	ROPARKS Plant Community Asso		the state of the s
roject Label:	РСАР	Plot N	o: 1025 Date Sampled: 07/01 Lead: LAN
1100	an In III	T	Comment required if item answer is NO
	le of Park Boundaries:	YN	If yes, write details in Comments section below
Field journals comple		N (SC	
Site sketch made on 1	T	N	
Check cover page	X-axis Bearing of plot recorded	N Y N	
	GPS coords. Recorded	Y N	
	North direction recorded	Y) N	
	Photographs taken?	YY'N	100
	Relocated Pins Mapped	Y) N	
Plot No., Date agreem	ent on all pages?	Y N	
Header data completed	d all pages?	(Y) N	
Cover classes recorder	d in all Intensive modules	N	
Browse Level By Spec	cies	Y N	
Woody stem quality c		Y N	Check every line and cross check with the Tree Cover Sheet
Invasive plant quality		Y N	IN/A
Ash trees mapped		Y N	INIA
Completed Forest Pest	t/Pathogen Datasheet	(X) N	
Cover by Strata? (con		N	
	with matching plot #.	(y) N	
Cross check 2010 info		(Y) N	Highlight any changes from 2010 information
	latasheet with initials and number	(Y) N	ingings day changes from 2010 information
Vouchers labeled on c		N K	
Pink flags removed	ottection bag	Y N	
	1	YN	£ 1
Data sheet QA before		10	
Common equipment r	eturned to tup.	Y) N	7/0/5
Data sheets scanned?		YOSMP	Enter date to left
Final data sheets scan			Enter date to left
Buffer Widths measur	red?	Y N	
Web Soil Survey	1	YN	
Voucher Location	Refrigerator	YN	
# vouchers collected)	Press (#)		Enter number to left
ACL	Drier	Y N	
246-	Identified	Y N	17/10/00 (A. 12. 07   28   La   A. 10/10/10/10/10/10   4.
351	Mounted	Y N	
25/	Thrown away	Y N	
	]]		
GRTS point verifica	tion: Is plot sampleable?		
<b>A</b> Yes	Original GRTS point is sampleable		
□ No	Original GRTS point lands in a non	-sampleable area	(fill in category below)
1	Point falls in a water (i.e. river.	lake)	
	Managed mowed area (i.e. got	f course, picnic area, r	ight-of-way)
	Paved area (i.e. parkinglot, road)      Unsafe to sample (i.e. steep slop	her)	,
	Other	~/	<del>-</del>
Additional Comment			
	soil collection		

1 7.5

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	nmunity Assessment r	rogram - Backgrou	und Data	Suces				Cy Charaland Mainpeta	
Project Label:	PCAP	Project Name: 236.2015	e BEB	510		Plot No.:	Plot No.: 1025	Page 2 of 2	
MODIFIED NATURESERVE CLASS*			DISTU	DISTURBANCES	10		0.000		
CODE (on separate form):	Fit= Conf=		type	severity**	yrs ago	yrs ago % of plot	description	X	
			Human	W	0	100%	danger marifulation	aton (cut	<u>ل</u> ا
4-02			Natural						ን
COMMUNITY NAME:			Fire		13.0	31001			11 20
			Cut						
URY-MESIC ORK FOREST	§	12.	Animal						
			Other		,				
HOMOGENEITY			**L=low,	ML=med lo	v, M≂med,	MH=med	**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high	igh	
Flomogeneous   Compositional t	Compositional trend across the plot		Current	Land Use:	ARK-	SON SE	Current Land Use: PARK-CONSERUATION		- 12
Conspicuous inclusions a Irregular/pattern mosaic	1 mosaic		Former 1	Former Land Use:	MUKNOWN	MMO			le
	HYDROLOGIC REGIME*	GIME*							1
	*Upland (seldom flooded)	2000	□ Intermittently flooded	oded					
SALINITY*	n Intermittently/seasonally saturated		□ Semipermanently flooded	y flooded					-
D Saltwater	(seldom flooded)	O Pem	□ Permanently flooded	paped					T)
D Brackish	o Permanently/Semipermanent saturated		□ Tidal/Seiche flooded daily	oded daily					
o Fresh	(dry <1/yr, seldom flooded)		al/Seiche floo	☐ Tidal/Seiche flooded monthly	00				
Copland (n/a)	Occasionally flooded (<1/yr)		al/Seiche floo	☐ Tidal/Seiche flooded irregular	17				
	a Temporarily flooded	(e.g	(e.g. wind, storms)	ns)	i Q				
(by default unless plot is a wetland)	3 11 12	a Unk	n Unknown		10000				
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)	ess of plot to the stand, succes	sional status, maturity, e	(c.)				8.	-	2
Herbaceaus community	2	r presentative			2004	707	st. mayapple	ple,	
greenhrlar, and squawroot	wroot all present.	sent.							
			_						
Lonsiderable woody debris		throughout plot.	Ť,					51	VI.
	1 - 1 - 1			da'			í		
					ă.				
V									

Ayan sand Boundary! CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a Strata - Cov. entire plot Cleveland Metroparks Total modules: Project Label: H (F)(A) Br Albahre deadatalla Smilax hispida d Frankland Sp Panous serotina properties authorized to Holszema triphyllum Hice SD rodophyllum Suercus Sp. Seed line ter saccharum Sydays Smous describe amount of browse per species over THEY SALL of plants carolinian a DSD MILHHOLD olidago Caesia Br = Browse Level. Use cover classes to indera propa coods forms weeda striata enecio scala lutetlana DSS 50 0 Canadense Denzola Species pettatum o %unveg. ground (bare soil) Intensive modules: Estimate for each %unvegetated open water intensive module: %unveg, litter (bare litter ACC 346 Project name: Oab, 2015 Voucher # %open water 9 comer cav | depth cov depth 9 g. Plot configuration: ş ş cov\_| dept Plot no.: 1025 SXC ğ ş mod 0 88 8 O depth Plot area (ha): ş ş Page \_\_\_\_ of depth depth æ, DOE

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

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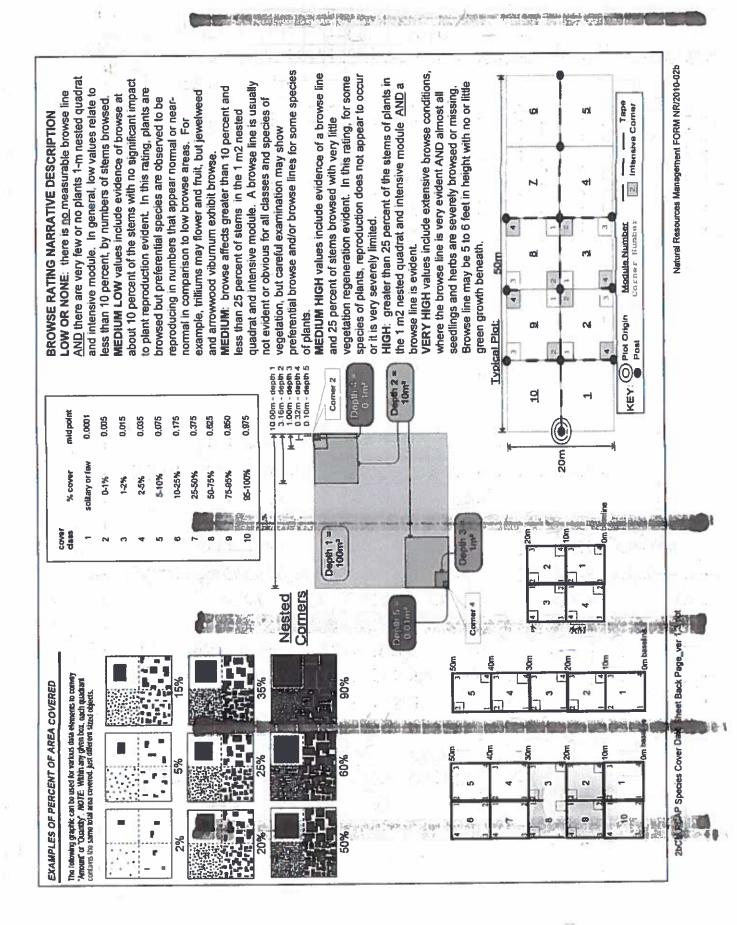
onapholis americana

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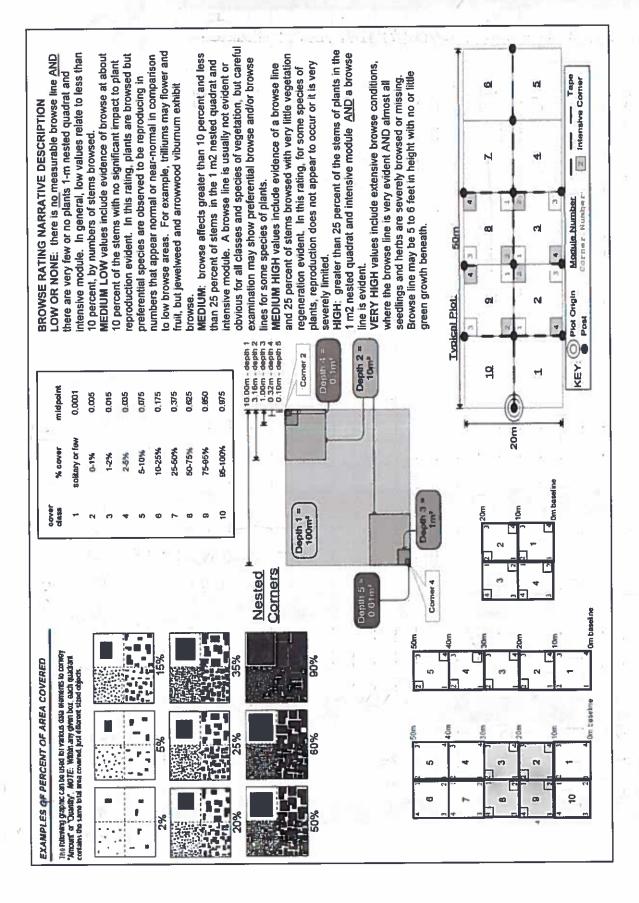
Natural Resource

bagement FORM NR/2

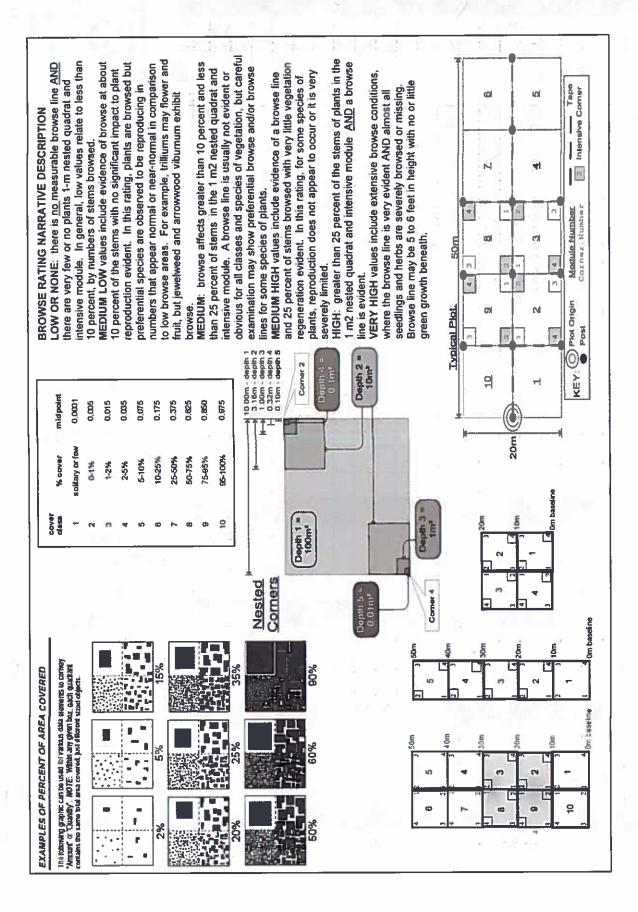
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Cleveland Metroparks CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Total modules: Project Label: trata - Cov. entire plot S H (F)(A)Br of managers capersis Carrio so HSTOV Cornus atternitolia Rubus atterantonistis Sp Prenorthes so. Saylum So setanium maciliatem Imphicarpa bracteata mino tricocorna The lanchier sp. Alliana petiolata describe amount of browse per species over Right a official and s its applia brows sp. SWIMITY Br = Browse Level. Use cover classes to arex FOSEX ractions nwitzwa HS aestivalis arex digitalis strya virginiana itolasca americana aterit orus Species entire plot Villagare Conconnon X ROJUBO o MACL 347 Intensive modules: JACL348/3 %unveg. ground (bare soil) intensive module: Estimate for each %unvegetated open water %unveg. litter (bare litter) ACL349 SRF 12-10-15 PF 17-10-Project name: Oalsr 2015 Voucher# %open water رو <del>ر</del> 1 ş cov \* depth comer mod Plot configuration: 2 x 5 છ 8 ş 4 7400 corrier Plot no.: 1025 corner 90 ş depth Ŧ Ŧ COTTET Q ğ 8 4 depth 1 depth под Plot area (ha): ş ş mod comer mod Page 2 of 3 دو g) 804 ş 8 depth



Project Label:	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Project Label: PCAP Project name: 036r 2015	neni	t Program Species Cover Dat Project name: <u>0</u> えらr ユッケ	02 C	over Bra	Data	She	ě	Plo	Plot no.:	100	4					Page		3 of	W	
Total modules:	/0	5	Intensive modules:	1		Plot	con	Plot configuration:	iion:	ىو	5	K		81	Po	are	Płot area (ha):		-		
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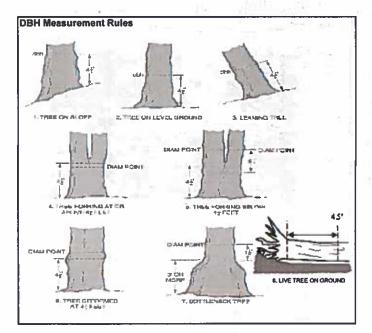
Strata - Cov. entire plot % COVER CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Project Label: 6 막 Juercus velutina ther sambarum traxinus = pensilvanica Acer rubrum oddreus cidora Sueccus alba Istrya Virginiana Species acuminata species (X) and and Project name: 028,2015 Voucher# Plot no .: 1025 R Page \_\_\_ of

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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet	Community Ass	ssment Pro	gram Natu	ıral Woody	Stem Data	Sheet		•			
Project Label:	PCAP	Project	Name: 02	Project Name: 02 BR 2015		Plot No.: 1015	25	Page:	-	<u>e</u>	The Street of th
Explain subsample (additional room on back)	ack):										
	# sterns	sterns % sub	shrub size	size class (cm) woody stems	dy stems >1	>1.4m	<b>"</b>	7	•	5	=
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Rota								)			
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3 Linders Demoil	9	1					8				



### Woody Stem Deer Browse

Record the number of stems/plants between 0.5-1.0 meters talf 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. Thirning 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

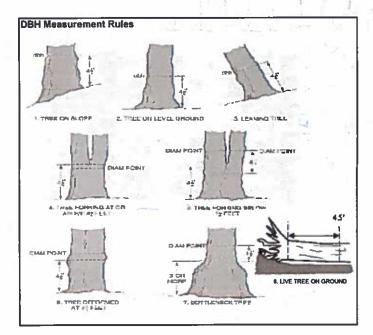
E

# 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.

\* Sport of the spectranum S CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Quercus velupting Prunus Semina existencisms animalistic Fagus grandifilia Aubus Sp. Acer albom Box ben's thuntage Explain subsample (additional room on back): Carpinus cardinia Whercus alba Acer Sacharum Acer Saccharum Fraxinus Sp. Avercus alba Quercus Valutina Acer Socchargion STANDING DEAD Fagus arandifolia Acer rubrum Prunus Serotina Acer DUDOWN Cornus Opernifolia juglans nigra TANDING DEAD Project Label: PCAP voucher# browsed 0-1.4m or super % sub Project Name: 02822015 Plot No.: 1015 size class (cm) woody stems >1.4m ø 2 . 1-<2.5 . 0 N 2.5-<5 . ٠ • 5-<10 • 10 - <15 • • 15 - <20 • 20 - <25 Page: P 25 - <30 30 - <35 Cleveland Netroparks 35 - <40 • 5 オルナ dolo >40 (record each tree) 58,3



### 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 18













# 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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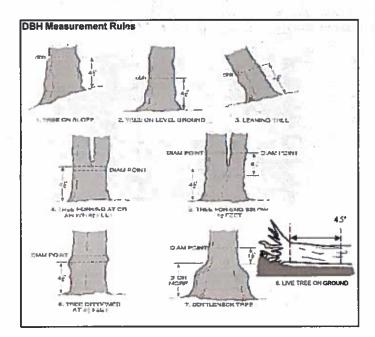
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- B: Over 50% of main branches have fine twigs.
- C: Less than 50% of main branches have fine twigs.
- D: Stem still standing and tertiary main branches present.
- E: Central stem still standing.

2015 measured in med. 7 CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Acer rubrum STANDING DEAD STANDING DEAD adus grandifilia Acer sachanim Ager Saccharum Explain subsample (additional room on back): Klibus Sp. Kosa mutiflara Prunus Serotina Ostrua virginiana Fraxinus Sp. Smilax refundifuli Acer rubrum Carpinus Camilinia Vitis Gestion Sp. NO BEAUXE Ostrya virginiane Overcus alba tagus grandifolic Project Label: PCAP voucher# 60 browsed 0-1.4m N or super % sub Project Name: 07. BC 2015 0 0 size class (cm) woody stems > 1.4m 9 9 <u>}</u> 1-<2.5 × 0 2.5-<5 Plot No.: 10/5 . 5-<10 • Q 10-<15 15 - <20 20 - <25 • 25-<30 30 - <35 (Cleveland Metroparks 35 - <40 >40 (record each tree) 4.0



### 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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В

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D

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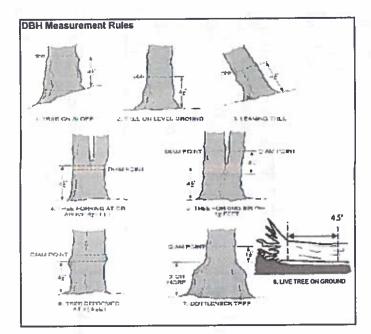
## ASH CANOPY BREAKUP CONDITION (for dead trees):

(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 (045)

Project Label: PCAP Project Name: 01873015 Plot No.: 1085 mod # 2 0 Magnolia su auminata Fraxious sp. Explain subsample (additional room on back): Fagus grandifolia Ocur rubrum Toxicatendran adicans Fraxinus sp. aar rubrum Ostruo virginiana Prunus serotina aur sauharum Quer soucharum Ostrup virginiana inderia benzoin species n voucher# # Sterns perword 0-1.4m or super % sub sample clumps. shrub # size class (cm) woody stems >1.4m : <u>Z</u>. 1-<2.5 :1 2.5-25 5-<10 -10 - **415** 15 - < 20 0 20 - <25 Page: 25 - < 30 I .30 - <35 으 Clepeland Metroparks 95 - <40 5 .>40 (record each tree) z



### **Woody Stem Deer Browse**

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

Record using the tally system from 1 to 10















# ASH CANOPY CONDITION

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

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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.

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

25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	60	CT CT	4	<sub>3</sub>	2	H	Module II
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	Sauce																								Voucher#
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																	THE STATE OF THE S							4	present
		=																	A CONTRACTOR					1	holes
			E.W								Ba	selin	-											٦	
				Map all ash trees													I.	*** Change inter							

es ≥10cm in each module using Tree ID number 4 ensive module numbers when necessary (L)

Metroparka	Cleveland	<b>(</b>
		V

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey

	(J ,M,2) asis dated	has sela	علا دمام	M odi	-osop	bloit tan			Motor For Ground source
							Periwinkle	(G-cover)	Vinca minor
					9		Dame's Rocket		Hesperis matronalis
[	14						Common Teasel		munolluì subesqiQ
	g **						Sanada thistle		Cirsium arvense
[						ī	Cattails (wetland)	EDUI	Typha angustifolia, T. x.gla
						(sptnp)	Multiflora Rose		Rosa multiflora
314						(sprub)	Glossy Buckthorn		Frangula alnus
Ī							Japanese Knotweed		Polygonum cuspidatum
	<del></del>						291imgs1d9.	(wetland)	Phragmites australis
							Reed Canarygrass		Phalaris arundinacea
						(spunp)	Bush Honeysuckles		L. morrowii, L. tatarica
~ ~	,					(dunda)	Common Privet		Ligustrum vulgare
X: Ves	1						Garlic Mustard		Alliaria petiolata
920 \$291d		MN	MS	35	NE	DOR DE			
71	comments		ence	\$919	BR	STATE STATE	tnebnude bri	s beardsabiv	V ;P 19IT
/	***					(shrub)	Doublefile Viburnum		Wiburnum plicatum
						(spunp)	European Cranberry	snj	Viburnum opulus var. opu
1 1		,					Star of Bethlehem	ι	nutalladmu mulagodtin O
<b>i</b> i							Yellow Flag Iris		lris pseudacorus
1 1							Wineberry		Rubus phoenicolasius
1.1								(G-cover)	Pulmonaria officinalis
170						(spunp)	Mock Orange		Philadelphus coronarius
							Japanese Pachysandra	(G-cover)	Pachysandra terminalis
05<' :E						(annus)	Five-leaf Aralia	sn[]/	Eleutherococcus pentaphy
'0S-TT -Z							Crown Vetch	(G-cover)	Coronilla varia
0T-T :T							Lily of the Valley	(19v03-0)	Convallaria majalis
							vellett edt te vili i	1-01100 51	siletem cirellemen?
strial9 to #		MN	MS	E	NE			(20,000 g)	
zinsi9 to #	sprammos	MN	stnal <sup>c</sup> W2	Name and Address of the Owner, where the Owner, which the	İN			si esneseria:	
zinsi9 to #	squemmos	MN		Name and Address of the Owner, where the Owner, which the	NE		Wintercreeper of Interest	(A) DEFECTOR	
zżnsi9 ło #	squeuluos	MN		Name and Address of the Owner, where the Owner, which the	NE	(sprub)	of Interest	(A) DEFECTOR	E jalT
zinsi9 io #	sąuəwwoo	MN		Name and Address of the Owner, where the Owner, which the	NE	(shrub)	Autumn Olive Amur Honeysuckle Wintercreeper <b>of Interest</b>	(A) DEFECTOR	Eiaeagnus umbellata Lonicera maackii Euonymus fortunei Tlet 3
zànsi9 îo #	guəmmoo	MN		Name and Address of the Owner, where the Owner, which the	NE		Cut-leaf Teasel Autumn Olive Amur Honeysuckle Wintercreeper <b>of Interest</b>	(A) DEFECTOR	Dipsacus laciniatus Elaeagnus umbellata Lonicera maackii Euonymus fortunei Tler 3
zżnei9 ło #	squeuluos	MN		Name and Address of the Owner, where the Owner, which the	NE	(spunp)	European Alder Cut-leaf Teasel Autumn Olive Amur Honeysuckle Wintercreeper <b>of Interest</b>	si esreser유 :	Alnus glutinosa Dipsacus laciniatus Elaeagnus umbellata Loniceta maackii Euonymus fortunei Tler 3
zìnsi9 îo #	comments	MN		Name and Address of the Owner, where the Owner, which the	NE	(shrub)	Lapanese Barberry European Alder Cut-leaf Teasel Autumn Olive Amur Honeysuckle Wintercreeper	si esreser유 :	Dipsacus laciniatus Elaeagnus umbellata Lonicera maackii Euonymus fortunei Tler 3
zżnej9 ło #	comments	MN		Name and Address of the Owner, where the Owner, which the	NE	(spunp)	Common Buckthorn Japanese Barberry European Alder Cut-leaf Teasel Autumn Olive Amur Honeysuckle Wintercreeper of Interest	si esnecelia	Rhamnus cathartica Berberis thunbergii Alnus glutinosa Cipeacus laciniatus Elaeagnus umbellata Lonicera maackii Euonymus fortunei
zżngi9 ło #	squaminos	MN		Name and Address of the Owner, where the Owner, which the	NE	(shrub)	Poison Hemlock Common Buckthorn Japanese Barberry European Alder Cut-leaf Teasel Autumn Olive Amur Honeysuckle Of Intereseper	(wetland)	musellasem muson musellases Berberis thunbergii serinis glutinosa Opsacus lacinistas Elaesgnus umbellata Lonicera maackii Lonicera maackii Euonymus fortunei
zżnsi9 ło #	Squamments	MN		Name and Address of the Owner, where the Owner, which the	NE	(shrub)	Hedgeparsley Poison Hemlock Common Buckthorn Japanese Barberry European Alder Cut-leaf Teasel Autumn Olive Amur Honeysuckle Wintercreeper	(bnetland)	Torilis sp.  Conium maculatum Rhamnus cathartica Berberis thunbergii Dipsacus laciniatus Elaeagnus umbellata Lonicera maackii Euonymus fortunei
zżngi9 ło #	Squamments	MN		Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, which i	NE	(shrub)	Asian Bittersweet Hedgeparsley Poison Hemlock Common Buckthorn Iapanese Barberry European Alder Cut-leaf Teasel Autumn Olive Amur Honeysuckle Wintercreeper	(bnetlaw)	Celastrus orbiculatus Torilis sp. Conium maculatum Rhamnus cathartica Berberis thunbergii Alnus glutinosa Dipsacus laciniatus Eiaeagnus umbellata Lonicera maackii Euonymus fortunei
zìngiq îo #	comments	MN		Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, which i	AE	(shrub)	Bishop's Goutweed Aslan Bittersweet Hedgeparsley Poison Hemlock Common Buckthorn Japanese Barberry European Alder Cut-leaf Teasel Autumn Olive Mintercreeper	(G-cover) (vine) (wetland)	Aegopodium podagraria Celastrus orbiculatus Torilis sp. Conium maculatum Rhamnus cathartica Berberis thunbergii Alnus glutinosa Dipsacus laciniatus Ciaeagnus umbellata Lonicera maackii
	comments	MN		Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, which i	AE .	(dunde) (dunde) (dunde)	Purple Loosestrife Bishop's Goutweed Asian Bittersweet Poison Hemlock Common Buckthorn Lapanese Barberry European Alder Cut-leaf Teasel Autumn Olive Amur Honeysuckle of Interese	(bnetland) (boo-c) (vine) (wetland) stresspress stress	Lythrum salicaria Aegopodium podagraria Celastrus orbiculatus Torilis sp. Gonium maculatum Berberis thunbergii Alnus glutinosa Oipsacus laciniatus Ciaeagnus umbellata Lonicera maackii Euonymus fortunei
000't< :9	Squiments	IMN		Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, which i	NE	(dunde) (dunde) (dunde)	Japanese Honeysuckle Purple Loosestrife Bishop's Goutweet Asian Bittersweet Poison Hemlock Common Buckthorn Lapanese Barberry European Alder Cut-leaf Teasel Autumn Olive Amur Honeysuckle Of Intereste	(bnetland) (boo-c) (vine) (wetland) stresspress stress	Lonicera japonica Lythrum salicaria Aegopodium podagraria Torilis sp. Conium maculatum Rhamnus cathartica Berberis thunbergii Dipsacus laciniatus Claeagnus umbellata Lonicera maackii Lonicera maackii
000't< :9 000't-001:5	SQUIMENE	IMN		Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, which i	NE	(dunde) (dunde) (dunde)	Tree of Heaven Japanese Honeysuckle Purple Loosestrife Bishop's Goutweed Asian Bittersweet Poison Hemlock Common Buckthorn Japanese Barberry European Alder Cut-leaf Teasel Autumn Olive Amur Honeysuckle Of Intereste	(bnetland) (boo-c) (vine) (wetland) stresspress stress	Allanthus altissima Lonicera japonica Lythrum sallcaria Aegopodium podagraria Torilis sp. Conium maculatum Rhamus cathartica Berberis thunbergii Dipsacus laciniatus Cipsacus laciniatus Lonicera maackii Lonicera maackii
000't< :9 000't-001:5 001-05 :b	Squammos		STUBLE	10#		(dunde) (dunde) (dunde)	Japanese Honeysuckle Purple Loosestrife Bishop's Goutweet Asian Bittersweet Poison Hemlock Common Buckthorn Lapanese Barberry European Alder Cut-leaf Teasel Autumn Olive Amur Honeysuckle Of Intereste	(bnetland) (boo-c) (vine) (wetland) stresspress stress	Lonicera japonica Lythrum salicaria Aegopodium podagraria Torilis sp. Conium maculatum Rhamnus cathartica Berberis thunbergii Dipsacus laciniatus Claeagnus umbellata Lonicera maackii Lonicera maackii
000't< :9 000't-001:5		MN	WS	# OĮ E	NE	(dunde) (dunde) (dunde)	Morway Maple Tree of Heaven Japanese Honeysuckle Purple Loosestrife Bishop's Goutweed Asian Bittersweet Hedgeparsley Common Buckthorn Japanese Barberry Cut-leaf Teasel Cut-leaf Teasel Autumn Olive Mintercreeper	(vine) (betland) (G-cover) (vine) (wetland)	Acer platanoides Lonicera japonica Lythrum saltissima Lythrum salticaria Aegopodium podagraria Celastrus orbiculatus Torills sp. Rhamnus cathartica Berberis thunbergii Alnus glutinosa Oipsacus laciniatus Ciaeagnus umbellata Lonicera maackii
000't< :9 000't-001:5 001-05 :b	comments		STUBLE	# OĮ E		(dunde) (dunde) (dunde)	Meeded  Tree of Heaven Jepanese Honeysuckle Bishop's Goutweed Asian Bittersweet Poison Hemlock Common Buckthorn Jepanese Barberry Cut-leaf Teasel Cut-leaf Teasel Autumn Olive Autumn Olive Of Intercreeper	(vine) (vine) (bnetland) (G-cover) (vine) (wetland) (wetland)	Acer platanoides Ailanthus altissima Lonicera japonica Lythrum salicaria Aegopodium podagraria Aegopodium podagraria Celastrus orbiculatus Conium maculatum Rhamus cathartica Rhamus cathartica Berberis thunbergii Oipsacus laciniatus Cipsacus laciniatus Lonicera maackii Lonicera maackii
000't< :9 000't-001:5 001-05 :b			WS	# OĮ E		(dunde) (dunde) (dunde)	Flowering Rush  Meeded  Morway Maple  Jree of Heaven  Japanese Honeysuckle  Purple Loosestrife  Bishop's Goutweed  Asian Bittersweet  Poison Hemlock  Common Buckthorn  Japanese Barberry  Cut-leaf Teasel  European Alder  Lut-leaf Teasel  Autumn Olive  Autumn Olive  Of Interesper	(wetland) (vine) (vine) (bretland) (G-cover) (vine) (wetland) (hetland)	Butomus umbellatus  Acer platanoides Allanthus altissima Lythrum salicaria Celastrus orbiculatus Conium maculatum Rhamus cathartica Berberis thunbergii Oipsacus laciniatus Claesgrus maackii
000't< :9 000't-001:5 001-05 :b			WS	# OĮ E		(dunde) (dunde) (dunde)	Meeded  Tree of Heaven Jepanese Honeysuckle Bishop's Goutweed Asian Bittersweet Poison Hemlock Common Buckthorn Jepanese Barberry Cut-leaf Teasel Cut-leaf Teasel Autumn Olive Autumn Olive Of Intercreeper	(wetland) (vine) (vine) (bretland) (G-cover) (vine) (wetland) (hetland)	Acer platanoides Ailanthus altissima Lonicera japonica Lythrum salicaria Aegopodium podagraria Aegopodium podagraria Celastrus orbiculatus Conium maculatum Rhamus cathartica Rhamus cathartica Berberis thunbergii Oipsacus laciniatus Cipsacus laciniatus Lonicera maackii Lonicera maackii
21ns q 10 # 001-02 :4 000,t-001:2 000,t< :8			WS	# OĮ E		(dunde) (dunde) (dunde)	Lesser Celandine Black Swallow-wort Flowering Rush Meeded John Swen Japanese Honeysuckle Purple Loosestrife Bishop's Goutweed Purple Loosestrife Purple Loosestrife Purple Loosestrife Purple Loosestrife Purple Loosestrife Purple Loosestrife Gommon Buckthorn Poison Hemlock Japanese Barberry Cut-leaf Teasel Cut-leaf Teasel Cut-leaf Teasel Mintercreeper	(vine) (wetland) (vine) (vine) (G-cover) (G-cover) (wetland) (G-cover) (wetland)	Ranunculus ficaria Butomus umbellatus Tiei Acer platanoides Lonicera japonica Lonicera japonica Celastrus orbiculatus Torilis sp. Conium maculatum Rhamus cathartica Berberis thunbergii Dipsacus laciniatus Dipsacus laciniatus Claesguus umbellata Dipsacus laciniatus Berberis thunbergii
# of Plants 4: 50-100 5: 100-1,000 000,1<-001 000,1<-001		YMN	W2	3S	NE	(dunde) (dunde) (dunde)	Black Swallow-wort Flowering Rush Morway Maple Tree of Heaven Japanese Honeysuckle Purple Loosestrife Bishop's Goutweed Purple Loosestrife Curples Hemlock Japanese Barberry Cut-lesf Teasel Cut-lesf Teasel Autumn Olive Autumn Olive Autumn Olive Of Interester	(vine) (wetland) (vine) (vine) (G-cover) (G-cover) (wetland) (G-cover) (wetland)	Cynanchum louiseae Butomus umbellatus Acer platanoides Allanthus altissima Lythrum salicaria Celastrus orbiculatus Conium maculatum Rhamus cathartica Berberis thunbergii Berberis thunbergii Conium maculatum Conium maculatum Conium maculatum Rhamus cathartica Berberis thunbergii Conium maculatum Rhamus cathartica Berberis thunbergii Conium maculatum
27ns)9 to #  001-02 :4  000,1-001:2  000,1<:6	comments		WS	# OU	NE	(dunde) (dunde) (dunde)	Japanese stillgrass Lesser Celandine Flowering Rush Flowering Rush Tree of Heaven Japanese Honeysuckle Purple Loosestrife Purple Loosestrife Poison Hemlock Asian Bittersweet Hedgeparsley Poison Hemlock Cut-lesf Teasel Japanese Barberry Cut-lesf Teasel Lucopean Alder Autumn Olive Autumn Olive Of Intercreeper	(vine) (vine) (vine) (vine) (vine) (vine) (bretland) (G-cover) (ine) (vine) (vine)	Microsfegium vimineum Ranunculus ficaria Cynanchum louiseae Butomus umbellatus Tlei Acer platanoides Lonicera japonica Celastrus orbiculatus Torilis sp. Conium maculatum Rhamus cathartica Gelastrus orbiculatus Celastrus orbiculatus Orpsacus laciniatus Berberis thunbergii Berberis thunbergii Conium maculatum Conium maculatum Conium maculatum Berberis thunbergii Conium maculatum Conium maculatum Berberis thunbergii
# of Plants 4: 50-100 5: 100-1,000 6: 500,100		YMN	W2	# OU	NE	(dunde) (dunde) (dunde)	Lesser Celandine Black Swallow-wort Flowering Rush Meeded John Swen Japanese Honeysuckle Purple Loosestrife Bishop's Goutweed Purple Loosestrife Purple Loosestrife Purple Loosestrife Purple Loosestrife Purple Loosestrife Purple Loosestrife Gommon Buckthorn Poison Hemlock Japanese Barberry Cut-leaf Teasel Cut-leaf Teasel Cut-leaf Teasel Mintercreeper	(vine) (vine) (vine) (vine) (vine) (vine) (bretland) (G-cover) (ine) (vine) (vine)	Microsfegium vimineum Ranunculus ficaria Cynanchum louiseae Butomus umbellatus Tlei Acer platanoides Lonicera japonica Celastrus orbiculatus Torilis sp. Conium maculatum Rhamus cathartica Gelastrus orbiculatus Celastrus orbiculatus Orpsacus laciniatus Berberis thunbergii Berberis thunbergii Conium maculatum Conium maculatum Conium maculatum Berberis thunbergii Conium maculatum Conium maculatum Berberis thunbergii

	10	9	œ	7	თ	ĊΊ	4	ω	2		⊞od #			CLE
U U	10 Fagus grandifolis	9 Fagus grandifolia	8taqus granditula	J	Fagus granditivia	J	Facus grandifolia	3 Fagus grandifolia	ر	Fagus granditolia	species		Project Label;	CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Sheet
											voucher#			Communit
											shrub clumps	#	TCAT	/ Assessme
	2.5	6	2 0							n	<u>7</u> -	size class (cm) woody stems >1m	Projec	nt Program
	٥										2 1-<2.5	m) woody	x Name	Forest
							•	7			3 2.5-<5	stems > 1	DAK	Pest ar
	0				,						5-<10	· <u>a</u>	Project Name: DASK AUIS	nd Path
											5 10 - <15			ogens D
											5 6 10 - <15 15 - <20		Plot No.:	ata She
											7 20 - <25		100	8 P
											25-<30			
											30 - <35		Page:	,
											10 35 - <40			•
											7 0 9 10 11 20 - <25 25 - <30 30 - <35 35 - <40 >40 (record each tree)			Cieveland Metroperts
						- 11				12.2.7%				_

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

Strata # of stam	Severity (H;M, or L)	* Write None Present if no evidence:	
Tree • X (size class 3 or above)	٢	Beech (Fungus)	Asian Longhorned Beetle
Shrub (size class 2 or below including shrub clumps)	1	Hemlock (HWA)	Other Pest or Pathogen
		Walnut (Thousand Canker)	,

Shrub

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

Low = Only a few leaves or branches are exhibiting symptoms

Severity

	-	100		Tro	1		10	9	8	7	O1	4	<sub>3</sub>	2		mod #			
10% of Fagus infected?	Herbacous	Shrub	Tree	Strata						Fagus Grandina		4 Fogus grandifilia		C	Factor anarchique	species		Explain subsample (additional room on back):	1 Of the Colors
of con infect				Total % Cover	H		X									voucher#		on back):	
6 6				Severit	3											or super sample	% sub		ľ
Shrublager?	_	1		be												shrub clumps	#		
The state of				* Write None Present if no evidence:												아스 -	size class (cm) woody stems >1m		
ί, )	-Walnut (Thousand Canker)	-Hemlock (HWA)	-Beech (Fungus)	lone Pr	:	L										2 1-<2.5	(cm) woo		
	(Thous:	₩ (HWA	(Fungus	esent if												3 2.5-<5	dy stems		
	and Car	٥	_	no evid							Ti l					4 5≺10	m		
	ker)	-Other	-Asian	ence:												5 10 - <15			
	-5	Forest F	-Asian Longhorned Beetle											Ī		6 15 - <20			
		est or F	ned Be		88	Г			Complete Section 2			00 II				7			
		-Other Forest Pest or Pathogen	- <del>1</del>					-								5 25 - <30			
	>	_								*						0 30 - <35			+
					J							E				10 15 35 - <40			ا و
					39											10 >40 (rec			
																11 -40 (record each tree)			

Project Label: PUAIT Project Name:	Project Label: PCAP Project Name: Project Na	Page: 1011
STANDING BIOPHASS (required for energent wettawal) collected to 0.1m clip plots (\$2x32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C7=check when collected	CLASSIFICATION	McNAB INDICES (degrees) + for up - for down
Vodule # C7 Corner Corner	(FTT = executions, g FTs and Conflidence	IFILLED OUT USING DIS PROGRAM - DO NOT FILL OUT IN FIELD)
	K THE TWETT ANDS ONLY):	LPI TSI -
	a IMPOUNDMENT a Beaver o Human Fit Confe	Al aspect N  Al aspect NE plot to the horizon, 751 is
	O RIVERINE O Headwater o Mainstern o Channel Fil Confi	E
	Confr. Confr.	Str
	O FRINGING O Reservoir O Natural Lake Fit Confe	S
	Fig.	WS
	Object (Stronger, moderatery, weekly constraint pants)	**************************************
	© FOREST □ swamp forest □ bog forest □ forest seep Fit Conf	* Landfort findex (position within landscape)
	o SHRUB o shout awaren o tell sh bog o tell sh fon Fire Confe	** Terrain Shape Index (tils microtopographic shape)
NICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only subset for microhabitat heaves. Select one or select two and average the score, NOTE: If	HICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only invited the solution of the constant of the solution	
0 feature is absent or functionally absent from the wetland 3 feature is present in the wetland in very small amounts of it more common, of low quality 7 feature is present in moderate er greater amounts and of highest quality, or in small amounts of highest quality	mon, of low quality n small amounts of highest quality lity	CROWN COVER (DENSIOMETER), Make 4 readings per module facing N. S. E. W. Place dos count in corresonding space. (4 dots per grid square)
	c.w.d count for pieces with minimum 1m length	+
no. of no. of humanocks	no. macro. c.w.d c.w.d c.w.d microhab. microhab. depressions (2-12 cm) (12-40cm) >40 cm interspers.	40- 04e
depth 3 depth 2	depth ( depth ) depth ( depth ) depth ( SLOPE	67
	10x10m 10x10m 10x10m 10x10m 1	000000000000000000000000000000000000000
) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	0	1
2 0 2		00 11 40 01
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NOTE , house of the Inflamman of Constraint in 100 H region quarte co	15 8 7 6 7 6 3 6 4	
3 7 00 00	88003	
SACH CAP Plant Covy Lift Surjety Date short Page 1_vpr.list is	1 2 C	Natural Resources Mangement FORM NR/2010-05a

07/01/2015

@ Glovedan & Makingaria

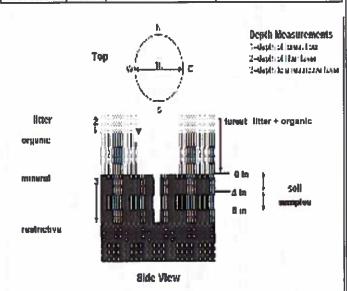
### **COVER BY STRATA**

OOILMEN	
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.



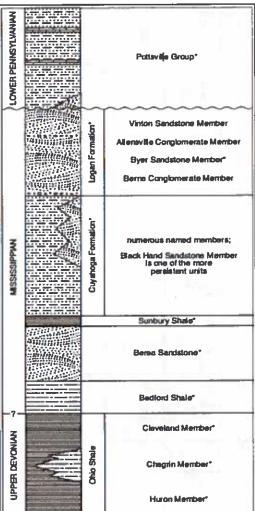


FIGURE 3-20.—Generalized section of Upper Devonian, Mississpian, and Lower Pennsylvanian formations in northeastern Ohio Asteriaks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the chicknesses indicated are proportional. The term "Waverly" is used in the older literature to refer to Mississippian rocks in Ohio. Some geologists use the European rorm "Carboniferous," which encompasses the Mississpians 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 massive sandsome that is fairly undergread but discontinuous. See Hyde (1953), Hoover (1950), 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 86 2015

Plot No.: 1015

(Cacretand lifebaparies

Page: 1 of 1

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

Soil pit module #

(one per entire plot)

20 cm S cm matrix color matrix color rexture. redox features\*\* oxid roots exture\* ydr. cond.\*\*\* edox features\*\* axid roots monie ottle color Hue color S M

refer to texture classes on reverse side ydro. cond \*\*\*

I S M D

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

otes: include evidence of earthwomns (worms dundated S-saturated Memorat Dedry

OBSERVED CASTINGS
OBSERVED
OBSERVED

SWARMON ZOOM astinge, middens)

MOD & WORMS

MOD9: WORMS

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

□ Well drained □ Impermeable surface a Somewhat poorly dr. D Excessively dr. Seil Collection Moduli Herizon (A. B. C) oil Series Source: Ohio Soil Survey epth to rest. Layer. oil Series/Type: 3,8,9 composited andform type: rent Material & Sail Servey Infor Somewhat excessively □ Moderately well dr a Very poorly dr

			100,000
>30.5 cm,	0.1 cm in center of intensive modules. If >30.5 cm	intensiv	in center of
mod bill of a	SCIE DEVIN MEASUREMENT Measure to the n	COUNTR	STAIN MEN

	2.						
	w	2	9	90	3	2	mod#
	S)	4543	26.	1.4	2.5	५.५	1 litter+ organic depth (cm)
	S) So	FhSh	2.6	1.4	<del>مار</del>	1.5	2 litter depth (cm)
	0	00		0	9	0	water depth (cm)
	0	8		0	J	O	depth sat
1	100						

Underlying Earth Surface	h Surface*	Ground Cover
(Suppl = rems)	percent	(Each ≤ 100%)
Histosol	j	Coarse Woody Debris***
Mineral Soil	/0070	Fine Woody Debris****
Gravel-Cobble*	1	Litter
Boulder**	1	Duff (Ferm.+ Humus)
Bedrock	1	Bryophyte Lichen
• Gravel-Cobble = 1/16-10"	1/16-10*	Water
• Boulder = > 10 in	5	Bare Soil
*** >5 cm in diameter	neter	RoedTrail
	•••• <5 cm in diameter	

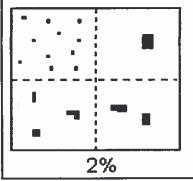
surface	the state of the s	
A.	rooted and floating or slightly emersed	rooted and fa
ľ	Ŀ	(Aquatic)
		(Floating)*
487.	0 - 5	Herb
63%	5-5	Shrub
8870	5	Tirce
Total Cover (%)	Height Range (m)	Skrata

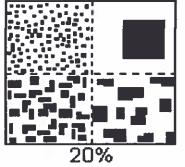
a Deer	Gravel	Bootleg unsanctioned	Hiking sunctioned	n Bridle	a All Purpose	Туре	record type and cover for each	HOLLYHADANI TWALL
						%Cover	yr each	2

< plot size	1-3 x plot suze	a 3-10 x plot size	10-100 x plot size	> 100 x plot size	>600 x plot size	STAND SIZE
	R	size	ot size	Size	şıze	18 

### PERCENT MOTTLES (USE CLASS CODES):

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





Гептасез

riser tread

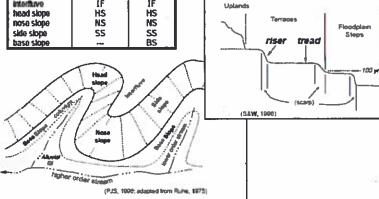
SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but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

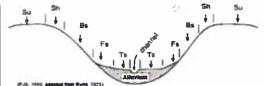
Geomorphic Component - Three-dimensional descriptors of parts of landforms or microleatures that are best applied to areas. Unique ors are available for Hills, Terraces, Mountains, and Flat Plains;

e.g., (for Hills) nose slape or NS.

計鑑3	Cor	e
	PDP	NASIS
interfluve	IF.	1F
head slope	HS	HS
nose stope	NS	NS
side slope	SS	SS
base slope		BS



Hitslope - Profite Position (Hitslope Position in PDP) - Two-dimensional 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.



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

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