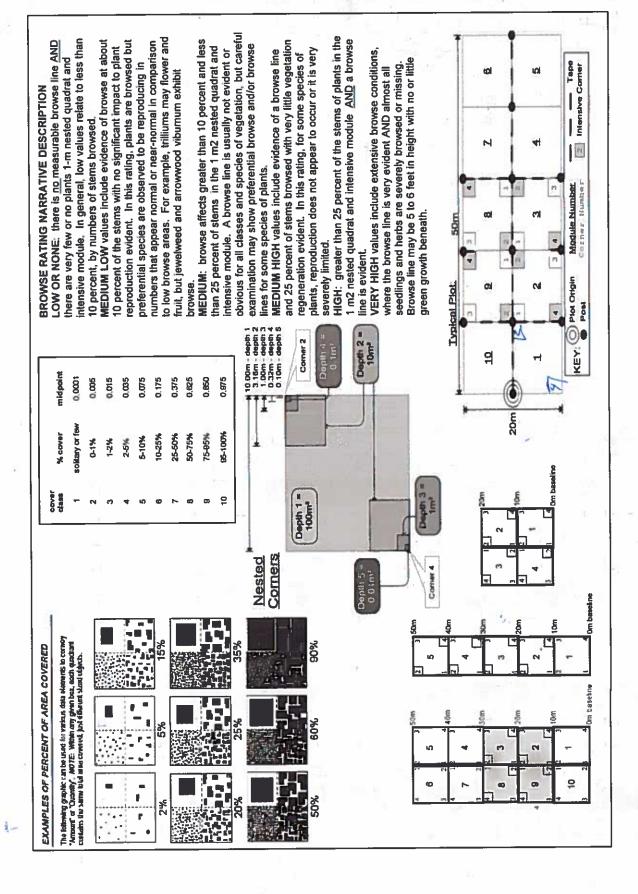
Project Label:	РСАР	Plot No	: 1082 Date Sampled: 8/11/15 Lend: CKM
			Comment required if item answer is NO
Parking/Access outsid	e of Park Boundaries:	Y (N)	If yes, write details in Comments section below
Field journals complet	ed	₩ N	The state of the s
Site sketch made on 1:	3000 map?	YN	
Check cover page	X-axis Bearing of plot recorded	N (V)	T NAT
	GPS coords. Recorded	YN	
	North direction recorded	(Y) N	
	Photographs taken?	(Y) N	
	Relocated Pins Mapped	(Y) N	
lot No., Date agreem	ent on all pages?	(Y) N	2 2 22
leader data complete:	l all pages?	(Y) N	
over classes recorded	l in all Intensive modules	W N	
Browse Level By Spec	ics	(Y) N	
Voody stem quality co	ontrol check	ŶΝ	Check every line and cross check with the Tree Cover Sheet
nvasive plant quality	control check	YN	I VA
sh trees mapped		(Y) N	
Completed Forest Pest	/Pathogen Datasheet	И	
over by Strata? (conf	înn cover type)	(Y) N	100
oil samples collected	with matching plot #.	YW	N/T
ross check 2010 info	nnation	Q N	Highlight any changes from 2010 information
ouchers labeled on d	atasheet with initials and number	(Y) N	LD
ouchers labeled on c	ollection bag	(Y) N	
ink flags removed	37.9	N (2)	
Data sheet QA before	leaving site?	W W	P02.5039
Common equipment re	eturned to tub.	YN	
Pata sheets scanned?			Enter date to left
inal data sheets scan	red?		Enter date to left
luffer Widths measur	ed?	Y N	
Veb Soil Survey		YN	
oucher Location	Refrigerator	YN	1
# vouchers collected)	Press (#)		Enter number to left
(KM342-		YN	
	Identified	Y N	
353	Mounted	YN	
	Thrown away	YN	16
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
CDTS point verificat	ion: Is plot sampleable?		
Yes	Original GRTS point is sampleable		
199			CD:
a No	Original GRTS point lands in a non- Point falls in a water (i.e. river, )		in in category below)
	Managed moved area (i.e. golf		tht-of-way)
	Paved area (i.e. parkinglot, road)	arous princip attactif	
	Unsafe to sample (i.e. steep slope	=)	
	□ Other		
dditional Comment	S: HEW		
All pins	except right sid	le 40 (	ound

				<b>e</b>
CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sneet PCAP Project Label: PCAP PCAP Project Label: PCAP	mmunity Assessment PCAP	Project Name: UZ HI 2015	510	Plot No.: 1082 Page 2 of 2
MODIFIED NATURESERVE CLASS*		DISTURBANCES		
CODE (on separate form):	Fit= Conf=	type* seve	severity**   yrs ago   % of plot	description
	ď		50F 10-27-	5
9		Natural	ol 📳 i 🐧	EAB
COMMUNITY NAME:		Fire	,	
700 4 1		Cut		
Julixed 1050s1	Elm. Maple, Dyma Ash	Animal	0 100	Deer browse
HOMOGENEITY		**L=low, ML=	ned low, M=med, MH=me	**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high
domogeneous 🗅 Compositional	Compositional trend across the plot	Current Land Use:	Use: CMP	
Conspicuous inclusions   Irregular/pattern mosaic	rn mosaic	Former Land Use:	]se:	
	HYDROLOGIC REGIME*	GIME*	2	
	VUpland (seldom flooded)	□ Intermittently flooded		
SALINITY*	a Intermittently/scasonally saturated	saturated	pa	
o Saltwater	(seldom flooded)	□ Permanently flooded		
o Brackish	o Permanently/Semipermanent, saturated	nent, saturated	aily	
o Fresh	(dry <1/yr, seldom flooded)	ed) a Tidal/Seiche flooded monthly	onthly	
Copland (n/a)	□ Occasionally flooded (<1/yr)	//yr) a Tidal/Seiche flooded irregular	regular	
	n Temporarily flooded	(e.g. wind, storms)		
(by default unless plot is a wetland)		a Unknown		
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)  The old is mostly even aged but there are its	ness of plot to the stand, succe	but there are 15 an old	light gap w	inity, etc.) TS an old light gap with small trees
Clima in. The plot is on a	the sope with	/	dispersed b	are soil. The gaps
caused by dying Ash may be the reason for the bush-hongy suckle invasion which is	may be the n	eason for the bush-	noneysuckle	invasion which is
by now well-ostablisher	d. The herb I	ayer underneath thes	e honey suckle	thickets has very
few species. The brown	sc lerel scems	bu even though tha	re (3 a w	ell traveled deer
path within plot. Carlie Musterd is common along stream on the way here and within	of Mushard 13	common along streat	n on the w	ay here and within
plot though not we	ell-represented	in course because it	has gone to	seed.

Proje. Total i	Project Label: Total modules:	PCAP S	Project name: 02 Intensive modules: 4	上2	Project Label: PCAP Project name: 02 HI 2015  Total modules: S Intensive modules: H Plot configu	Plot configuration:	Confi	gurat	Plot no.:	1×5	2801	12		-	Plot area (ha):	rea (I	1	.05	5	
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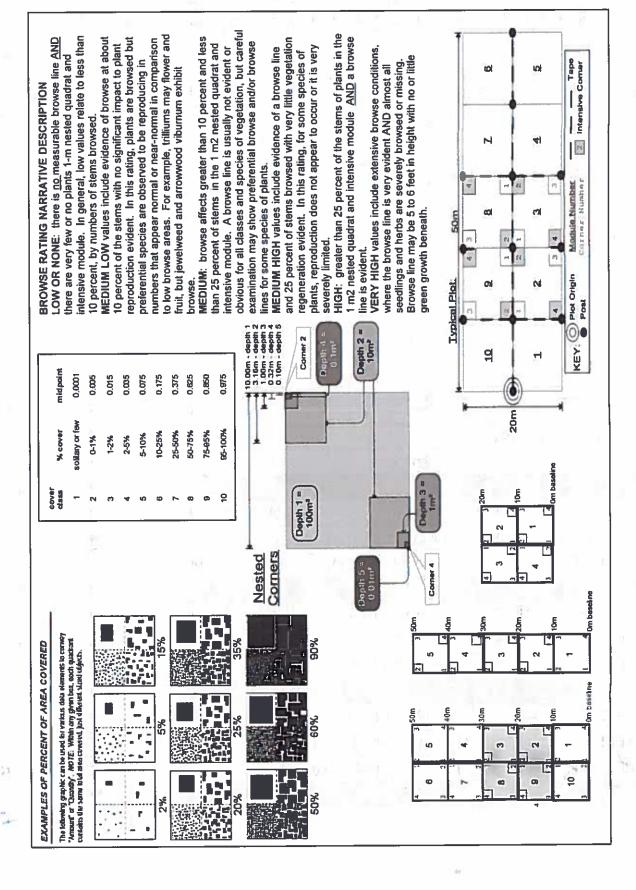
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	CLEVELAND MET	CLEVELAND METROPARKS Plant Community Assessment Project name: クスHT2の写	ment Program Species Co	es Cover Data She	Diot no .	1087	Page 2 of
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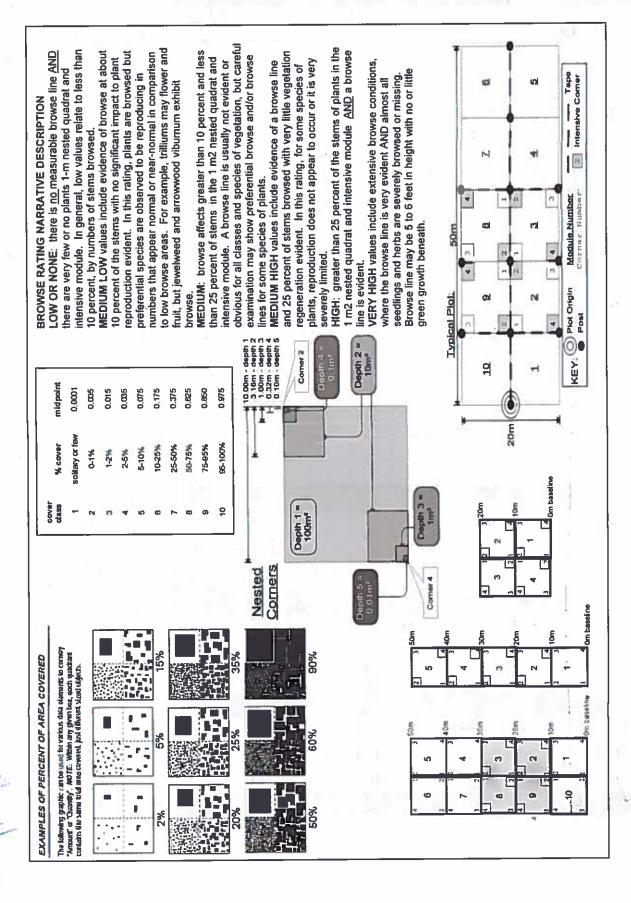
Page 2 of 1



	CLEVELAND ME Project Label: Total modules: Cleveland	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Project Label:  PCAP  Project name: 62 11 20 Intensive modules:  Intensive modules:  Br = Browse Level. Use cover classes to Cleveland  General module:  Br = Browse Level. Use cover classes to Intensive module:  Sopen water  Indicated the stimate for each intensive module:  Sopen water  Indicated the stimate for each intensive module:  Sopen water  Indicated the stimate for each intensive module:  Sopen water  Indicated the stimate for each intensive module:  Sopen water  Indicated the stimate for each intensive module:  Sopen water  Indicated the stimate for each intensive module:  Sopen water  Indicated the stimate for each intensive module:  Sopen water  Indicated the stimate for each intensive module:  Sopen water  Indicated the stimate for each intensive module:  Sopen water  Indicated the stimate for each intensive module:  Sopen water  Indicated the stimate for each intensive module:  Sopen water  Indicated the stimate for each intensive module:  Sopen water  Indicated the stimate for each intensive module:  Sopen water  Indicated the stimate for each intensive module:  Sopen water  Indicated the stimate for each intensive module:  Sopen water  Indicated the stimate for each intensive module:  Sopen water  Indicated the stimate for each intensive module:  Indicated the stimate for each intensive module:  Indicated the stimate for each intensive module:  Sopen water  Indicated the stimate for each intensive module:  Indicated the stimate for each intensive module the stimate for each intensive module the stimate for each intensive module t	ment Program Species Cover D Project name: 62 11 1 Intensive modules: 4 F Estimate for each intensive module: 4 Gopth cov of 50 pen water 1	S Cover Data Sheet 52 H	et Plot no.: figuration:  med cornet med 2 4 2 depth cov   depth 1	8 7 Sept X 50	7 7 8 M B CO	mod comer mod depth cov depth	mod comer mod depth cov depth
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SRE\_CM PCAP Species Cover Data .xls last revised 6/10/2015 jjm SRE/(b-15-15)

Natural Resource Management FORM NR/2010-02a

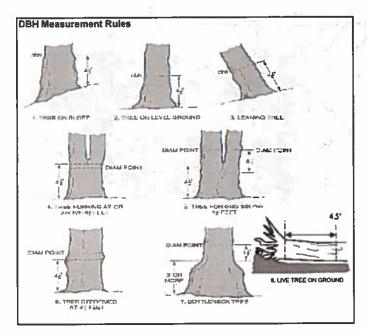


Cleveland Metroparks CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Strata - Cov. entire plot Total modules: Project Label: S H (F)(A) Br N Glyceria striation 1 X # X Equisetum arvense describe amount of browse per species over Br = Browse Level. Use cover classes to ryspiteris on carthusiana alsodes Species entire plot caesia PCAP striata CKS ड्रोय व ဂ 3 Intensive modules: %unveg. ground (bare soil) Estimate for each intensive module: %unvegetated open weter %unveg. litter (bare litter) CKM353 CKM352 998-HOSHJ Project name: 02 HI 2015 Voucher # %open water corner mod corner mod cov i depth ğ Plot configuration: 1 x 5 . depth β § corner mod corner Plot no.: 1082 8 ğ 909 mod corner ğ cov 1 depth depen mod comer Plot area (ha): .05 8 ş I N 2 2 8 2 2 N ş 77 N ş ğ depth N

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Explain subsample (additional room on back):														
	stems s	% sub	*	ize class	(cm) wood	size class (cm) woody stems >1.4m	1.4m							
mod # species c voucher#	0-1.4m or browsed s	or super s	shrub	0×1	2 1-<2.5	3 2.5~5	4 5-<10	5 10-<15	6 15-<20	7 20 - <25	25 - <30	30 - <35	35 - <40	11 >40 (record each tr
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### 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.
- 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

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.

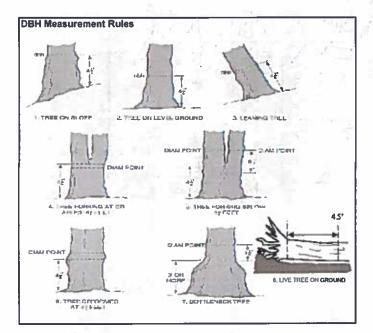
(3) Ulmus rubru vs. americana

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 3 Parthenocissus quinquefolia 3 Cornus sp. 3 Cratgegus sp. Cratacqus sp. Fraxinus Sp. Ulmus americana edins so. Aper Saccharum Standing duad Parthenocissus quinque blia Acer rubrum Liquidambar Styraufly HMUS Lindera bemain Explain subsample (additional room on back) ROS MULTIFLORA Lonice ra morow Ulmus &. firiodendron thingificing remidenter styraciffue Fraxinus pendillusica Kysa muthfora andina dua american Project Label: voucher# K P <u>0</u>. browsed 0-1.4m or super % sub Project Name: UZH 2015 2 shrub 22 \*\* size class (cm) woody stems >1.4m E 2 10 15 =: : 1-<2.5 P - 8 Ľ (013) 2,5-<5 Plot No.: 1082 D 5-<10 10-<15 15 - <20 20 - <25 Page: 2 of 25 - <30 30 - <35 35 - <40 (Cleveland Metroparks ō >40 (record each tree)

3

Acur Sacharum

-2



### 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**

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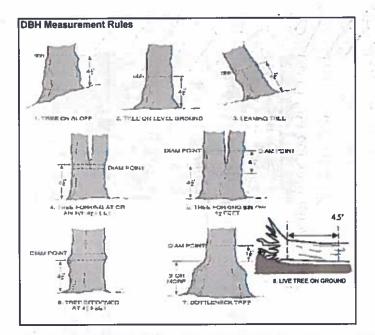


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				3.50									_		_									7 20 - <25   25			Page:
	H							1.4															- 1	8 25 - <30 30	3		۰
											(iii)		i		10.0				-33					9 30 - <35   35			<u>.</u>
																								10 35 - <40 ×			Cleveland
																						1		11 >40 (record each tri		1	Cleveland Metroparts



### 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.
- 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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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.

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### Cieveland Metroparks CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey GPS Tier 1: Early detection/ Rapid response Presence SW NW NE SE Presence X: yes Microstegium vimineum Japanese stiltgrass Ranunculus ficaria Lesser Celandine Cynanchum louiseae (vine) Black Swallow-wort (wetland) Flowering Rush Butomus umbellatus Heracleum mantegazzianum Giant Hogweed # of Plants Tier 2: Assess as Needed comments # of Plants SE SW NW NE 1: 1-10 Norway Maple Acer platanoides 11-50. Ailanthus altissima Tree of Heaven 3: 51-100 Japanese Honeysuckle (vine) Lonicera japonica 4: 101-1,000 Lythrum salicaria (wetland) Purple Loosestrife 5: >1,000 Aegopodium podagraria (G-cover) Bishop's Goutweed Asian Bittersweet Celastrus orbiculatus (vine) Torilis sp. Hedgeparsley Poison Hemlock Conium maculatum Common Buckthorn (shrub) Rhamnus cathartica Japanese Barberry (shrub) Berberis thunbergii Alnus glutinosa European Alder Cut-leaf Teasel Dipsacus laciniatus (shrub) Autumn Olive Elaeagnus umbellata Lonicera maackii Amur Honeysuckle (shrub) Euonymus fortunei Wintercreeper # of Plants Tier 3: Presence is of Interest comments NW # of Plants NE SE SW 1-10 (G-cover) Lily of the Valley Convallaria majalis 2: 11-50. Coronilla varia (G-cover) Crown Vetch Five-leaf Aralia (shrub) 51-100 Eleutherococcus pentaphyllus 4: 101-1,000 Japanese Pachysandra Pachysandra terminalis (G-cover) (shrub) 5: >1,000 Philadelphus coronarius Mock Orange Pulmonaria officinalis (G-cover) Lungwort Wineberry Rubus phoenicolasius (wetland) Yellow Flag Iris Iris pseudacorus Ornithogalum umbellatum Star of Bethlehem Viburnum opulus var. opulus European Cranberry (shrub) Viburnum plicatum Doublefile Viburnum (shrub) Tier 4: Widespread and abundant **Presence** comments # of Plants SW NE SE NW 1: 1-10 Garlic Mustard Alliaria petiolata 2: 11-50. (shrub) Ligustrum vulgare Common Privet 3: 51-100 (shrub) L. morrowii, L. tatarica **Bush Honeysuckles** 4: 101-1,000 Phalaris arundinacea Reed Canarygrass 5: >1,000 Phragmites australis (wetland) **Phragmites** Polygonum cuspidatum Japanese Knotweed Frangula alnus Glossy Buckthorn (shrub) Rosa multiflora Multiflora Rose (shrub) Typha angustifolia, T. x.glauca Cattails (wetland)

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

(G-cover)

Cirsium arvense
Dipsacus fullonum

Vinca minor

Hesperis matronalis

Canada thistle

Common Teasel
Dame's Rocket

Periwinkle

	10	စ	œ	7	o	Ç٦	4	ü	2		mod #	CLEV
										None	species	CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Sheet  Project Label: PCAP Project Name: 02 H; 2 N 5 Plot No.: 1
										,	voucher#	t Communit
						,				10'	# shrub dumps	PCAP
4											size class (cm) woody stems > 1m	nt Program Projec
		v						-		- 1	m) woody ste	Forest Pe
											stems > 1 m 3 4 2.5~5 5~10	ogram Forest Pest and Patho Project Name: 024;2N5
											5 10 - <15	hogens Da
											15 - <20 20 -	Plot No.: 1082
				4							7 8 9 10 11 20 - <25   25 - <30   30 - <35   35 - <40   >40 (record each tree)	82
											9 30 - <35	Page _
						-		,			10 35 - <40 >40	Cieveland Metroparks
,											11 D (record each	of

Shrub Tree (size class 3 or above) # of stem Severity (H,M, or L)

(size class 2 or below including shrub

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

Walnut (Thousand Canker)	Hemlock (HWA)	Beech (Fungus)	* Write None Present if no evidence:
	Other Pest or Pathogen	Some Proce Asian Longhorned Beetle	

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

\* × T .

CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface
Project Label: PCAP Project Name: 02 4, 2015

7
fot No.:
8

P

(P) Gleveland Metroparts Page: 1 of 1

McNAB INDICES (degrees) + for up - for down FILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD]

STANDING BIONAASS (required for emergent wetlands) collected in 0.1m clip plots (32-32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C7-check when S

CLASSIFICATION		
(FIT = excellent g Fit and Confidence		
Hydroecomerphic class (WETLANDS ONLY):		
DEPRESSION	7	Conf
o IMPOUNDMENT o Beaver o Human	Ī	Conf.
o RIVERINE o Headwater o Mainstern o Chamel	1	Conf=
C SLOPE (ground water hydrology or on a physical slop)	7	Conf.
o FRINGING o Reservoir o Natural Lake	=	Confi
o COASTAL (specify subclass)	7	Conf.
n BOG (strongly, moderately, weekly ombrotrophic)	Fil=	Confa
Ohio EPA VIBI Plant Community Class (WETLANDS ON A):	EXTIN	
to FOREST a swamp forest a bog forest a forest seep	7	Conf=
o EMERGENT o marsh o wet meadow o open bog	110	Conf
□ SHRUB □ shrub swamp □ tall sh. bog □ tall sh. fen	Fit=	Conf=

# MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

lope 1 = slight elevational grade across module (hit) what for microhabitet features. Belied one or select two and average the score. NOTE: If mod falls on a slope automatically gets ranked based on steepness (1-3) to begin + any features present Stope 2 = falls on slope -20 \* Slope 3 = maximum steepness that can be safely sampled ~45\*

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

4	3	1	-	mod# corner					
b	0	0	O	(count)	Ix m	depth 3		tussocks	no. of
0	0	0	ઉ	(count)	3.1643.16m	depth 2	uplands (Tip-Ups)	hummocks	no. of
o	0	0	C	(count)	[8x]0m	depth I		depressions	по пасто
=	-	ø	٩	(court)	W01%01	depth 1		(2-12 cm)	p.w.s
م	2	0	0	(count)	10x10m	depth I		(12-40cm)	CW.d
O	O	0	0	(count)	1011011	depth 1		>40 cm	5,813
3	2	2	2	(rank)	10x 10m	depth I		interspers.	microhab.
2	2	7	2	(rank)	10x10m	SLOPE			microhab

HON and Confidence	,	
class (WETLANDS ONLY):		
	7	Conf
o Beaver o Human	F	Conf-
advater o Mainstern o Channel	F1-	Conf
Her by thrology or on a physical slops	# 	Conf
servoir o Natural Lake	==	Conf
Ñ: subclass)	7	Conf.
oderately, weekly ombrotrophics	File	Confa
mt.Community.Class (WETLANDS ONLX):	<b>EXTIN</b>	
p forest a bog forest a forest seep	7	Conf=
arsh a wel meadow a open bog	Ti a	Conf

Landform Index (position within landscape) Terrain Shape Index (site intcrotopographic shape)

+315 degrees +270 degrees

Z E

+225 degrees

WS

٤

Service A

+180 degrees +135 degrees +90 degrees +45 degrees Al aspect

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

ingles formed by local slopes. For LFI is angle of plot to the

133

H

Ę

TSI\*\*

CROWN COVER (DENSIONETER). Make 4 readings per module facing N, S, E, W. Place dol count in corresponding space. (4 dols per grid square)

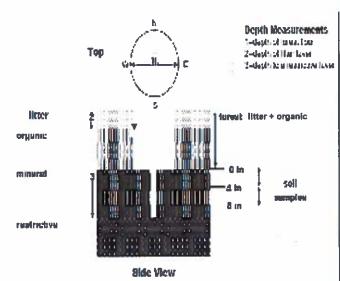
_		2		1	+
_	7	_		-	W
م		ىۋ	-	1	N
-	N	2	-	7	_
£	m	s	2	Module	

i	~	ጎቴ	/ED	DV	STR	ATA

00151101101115	
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.



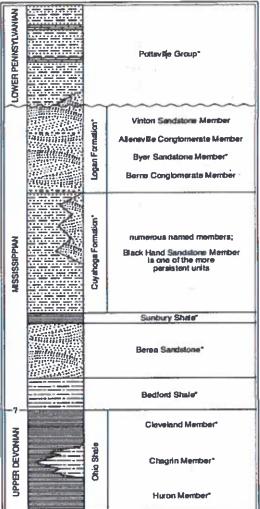


FIGURE 3-20.—Generalized section of Upper Devoman, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio. Asteriaks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to earlie, but the thicknesses indicated are proportional. The term "Waverly is used in the older literature to refer to Mississippian rocks in Ohio. Some geologists use the European term "Carbonistrous," which encompasses the Missingpian 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 missive sandaune that is fairly undergread but discontinuous. See Hyde (1953), Houver (1980), and Colins (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 Blomass Data Sheet 6a
Project label: PCAP Project Name: 02 h 10 5

(Cacycland Richopalis

Page: 1 of 1

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

Soil pit module #\_\_\_

20 cm g cau matrix color matrix color exture. stoor bux mottle ydr. cond \*\*\* dox feetures\*\* Attle color tile color (one per entire plot) Ln M z z

hydro. cond \*\*\* edox features\*\* and mots 4mottle S < Z 0

refer to texture classes on reverse side

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

ecord as >30

organic depth

water depth <u>(S)</u>

soil (cm) depth sat

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

Mess; include evidence of earthworms (worms,

astings, middens)

3- Castings, nowowns 1- Cashings, nowworms 4- castings, nowarms

> 0,3 0.9

9

0,9 depth (cm) 2 litter 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

EARTH SURFACE & GROUND COVER

Soil Collection Modul Review (A. B. C)
2,3,8,9 composited A
Web Soll Survey Informations
Soil Series/Type:
Soil Series Source Ohio Soil Survey
Landform type
Depth to rest. Layer:
Parent Material
DRAINAGE*
Excessively dr.
Well drained Moderately well dr.
a Selicinal poorly or a very burity as
C impermeant surrace

ssively								A		
**** S cm in diameter	*** >5 cm in diameter	**Boulder => 10 in	Gravel-Cobble = 1/16-10	Bedrock	Boulder**	Gravei-Cobble*	Nuneral Sed	Histosol	(Sizes - 100%)	Underlying Farth Surface*
meter	neter	in	1/16-10"	0	0	0	100	0	percent	Surface*
Other	Road/Trail	Bare Soil	Water	Bryophyte-Lichen	Duff (Ferm.+ Humus)	Litter	Fine Woody Debris****	Coarse Woody Debris***	(Each ≤ 100%)	Ground Cover

O

20

n do

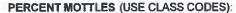
0

			H				740		1
				8	1-	1 C	CP SD		
SEE BACK O	" submersed	" rooted and	(Aquatic)*	(Floating)*	Негь	Shrub	Tree	Skrata	I
SEE BACK OF PAGE FOR "TYPICAL"S	"submersed, most plant mass below su	* rooted and loating or slightly emersed	. 1	. ]	0 -0.5	05.50	70	Height Range (m)	
CAL'S	las wol	beste							1

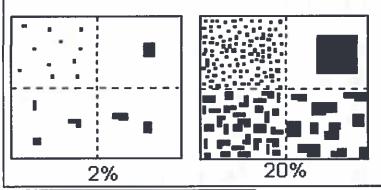
	r		20-60					
Dear	⊒ Gravel	Bootleg unsanctioned	Hiking sanctioned	a Bridle	a All Purpose	Туре	record type and cover for each	TRAIL INFORMATION:
7						%Caver	reach	i.

Θ0

OVER BY stimate us	COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13  Strate Height Range (m) Total	75 (%) 13 %
Tree	5 4	73
Shrub	0.5.5.0	68
Herb	0 -0.5	88
(Floating)*	. ]	(
(Aquatic)*	١	1
rooted and I	* rooted and loating or slightly emersed	ă.
· submersed,	" submerzed, most plant mass below surface	surface
SEE BACK O	SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE	STRATA Y BY COVER TYPE



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



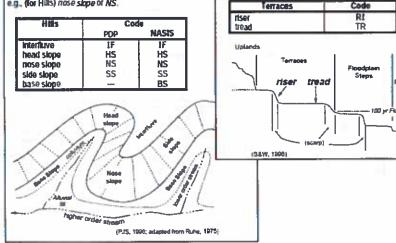
SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but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

Summit

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) nose slope or NS.



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.

hackslope footslope toeslope	BS FS TS		
Su Sh Bs	Fs 76 00000 Ts	Sh i l	Su
(PJS, 1996; assisted from Pune, 1	Abertan		

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.