CLEVELAND MET	TROPARKS Plant Community Asse	ssment Program:	Quality Control Form
Project Label:	РСАР	Plot No	: 1002 Date Sampled: 06/19/15 Lead: CKM
			Comment required if item answer is NO
Parking/Access outsi	de of Park Boundaries:	YN	If yes, write details in Comments section below
Field journals comple	ted	N (S)	
Site sketch made on 1	1:3000 map?	Ø N	2
Check cover page	X-axis Bearing of plot recorded	(Y) N	
	GPS coords. Recorded	(Y) N	
	North direction recorded	N	
	Photographs taken?	Y N	
	Relocated Pins Mapped	(Y) N	
Plot No., Date agreen	nent on all pages?	N N	
Header data complete	ed all pages?	N	
Cover classes recorde	ed in all Intensive modules	Y) N	
Browse Level By Spe	cies	N (Y)	
Woody stem quality o	control check	(Y) N	Check every line and cross check with the Tree Cover Sheet
Invasive plant quality	control check	YN	NA
Ash trees mapped		(Y) N	
Completed Forest Per	st/Pathogen Datasheet	(V) N	A P
Cover by Strata? (con		(V) N	
Soil samples collecter	d with matching plot #.	YN	NA
Cross check 2010 inf	and the commence of the comment of t	(Y) N	Highlight any changes from 2010 information
Vouchers labeled on	datasheet with initials and number	N W	
Vouchers labeled on	collection bag	Ø N	
Pink flags removed		(Y) N	
Data sheet QA before	leaving site?	N	
Common equipment		Y N	
Data sheets scanned?			Enter date to left
Final data sheets scan	ined?		Enter date to left
Buffer Widths measu	red?	YN	
Web Soil Survey		YN	
Voucher Location	Refrigerator	YN	
(# vouchers collected)	Press (#)		Enter number to left
CKMO51-	Drier	YN	
	Identified	YN	27.2.
066	Mounted	YN	
	Thrown away	YN	
GRTS point verifica	tion: Is plot sampleable?		
□ Yes	Original GRTS point is sampleable		
□ No	Original GRTS point lands in a non-	-sampleable area (i	fill in category below)
	□ Point falls in a water (i.e. river.		
	Managed mowed area (i.e. gold		tht-of-way)
	Paved area (i.e. parkinglot, road)		
	Unsafe to sample (i.e. steep slop	c)	

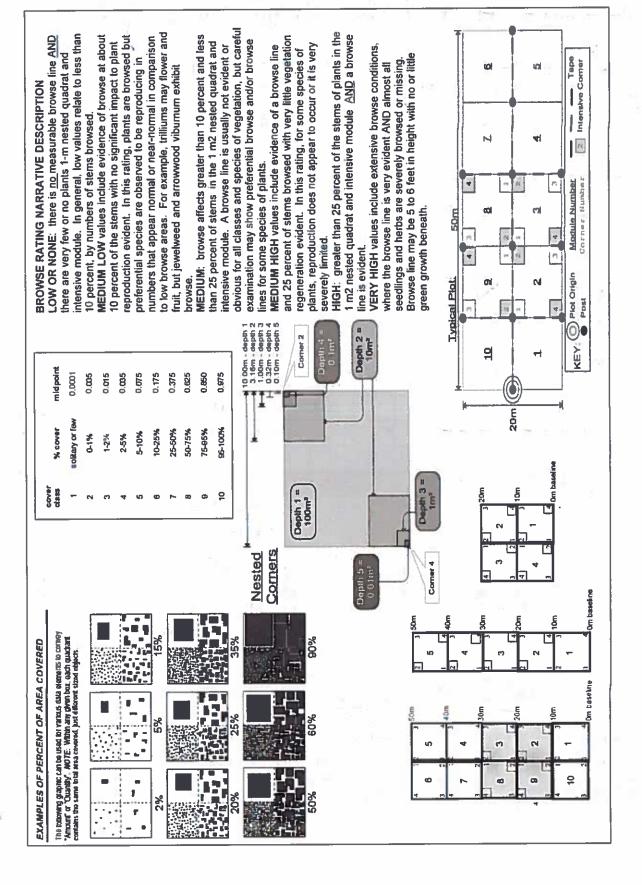
Additional Comments:

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet PCAP Project Label: PCAP Project Label: PCAP	munity Assessment F PCAP	Project Name: 02 HI 2015	ind Data	Sheet II 2015		Plot No.:	Plot No.: 002	Page 2 of 2	
MODIFIED NATURESERVE CLASS*			DISTU	DISTURBANCES			į		
CODE (on separate form):	Fit=Conf=		type*	severity**	yrs ago	yrs ago % of plot	-,≘¦`		
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COMMUNITY NAME:			Fire						
Post-Clear (ut Community 2) +	5) + Years		Cut		٠	100%	SRF 7-1-15	-	
	Plo	2	Animal	I	0	2	Deer browse		
			Other						
HOMOGENEITY			*L=low	ML≃med lov	v, M=med,	MH=med	**[]ow, ML=med low, M=med, MH=med high, 1:=high, VH=very high	5000	
Tomogeneous a Compositional to	n Compositional trend across the plot		Current	Current Land Use:	Park			0.000	
© Conspicuous inclusions	mosaic		Former	Former Land Use:	Agriculture	HURE			
	HYDROLOGIC REGIME*	GIME*							
	Oupland (seldom flooded)	為	□ Intermittently flooded	poped					
SALINITY*	□ Intermittently/seasonally saturated		Semipermanently flooded	y flooded					
D Saltwater	(seldom flooded)	п Рет	Permanently flooded	oded					
o Brackish	a Permanently/Semipermanent saturated		☐ Tidal/Seiche flooded daily	oded daily					
D Fresh	(dry <1/yr, seldom flooded)		J/Seiche flo	D Tidal/Seiche flooded monthly					
(Dpland (n/a)	□ Occasionally flooded (<1/yr)		Il/Seiche flo	n Tidal/Seiche flooded irregular					
	□ Temporarily flooded	(e.g	(e.g. wind, storms)	ms)					
(by default unless plot is a wetland)		n Unknown	nown						110
Additional notes & diagrams: (Representativeness of plot to the stand successional status, maturity, etc.) and smaller shrubs. Posson IVV and Virginia creager are the most abundant. The plot has	s of plot to the stand succe	ssional status, maturity, el	E 25	Most	punde	unt,	The plot has		
a trail close to the south	and a boot	1cg running H	- Upa may	it along	子と	east.	There is one	lavze	
causely gap in med 7. M	lode land 2	# recieve su	ntight	Rom th	- Fra	The An	d are more		
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With sparse veg and s	ome non-nat	Nec establi	shime.	Mod	<u>ک</u> ۷	S QN	area that seev	ns to	Ш
seep water though no obligate wetland plants present. The plot is surrounded on two sides by a fence.	gate wetland plan	its present.	المام.	115 SUIT	rande	+ NO Y	wo sides by a	fence,	U.X
This tenced area is aid	Chew trom the	SURROUNDING	woods	74	5	MAGET	overall as	well	뗈
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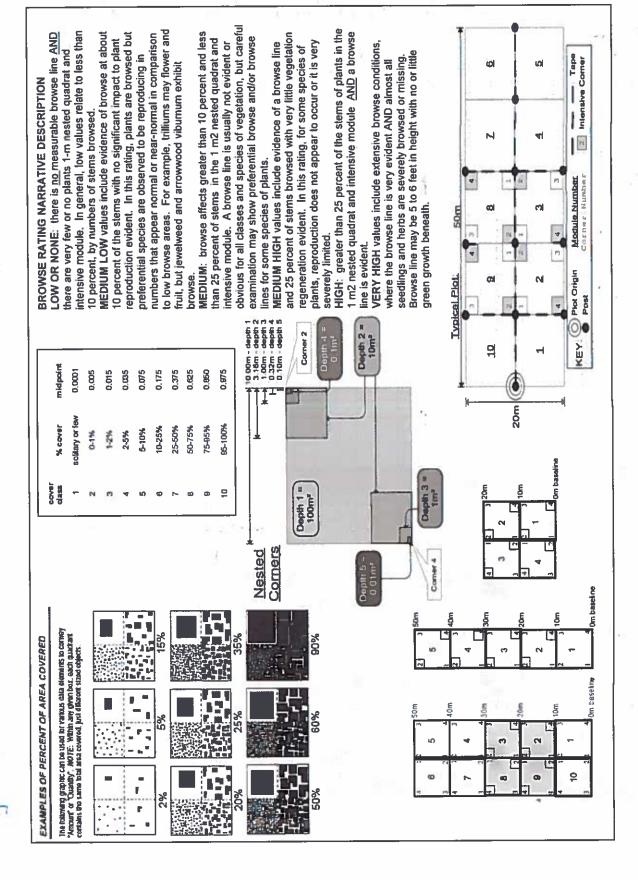
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CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

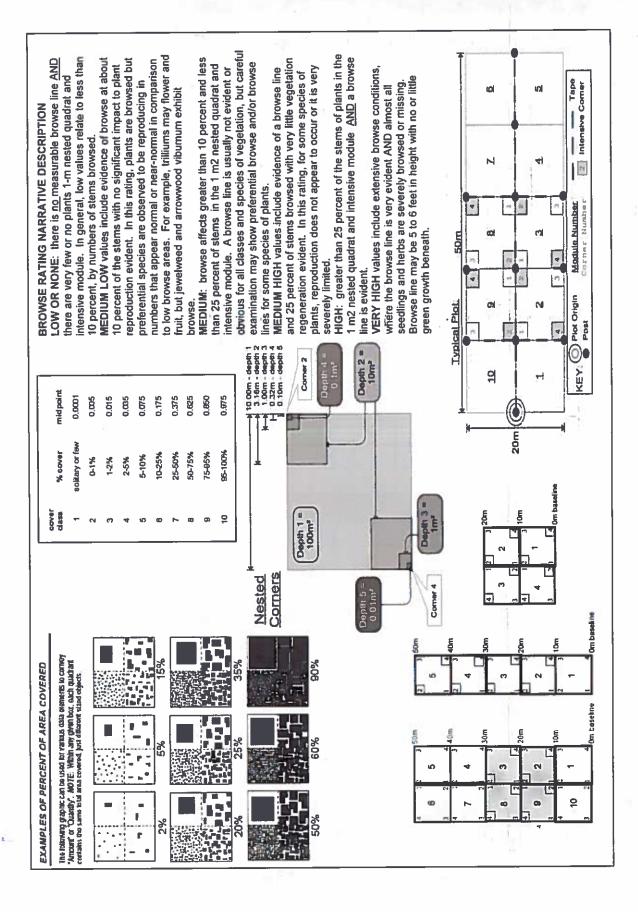
CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Strata - Cov. entire plot Project Label: Cleveland Metroparks Total modules: S H (F)(A) Br C, To xiro dendyon, radi cans Parthonocissus quinquetolia Kanunculus Youngs senting Carya Rous sp. describe amount of browse per species over RHAMNUS FRANGULA Carex Swanking arya % Poaceae LONGCERY NORROWLT Quercus sp. STANT Shinkly SAUSO YUXINUS Br = Browse Level. Use cover classes to creaced c Cer -mpatiens JP Ö Saccharum MULTITIORA 05 alternitolia Seedling Species officinalis entire plot pensylvanica spedling 50. 13Kall no SCID!ING -Small Raule n Intensive modules: %unveg. ground (bare soil) intensive module: Estimate for each %unvegetated open water Kunveg, litter (bare litter) BOWNI 14749-30 CKM05 Project name: 02 HT 2015 Voucher # 5-4-15 %open water 4 N N 12 N B 2 ş cov + depth Plot configuration: ş ğ 8 Plot no.: 1002 ğ NM 8 P þ HO 0 12 ş cov i depth W Plot area (ha): ş Page _ W 1 6 U O W 9 ş ş



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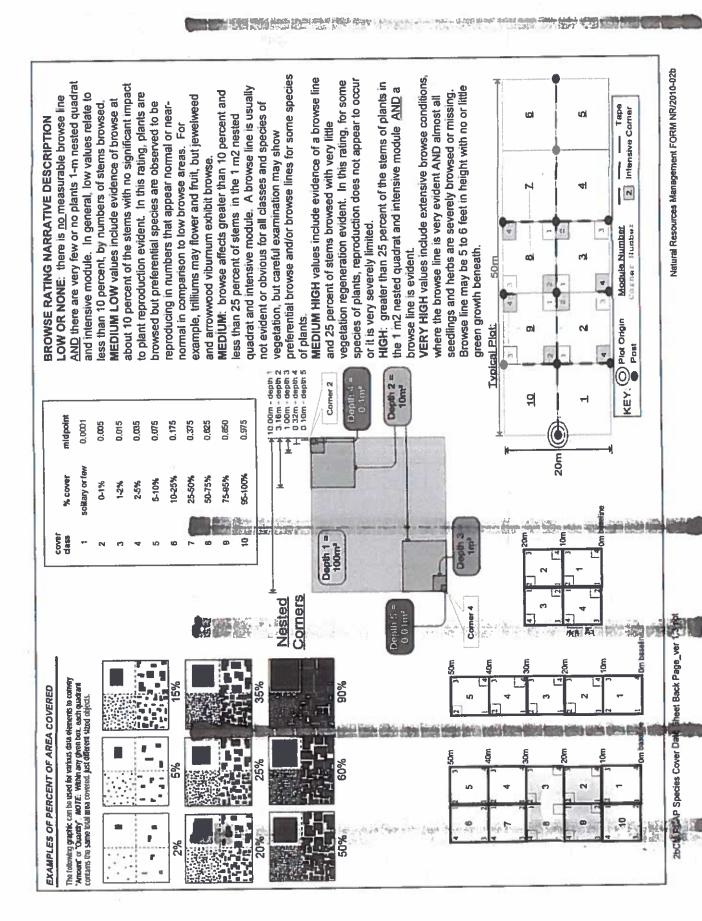


CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet **Cleveland Metroparks** Strata - Cov. entire plot Total modules: Project Label: S 7 <u> Н (F)(A) Вг</u> N 7 Care X 18 Care X #5 Quercus sp Solidado rugosa Integer Contege - agos 1 dem Rubus 300 Acor rubrum A + DAY arexcan The all the man and odd atter LONICERA -indera Ar-15 dema describe amount of browse per species over ani chim ASCX. Br = Browse Level. Use cover classes to anthonia spicata Persia Vicainica COMONESSO * H pallo scens ircand -small Species Japonic a DESTRACT entire plot tripryllum var trapplu hieracitolia tonius White oak X3 JOUNS Anthoxanthum. The state of the s ノンタラ 1576100 M Janus 145 CKW いれる Intensive modules: %unveg. ground (bare soil) intensive module: Estimate for each %unvegetated open water CH 344-343 CH 320-325 4 CKNO62 CKINUSB %unveg. litter (bare litter いるを発展が CKM661 CKMOGO CKM 057 CH321 CKMOSE CH349-351 C4314 Project name: 02 HI 2015 1-4-1 E Voucher# %open water 150 depth COV + depth ğ Plot configuration: ğ 8 mod cov i depth Plot no.: 1002 ş 2×5 ş depth depth 200 â. §. 3 depth Q 2 mer Plot area (ha): • 1 ğ ğ Page > COTTIEC 8 mod ş 8 2 h 2 P 2 2 might be sain C. Vily Istic Tellung parisons Combined it Ryglove, Beard Thy Spelling? PAS KODVIGNICON -Ovalian possibly sanc pura solo be year



CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a

Project Label: PCAP Project name: 02 HI 2015 Strata - Cov. entire plot 2aCM PCAP Species Cover Data sheet Page 1 of x_ver 3.xls last revised 5/29/2012 ceh Cleveland Metroparks Total modules: S H (F)(A) Br 0 Contaggus sp. Onoclea sensibilis Europamus oboyatus DYCY describe amount of browse per species over Ó Br = Browse Level. Use cover classes to Species entire plot Intensive modules: %unveg. ground (bare soil) intensive module: %unvegetated open water Estimate for each %unveg, litter (bare litter) 952-28cho 64357-359 Voucher # %open water ž Garner mod cav | depth cov depth Plot configuration: ş YOU mod gy. cov depth Plot no.: 100 1 2 nod Dom 2×5 8 ş depth depth mod tomer Natural Resource cov depth cov depth per 0 Plot area (ha): ş ş hagement FORM NRV Page _ 97 cov | depth mod 9 8 0-02a depth depth 200 Z 7 12 á stipule large



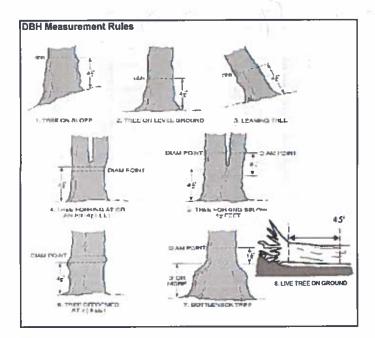
SRE_CM PCAP TREE Species Cover Data sheet.xls last revised 6/10/2015 jim

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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.
- 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.

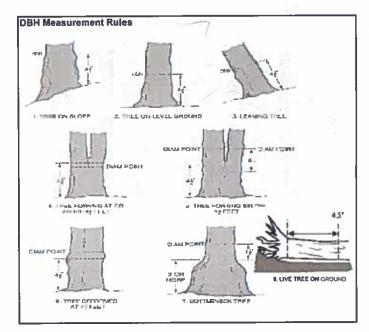
Plot No.: 1	Project Name: 02H/205	: PCAP	Project Label:
Stem Data Sheet	Assessment Program Natural Woody Stem Data Sheet	Community	CLEVELAND METROPARKS Plant Community Assessmen

Plot No.: 1008

Page: 2

P Gleveland Metroparks

4		sample clumps 0-<1 1-<2.5 2.5-<5 5-<10 10-<15 15	browsed sample clumps 0-41 1-42.5 2.5-45 5-410 10-415 15-420 20-	0-1.4m or super shrub 1 2 3 4 5 6 7 8 browned sample clumps 0-<1 1-<2.5 2.5-<5 5-<10 10-<15 15-<20 20-<25 25-<30	0-1,4m or super shrub 1 2 3 4 5 6 7 8 9 browned sample clumps 0-<1 1-<2.5 2.5-<5 5-<10 10-<15 15-<20 20-<25 25-<30 30-<35
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Woody Stem Deer Browse

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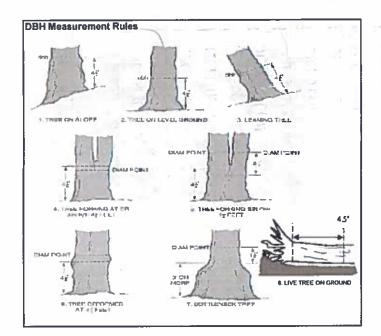
E

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.

00 00 47 7 Standing Dand CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 00 9 00 47 00 9 Fraxious penosylvonica Fraxinis so serdling Vites austivalis Parthingcissus quinquelolla Our sauthanm Stanting Dead Rosa multiflara Standing Dood Toxicatindran radicans Faxinisso sudling Fraxious penosylvanica Ulmus amuricana Ulmusso seutling Vitis austivalis Ulmsammana Our sachaom Canja ovata Jmus ruba Toxicodundran radicans Jimus rubra Jur rubrum micera morrawii arva cordiformis Project Label: PCAP 0-1.4m browsed Stems 76 છ W g) 8 **\$**2 or super % sub Project Name: 03 H13015 dumps shrub # size class (cm) woody stems >1.4m <u>2</u> :: П 1-<2.5 2.5-<5 口 Plot No.: 1002 D 5-<10 : 10-<15 15 - < 20 20 - K25 Page: 25 - < 30 30 - <35 Agreerland Metroparks 35 - <40 **5** >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.
- 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)

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	CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Project Label: PCAP Project Name: 0211 2015 Piol No.:	nunity Assessr AP	Project Name: QN HI 2015	Natural Wo	ody Stem L	Plot No.: 1002	loga	Page:	4	of Par	P Geweinna Metropaiks
	n bac				100		8		1		
	mod # species c vou	# stems 0-1.4m voucher# browsed	% sub # or super shrub		size class (cm) woody stems > 1 2 3 0-<1 1-<2.5 2.5-<5	1.4m	5 6 10-<15 15-<20	7 20 - <25	8 25 - <30 30 -	9 10	0 >40 (record each tree)
	Parthinacissus quanquefolia	\blacksquare		•	-		_			_	
	a Toxicotentran radicars	1									
	10 Acer southrum	•		п п	四四四	, ,	三		is and	1	
1	JO Vitis australis										
	10 Toxicodundron raticans			•			7		(Second		
	10 Ulmus americana			•	•	•					
	10 Stanting Dead			* *	1;	:			994	37	
	10 Lingdentran tulipitera										
	10 Parthinocissus acinquifolia			•							
	* 10 Queros so (alpa)										
	110 Rosa multiflora	h	る								
	10 Fraxin & Denisylvanica	Singuis				-78					
	* 10 Rubus ox (Parking) par	MATOURSTRA									
	* 10 Cornus so.										
)	* 10 Pyrus sp.										
						-17					
									<u></u>		

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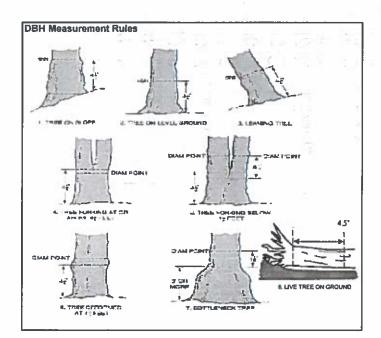
3aCM PCAP Natural Woody Stem Data Sheet ver 2.0.xls last revised 5/29/2012 jjm

* Can out

it could in FMI - wee

FM - word 4 more spaces

Natural Resources Management FORM NR/2010-03a



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

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- 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
Woodpecker and epicormic marked present (1) or absent (0)

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25	24	23	22	21	20	19	18	17	5	5	14	13	12	=	
			3												
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			-								В	aseli	ne		
				Map all ash trees ≥											
				Ses					2					_[φ

Baseline

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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		6	Pre:	ence		GPS	<u> </u>
		1	NE	SE	SW	NW		Presence
Aicrostegium vimineum	Japanese stiltgrass							X: yes
Ranunculus ficaria	Lesser Celandine					П		7
	Black Swallow-wort							7
	Flowering Rush							7
leracleum mantegazzianum	Giant Hogweed							7
Tier 2: Assess a			STATE OF	# 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				1	ш		3: 51-100
ythrum salicaria (wetland)	Purple Loosestrife							4: 101-1,00
Aegopodium podagraria (G-cover)	Bishop's Goutweed							5: >1,000
Celastrus orbiculatus (vine)	Asian Bittersweet			-	\vdash		:	1 (2) 3,333
	Hedgeparsley			1				1
Torilis sp. Conium maculatum	Poison Hemlock	-		1			· · · · · · · · · · · · · · · · · · ·	-
	<u> </u>	shrub)		+	 	$\vdash \vdash \vdash$		⊣
Rhamnus cathartica		shrub)		+	+			┨
Berberis thunbergii		onrub)		+	+		<u> </u>	┨
Alnus glutinosa	European Alder			+-	+	 		-
Dipsacus laciniatus	Cut-leaf Teasel			-				┥
laeagnus umbellata		shrub)		-	-			-
onicera maackii		shrub)		-	-	 		-
Euonymus fortunei	Wintercreeper							-
Tier 3: Presence is	s of interest				Plants		comments	In of the sale
			NE	SE	SW	NW		# of Plants
Convallaria majalis (G-cover)					-	-		1: 1-10
	Crown Vetch			-	-	1		2: 11-50.
Eleutherococcus pentaphyllus		shrub)		-	╄			3: 51-100
	Japanese Pachysandra			 	—	-		4: 101-1,0
Philadelphus coronarius		shrub)		 	₩	<u> </u>		5: >1,000
Pulmonaria officinalis (G-cover)	Lungwort				<u> </u>			4
Rubus phoenicolasius	Wineberry				<u> </u>			⊣
ris pseudacorus (wetland)	Yellow Flag Iris			\perp		\sqcup		_
Ornithogalum umbellatum	Star of Bethlehem				1_	igspace		_
Viburnum opulus var. opulus	European Cranberry (s	shrub)				$oxed{oxed}$		_
Viburnum plicatum	·	shrub)						_
Tier 4: Widespread	and abundant	WHEN !			sence		comments	
		100	NE	SE	SW	NW		# of Plants
Alliaria petiolata	Garlic Mustard				4	igspace		1: 1-10
Ligustrum vulgare	Common Privet (s	shrub)				\perp	·	2: 11-50.
L. morrowli, L. tatarica	Bush Honeysuckles (s	shrub)				igspace		3: 51-100
Phalaris arundinacea	Reed Canarygrass							4: 101-1,0
Phragmites australis (wetland)	Phragmites							5: >1,00
Polygonum cuspidatum	Japanese Knotweed							
Frangula alnus	Glossy Buckthorn (sl	hrub)						
Rosa multiflora		hrub)						
Typha angustifolia, T. x.glauca	Cattails (wetland)							\neg
· / F O	Canada thistle			1				7
Cirsium arvense	I Canada unisue							
Cirslum arvense Diosacus fullonum				1	1			┪
Cirslum arvense Dipsacus fullonum Hesperis matronalis	Common Teasel Dame's Rocket							7

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

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3	199

Project Name: Od HI dUD

Page:

Plot No.: 1004

Explai	_	mod #	1 Na	2	ω	4	U1	6	7	œ	မ	10 9
Explain subsample (additional room on back):		species	1 Nove Present	0								
room on back):		voucher#										
	% sub											
	#	shrub clumps										
	size class (cm) woody stems >1m	<u> </u>										
	(cm) woo	2 1-<2.5										
	dy stems >	3 2.5-<5										
	in	^10										
		5 10 - <15										
		∵ š 15 - <20										
		7 20 - <25										
		e 25 - <30										
		э 30 - <35								Th.		
		10 35 - <40										
		5 6 7 8 9 10 11 10 - <15 15 - <20 20 - <25 25 - <30 30 - <35 35 - <40 >40 (record each tree)	viles P P _{rif}									

Strata	Total % Cover
Tree	
Shrub	
Herbacous	

* Write None Present if no evidence:

-Beech (Fungus)

-Asian Longhomed Beetle

-Hemlock (HWA)

-Other Forest Pest or Pathogen

-Walnut (Thousand Canker)

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

Project Label: PCAP Project Name: 02 H 1 2015

PHOT NO.: 10032

(Sleveland Steinmann Page: 1 of 1

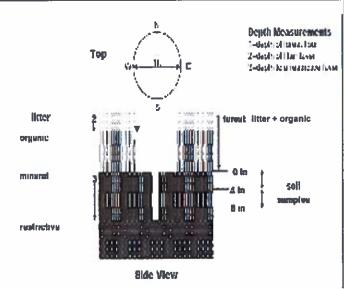
COVER BY STRATA

STRATUM	GENERAL FORM
Tree (generally >5 m)	Tree (overstory), very tall shrubs*, tiana, 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.



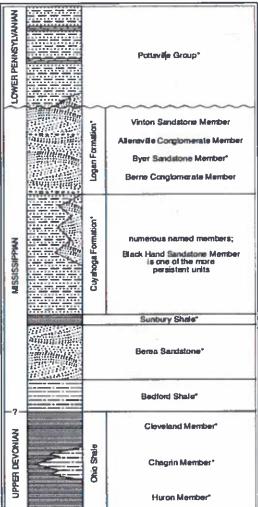


FIGURE 3-20.—Generalized section of Upper Deveman, Ministippian, and Lower Pennsylvanian formations in northeastern Ohio. Asteriaks indicate units that are feasilisticus. This composite section regressata about 400 meters of rock exposed across the area. The section is not to early, but the thicknesses indicated are proportional. The term "Waverly' is used in the older literature to refer to Missianppian rocks in Ohio. Some geologists use the European term "Carboniferous," which encompasses the Missianppian and Pennsylvanian Periods of the U.S. Many until have been named within the Cuyahoga Formation, but most units are local and cannot be traced over great distances. The Black Hand Member 19 a spectacular massive sandstone that is fairly widespread but discontinuous. See Hyde (1953), Hoover (1960), and Colina (2979) for more information on Missianppian 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: 04H205

Plot No .: 1008

Circuciand Metroparks

Page: 1 of 1

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

Soil pit module # 6 CE matrix color (one per entire plot)

est ports mortle ottle color

тавтх сою nydr cond *** mottle ottle color SMD

20 cm

edox features**

redox features** stoor bux exture, ~ z

refer to texture classes on reverse side ydro. cond.*** I S M D

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

Notes: include evidence of earthworms (worms, castings, middens)

9 Castings present a Costings présent 8) Costings prosent 3 Costings present

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

o impermeable surface 5 Somewhat poorly dr. o Well drained a Excessively dr. Depth to rest. Layer: Soil Collection Modul Horizon (A. B. C) Soil Series Source: Ohio Soil Survey ioil Series/Type andform type 3.8,9 composited arent Material eb Soll Survey Induse AINAGE+ Somewhat excessively Moderately well dr. Very poorly dr

SOIL DEPTH MEASUREMENT: Measure to the nearest

0.1 cm in center of intensive modules. If >30.5 cm,

record as >30

S ھ **3**0.5 organic depth 8 g 1 litter <u></u> (com) depth (cm) 80 81 05 25 2 litter 0 water depth 0 0 0 (CIII) 0 depth sat soil (cm) 0 0 0 0

Underlying Earth Surface* Ground Co (Sum - 19074) Percent (Each 5 190 Histosol Q Course Wo	h Surface*	Ground Cover	Debris***
Histosol	qq	Coarse Woody Debris***	Debris***
Mineral Set Gravel-Cobble*	0	Fine Woody Debris	ris***
Boulder**	0	Duff (Farm.+ Humus)	nus)
Bedrock	0	Bryophyte- Lichen	ä
• Gravel-Cubble = 1/16-10"	1/16-10"	Water	
**Boulder = > 10 m	5	Bare Soil	i y
••• >5 cm in diameter	neter	Road/Trail	
		2	

COVER BY STRATA **Strate using midpoints of 5,ex:3, 8, 13	

Strata	Height Range (m)	Total Cover (%)
ing.	5,0 >	78
Shrub	5.2	23
Herb	05	38
(Floating)*		3
America		

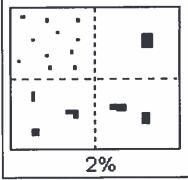
o Deer	o Gravel	(Bootleg unsanctioned	□ Hiking sanctioned	o Bridle	a All Purpose	Туре	record type and cover for each	TRAIL INFORMATION:
		10	mi			%Cover	r each	3

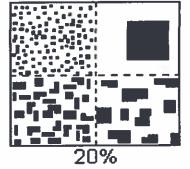
TS	STAND SIZE
	a >600 x plot size
\sim	X>100 x plot size
0 1	a 10-100 x plot size
	□ 3-10 x plot size
	□ 1-3 x plot size
0	- < plot size

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



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





Terraces

risar

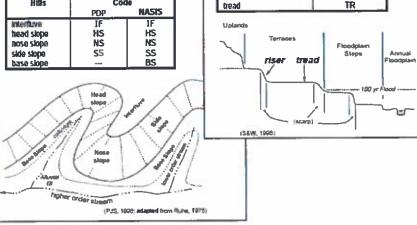
SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but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

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

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

Hitlis	Co	ktie
	POP	NASI5
intentive	IF	1F
tread slope	HS	HS
nose stope	l NS	NS
side stope	SS	SS
base slope		BS



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.

Summit	SU
shoulder	SH
backslope	BS
rootslooe	FS
toeslope	TS



HYDROLOGIC REGIME Modified from Grossman et al 1998. (Frequency and duration of flooding.)

UPLAND: Not a wetland. Very rarely flooded.

INTERMITTENTLY/SEASONALLY SATURATED: Dry at least once per year. Surface water is seldom present, but substrate is saturated to surface for extended periods during the growing season.

PERMANENTLY/SEMIPERMANENTLY SATURATED: Dry less than once per year. Surface water is seldom present, but substrate is saturated to surface for extended periods during the growing season. Equivalent to Cowardin's Saturated modifier.

OCCASIONALLY FLOODED: Surface water can be present for brief periods during growing season, but not in most years. Often characterizes flood-plain upper terraces.

TEMPORARILY FLOODED: Surface water present for brief periods during growing season, but water table usually lies well below soil surface. Often characterizes flood-plain levees and lower terraces. Equivalent to Cowardin's Temporary modifier.

INTERMITTENTLY FLOODED: Substrate is usually exposed, but surface water can be present for variable periods without detectable seasonal periodicity. Inundation is not predictable to a given season and is dependent upon highly localized rain storms. This modifier was developed for use in the arid West for water regimes of Playa lakes, intermittent streams, and dry washes but can be used in other parts of the U.S. where appropriate. This modifier can be applied to both wetland and non-wetland situations. Equivalent to Cowardin's Intermittently Flooded modifier.

SEMIPERMANENTLY FLOODED (exposed <1/e>/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.