CLEVELAND MET	ROPARKS Plant Community Asse	ssment Pro	ogram:	Quality Co	introl Form
Project Label:	РСАР	1	Plot No	1017	Date Sampled: 6/24-6/25 Lead: LINCE
3.46					Comment required if item answer is NO
Parking/Access outsid	e of Park Boundaries:	У	N	lf yes, wri	te details in Comments section below
Field journals complet	ed	(P)	N	783.2	
Site sketch made on 1	:3000 map?	$\gamma_{\rm Y}$	N		
Check cover page	X-axis Bearing of plot recorded	(YY)	N		
2012	GPS coords, Recorded	(%)	N		
	North direction recorded	<u>Q</u>	N		
	Photographs taken?	Y Y	N	54.1	
	Relocated Pins Mapped	Y) _N		
Plot No., Date agreem	ent on all pages?	(Y)	N		
Header data complete	d all pages?	<u> (V)</u>	N		
Cover classes recorded	in all Intensive modules	Y	N		
Browse Level By Spec	cies	T TY	N		960 (4-100%)
Woody stem quality co	ontrol check	Y	N	Check eve	ry line and cross check with the Tree Cover Sheet
Invasive plant quality	control check	Y	N	NA	
Ash trees mapped	6	Y	N	NIA	
Completed Forest Pes	/Pathogen Datasheet		N		
Cover by Strata? (cont	firm cover type)	M	N		
Soil samples collected	with matching plot #.		N		
Cross check 2010 info	rmation	(Y)	N	Highlight	any changes from 2010 information
Vouchers labeled on d	atasheet with initials and number	$\perp \Omega$	N		55
Vouchers labeled on c	ollection bag	1 (3)	N		
Pink flags removed	········	T	N		30.000
Data sheet QA before	leaving site?	T T	N		
Common equipment r	eturned to tub.	(Y)	N	1	11.100
Data sheets scanned?		105	<u> 6/2</u>	Enter date	to left
Final data sheets scan	ned?			Enter date	to left
Buffer Widths measur	ed?	Y	N		
Web Soil Survey	T	 ~	N		
Voucher Location	Refrigerator	_ \ <u>\</u>	N		
(# vouchers collected)	Press (#)	+		Enter num	ber to left
ACL	Drier	Y	N		
ACL 327-325	Identified	Y	N		
321 10	Mounted	Y	N		
L	Thrown away	Y	N		

Yes	Original GRTS point is sampleable	
□ No	Original GRTS point lands in a non-sampleable area (fill in category below)	
	Point falls in a water (i.e. river, lake)	
	Managed mowed area (i.e. golf course, pienic area, right-of-way)	
	□ Paved area (i.e. parkinglot, road)	
	☐ Unsafe to sample (i.e. steep slope)	
	Other 3	

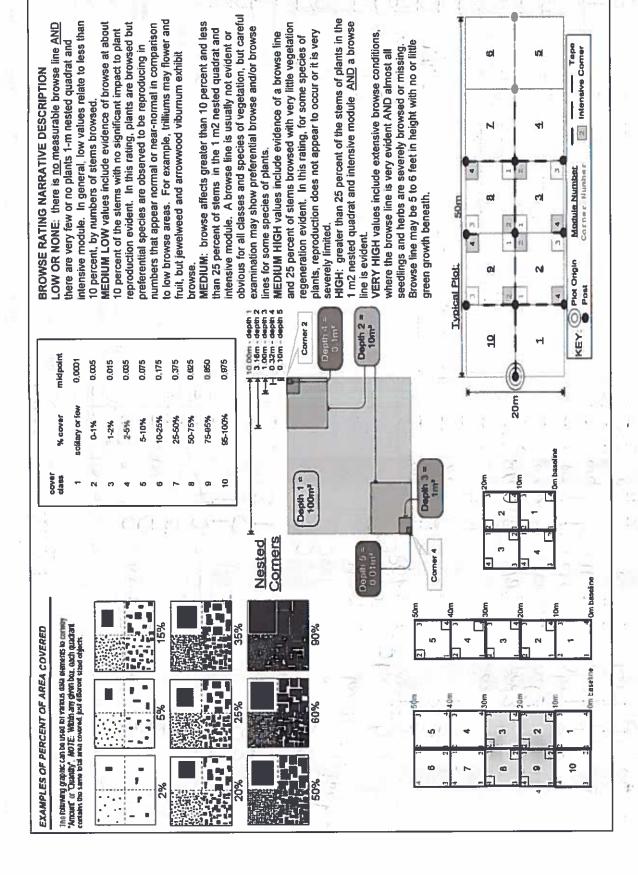
2615 Collect Sam's Sols

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CLEVELAND METROPARKS Plant Cor	CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	Data Sheet Pclurulum Meinum tu	
GENERAL INFORMATION	LOCATION	PARILLAY	
Project Label: PCAP	State: OH County: LAKE	Soc	
Project Name: OUNCADIS	Quadrangle:	*Canopy Gap * mod 2	
Plot of Two Trails	Sunset Lane Butternilk Pkun	Lungarior Carron St. Land Land Land Land Land Land Land Land	
5	Landowner: CMP	#10	入
Level 4 (no nested corners sampled)	dentiality:		£00
	Check one: Ortubic data or Private Data	W1 H3	N
	Reason:	4 3 4 3	
Party Role**	If data not public why?	Diagram Plot origin SepS location — photo taken, location of with direction permanent posts	
A- Lance Plot leader	OWAP GPS	NOTES: Include Layout (any unusual shape tetails), Location (directions and landscape sontent), Rationale (why here), and Veg Characterization (description of community,	U
S. Eysenbach Bot.	Coordinate system: Coord. Units	dominants, strata, BROWSE). Additional notes in space on back.	,0 ⁵
M. Geithey Bot. Hast.	LavLong o UTM o StatePlane deg o deg min	Layout > 2×5	47
	AD83/WGS84	Location > Plat is approx 30	
** Roles: Co-leader, Asst., Geide, Owner, Taxonomist, etc.	S location in plot x=0 to 5, y=1,0,+1):		
AMPLED:	AL SOURCE POOR COS OF		
	9	The directly Through the plot.	
Effort Level: subjective evaluation of	uracy: pm of 1.3 +-	Kutionale > GRTS; PCAP re-sample	
Very thorough how much effort put into sampling. Hurried plots	GPS File Name: 1017A		
Accurate may still provide good	(hectares)	veg. maractersines) campy is	
TAXONOMIC ACCURACY		diverse, with red oak, red maple,	
high modera. low not smpl	dules: 2, 3, 8, 9 (EDIT IF MODI	sugar maple, beech, and hemlock	
vascul. n/a		all present. Lots of sharbark	
lichen	Plot placement: o'GRT'S a Representative	hickory as well. The planted pines	
TAXONOMIC STANDARD	ed Random Transect component	are near the end of their life and to	
Authority: G&C Pub Date: 1998	Systematic (grid) Capture specific feature Other		
Minimum required fields in Bold and Underlined	*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide	CVS Field Guide OVER	
	* Beech	disease noted on showh layer trees approx.	
	೩0 ,	m with on the foot trast through plat	
1aCM PCAP Background Data Sheet Page 1_ver 3.0.xls last revised 5/29/2012 ceh		Natural Resources Mangement FORM NR/2010-01a	

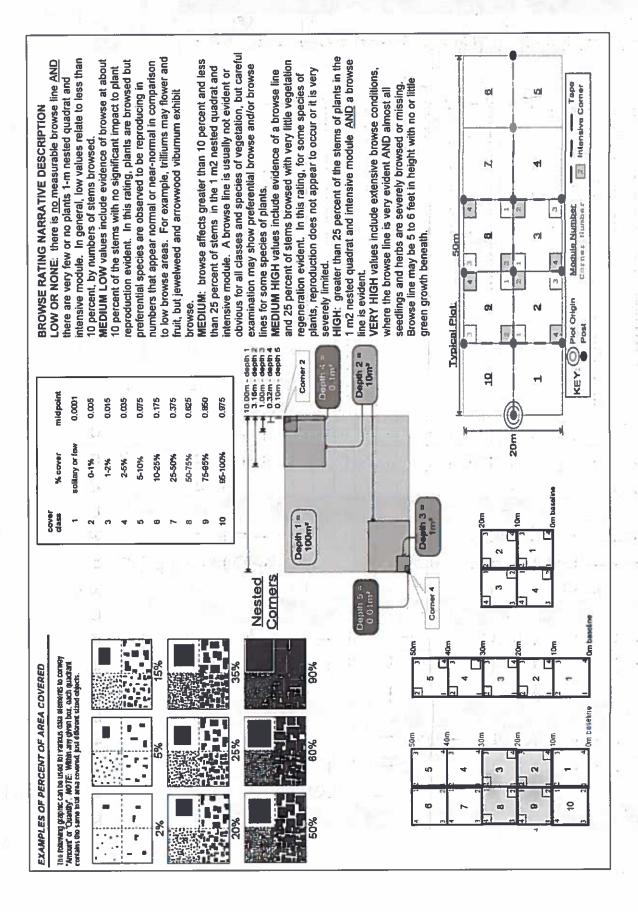
Project Label: PCAP Project Name: OZNC 3.0	PCAP	\$	2100				C 6	
		Projec	Project Name: Oct N. O. O. S.	3015	P	Plot No.: 101 (2.5	Page 2 of 2
MODIFIED NATURESERVE CLASS*	900	,	DISTUR	DISTURBANCES				
CODE (on separate, form):	Fit= Conf=	h	type	severity**	yrs ago %	% of plot	description	
			-				trails	
	3		Natural	W		1 54	planted pine	10 die-back
COMMUNITY NAME:		12	Fire	17				
\			Cut		4			
Mixed tonest		, - , - , -	Animal	ヹ	0 10	100%	bawse	
HOMOGENEITY			**1.=10w.	/I ⇒med low	M=med Mi	-I=med hip	**! = low M = med low M=med high H=high VH=very high	ery high
	Compositional trend across the plot		Current Land Use:	and Use:	PARK - RECREATION	SEC EF	ATION!	
nclusions	n mosaic		Former Land Use:		LANCHORAL	1417		1
	HYDROLOGIC REGIME*	GIME*						
	Choland (seldom flooded)		□ Intermittently flooded	poped				
SALINITY*	□ Intermittently/seasonally saturated	/ saturated	□ Semipermanently flooded	flooded				
D Saltwater	(seldom flooded)		□ Permanently flooded	led				
D Brackish	□ Permanently/Semipermanent. saturated	ment. saturated	□ Tidal/Seiche flooded daily	led daily				
o Fresh	(dry <1/yr, seldom flooded)	(pa)	□ Tidal/Seiche flooded monthly	led monthly				
q Opland (n/a)	□ Occasionally flooded (<1/yr)	1/yr)	□ Tidal/Seiche flooded irregular	led irregular				
	Temporarily flooded		(e.g. wind, storms)	2)	ř			
(by default unless plot is a wetland)			□ Unknown					
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)	ess of plot to the stand, succe	ssional status, mat	urity, etc.)	e s				
and in the process	OF deging	back, 1	Lots of	houng	heec	7	1 hem	1
present in the should lauger. Space herb layer with lots of species	ub layer.	Space	herb lay) a	エエ	10ts	of spec	125
introduced at the	trails edge.	s, A 11c	e moss	mat e	ncon	25.00	es the	stole
line of mods 8, 0	9.10	- 50	1		10 ¹³		25	X V
Large canopy gap FA mo	8	This an	2. This area is also very wet.	so Ver	ref.	,	2	
					200			

Cleveland Metroparks **CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet** Strata - Cov. entire plot Project Label: Total modules: ഗ | H |(F)|(A)|Br Smilax cotundifilia Hster Parthenocussus Trigus grandifolia Veronica geum canadense runella undgans QUERCUS SP. Colyaphian loxicodendron describe amount of browse per species over MHS Sp. Prunus scrottina Jaxhaus pensulvantes oraxicum persia virginica leranica secestilistalia Br = Browse Level. Use cover classes to 11055 olidiano Caesta moutiens capensis Ibumum aceritolium hamous tranada MINS 50 0 aterithorus UCCHORIAN officianalis Species entire plot PCAP Officinale persicaria radicans an value to ဂ Intensive modules: 4 %unveg. ground (bare soil) intensive module: %unvegetated open water Estimate for each %unveg. litter (bare litter Project name: OaNC2015 Voucher # %open water دو 0 _ Plot configuration: mod ş Plot no.: 1017 Q 8 ş под 00 Q b) + 6 mod œ Plot area (ha): ğ ş Page ____ of 9 5 Q 0 ş ğ depen



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Plantago Sp.	Podophyllium peltatum	Ranunculus aclogation	Hilla sin		Kunex obtustaliaus	Viburaum opulus	Faxious Sp.	Quercus ribra	fra Ostrud virginiana	R	4	Kinkenown Sp. 7 (Brassicace of	Polygonian Wegintanum	Matanhemum rocemosum	Illia amen cana	Scirous sy atrovidens	Hasaema triphyllum	2 Unikdi	Oxalis stricto	b	Acer rubrum	Poa alsodes	Asterace	r Species		einia bior	describe amount of browse per species over	Br = Browse Level. Use cover classes to			10	PCAP	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet
		500-1VWS		X ACL328	SRF 11-19-15								7			XACL337	Sex 12-10-15	ot						dept)	%unveg. litter (bare litter)	%unveg. ground (bare soil)	%open water	depth	2	med co	Intensive modules: 平		nent Program Species Cov
	ر رود		92		2.	رو	ر پ	S)	0	<u>ي</u>	2		2	حور		- Q.	دود	3	2	رم د	5	10 10 10 10 10 10 10 10 10 10 10 10 10 1		cay depth cay depth cay depth				cov i depth, cov depth, cov i depth	204	er mod comer mod comer and	Plot configuration:	E	
						22	2		2) 3)		7		9.	<u>9</u> :			9.2					ω Ω		th cov depth cov depth cov	1			th cov depth cov depth cov	N N N	somer mod	Plot	<u>'</u>	
S S S							(X)		<u>シ</u>				2				23	17 95 3				(3) (2)		depth cov depth cov depth				depth cov depth cov depth	2 4 4 6	imod comer mod c	Plot area (ha):		Page of 5



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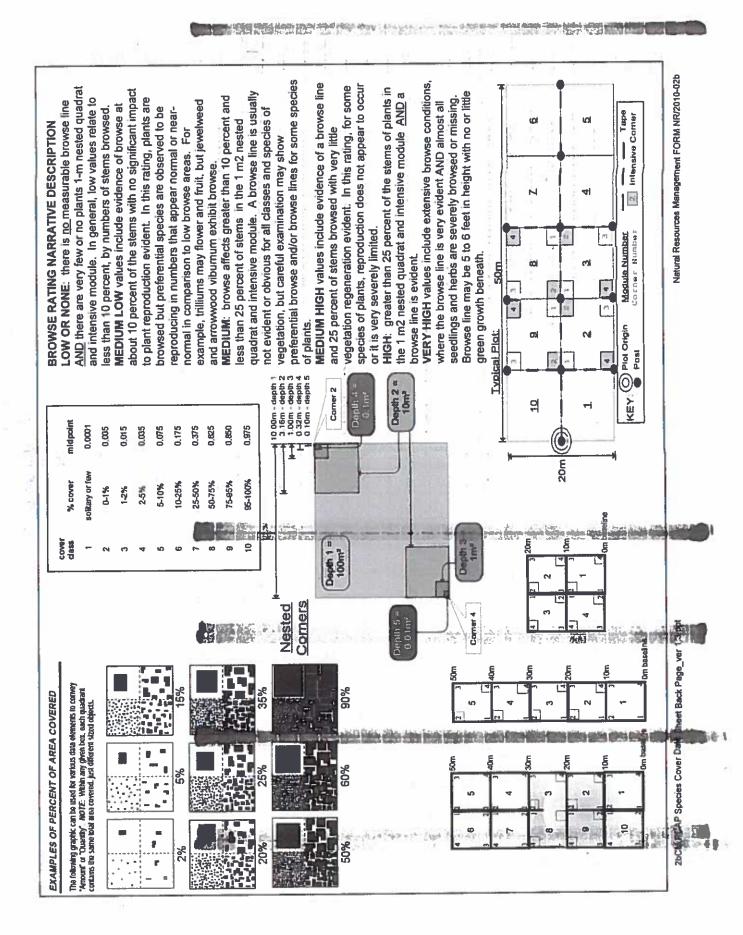
2aCM PCAP Species Cover Data sheet Page 1 of x_ver 3.xls last revised 5/29/2012 ceh

Natural Resource

nagement FORM NRV2

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Metroparks CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a Strata - Cov. entire plot Total modules: Project Label: Ś | H (F)(A)|Br Circaea Rosa multitlova renonthes Bidens spr threlanchier traxinus americana arya ovovia Sylvania oponazira ALCO WILLIAM WILL Indera benzoia cataegous sp Heer Sp. Althown sp. 2 describe amount of browse per species over arex Swan! anthonia micrown dicot lation themum conadense munnand iknown alrest 3 Housto Br = Browse Level. Use cover classes to 0 RICHS interforma Species entire plot canadonsis Splicata destation S Vada 5 ი Intensive modules: %unveg. ground (bare soil) %unvegetated open water Estimate for each intensive module: ACL %unveg. litter (bare litter) SRE17-10-15 Project name: Odnicaois Voucher # 329 %open water cav depth 20 cov depth שות Plot configuration: 2 × 5 9 9 ADO 8 Plot no .: 1017 700 9 Pott S) E) Ago ş depth DOG Plot area (ha): ğ ş Page 3 of × 8 9 cay depth depth 8 94 depth Deg# mod Z) ş 8



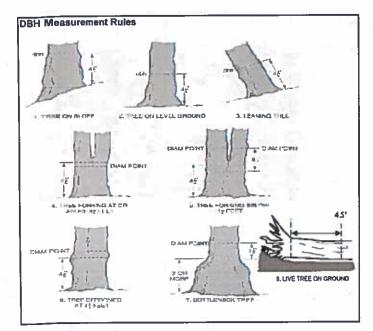
CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Strata - Cov. entire plot % COVER Project Label: б 막 Heer sacchown thunus secotina Sueccus rubra TOXIOUS OMENICANA Strauticinions Aceir rubrum lows diala lognolla acuminata arya cilata sugh canadensis Species PCAP n species (X) 2 3 Project name: OZNC2015 Plot no.: 1017 Voucher# Page

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t Plot no.:	~ C			П												,				
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nt Program Tre Project name:	Prensence of tree mod mod species (X)	Voucher #			:			,	W					:	:					
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Community Asset		ies																		
CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Project Label; Project Label:	lot	Species											!							
CLEVELAND MI Project Label:	% COVER Strata - Cov. entire plot	Ē																		
CLEVI	% COVER Strata - Cov. 6	1-																		

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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 3 Smilex refundablik 4 Smilax cotundibilion 1 Fraxinus & seeding Vibutnum accidetium Strains det 9051C25 10518-Au Inbrum Primus seloting Vitio >p. the southours Flaxinus Sp. Explain subsample (additional room on back): Cory or over Wind was a principle Acce subrum Gay or overto Frankus pransy luanica Maynotion acuminate Queens (vbr-Standing dead Rell Salcharum frainus sp. seedling Cay or OVATO Fogus grandistino south frum Project Label: voucher# 0-1.4m 3 or super % sub Project Name: 12 NC 2015 clumps size class (cm) woody stems >1.4m 0-<1 1-<2.5 2.5-<5 Plot No .: 1017 5-<10 10-<15 15 - < 20 20 - <25 Page: 30 - <35 익 Gieveland Metroparks ö いっつん 1-05 >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

, 10













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.
- 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.



B

C

D

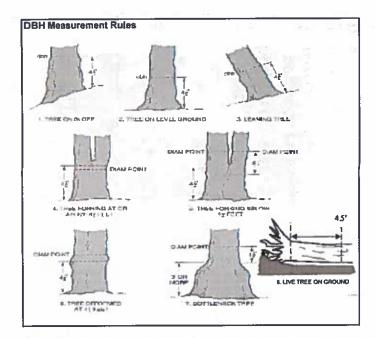
E

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).
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- 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 M Explain subsa		nylod #	F03 53	& Linsura			Section 1	100000	THE REAL PROPERTY.	200															
CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Project Label: PCAP Project Name: 610,528,555 Plot No.: Explain subsample (additional room on back):		species	grand Holis	benzin	to be seening								brum brum brum brum brum brum sr. seeding rotundidoli a		securitation securitation securitation securitation securitation	Viburnum accritorim Cratocsus sp. Ruer rubrum Auer sp. secoling Dinus nigra Pinus nigra Pinus rotunditolia Sprilax rotunditolia Sprilax rotunditolia Auer sacconsum	brum brum brum brum sp. seesing rotunditalion brum brum	Viburnum accritorium Cratocsus sp. Ruce rubeum Ruce souchuseum Quescus rubeum Prinus nigra Francus sp. seesting Smilax rotunditalisa Francus saccnarium Ruce subrum Francus seesting Prinus seesting	Crato-esus sp. Crato-esus sp. Ruer rubeum Puer sp. spechusum Quercus rubro- Prims nigra Francus rotunditolio- Puer spechus Puer spechu	secutions secution secut	Viburnum aceritation Cratacsus sp. Ruce rubeum Ruce sachu-ruan Auer cus rubra- Prims nigra- Prims rotunditolia- Prims arantitolia- Prims secotion- Prim	sus sp. being being sp. seesing sp. seesing sp. seesing sp. seesing chief sp. chief sp. chief sp. chief sp. chief sp.	chustions chustions chustions chustions charten char	acecitations s sp. chu-rum cubio- cubio-	chu-sum chu
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nent Prog	% sub							Constant Constant																	
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nt Program Natural Woody S Project Name: 0205 8055	size class (cm) woody stems > 1.4m	0-<1 1-							•																
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1 Data Si)ms >1.4m	3 3-4														•	•	•	•						
ta Sheet Plot No.: 1017		s 10 10-<15																							
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o. •		9 30-<35						**	The second second		•														
Gierreia		10 35 - <40																							
Cleveland Metropaiks	2	11 >40 (record each tr								16.9h															



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

7













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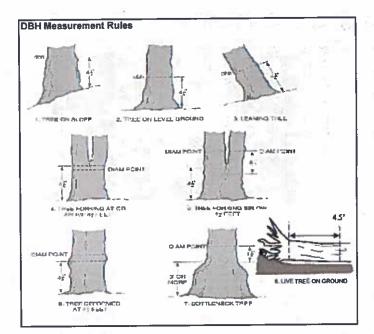
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BEO-OTOS/AV

Natural Res

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Act sp. seedling Smiles whiching gnericus (uba-Smiles to to As Holie Standing dead Movement Ce atours sp. # Fraxinus 50, seeding -ugas sossay Plunus seconing ALLI SALCHAIN Frazins Sp. Sedica Buse consdensis Acr southern Standing dead Fagus grandidation Explain subsample (additional room on back) Pinus nigra-Ostrya virginiona Fratinus sp. seedling to-125 glandifolia Fagus Arnabiblia laya ovata Toxicodendron locicans large ovate ALL SALL HAINM Project Label: voucher# 0-1.4m 2 W or super % sub Project Name: 02 NC2015 size class (cm) woody stems >1.4m 2 1-<2.5 2.5-<5 Plot No .: 1017 5-<10 . 10 - <15 15 - <20 20 - <25 Page: 3 30 - <35 (D) Gieveland Metroparks 35 - <40 5 ¥ 65.3 なべ >40 (record each tree) -



Woody Stem Deer Browse

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Record using the tally system from 1 to













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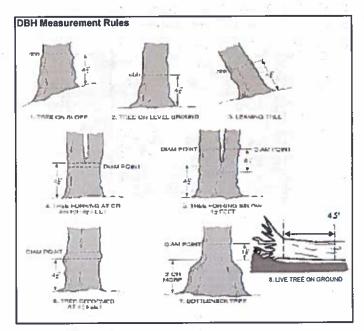
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Most andicus (ubra-110 Staveing Leas CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 10 Backers Cobir Frommus sp. seeding Acer rubrum Togus grandistolio Acel Socchasum Carra overta-Explain subsample (additional room on back): Cratocous Sp. Tsugo-conodensis that sacharinon Standing dead Frazinus sp. seedling Pinus night Project Label: voucher# # stems 0-1.4m or super % sub Project Name: 02NC2015 shrub size class (cm) woody stems > 1.4m Q-<1 1-<2.5 2.5-65 Plot No .: 1017 5~10 10 - <15 15 - < 20 20 - <25 Page: 25 - < 30 30 - <35 Ocieveland Metroparks × 35 - <40 ö 9.2h >40 (record each tree)



Woody Stem Deer Browse

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Tier 1: Early	/ detection/	Rapid response			Pre	sence	Comp.	GPS	
	185 Mas =			NE	SE	SW	NW		Presence
Microstegium vimineum		Japanese stiltgrass							X: yes
Ranunculus ficaria		Lesser Celandine							
Cynanchum Iouiseae	(vine)	Black Swallow-wort							
Butomus umbellatus	(wetland)	Flowering Rush							
Heracleum mantegazzianu		Giant Hogweed	(6)						
	2: Assess as				# of	Plants		comments	
			7.00	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 Honeysuckl	е						3: 51-100
ythrum salicaria	(wetland)	Purple Loosestrife							4: 101-1,00
Aegopodium podagraria		Bishop's Goutweed							5: >1,000
Celastrus orbiculatus	(vine)	Asian Bittersweet							
Torilis sp.		Hedgeparsley							h .
Conium maculatum		Poison Hemlock							
Rhamnus cathartica		Common Buckthorn	(shrub)						
Berberis thunbergii		Japanese Barberry	(shrub)						
Alnus glutinosa		European Alder							
Dipsacus laciniatus		Cut-leaf Teasel							
laeagnus umbellata		Autumn Olive	(shrub)		-				
onicera maackii		Amur Honeysuckie	(shrub)				L		
Euonymus fortunei		Wintercreeper							
	Presence is	of Interest		Maria.	# of	Plants		comments	
				NE	SE	SW	NW		# of Plants
Convallaria majalis	(G-cover)	Lily of the Valley							1: 1-10
Coronilla varia	(G-cover)	Crown Vetch							2: 11-50.
leutherococcus pentaphy	llus	Five-leaf Aralia	(shrub)						3: 51-100
Pachysandra terminalis	(G-cover)	Japanese Pachysandr	a						4: 101-1,00
hiladelphus coronarius		Mock Orange	(shrub)						5: >1,000
Pulmonaria officinalis	(G-cover)	Lungwort							
Rubus phoenicolasius		Wineberry							_
ris pseudacorus	(wetland)	Yellow Flag Iris							
Ornithogalum umbellatum		Star of Bethlehem							
Viburnum opulus var. opu	us	European Cranberry	(shrub)						
Viburnum plicatum	Figs	Doublefile Viburnum	(shrub)						_
Tier 4: W	/idespread :	and abundant		S.		sence		comments	
	COLUMN TO SERVICE			NE	SE	SW	NW		# of Plants
Alliaria petiolata	71	Garlic Mustard		<u> </u>	-	_			1: 1-10
and the second s		Common Privet	(shrub)	_	╄	+			2: 11-50.
		Bush Honeysuckles	(shrub)	1	1				3: 51-100
				1		1	1[_		4: 101-1,00
. morrowii, L. tatarica Phalaris arundinacea		Reed Canarygrass		-	_	+			
L. morrowii, L. tatarica Phalaris arundinacea	(wetland)	Phragmites							5: >1,000
morrowii, L. tatarica Phalaris arundinacea Phragmites australis	(wetland)								5: >1,000
L. morrowii, L. tatarica Phalaris arundinacea Phragmites australis Polygonum cuspidatum Frangula alnus	(wetland)	Phragmites Japanese Knotweed Glossy Buckthorn	(shrub)						5: >1,000
L. morrowii, L. tatarica Phalaris arundinacea Phragmites australis Polygonum cuspidatum Frangula alnus	(wetland)	Phragmites Japanese Knotweed	(shrub)	1					5: >1,000
L. morrowii, L. tatarica Phalaris arundinacea Phragmites australis Polygonum cuspidatum Frangula alnus Rosa multiflora		Phragmites Japanese Knotweed Glossy Buckthorn	(shrub)						5: >1,000
Ligustrum vulgare L. morrowii, L. tatarica Phalaris arundinacea Phragmites australis Polygonum cuspidatum Frangula alnus Rosa multiflora Typha angustifolia, T. x.gla Cirsium arvense		Phragmites Japanese Knotweed Glossy Buckthorn Multiflora Rose	(shrub)	-					5: >1,000
L. morrowii, L. tatarica Phalaris arundinacea Phragmites australis Polygonum cuspidatum Frangula alnus Rosa multiflora Typha angustifolia, T. x.gla		Phragmites Japanese Knotweed Glossy Buckthorn Multiflora Rose Cattails (wetland)	(shrub)						5: >1,000
L. morrowii, L. tatarica Phalaris arundinacea Phragmites australis Polygonum cuspidatum Frangula alnus Rosa multiflora Typha angustifolia, T. x.gla Cirsium arvense		Phragmites Japanese Knotweed Glossy Buckthorn Multiflora Rose Cattails (wetland) Canada thistle	(shrub)						5: >1,000

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

(G-cover) Periwinkle

Vinca minor

Iro I	- 144	_		10	9	œ	7	O	ĊЛ	4	ယ	2		mod #		CF# 75
Shrub	Strata Tree													species	Explain subsample (additional room on back):	Project Label: PCAP Project Name: ORNCAOIS Plot No.: 1017
	Cover	Total %												voucher#	on back):	PCAP
		SONE	di di											% sub or super sample		\P
			,											# shrub clumps	Ш	Projec
ı	* Write None Present if no evidence: -Beech (Fungus) -Asia	PRESENT												size class (cm) woody stems >1m 2 3 0-<1 1-<2.5 2.5-<5 5-		Project Name: ORNC 2015
-Hemlock (HWA)	None Present if r Beech (Fungus)	Z								100				cm) woody 1-<2.5		DANC:
(AWH)	ent if no ungus)		Ш				4,,,,	San Agranda						y stems >1		2015
L	evider		И											â *		P
Other F	Asian L							g	1					5 10 - <15		Plot No.:
-Other Forest Pest or Pathogen	-Asian Longhorned Beetle											Ä		6 15 - <20		1017
st or Pa	ed Beet		1									, i		7 20 - <25		
thogen	ē		· ·											8 25 - <30		Page:
														9 30 - <35		-
			6							4.132.04		ar 200 an		10 35 - <40		Of
			*										9	10 11 35 - <40 P40 (record each tree		Of A

Fictures C3 093, 094 document this. *

Herbacous

-Walnut (Thousand Canker)

STANDING BIOMASS (required for emergent wettands) collected in 0.1m clip plots (32x32 cm) from comers 1 and 3 in each intensive module. Required for VIBI-E score calculation. C7=check when NOTE: base 10 feature is present in moderate or greater amounts and of highest quality MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only SaCM PCAP from Cover, Earth Surface Data was itope 1 = slight elevational grade across module (NII) while for microhabilat features. Selections or selections and everage the score.NOTE: If mod falls on a slope automatically gets ranked besed on steepness (1-3) to begin hery features present feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality feature is present in the wettend in very small amounts or if more common, of low quality leature is obsert or functionally absent from the wetland 00 k and hummocks es counted in BOTH nested quadrat com tussocks depth 3 no of (count) mix S σ 0 plands (Tip-Ups) 3,16x3 16m humanocks depth 2 (count) no. of 0 O O tout counts are appregated. Slope 2 = lats on slope ~20* depressions no. macro. l0x10m depth I o SHRUB o shrub swamp to tall sh fen o FOREST o swamp forest o bog forest o forest seep o EMERGENT o marsh o wet meadow o open bog O IMPOUNDMENT O Beaver o Human a COASTAL (specify subclass) SLOPE (ground water by drology or on a physical slop) CLASSIFICATION Hydrogeomerphic class (WETLANDS ONLY): 16/13 Mie EPA VIBI Plant Community Class (WETLANDS ONLY): FIT - excellent, p Fit and Confidence FRINGING a Reservoir a Natural Lake RUVERUNE o Headwater o Mainstern o Channel BOG (strongly, moderately, weekly ombrotrophic) (2-12 cm) 10x10m depth 1 c.w.d 7 6 0 c.w.d. - count for preces with minimum 1m length 2,00 Stope 3 = maximum steepness that can be safely sampled ~45* (12-40cm) 10x 10m depth (V (count C.W. d 0 0 O D 7.0 depth 1 y¥0m Car d 103101 0 a Q. 100 1 Fit Figure 7 intersperi micronab. 10x10m depth I 5 7 Conf. Conf= Conf Conf Conf. Conf. Conf-Conf Conf= 34018 10210m microhab. ** Terraid Shape Index (sile microlopographic shape) Landform Index (position within landscape)

McNAB INDICES (degrees) + for up - for down

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

Project Name: 02 NC2015

Plot No.: 1017

@ Glavel on a States party Page: 1 of 1

Project Label:

PCAP

FILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD]

	00-		0.57	2000	ŀ			
+315 degrees	+270 degrees	+225 degrees	+ 180 degrees	+135 degrees	+90 degrees	+45 degraes	At aspect	
WW	¥	WS	s	SE	г	Ä	Z	
								LFI
								ISI
	away	standing - 10 m	recorders cyc to	TSI measure	angles formed by	horizon. TSI is	LFI is angle of	

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

12	00	W	2	9	98	Lus	2	Medule
10,0	0,0	2_2	12,48	0	0	6	15	2
25,14	25	11,7	111	2	1	-		s
1.1	<u>*</u>	77	76	- 1	1	6	2	E.
1-1	919	7.2	1010	_	O	7	17	*

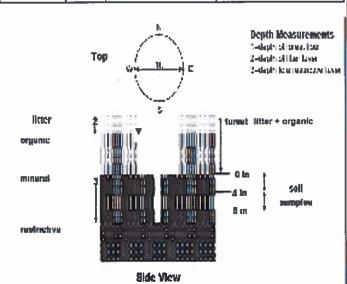
	STR	

OUTER DI GIRATA				
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.



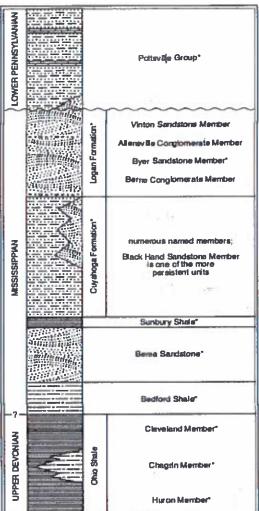


FIGURE 3-20.—Generalized section of Upper Devonian Ministryaun, and Lower Pennsylvanian formations in aucthorators Ohio Asteriaks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to each, but the thischesses indicated are proportional. The term "Waverly" is used in the older literature in refer to Ministrypian rocks in Ohio. Some geologists use the European nerm "Carboniferous," which encompasses the Missingpian and Pennsylvanian Periods of the U.S. Many until have been samed within the Cuyahoga Formation, but most units are local and cannot be traced over great distances. The Black Hand Member is a spectacular massive sandstone that is fairly widespread but discontinuous See Hyde (1953), Hoover (1960), and Collins (1979) for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of rock types.

Plot No .: 1017

(Cacresand Methoparks

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 # E 6 matrix color (one per entire plot)

lextrac. oxid roots edox features** orule color

20 cm matrix color execut person mottle rue color

edox features**

refer to texture classes on reverse side

S

M D

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

COVER BY STRATA

×

estimate using midpoints of 5,ex:3, 8, 13

ecord as >30

organic depe

water depth 9 0

> depth sat soil (cm)

1 lutter+ 9

** c.g. hydrogen stilfide odor, gleying, etc.

Votes: include evidence of earthworms (worms, ndundated S-saturated M-moist D-dry

astings, middens)

3 - wolms present 4 - Castings gresond - Warms prema-- worms present

500

0 0

0

ر ان

0.3 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

TRAIL INFORMATION:

cord type and cover for each

%Cover

□ Impermeable surface o Well drained a Excessively dr. Depth to rest. Layer: Soil Series Source: Ohio Soil Survey Soil Collection Modul Herizen (A. B. C) oil Series/Type: Somewhat poorty dr. 3.8.9 composited andform type: rest Material. ob Sail Survey Infair RAINAGE* a Somewhat excessively in Moderately well dr. Very poorly dr

ydr. cond ***

co

MD

(Sum - 100%) Histosol	percent	(Each ≤ 100%) Coarse Woody Debris***
Mineral Soil	65%	Fine Woody Debris****
Gravel-Cobble*	25%	Later Duff (Ferm. + Humus)
Bedrock	1	Bryephyte- Lichen
• Gravel-Cobble = 1/16-10	1/16-10"	Water
**Boulder = > 10 in	S	Bare Soil
*** >5 cm in diameter	icter	Road/Trail
•••• <5 cm in diameter		Other

Gravel

Deer

Bootleg unsanctioned

Tiking sanctioned

07,

A Purpor

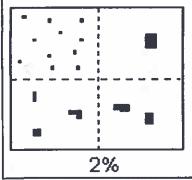
	_				10.2			22
SEE BACK O	** submersed	* rooted and s	(Aquatic)*	(Floating)*	Herb	Shrub	Tree	Strata
SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE	"submersed, most plant mass below surface	rooted and foating or slightly emersed			0	\$5.35	<u>.</u>	Height Range (m)
RY BY COVER TYPE	w surface	8 8			33%	38%	83%	Total Cower (%)

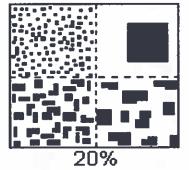
	a < plot size	n 1-3 x plot size	10 x plot size	a 10-100 x plot size	a > 100 x plot size	a >600 x plot size	STAND SIZE	
_						-		-

6aCM PCAP Soils_Crown cover_Landform_Standing Biomass_Data Sheet_ver 3.xls last revised 6/4/2012 ceh



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





SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but excess water does not freely flow from the sample when squeezed. Attempt to roll the sample into a ball. If the soil will not stay in a ball and has a grainy texture, the texture is either sandy or coarse sandy. If the soil does form a ball, squeeze the sample between your fingers and attempt to form a self-supporting ribbon. Samples which form both a ball and a ribbon should be coded as clayey; samples which form a ball but not a ribbon should be coded as loamy.

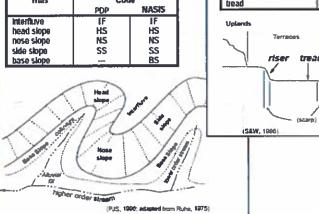
- 0= Organic
- 1= Loamy
- 2= Clayey
- 3= Sandy
- 4= Coarse Sand
- 9= Not measured make plot note

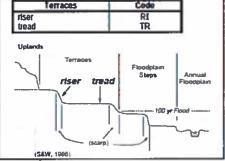
Position

shoulder

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

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





Hitislope - Profile Position (Hitislope Position in PDP) - Twodimensional descriptors of parts of line segments (i.e., slope position) along a transect that runs up and down the slope; e.g., backslope or BS. This is best applied to transects or points, not areas.

Code

backslope footslope toeslope	BS FS TS		
Su Sh Bs	F8 78 55 57 78 1 1 1 1 1 1 1	Sh H	Su +

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.