room on back): Smiles introduction Jursachan aur sachann species Project Label: PCAP voucher# prowaed 0-1.4m # stems 8 or super % sub Project Name: OaNCaOIS :1 shrub clumps # size class (cm) woody stems >1.4m 0-<u>^1</u> 口 1-<2.5 • 2.5-<5 Plot No.: 108/ :1 5-<10 10 - <15 15 - < 20 Ф 20 - <25 Page: 25 - <30 30 - <35 익 Queveland Metroparks 35 - <40 5 18.8 >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













ASH CANOPY CONDITION

- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
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C

D

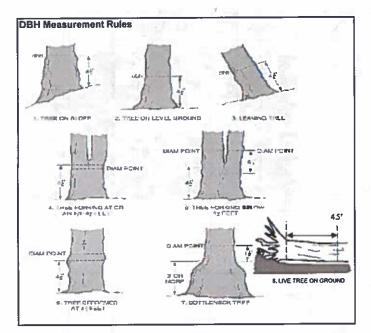
E

ASH CANOPY BREAKUP CONDITION (for dead trees):

(if an ash receives a score of 5 (dead) under canopy condition it must also receive a breakup condition rank as described below)

- A: All main branches contain fine twigs (newly dead).
- B: Over 50% of main branches have fine twigs.
- C: Less than 50% of main branches have fine twigs.
- D: Stem still standing and tertiary main branches present.
- E: Central stem still standing.

Acer Saccharum CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Traus dranditure 8 Facus grandible Acer Saccharum STANDING DEAD Acer rubrum STANDING DEAD bigus a randialia Acer Saccharum STANDING DEAD Carpinus Caroliniana ,Project Label: PCAP voucher# # sterns browsed 0-1.4m w or super % sub Project Name: LIZNC 2015 shrub #) size class (cm) woody stems > 1.4m 区 0 0 1-<2.5 T 6 . . • 25-<5 Plot No.: 108/ 5-<10 . 10-<15 15 - <20 20 - <25 Page: 25 - < 30 30 - <35 Polyreiand Netroparks 35 - <40 5 43.8 >40 (record each tree)



Woody Stem Deer Browse

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

Record using the tally system from 1 to













ASH CANOPY CONDITION

- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple,
- 2. Thinning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.
- Dieback: Canopy is thinning and some top branches exposed to sunlight are dead (have no leaves). Lower branches, not exposed to sunlight, die naturally and are not considered.
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- 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

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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.

4aCH PCAP Ash_Tree Data Sheet Page 1_ver 2.xls (ast revised 5/29/2012 ceh 16 14 24 23 21 18 ᇙ 5 25 꽁 19 17 Ф Φ 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)

*** Change intensive module numbers when necessary

CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet

Project Label: PCAP

Project Name: DANCADIS

Plot No.: 1081 Date:

ONLY TREES \$ 10CM ONLY

Page: 1 of 2

(cm) DBH @

Ash condition

Daad condition

ASH Only
Exit Epicomic
holes present

Woodpecker holes

NOW HISELY

N 4

Baseline

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p

Map all ash trees ≥10cm in each module using Tree ID number

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detection/	Rapid response		Pre	sence		GPS	
		NE	SE	SW	NW		Presence
Microstegium vimineum	Japanese stiltgrass						X: yes
Ranunculus ficaria	Lesser Celandine		1				
	Black Swallow-wort						7
	Flowering Rush		1				
Heracleum mantegazzianum	Giant Hogweed						
Tier 2: Assess a			# of	Plants		comments	
		NE	SE	SW	NW		# of Plants
Acer platanoides	Norway Maple						1: 1-10
Ailanthus altissima	Tree of Heaven						2: 11-50.
onicera japonica (vine)	Japanese Honeysuckle						3: 51-100
	Purple Loosestrife						4: 101-1,000
	Bishop's Goutweed		1	1			5: >1,000
Celastrus orbiculatus (vine)	Asian Bittersweet		\top	T			
Torilis sp.	Hedgeparsley	\top					\neg
Conium maculatum	Poison Hemlock	\top	\top				7
Rhamnus cathartica	Common Buckthorn (shrub	1	\top	1		···	7
Berberis thunbergii	Japanese Barberry (shrub	_					\dashv
Alnus glutinosa	European Alder	1	_				7
Dipsacus laciniatus	Cut-leaf Teasel	1	\top	1			\dashv
Elaeagnus umbellata	Autumn Olive (shrub						-
onicera maackii	Amur Honeysuckle (shrub	_					\dashv
Euonymus fortunei	Wintercreeper	1					
Tier 3: Presence is			# 01	Plants		comments	
Hel 301 featites in	TO THE COL	NE	SE	SW	NW		# of Plants
Convallaria majalis (G-cover)	Lily of the Valley						1: 1-10
	Crown Vetch	1-	1	\top			2: 11-50.
leutherococcus pentaphyllus	Five-leaf Aralia (shrub	1	1				3: 51-100
Pachysandra terminalis (G-cover)		1	\top				4: 101-1,000
Philadelphus coronarius	Mock Orange (shrub)	\top				5: >1,000
	Lungwort	1					
Rubus phoenicolasius	Wineberry	1	\top	\top		30	\neg
lris pseudacorus (wetland)				1		*** .	
Ornithogalum umbellatum	Star of Bethlehem						\neg
Viburnum opulus var. opulus	European Cranberry (shrub	1		1			
Viburnum plicatum	Doublefile Viburnum (shrub	_			 		7
Tier 4: Widespread			Pre	sence		comments	
		NE	SE	SW	NW		# of Plants
Alliaria petiolata	Garlic Mustard	1.0					1: 1-10
Ligustrum vulgare	Common Privet (shrub)		\top		 		2: 11-50.
L. morrowii, L. tatarica	Bush Honeysuckles (shrub		\top	1	 		3: 51-100
Phalaris arundinacea	Reed Canarygrass	+	+-	1	 		4: 101-1,000
Phragmites australis (wetland)	Phragmites Phragmites	1	1				5: >1,000
Polygonum cuspidatum	Japanese Knotweed	+	+-	+	 	***	
Frangula alnus	Glossy Buckthorn (shrub)		+	+			
Rosa multiflora	Multiflora Rose (shrub)	_	+		 		\dashv
Typha angustifolia, T. x.glauca	Cattails (wetland)		+	+	+		
	Canada thistle	+	+	+	 		-
Cirsium arvense		+	+	+-	 	·	\dashv
Dipsacus fullonum	Common Teasel		+	+	+ +		-
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)

mod # CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Sheet Fagus granditolia Fagus granditolia Fagus giandifolia Fagus grandifalia hagusqiandifolia Fagus grandifolia tagus grandifolia Project Label: voucher# PCAP dumps shrub 8 中口 size class (cm) woody stems >1m 94 ጀ E S س Project Name: ONCROIS M May Mary 1-<2.5 00 5 2.5-<5 00 دو 00 S S 5-<10 ىع W 10 - < 15 B Plot No.: 108 15 - <20 20 - <25 25 - <30 30 - <35 Page: 35 - <40 ö 62.9 >40 (record each tree) 57.2 593 62259 65 J = 으

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

6

grandifolia

Fagus grandifolia. Fagus grandifolia.

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SO

4.80

so (U

L Med	Hig	Severity		-	Shrub (size cla clumps)	Tree (size o	Strate
Medium = Less than 50% of leafineedle cover exhibiting symptoms Low = Only a few leaves or branches are exhibiting symptoms	High = more than 50% of leaf/needle cover exhibiting symptoms	erity Edicon		0 1	Shrub (size class 2 or below including shrub clumps)	Tree (size class 3 or above)	
f leaf/needle co	af/needle cove	×	国 国	阿阿阿	N N N N N N N N N N N N N N N N N N N	N N	# of stem
over exhibiting	r exhibiting syr			*100	I	1	Severity (H,M, or L)
symptoms	nptoms		41	8	*	1	×
				dN	NΡ	7	Write None
			7	Walnut (Thousand Canker)	Hemlock (HWA)	Beech (Fungus)	Vrite None Present if no evidence:
				er)	Nρ	NP-	
					Other Pest or Pathogen	Asian Longhorned Beetle	

ä 1

Project Label: PCAP Project Name: BACAOIS	PCAP	Pr	oject Name:	Project Name: DANCOOL
STANDING BIOMASS (required for emergent wetlands) collected in 0.1m clip plots (22x32 cm) from corners 1 and 3 in each intensive module. Required for VIBLE score calculation. C7=check when collected	ired for emerg	ent wettan	is) collected	_
	core calculation	. C?=checl	when	CLASSIFICATION
Module #	core calculation	Corner Corner	when	CLASSIPICATION OTI - saudiest p Fit and Confidence
Module #	core calculation	Corner	when	CLASSIFICATION TIL * swether a Fit and Confidence Hrdroecomerchic class (WETLAND

PION NO.: 108

Oleveland Hetroparts Page: 1 of 1

O SLOPE (ground water by drology or on a physical slop) DIMPOUNDMENT DBeaver DHuman a COASTAL (specify subclass) o FRINGING o Reservoir o Natural Lake a SHRUB a shrub swamp a tell sh. bog a tell sh. for n FOREST a swamp forest a bog forest a forest seep a EMERGENT a marsh a wet meadow a open bog o RIVERINE o Headwater o Mainstern o Channal hie EPA VIBLETION Community Class (WETLANDS ONLY): BOG (strongly, moderately, weekly ambrotrophics ATTAO S F Fig. FIG P 7 Conf. Conf Conf. Conf-Conf. Conf

At aspect

LFI

TSI:

X. z

LFI is angle of plot to the horizon. TSI is angles formed by

HICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only risk for microhabitat features. Select one or select two and average the score.NOTE: If mod felts on a stope autometically gets ranked besed on steepness (1-3) to begin + any features present

feature is obsert or functionally absent from the wetland

lope 1 = slight elevational grade across module (hit)

Slope 2 = talk on slope -20 *

- feature is present in the welfand in very small amounts or if more common, of low quality
- feature is present in moderate amounts, but not of highest quality, or in small emounts of highest quality

2	œ	CN	م	mod#					
				COURCE					i i
0	0	0	0	(count)	lx lm	depth 3		Iussocks	no of
0	0	0	0	(count)	3.16c3.16m	depth 2	uplands (Tip-Ups)	hummocks	no, of
F	-	ھ	-	(count)	10x10m	depth 1		depressions	no macro.
6	טז	16	19	(count)	10x10m	depth 1		(2-12 cm)	cwd
0		3	6	(count)	18x10m	depth I		(12-40cm)	ew.d
0	0	0	0	(opuni)	JOX 10ms	depth 1		×₩ cm	c.w.d
C	2	W	W	(rank)	10x10m	depth 1		interspers.	microhab.
	_			(rest)	10x10m	SLOPE	1850	100	microhab

Slope 3 = maximum steepness that can be safely sampled -45° Con McNAB INDICES (degrees) + for up - for down TALLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD! andform Index (position within landscape) Terrain Shape Index (site microtopographic shape) +180 degrees +315 degrees +225 degrees +135 degrees +270 degrees +90 degrees +45 degrees

¥.

S.W

e) e of person standing - 10 m Gwa.

٤

SE

local slopes. For TSI measure angle from recorders eye to

CROWN COVER (DENSIOMETER): Male 4 readings per module facing N. S. E. W. Place dot count corresonding space. (4 dots per grid square)

9	QHI	L.	2	Medule	
W	6	H	6	Z	1
0	-	છ	160	s,	
_	0	-	Ç	m	1
ຍ	2	Cy	Ü	*	1

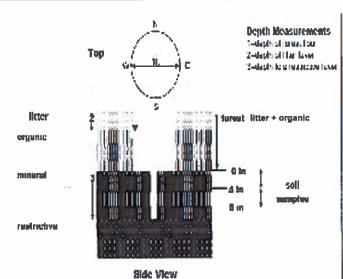
COVER BY STRATA

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.



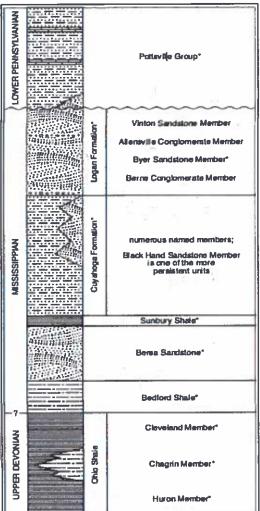


FIGURE 3-20.—Generalized section of Upper Devonian, Ministrypian, and Lower Pennsylvanian formations in northeastern Ohio Asteriaks indicate units that are fessiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to easile but the chicknesses indicated are proportional. The term "Waverly" is used in the older literature to refer to Mianampsan rocks in Ohio. Some geologists use the European term "Carbomferous," which enoughasses the Alissimppian 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 furly widespread but discontinuous. See Hyde (1953), Hoover (1960), and Colina (1979) for more information on Mianamppian rocks in Ohio. See figure 3-18 for explanation of rock types.

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Blomass Data Sheet 6a Project label: PCAP Plot No.: 108

Project Name: DANC 3015

(Cacreband Richoparks Page: 1 of 1

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

20 cm 6 cm matrix color matrix color redox features** Stoot prixe lydr. cond.*** edox features** exture. Stoot prix mottle rtic color ttle color M D Z

rydro, cond *** I S M D

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

Mod a Warms +
Costings present

MOD 8: COSHINGS
PICSON+

COSHINGS PICSON+

Back PCAP Soils John Cover_Landform_Standing Blomass_Data Sheet_ver 3.xls last revised 6/4/2012 och

Soil plt module # ____ (one per entire plot)

refer to texture classes on reverse side

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

ecord as >30

- litter+

9

depth sat

Notes: include evidence of earthworms (worms, "indundated S-saturated M-moist D-dry

sample of the top 10 cm of soil from center of each intensive module and composite the sample SOIL SAMPLES Standard procedure: collect a soil

Soil Collection Modul Herizen (A. B. C)	Ċ
2,3.8,9 composited	>
Web Sull Survey Informations	
Soil Series/Type:	
Soil Series Source: Ohio Soil Survey	
Landform type:	
Depth to rest. Layer:	
Parent Material	
BRAINAGE*	
G Excessively dr. G Somewhat excessively	cessively
a Well drained a Moderately well dr	well dr.
a Somewhat poorly dr. Very poorly dr.	orly dr.
u Impermeable surface	

*** >5 cm in diameter	**Boulder = > 10 m	* Gravel-Cobble = 1/16-10*	Bedrock	Boulder** 190	Gravel-Cobble* 170	Mineral Soul 98%	Histosol	(Short - 100%) percent	Underlying Earth Surface*
Road/Trail	Bare Soil	Water	Bryophyte- Lichen	Duff (Ferm.+ Humus)	Litter	Fine Woody Debris****	Coarse Woody Debris***	(Each ≤ 100%)	Ground Cover
5	109	1	2	1	759	10%	52.	percent	

Hiking sanctioned

All Purpos

%Cover

Bootleg unsanctioned

RAIL INFORMATION: scord type and cover for each

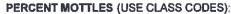
Gravel

Deer

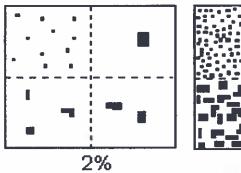
SEE BACK O	** submerses	noted and	(Aquatic)	(Floating)*	Herb	Shrub	Tree	Strata	COVER B
SEE BACK OF PAGE FOR TYPICAL STRATA DESCRIPTIONS. STRATA CAN VARY BY CO	** submersed, most plant mass below surface	rooted and floating or slightly emersed submersed, most plant mass below s			5.0	5.8	S	Height Range (m)	COVER BY STRATA
SEE BACK OF PAGE FOR TYPICAL STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE	w surface	sed			35%	68%	489	Total Cover (%)	ex:3, 8, 13 %

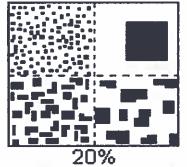
a < plot sizze	a 1-3 x plot size	a 3-10 x plot size	b 10-100 x plot size	a > 100 x plot size	a >600 x plot size	STAND SIZE	
						_	

organic depth 00 0.9 depth (cm) 20 2 litter 00 water depth



Class	(ode	Criteria: % of		
	Conv.	NASIS	Surface Area Covered		
Few	ſ	#	< 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.

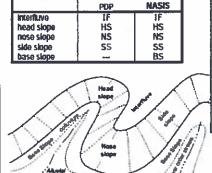
- 0= Organic
- 1= Loamy
- 2= Clayey
- 3= Sandy
- 4= Coarse Sand
- 9= Not measured make plot note

Position

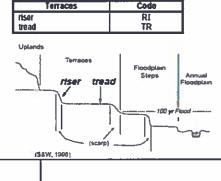
Geomorphic Component - Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains.

e.g., (for Hills) nase slope or NS.

Hills



higher order str



Hilistope - Profile Position (Hilistope 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.

Code

summit shoulder backslope footslope toeslope	SU SH BS FS TS	
Su Sh Bs	Fe Ts / O'Ts	Sh Bs

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.