Project Label:	PCAP	Plot N	No: 1070 Date Sampled: 6-16+6-17 Lead: CK
	2.000		Comment required if item answer is NO
Parking/Access outsid	le of Park Boundaries:	Y (N)	If yes, write details in Comments section below
Field journals comple	ted	Y N	
Site sketch made on 1	:3000 map?	(Y) N	
Check cover page	X-axis Bearing of plot recorded	₩ N	
	GPS coords. Recorded	Y N	
	North direction recorded	(y) N	
	Photographs taken?	Y N	
His arvenue	Relocated Pins Mapped	Ŵ N	
Plot No., Date agreen	ent on all pages?	Y N	
Header data complete	d all pages?	Y N	
Cover classes recorde	d in all Intensive modules	N CY	
Browse Level By Spe	cies	Y/N	
Woody stem quality of		(y) N	Check every line and cross check with the Tree Cover She
Invasive plant quality	control check	YN	MA
Ash trees mapped		Y N	
Completed Forest Pes	t/Pathogen Datasheet	Y N	NA
Cover by Strata? (con		V N	
	with matching plot #.	Y N	
Cross check 2010 info		(Y) N	Highlight any changes from 2010 information
Vouchers labeled on	datasheet with initials and number	Y N	
Vouchers labeled on	collection bag	Y N	
Pink flags removed		Y N	
Data sheet QA before	leaving site?	Y N	
Common equipment:		Y N	
Data sheets scanned?			Enter date to left
Final data sheets scar	ned?		Enter date to left
Buffer Widths measu		Y N	
Web Soil Survey		Y N	
Voucher Location	Refrigerator	Y N	
(# vouchers collected)	Press (#)		Enter number to left
CKM 014-033		Y N	
	Identified	Y N	
	Mounted	Y N	
	Thrown away	Y N	
	Timowa away		
GRTS point verifica	ition: Is plot sampleable?		
□ Yes	Original GRTS point is sampleable		
\ a No	Original GRTS point lands in a non-	sampleable area	a (fill in category below)
	D Point falls in a water (i.e. river,		
	☐ Managed mowed area (i.e. golf	course, picnic area,	, right-of-way)
	Paved area (i.e. parkinglot, road)	٠,	
	 Unsafe to sample (i.e. steep slop Other 	c)	
4.000	its:		



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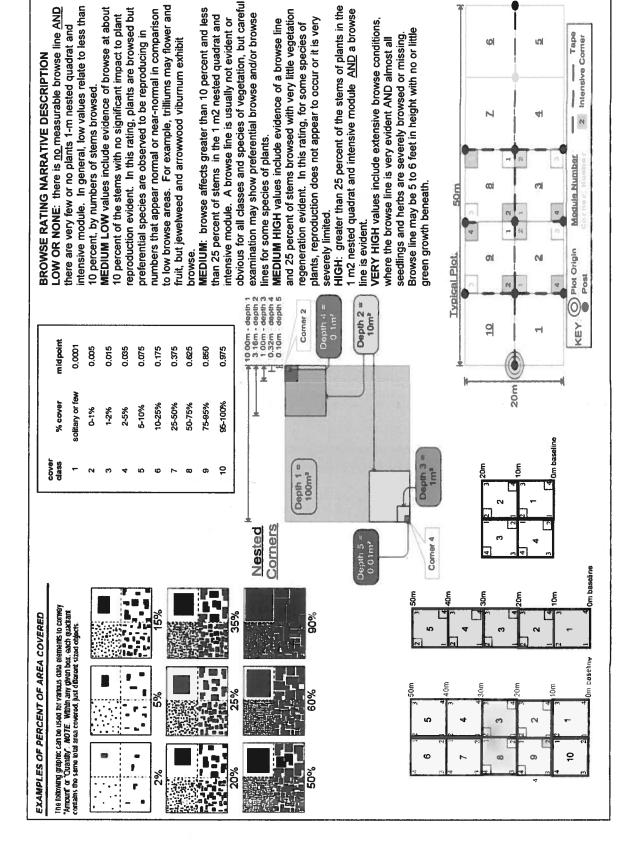
CLEVELAND METROPAKKS Plant Community Assessment Program - Background Data Sneet PCAP Project Name: $O2MC$ 20	munity Assessment Pro	gram - Backę Project D	- Background Data Sneet Project Name: $OZWC$ 2015	2 2015	Plot 1	Plot No.: 1072	Page 2 of	Page 2 of 2	
MODIFIED NATURESERVE CLASS*			DISTU	DISTURBANCES					
CODE (on senarate form)	Fit= Conf=		type*	severity**	vrs ago % of plot	lot description			
			Human		5 10	Shelter	"Shuc Han	Southorp	plot
NTA			Natural		•		1 1		
COMMUNITY NAME:			Fire						
Atopical Successional			Cnt		\dashv	-			
Red Maple Woodland			Animal	I N S	2 -	Deer bra	Drawse Road		
HOMOGENEITY			**L=low,	ML-med low,	M=med, MH=	-5	VH-very high		
	Compositional trend across the plot		Current	Current Land Use: Par	y K				
nclusions	mosaic		Former 1	Former Land Use: 3	1	Archery Range			
	HYDROLOGIC REGIME*	ME*				1			
	□ Upland (seldom flooded)		☐ Intermittently flooded	oded					
SALINITY*	☐ Intermittently/seasonally saturated		☐ Semipermanently flooded	/ flooded					
D Saltwater	(seldom flooded)	0	Dermanently flooded	ded					
D Brackish	□ Permanently/Semipermanent. saturated		□ Tidal/Seiche flooded daily	ded daily					
in Fresh	(dry <1/yr, seldom flooded)		☐ Tidal/Seiche flooded monthly	ded monthly					
Cpland (n/a)	Occasionally flooded (<1/yr)		□ Tidal/Seiche flooded irregular	ded irregular					
	☐ Temporarily flooded		(e.g. wind, storms)	us)					
(by default unless plot is a wetland)			□ Unknown						
Additional notes & diagrams: (Representativene	ss of plot to the stand, successio	onal status, matur	ity, etc.)						
The plot is basically a Red Maple wood lot surrounded by wads and park buildings.	a Red Maple w	sod lot s	nuanna	y by	roads a	nd park	building	ú	
Deer browse impacts the	ic herbaceous and	1 chimb 1	ayer. Ar	and he	the eas	and Pre	NTO Area/		
shelter to the south	were constructed	since as	- samp	19. Kal	sed ear	h Con the	shelter		
talls into a small porty	H 9 pow to ua	nough now	fully ne	e tated.	1000	Ridge	sd Road all	8	
sunlight to affect vege	tathon straphtly	No Me	d 10.	lods S	and 6	have bean	invaded b	>	
many view species mos	Hy weedy. I si	us pact the	is area s	205 moi	re vain	runoff	oc cause		
Schrpus is doing well this	ere More sunligh	nt new	Ints S	and 6	as wel				
			Alle Control of the C						

(A Clantend Mutrupashu

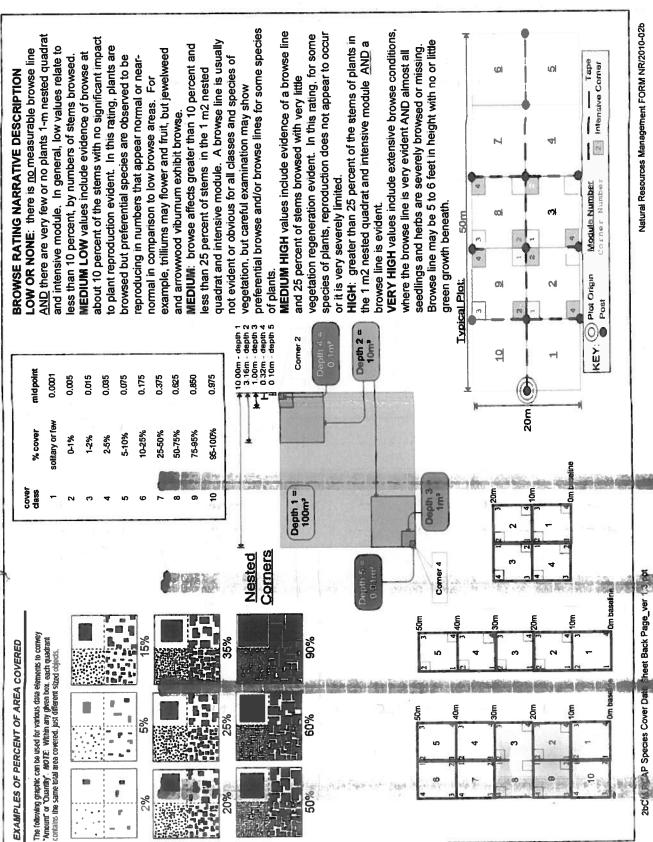
CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Project Label: Total modules: Cleveland Metroparks	Project Label: PCAP Project Label: PCAP Project name: 02 wc 2 5 5 Intensive modules: Post configuration of browse per species over pata Sheet Scientific name: 02 wc 2 5 5 Intensive modules: Estimate for each intensive module: Scientific name: 02 wc 2 5 5 Intensive modules: Estimate for each intensive module: Scientific name: 02 wc 2 5 7 August 10 0 000 000 000 000 000 000 000 000 0	nent Program Special Project name: Intensive modules: Intensive module: %open water %unvegetated open water	O2 WC 2 O/S O2 WC 2 O/S Plot c mod corner mod corner mod corner mod depth 1 0 depth 1 0 depth	Plot no uration: 2 was comer mod Shipth cay depth	 	Page Plot area (ha): con depth cov 1 0	of U	
Cleveland Metroparks Strata - Cov. entire plot		%unvegetated open water %unvegetated open water %unveg. ground (bare soi) %unveg. litter (bare litter)	6 H O (e No C		M P O 0		
S H (F)(A) Br	r Species	c c‱Voucher#	depth	v i depth	cov depth cov depth	cov depth cov	th cav depth	0
	Grass#1 - viny houle - ballous	14 CH 144 -202 CAR	L —		7 14	3 5		A CO
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7	1) mus so, (so		313	2 2 3	3 2 2	2 2	W	
W	Simo		50 50 50 50 50 50 50 50 50 50 50 50 50 5	3743	4 4 3	<u>ب</u> س	2	red base by perty
7	IN		32	2 2	22			Glass Wivent
7	(S		223	N 3 2 3	3 2 3	3 2	12	
13	do aldanie	CH 216-230	2 2		2 3	12		glanger Figural
3	2		2 2 3	2 1 2	4 43	4 2		
1	2		2					
2	den		2	2 2	7 2	-		
12			222	第212	2 2 2	W 12	N	
2	Hedvotis		7	2 2				
	Berberis Hounbergii		21					
5	Acer subrum		Z 5 H	24	7	5	7	
2	5. Potentilla		37	7	7			Samplex
	Grass #2 -small	X CM 25 -205	W 7					
2	Quercus sp. (sedting)		3 1	2 1	21			
2	& Primary C		2/	- -				
	4		2 /	22	7 2 .			3
13	4 MULTITEL		13	132	2 3		(0	r
(7)		CH 626-07	22	上上工	3 3 2	W W		
2	5 Unknown Dicot #+	C4 268-210	71	7	2 2			A. waschate
322	٧		12	配2	2 2	7 2 7		
/				-				
7	P	X CKNOWS		22	7			

caerula



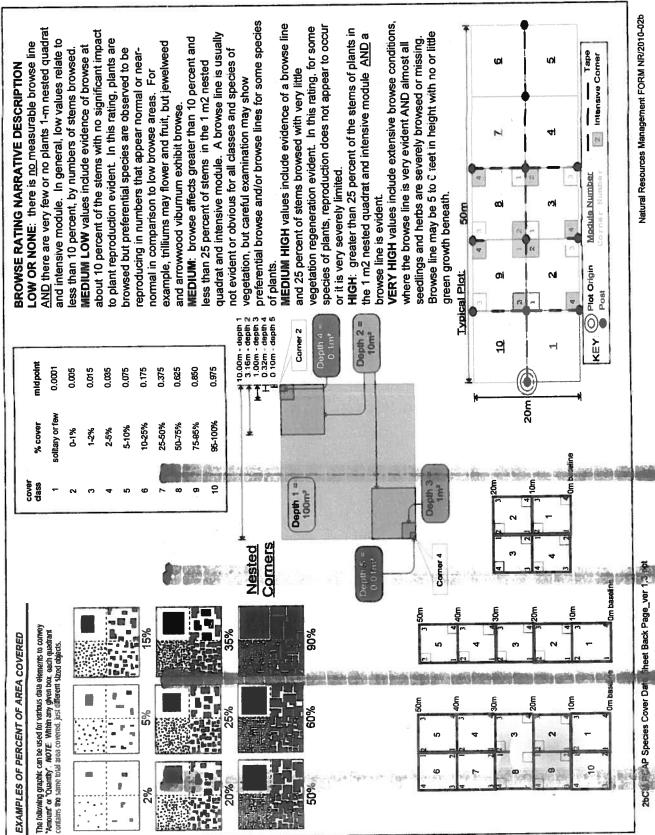
	nagement FORM NR/2 0-02a	Natural Resource I	•		5/29/2012 ceh	2aCM PCAP Species Cover Data sheet Page 1 of x_ver 3.xls last revised 5/29/2012 ceh	2aCM PCAP Species
post persicur		211			X CH 235 CKM 529		7
E. stip unito		22			CKW 021	A Casex Sp. 47	2
		ω -					
		2 /				Parthonociossus quinquetelia	
	17:2	- 2	-			inodendren tulipitera	
	3	-				Vito so (seldling)	
	222	22	- 22			Kubus 50	9.
			2		C4 220-221	UNKNOWN Dicot #3 -82ms	
			7 7			100	7
		-	2			Sassatros albidum	
			2			Smilax rotundifolia	
		- 2	2			5 Premonthes sp.	7
		3 2 2	N 2			Jeconica officinalis	7
	22	7	N		X CKW Old	Danthonia spicata	3
	4 2	3 2 2	323			Ryrus sp. (seedling)	7
			4 1 :			The Law Star Fall white and the Street	
المن عرام الما الم	22	3 7 2		_	4251254 ا	5 Astex #1	7
1						Carthenocissus quinque Tota	
			SMC		CH 2H-214	Orass the Dead annual:	I
	12	7 2		- 2	X CKMOIS	10x075	2
					X CKM017	Unknown Dicot # 2 - Stellaria	7
					CH211-225	2 Sortau	7
	2 2 2	4 2	3 Z i4			Erechtiks hi exacitalia	2
					X CKM 214-216	Carex#1 - ovalian	7
		22		1 2		DACTYLIS GLOMERATA	-
COV	cav depth cav depth cay depth c	cov depth cov depth c	cov depth cov depth	depth cov depth	c Voucher#	Species Species	T S H (F)(A) Br
		-1	16	-	%unveg. litter (bare litter)		Strata - Cov. entire plot
	40	40	10	3 (%unvegetated open water	entre piot	
1	0) 0) c	1	%open water	describe amount of browse per species over	Cleveland
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Z	9 4 9 2 R	28482	E 1 6	4 2	Estimate for each		€
comer	comer mod	mod comer mod	comer mod comer mod c	ner mod			>
	Plot area (ha):	2 X S Ph	Plot configuration: 2	1	Intensive modules:	D	Total modules:
		1072	Plot no.:	Project name: 07 NC 2015	Project name	PCAP	Project Label:
	Page of			ies Cover Data S	nent Program Spec	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a	CLEVELAND ME



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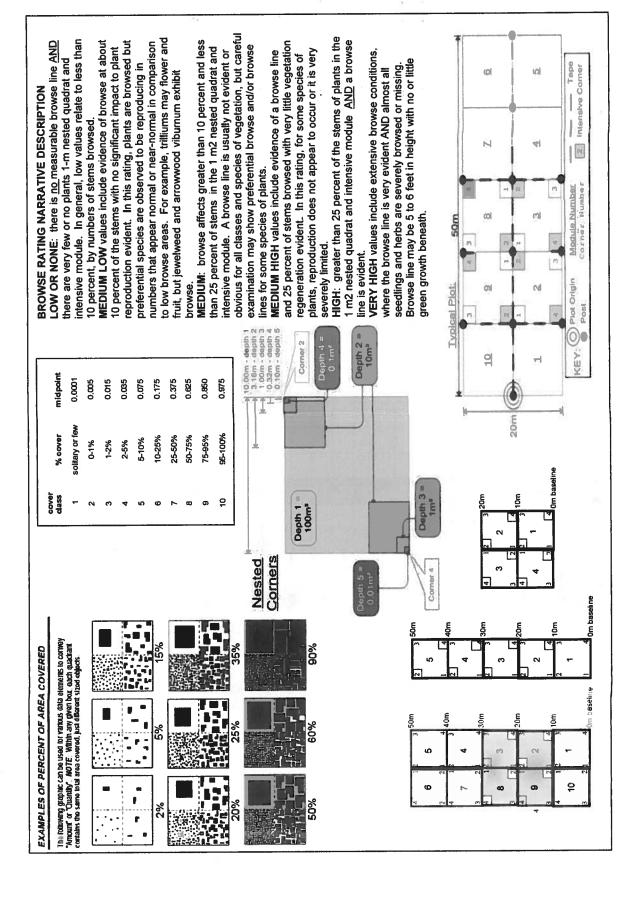
Natural Resources Management FORM NR/2010-02b

		- Kru	1 Tau	1		2 .5 Day	1	L brass	1) (1000	1 10 EU	21 Jun	1 Hv:	7	1 Gly	2 As	一里	1 Unk		2 Jun	2 Palya	2 Grass	Taxus	D	T S H (F)(A) Br	Strata - Cov. entire plot		Cleveland descr	€		Total modules:	CLEVELAND METROPA Project Label:
MKNOWN DICKES	1	runella vilagris	officin	itisacina triphyllium vartophyllu	L	lausius carota	anicum # "	1	323 MINI	hudgo (DESIA	1	ON (MOUS ALATUS	′		bersia Virginica	Slyceria sp	ister ##	+ 50. Viola 50	nknown Digot HH H - ARTHRAISAS	Bidens so.		Polygonium sagiff atum	53 =4 - Festuca-like	us canadensis	nthoxanthum odoratum	Species		entire plot	describe amount of browse per species over	Br = Browse Level. Use cover classes to			CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a Project Label: PCAP Project name: 12 WL 2015
CK 2-11-0	יארורטף טי			2 lings			X CAMOR I		02k002b				X CKMOZS	,			CH 244-246	c4 240-243	CH 236-239		X CRNOS 2		X CHWOZE			c Voucher#	%unveg. litter (bare litter)	%unvegetated open water	%open water	Estimate for each intensive module:		Intensive modules:	ment Program Speci Project name:
																										dispth cov depth cov	1		-	med corner mod corner 7 L4 2 2 depth cov depth cov		Plot conf	rogram Species Cover Data She Project name: <u>02 WL 201</u> 5
										-																depth cov depth cov				mod corner mod corner 3 4 5 2 depth oov depth cov		Plot configuration: 2 × 5	et 2a Plot no.: 10 72
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200	P Lobelia?	70	アー	RI	RI	R 32	R 2	73	7	+-		-	P 3 ckusus	* wordy		- Frata	midrob hair		toother home		Prot truis					depth cov				R R R R R R R R R R R R R R R R R R R			7



Natural Resources Management FORM NR/2010-02b

CLEVELAND METI	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet		Page of 4
Project Label:	PCAP	Project name: 02 WC 2015 Plot no.: 1072	
Total modules:	10	Plot configuration: 2 x 5	Plot area (ha):
9		Estimate for each	mod corner mod
	Br = Browse Level. Use cover classes to	intensive module: depth cov depth co	depth cov depth cov depth
Metroparks	entire plot	%unvegetated open water 1	
Strata - Cov. entire plot		%unveg. litter (bare litter)	
S H (F)(A) Br	П	dupth cov depth cov depth cov depth cov depth cov depth cov	depth cov depth cov depti
	Vicia sp.		
7	- (Testuca lik	CKW 028	2 could be same
	Unknown Dicot # 6 - spireac	C4251-254	
2	1	CKM030	2 tribulates
	ords #7 Lalium	7 Ck M 031	
2	LOTUS CORNICULATUS		2
+	Apocynum connabium		
2	Grass #8 - Milly		2
2	Carex	CK M032	2 C. Wigsyleila?
2	67255 # 19 - Agostis	CKM033	2
**** 	Asteracoac #1 - Basal, yellow town	C4255-262	-
	CITSLAM axyense		Cawada
	10 m		



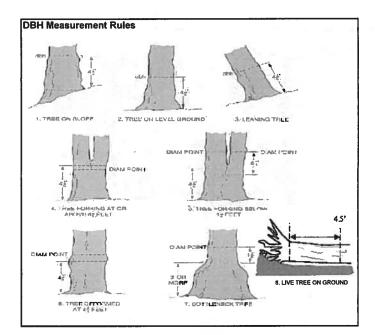
CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet
Project Label: PCAP Project name: 02 WC 2015 PI Plot no.: 1072 Page ____ of __

% COVER Strata - Cov. entire plot	⊺ Br	5 6 Pru		Ø.												
	Species	runus scrotina	<i>~</i>	AND STEAM SHAN	. 17	5 all										
	ဂ															
Prensence of tree mod species (X) 2	Voucher#															
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N mod		X	×	×	- 1											
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ver		pou			Taxes	1-76			51		- E											
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nent Program Tre	Project name:	Prensence of tree	species (X)	Voucher #																		
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CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet	PCAP			Species																		
MET			Pictor S	\dashv						_			\dashv	\dashv	\dashv		\dashv	 		_	Н	\dashv
LAND	Project Label:	/ER	Strata - Cov. entire plot	ā																	,	
CLEVE	Projec	% COVER	Strata - C	۲																		

Page of

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Ulmus amuricana Prunus serotima Standing Dead Explain subsample (additional room on back): Our rubrum Standing Deald Rosa multiflora Prunus serotina Standing Dead Rhamous franquia Prunus serotina Rhamnus Franquia Crahagussp Rosa multiflora aux aubrum Rhamnus tranquia aur rubrum Standing Dood Rhamous frangula Rosa multiflora Prunus serotina Olar rubrum Rosa multiflora Our subrum Prunus serotina Project Label: voucher# browsed # stems 0-1.4m S ß Q or super sample % sub Project Name: QWC3015 clumps shrub size class (cm) woody stems >1.4m <u>7</u> 1-<2.5 2.5-<5 Plot No.: 1072 5-<10 10 - <15 15 - <20 20 - <25 Page: 25 - <30 30 - <35 으 Cleveland Metroparks 35 - <40 5 SHIP OF 51.6 >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.



В

C

D

E

ASH CANOPY BREAKUP CONDITION (for dead trees):

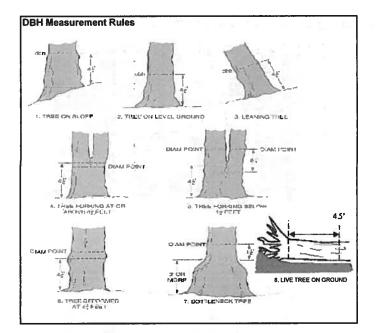
(if an ash receives a score of 5 (dead) under canopy condition it must also receive a breakup condition rank as described below)

- 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.

	CLEVELAND METROPARKS Plant Community Assessment Program
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	Natural Woody Stem Data Sheet
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Project Label: PCAP Project Name: Qalul(30b Plot No .: 1074 Page: 2 Gieveland Metroparks

5		0	5	٥	9	9	_	هـ	29	00	00	09	47	t	7	七	6	6	6		6	5		mod #		
	Propriet Libra	Princes serationa	Our rubrum	Rosa multiflora	Berberis-Hunbergii	Prunus seretima	Ulmus americana	Standing Dard	aur rubrum	Rosa multiflora	Prunus seratina	agr obum	Rhamnus franquia	Prunus serotina	Standing Dead	aux wbram	Rubis so	Rhamaus fracaula	Rosa muttiflora	aur rubrum	Standina Dead	Rosa multiflora	Berberis Hhunbergii	species		Explain subsample (additional room on back):
_																								c		on bac
																								voucher#		
-	_			ع			-			_	_		શ				7		4			-		_	# stems 0-1.4m	
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																•								35 - <40	ő	
			84.4,415						513,419,433							43.5,43.5								>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 10













ASH CANOPY CONDITION

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5'

В

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Е

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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- E: Central stem still standing.

	Project Label: PCAP	CLEVELAND METROPAKNS EMERIIG ASD BOTET - Fraxillus Siteet
200	Project Name: Odly 3015	Sucet
-	02	
יים איין שורי איין	10e Jr	
١	G	

INTENSIVE MODULES ONLY TREES ≥ 10CM ONLY
Plot No.: 1072 Date: 10-10-2015

Page: 1 of 2

10 10 10 10 10 10 10 10
D. C. VOLKIER #
C VALUE # (VIII)
VULLIEI # (VIII)

*** Change Intensive module numbers when necessary

9

8

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

2

ω

* If Ash Condition scores 5 (dead) provide breakup score (A-E) Count EAB exit holes 1.25m≥ x ≥1.5m
 Woodpecker and epicormic marked present (1) or absent (0)

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detec	tion/ Rapid response	75 E T		Pre	sence		GPS	
Her I. Larry Wetter	mont makes response		NE	SE	sw	NW		Presence
Microstegium vimineum	Japanese stiltgrass		145	JE	344	1000		X: yes
Ranunculus ficaria	Lesser Celandine				 			1 /35
	vine) Black Swallow-wort			-	+	 -		-
	land) Flowering Rush					 		┪
Heracleum mantegazzianum	Giant Hogweed		-	+		 -		┪
	ess as Needed			# of	Plants		comments	-
Her Z. Ass	ess as received		NE	SE	SW	NW	Commence	# of Plants
Acer platanoides	Norway Maple		INE	JE .	344	1444		1: 1-10
Acer placariolides Allanthus altissima	Tree of Heaven		\vdash	+	+			2: 11-50.
			-	+-	+	 		3: 51-100
	vine) Japanese Honeysuckle	е	 	+-	+-	 -		4: 101-1,00
Lythrum salicaria (wetl			_	+	+	 		5: >1,000
Aegopodium podagraria (G-co				+		 		[5: 71,000
	vine) Asian Bittersweet	_		+	-	╂╼═┼╴		-
Torilis sp.	Hedgeparsley			+	-	 		-
Conium maculatum	Poison Hemlock	(a la 1-3		+	+	 		-
Rhamnus cathartica	Common Buckthorn	(shrub)		+	+			
Berberis thunbergii	Japanese Barberry	(shrub)	-	+-	+	 		-
Alnus glutinosa	European Alder		<u> </u>	+-	-			-{
Dipsacus laciniatus	Cut-leaf Teasel	7			+-			-
Elaeagnus umbellata	Autumn Olive	(shrub)	<u> </u>	₩				-
Lonicera maackii	Amur Honeysuckle	(shrub)	<u> </u>	-	-			4
Euonymus fortunei	Wintercreeper		-					
Tier 3: Prese	nce is of Interest			_	Plants		comments	
			NE	SE	SW	NW		# of Plants
	over) Lily of the Valley		ļ	+				1: 1-10
	over) Crown Vetch		_	₩	—			2: 11-50.
Eleutherococcus pentaphyllus	Five-leaf Aralia	(shrub)		↓ —	₩			3: 51-100
	over) Japanese Pachysandr		<u> </u>	—	-			4: 101-1,00
Philadelphus coronarius	Mock Orange	(shrub)		-	 			5: >1,000
	over) Lungwort			-	+	-		-
Rubus phoenicolasius	Wineberry			-	-			4
Iris pseudacorus (wet				—		\vdash		4
Ornithogalum umbellatum	Star of Bethlehem			↓	1			4
Viburnum opulus var. opulus	European Cranberry			<u> </u>				⊣
Viburnum plicatum	Doublefile Viburnum	(shrub)	<u> </u>		<u> </u>	1 2		_
Tier 4: Widesp	read and abundant			_	sence		comments	
Supprise Electronic Control			NE	SE	SW	NW		# of Plants
Alliaria petiolata	Garlic Mustard			_				1: 1-10
Ligustrum vulgare	Common Privet	(shrub)	<u> </u>	4	<u> </u>			2: 11-50.
L. morrowii, L. tatarica	Bush Honeysuckles	(shrub)						3: 51-100
Phalaris arundinacea	Reed Canarygrass							4: 101-1,0
Phragmites australis (wetla	nnd) Phragmites							5: >1,000
Polygonum cuspidatum	Japanese Knotweed							_
Frangula alnus	Glossy Buckthorn	(shrub)						_
Rosa multiflora	Multiflora Rose	(shrub)						_
Typha angustifolia, T. x.glauca	Cattails (wetland)							_
Cirsium arvense	Canada thistle							
Dipsacus fullonum	Common Teasel							
Hesperis matronalis	Dame's Rocket							
Vinca minor (G-co	ver) Periwinkle							

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

Page: of	Plot No.: 1072	Project Name: DawCa015	PCAP	Project Label:
Cleveland Metroparks	hogens Data Sheet	nent Program Forest Pest and Pat	Community Assessi	CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Shee

Now Present	mood #	species	voucher#	% sub or super sample	shrub clumps	size	class	class (cm) wood 1 2 2	e class (cm) woody stems > 1	ss (cm) woody stems >1m 2 3 4 1-<2.5 2.5-<5 5-<10	10	4 5 6 <10 10 - <15 15 -	4 5 6 <10 10 - <15 15 -	4 5 C
1 Now Present 2	mod #	species	voucher#	sample	clumps	٥ ^ ^	_	H	1-<2.5 2.5-<5	1-<2.5 2.5-<5 5-<10	1-<2.5 2.5-<5 5-<10	1-<2.5 2.5-<5 5-<10 10 - <15 15 -	1-<2.5 2.5-<5 5-<10 10 - <15 15 -	1-<2.5 2.5-<5 5-<10
10 8 7 6 5 4 3 2		None Present												
4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2						-							
5 5 6 7 7 8 8	ω													
7 6 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	4													
7 7 8 9	თ													
7 8 8 9	တ													
10 9 8	7													
10	œ													
10	9													
	10													

Strata	Total % Cover
Тгее	
Shrub	
Herbacous	

Asian Longhorned Beetle	-Asian Lo	-Beech (Fungus)
	evidence:	* Write None Present if no evidence

-Hemlock (HWA) -Other Forest Pest or Pathogen

-Walnut (Thousand Canker)

CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface Project Label: PCAP Project Name: 040(30)5	ARKS Plant Con	munity Assessmo	oawca015	Nant Cover and Ear	rth Surface		Plot No.:	1033		Page: 1 of 1
STANDING BIOMASS (required for emergent wetlands) collected in 0 Im clip plots (32x32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. CT=check when	quired for emergent) from comers 1 and 3 E score calculation. C	wetlands): collected in each intensive —check when							MONDRINTING (degrees) +	for in- for down
collected				CLASSIFICATION					IFILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD!	- DO NOT FILL OUT IN FIELD!
Module #	G?	Corner Corner		Hydrogeomorphic class (WETLANDS ONLY):	COMMUNICATION OF	ST.T.				LFI* TSI**
				DEPRESSION			ı	!		plot to the
				a IMPOUNDMENT a Beaver a Human	Beaver o Human		Fit Conf	1	+45 onlines	angles formed by
				o RIVERINE o Headwater o Mainstem o Channel	ater o Mainstem o	Channel	Fit= Conf=_	<u> </u>	+90 degrees E	local slopes For
				n SLOPE (ground water hydrology or on a physical slope	vdrology or on a physi	cal slop)	Fit=Conf=_	 		angle from
				□ FRINGING □ Reservoir □ Natural Lake	oir - Natural Lake		Fit Conf		+725 degrees CW	eye of person
				o COASTAL (specify subclass)	anciass)	ntrophic	File Confe			away
				Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):	Community Class (WETLANDS ON				
				CONTRACT CONTRACTOR	end a base forcest of	ornel com	Fit Conf		on M	(cape)
				DEMERGENT of marsh to wet meadow to open bog of SHRUB of shrub swamp to tall shibog to tall shifter	np tall sh. bog to	open bog uall sh. fen			** Terrain Shape Index (site microtopographic shape)	graphic shape)
MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only	C FEATURE COL	NTS - Intensive	nodules only		13					
Ranks for microhabitat features. Select one or select two and average the score.NOTE: If mod falls on a slope automatically gats ranked based on steepness (1-3) to begin + any features present Slope 1 = sight elevational grade across module (hit) Slope 2 = falls on slope -20° Slope 3 = maximum steepness that can be safely sampled -45°	es. Select one or sele grade across module (I	ct two and average th	score.NOTE: If mod falls on a Slope 2 = falls on slope ~20°	d falls on a slope automa slope ~20°	tically gets ranked b Slope 3 = maximu	esed on steepness ; um steepness that c	ally gets renked besed on steepness (1-3) to begin + any feature Slope 3 = maximum steepness that can be safely sampled -45°	-45°		
feature is absent or functionally absent hom the wetland feature is present in the wetland in very small amounts or if more common, of low quality feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality.	onally absent from the vettand in very small at arate amounts, but not	wetland hounts or if more come of highest quality, or in	non, of low quality I small amounts of hi	ghest quality					CROWN COVER (DENSIOMETER): Make 4 readings per module facing N. S. E. W. Place dot count in corresonding space. (4 dots per grid square)	DENSIOMETER) Make 4 Sacing N, S. E. W. Place dot count in (4 dots per grid square)
				c.w.d cour	c.w.d count for pieces with minimum 1m length	ninimum 1m lengt	5		Module	Ces .
	no of	no, of	no, macro	c.w.d	cwd	c,w.d	microhab	nucrohab	2	2 2 2
	tussocks	hummocks	depressions	(2-12 cm)	(12-40cm)	>40 cm	mterspers.		س س س	-
		uplands (Tip-Ups)					denth	SLOPE	9	en en
-	depth o	3 16x3 16m	lox lom	10x10m	10x10m	10x10m	10x10m		- 1	Mua
		(count)	(comt)	(count)	(count)	(count)	(rank)	(rank)		
2)	0	0		88	0	0	م			
ون	0	0	-	37	0	0	2	-		
20	0	0	_	17		0	ره			
9	0	0	-	38	0	0	رو			
									3N10 QN2	
	1									
NOTE: lussock and hammocks		and compay the desired dranges and contra land			7			_		
000	0		one's by counts for	apparated.	2	- M	12	W 1 2		W4 W1
- san month Change Course	0 - 0	00	a counts N	27 - 3	000	200Z	Dan W		Naturai Re	

(Consoland Metroparta Page: 1 of 1

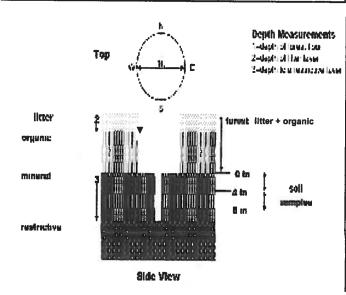
COVER BY STRATA

STRATUM	GENERAL FORM
Tree (generally >5 m)	Tree (overstory), very tall shrubs*, liana, epiphyte)
Shrub (generally 0.5 to 5 m)	Tree (sapling), shrub, liana, epiphyte)
Herb (Field)	Herb, dwarf-shrub**, tree (seedling***)
Floating	Floating
Aquatic (submerged)	Submerged

"Very tall shrubs are sometimes included in the tree stratum

**Can also include seedlings of shrubs, i.e. all shrubs <0.5m

***Tree seedlings are often defined as up to 1.4 m height or as <2.5 cm DBH in which case they would span the herb and shrub layers.



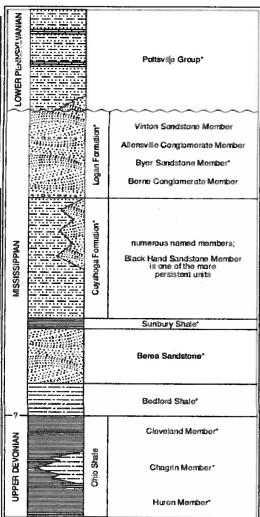


FIGURE 3-20.—Generalized section of Upper Devoman, Ministrypian, and Lower Pennsylvanian formations in northeastern Ohio Asteriaks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the chicknesses indicated are proportional. The term 'Waverty is used in the older literature to refer to Mississippian rocks in Ohio. Some geologists use the European nerm 'Carboniferous,' which encompasses the Mississippian 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 sandstone that is fairly widespread but discontinuous. See Hyde (1953 Hoover 1960), and Collina 19" for more information on Mississippian rocks in Ohio. See figure 3-for explanation of rock types.

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a Project label: PCAP Plot No.: 10%

Project Name: Quil 2015

Citereland 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 # ___ (one per entire plot)

6 cm	matrix color mottle color %mottle oxid roots texture* tredox features**	,	
	oxid roots	~	z
	texture*		
	redox features**	4	z
	hydr. cond.***	s	Z D
60 CM	matrix color		
	mottle color		
	%mottle		
	oxid roots	Υ.	z
	texture*		
	redox features**	Υ	z
		~ o	
l	my and come.		

refer to texture classes on reverse side

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

Notes: include evidence of earthworms (worms =indundated S=saturated M=moist D=dry

8) No evidence, ground The evidence, ground 3) Ab evidence, ground wet. (2) No evidence, ground

6aCM PCAP Soils_Crown cover_Land@n_stunding Blomass_Data Sheet_ver 3.xis last (Stood 8x/12012 ceh

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

□ Excessively dr. □ Somewhat excessively	DRAINAGE*	Parent Material:	Depth to rest. Layer:	Landform type	Soil Series Source: Ohio Soil Survey	Soil Series/Type:	Web Soil Survey Information:	2,3,8,9 composited A	Soil Collection Moduld Horizon (A. B. C)

ecord as >30).1 cm in	OIL DE
>30	center of	PTH ME/
	cm in center of intensive modules. If >30.5 cm,	SOIL DEPTH MEASUREMENT: Measure to the nearest
	e module	ENT: Mea
	s. =f ×:	sure to
	30.5 cm	the ne
	,	arest

Somewhat poorly dr. Well drained

Moderately well dr. Very poorly dr.

Impermeable surface

9	8	3	a	mod#
1.1	1.4	2.7	3.0	1 litter+ organic depth (cm)
	1.4	a. 7	3.0	2 litter depth (cm)
0	0	0	0	water depth (cm)
0	0	0	0	depth sat
		-12.00		

(S) 3:00

EARTH SURFACE & GROUND COVER	CE & GROUP	ND COVER	
Underlying Earth Surface*	Surface*	Ground Cover	
(Sum = 100%)	percent	(Each ≤ 100%)	percent
Histosol		Coarse Woody Debris***	128
Mineral Soil	2001	Fine Woody Debris****	5%
Gravel-Cobble*		Litter	70°K
Boulder**		Duff (Ferm. + Humus)	0%
Bedrock	-	Bryophyte- Lichen	12
* Gravel-Cobble = 1/16-10*	1/16-10*	Water	
**Boulder => 10 in	in	Bare Soil	1%
*** >5 cm in diameter	ieter	Road/Trail	7.h
**** <5 cm in diameter	meter	Other	

Bootleg unsanctioned

27

Hiking sanctioned Bridle All Purpose

Gravel

Type

%Cover

ecord type and cover for each RAIL INFORMATION:

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

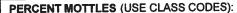
Strata	Height Range (m)	Total Cover (%)
Tree	5m -	83%
Shrub	0.5 -5m	28
Herb	-0.5m	83%
(Floating)*	NJA	NIA
(Aquatic)*	NIA	N/A

rooted and floating or slightly emersed

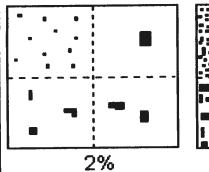
submersed, most plant mass below surface

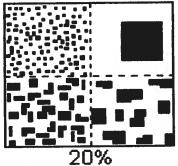
SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE

□ > 100 x plot size 10-100 x plot size 1-3 x plot size 3-10 x plot size < plot size



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





Terraces

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

0= Organic

1= Loamy

2= Clayey

3= Sandy

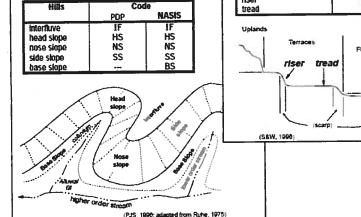
4= Coarse Sand

9= Not measured - make plot note

Position

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

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



Hillslope - Profile Position (Hillslope 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

shoulder backslope footslope toeslope	SH BS FS TS	
Su Sh Bs	Fs Ts of Ts	Sn Su Bs J J
(PJQ, 1996; adiated from Rune.	1976)	

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.

RI

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.