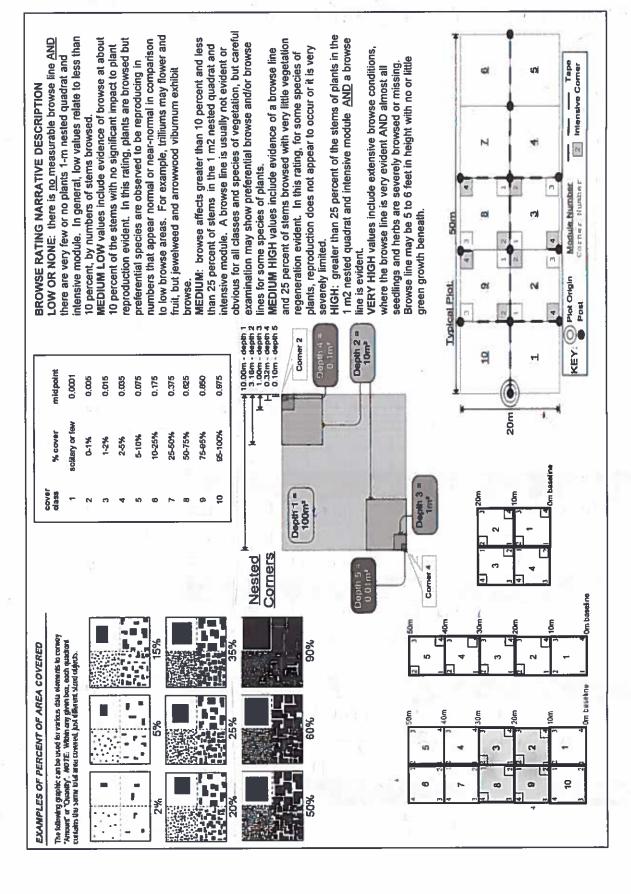
	ROPARKS Plant Community Asses			: Quality Control Form
Project Label:	PCAP	_ P	lot No	
		1 4		Comment required if item answer is NO
	le of Park Boundaries.	NO.	N	If yes, write details in Comments section below
Field journals comple		(0)	N	
Site sketch made on 1	:3000 map?	Ŵ	N	
Check cover page	X-axis Bearing of plot recorded	(8)	N	
	GPS coords. Recorded	(0)	N	
	North direction recorded	(Q)	N	1752ER 185 -=
	Photographs taken?	(y)	N	
A	Relocated Pins Mapped	Y	N	PAGE 1
Plot No., Date agreen	ent on all pages?	Y	N	
Header data complete	N 1965 N/2	(Y)	N	
	d in all Intensive modules	Y	N	1
Browse Level By Spe		M	N	
Woody stem quality c		179	N	Check every line and cross check with the Tree Cover Sheet
Invasive plant quality		Y	N	NA ·
Ash trees mapped		G	N	
Completed Forest Pes	t/Pathogen Datasheet	(v)	N	
Cover by Strata? (con			N	
AL TANK , PART OF THE	with matching plot #.	Y	N	NA
Cross check 2010 info		(Y)	N	Highlight any changes from 2010 information
		(N)	N	riginight any changes from 2010 information
	latasheet with initials and number	74		
Vouchers labeled on a	collection bag	8	N	
Pink flags removed			N	
Data sheet QA before		(Y)	N	
Common equipment t	eturned to tub.	Y	N	
Data sheets scanned?	77-11			Enter date to left
Final data sheets scan	ned?	-		Enter date to left
Buffer Widths measur	red?	Y	N	
Web Soil Survey		Y	N	
Voucher Location	Refrigerator	Y	N	
(# vouchers collected)	Press (#)			Enter number to left
CKM418-	Drier	Y	N	
432	Identified	Y	N	
752	Mounted	Y	N	76 x 75 x 75
	Thrown away	Y	N	
		Ď.	•	
GRTS point verifica	tion: 1s plot sampleable?			
□ Yes	Original GRTS point is sampleable			1 3
 -		commission.	. nea- 4	(SII in category hylour)
DO	Original GRTS point lands in a non- Point falls in a water (i.e. river.		агса (thi in category below)
	Managed mowed area (i.e. golf		area. ri	eht-of-way)
	☐ Paved area (i.e. parkinglot, road)	- Januar paedle	are welley 6.1	70
	☐ Unsafe to sample (i.e. steep slop	e)		
	□ Other			
Additional Commen				
Found al	pins			

€ 22 S (*) *

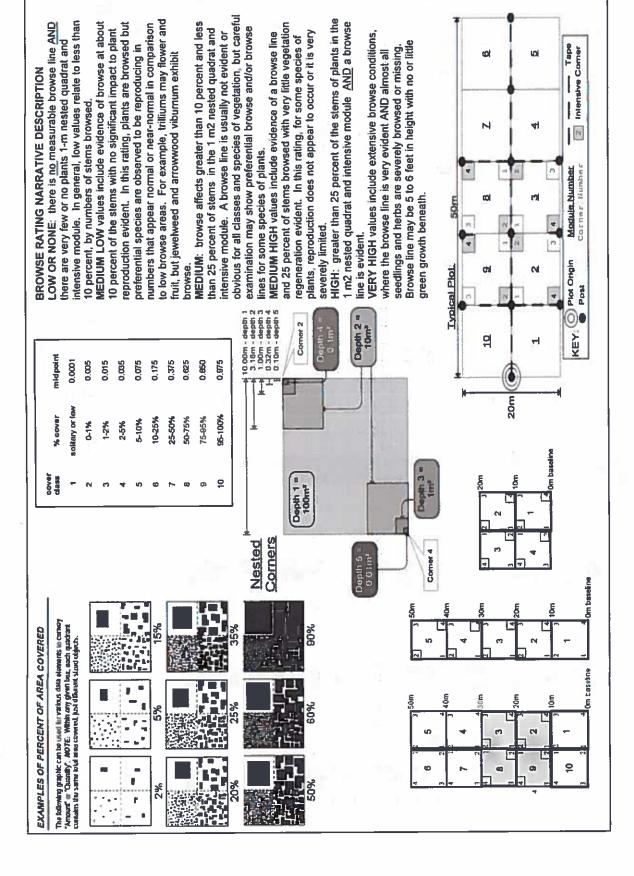
CLEV	CLEVELAND METROPARKS Plant Community		Assessment Program - Background Data Sheet	und Data	Sheet				Q Clumbrid Mulmpats
,	Project Label:	PCAP	Project Name: 028E 2015	e: <u>02</u> B	E 2015		Plot No.:	Plot No.: 556 &	Page 2 of 2
MODI	MODIFIED NATURESERVE CLASS*			DISTU	DISTURBANCES				
CODE	CODE (on separate form):	Fir Conf=		type	severity**	yrs ago	% of plot	description	
-	1 2			Human				50 70	
				Natura					
COMIN	COMMUNITY NAME:			Fire					
	Cap Maple_Elm-Nyssa Wet	- Flamoods		Cut	W		8	Deer Browse	O
				Other					
HOM	HOMOGENEITY			**[,=low	ML=med lo	v. M⊐med	MH=med	**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high	y high
Hom	A-Homogeneous a Compositional	Compositional trend across the plot		Current	Current Land Use: (CM P		:	٠
Cons	Conspicuous inclusions ☐ Irregular/pattern mosaic	mosaic		Former	Former Land Use:			:	
,		HYDROLOGIC REGIME*	SIME*		4				
		Upland (seldom flooded)	n Inter	Intermittently flooded	ooded				
SALI	SALINITY*	Intermittently/seasonally saturated		☐ Semipermanently flooded	y flooded				
□ Saltwater	water	(seldom flooded)		□ Permanently flooded	poped				
S a Brackish	kish	Dermanently/Semipermanent, saturated		☐ Tidal/Seiche flooded daily	oded daily				
Wresh	h	(dry <1/yr, seldom flooded)	0	al/Seiche flo	O Tidal/Seiche flooded monthly				
Eld.	Upland (r/a)	□ Occasionally flooded (<1/yr)		al/Seiche flo	a Tidal/Seiche flooded irregular				
1		n Temporarily flooded	(c.g	(e.g. wind, storms)	ms)				
(by def	(by default unless plot is a wetland)		a Unknown	Chown					48.00
Additi	Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)	ss of plot to the stand, succes	sional status, maturity, et	tc.)					
	The stand is somewhat	ewhat uneven-	uneven-aged. The norb layer is almost uniformly	herb	اعرم	7 7	- Z	ast uniform	^
-9	Crois Virginiza The	104 15 9 Well	rd mix of	10 5 5 5	0000	chit	Tri w	Flotwood	000000
	The plat is on a slight downclase but is holand which I think is the	strant dow	unslade but	7	Up/an	3	7	Think I	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	4			F		~		1	7 1
Ö	MUSE OF THE MURY	ced nygralo	ع الداد.	יאב	MINE	724	ري	1	/00 K
- 50	imenhat stressed.	A couple spo	its are sta	Ying	me weth	上	nonghe	ut the	
5	year it seems.								

Intensive modules: Br & Browse Level, Use cover classes to describe amount of browse per species over entire plot Br & Browse Level, Use cover classes to describe amount of browse per species over entire plot Secretary of the plot supposes over entire plot Carrex & graculting supposes over than plot supposes over entire plot Secretary of the plot supposes over than plot supposes over entire plot supposes over than plot supposes o		Project Label:	Project Label: PCAP Project name: 02BE 201	Project name:	02BE 201	5	Plot no.: 3368	
Cheminate describe amount of proper detailed and extend the cover		Total modules:		Intensive modules:	-	configuration:		
Re-Brows Lavel Use cover classes to market whether particles and according according and according a		>		Retirents for each		comer mod	2 mod	corner mod corner mod
Section Sect		3		intensive module:	depth cav depth	cov depth	cav depth	cov depth cov depth
Settle Coveration and Coveration a		Cleveland	describe amount of browse per species over	%open water	0	100	1 0	1 0
SHIPHAN Species Cheen		Metroparks	entire plot	%unvegetated open water	1 0 1	1 0	- - -	
Stall-Cov. motive Bit Species C. Wouther Book C. Wouther B				%unveg. ground (bare soil)	7	1 2	1 2	1 3
Children Cartex A graculling Cartex A		SI ALL VENTANTE		и.	1	ŀ		-
2		_		t	_	C S	L depair	cov depth cov depth
2		2	r		1	-		-
3 Carex A gracilima X CKMH18 3 3 Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z		2	entilla			2 4		2
Carrex & gracillima CKMH18 3 2 2 2 2 2 2 2 2 2					4			
2 (6 Sassatas a dibidum 32 Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	Adams Culpo		arev & aracil	X CKINHIB	3 3 7		1 7	\neg
2 5 RHAMMUS FRANGULA 322 27 27 27 27 27 27 27 27 27 27 27 27 2			Sassata albidu			2 2	2.2	
Moss sp. 2 2 2 2 2 2 2 2 2			IRHAM NUS FRANGUL			7	Si	7 7
SEZ Nyaca chyratica Z Sucrais sp. (seedling) Z Sucrais sp. (seedling) Z Aster lateritions Z Aster lateritions Z H Cycoria stricta Z D H Cyc		_		0	2	Ч	7	32
Diversus sp. (seedling) After rubrum After rubrum After rubrum After rubrum Charlet afteritlerus Charlet afteritle		5 ± 2	~			드	7	7-
After naturum Z H Z H-ter naturum Z H China arundinasca Z H China arundinasch Z D Ra alsades Z H Z H China arundinasca Z H Z D Ra alsades Z H Z H China arundinasca Z H Z H Z H Z H Z H Z H Z H Z		17	as.		U			2
Aster lateritlerus 2 Aster lateritlerus 4 Chyceria striata 2 Polygonum sagitlatum 2 Polygonum sagitlatum sagitlatum sagitlatum 2 Polygonum sagitlatum sagitlatum sagitlatum sagitlatum sagitlatum sag		8	MANA		14 2			
4 Glyceria striata 2 H Coma arundinacea 2 Polygonum sagillatum 2 Polygonum		2	later t					
ZH Chima arundwacca Z Polygonum sagillatum Z Praxinus pointsylvanica Z Fraxinus pointsylvanica Z Fraxinus pointsylvanica Z Fraxinus pointsylvanica Z Praxinus pointsylvanica Z P		+	stri			3	2	
Z Polygonum sagithdum Z Z Fraxinus pennsylvanica Z Fraxinus pennsylvanica Z Fraxinus pennsylvanica Z Exp Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z		17.2	Cima arundinacea		7 1	3	7	7
The frakings pennsylvanica 222222222222222222222222222222222222		2			22		(J)	
Z Conscions sp. (szedling) Z)	7	ත		2:2	2 2	9 00	
2 6. Fraxinus sp. (stedling) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5	2	ricodendron radican		2 2			72
2 Podophyllum pettatum dicatum ckm 2 2 2 2 2 2 2 2 2		7 2	Fraxinus sp. (sted)		72			
Z Dimes sp. (scedling) Z Dime		2	alsodes		2 2	CONTRACT.		
Z Bolidago canadensis Z Podophyllum peltatum dicatum ckm Z Z Z Z Z Z Inriodendron tulipitera Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z		2	hus sp. (seed		2 2			200
2 Podophyllum petatum diatum ckm 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		7	Sence to so will	c4885-884	 	3 2	-67	
2 Podophyllum peltatum dicatum ckm Z 2 2 2 2 2 2 2 2			Solidogo canadensis	-	1 1 1			
2 Panicum Alanuajnosym var. X CKM Higg 1 1 2 Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z		7	llum sel		2	1 2		10 pp.
27 Triodendron tulipitera	milly to seed	7	A lanualmosum	X CKWH19	1 1 1	2 7		-
12 (2007)		7.72	drew tulion	,	1 1			2
		2	(sood in a)		7			2



Project Label: Total modules:	Project Label: PCAP Project name: 02 BE 2015 Total modules: 10 Intensive modules: 4 Plot configu	Project name: 02 BE 2015 Intensive modules: 4 Plot of	028E 2015	in i	no.: 33	100
>		Estimate for each	ned corner mod	comer mod	bornet and	02
*	Br = Browse Level. Use cover classes to		gy .	cov depth	depth and d	→ dept
Metroparks	describe amount of browse per species over entire plot	%unvegetated open water	- -			∸ -
		%unveg. ground (bare soil)		-1		1-1
်		%unv	-	_		ľ
S H (+)(A) Br	Species	c Voucher#	depth cov depth	cov depth	ş	depth
N	trunks sproting		5	_	2 2	130
2	TYS IS	- BUE CKING		F	2	
all a Ovalian Z	-	X CKW420	2	2	7	
N	Zend Zend			W	2!	
~					7	
2				7		
2.2	MUL			N	7	
5-12						N
72	5				2 2	
5+2	5 56)	4	
all hairy 2	5	X CKM421		_	2	
evaginated 2	Poaceas 1 Agrostis nome	X C KM422			2	
2	cland				2 3	2 5
2-2						な
2-2	5				3	3 5
2	Sensibil	512 M				7
2	- The lunteris r	X CKM423				4
2	sni cata	X	3 2			_
2	С-			filo		Ш
2	Þ.					
	Freightites hieracifolia					
all onation?	X festucaea	X ckm425				
2	aten	•				
2	-	X CKM426	<u> </u>			
SHY 7	ر ر د	×	-		3	

	CLEVELAND METR	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet	ment Program Spec	ies Co	7 PP Da	ta Sh	eet	9	1	ΝI	278	_			70	Page	u	2	4
	Total modules:	JD Off	Intensive modules: 4 Plot co	1	7 2 2	Plot configuration:	nfigur	ation:] ;	بالخا	6, 5	U E		Plot area (ha):	area	(ha):		0	
				DOM:	comer mod	Comer	ğ	corner mod corner	mod	Sime	<u> </u>	corner mod	mod	comer	죑	20	comer mod	COTTHE	an od
	 ③	PETER AND ADDRESS OF THE PETER ADDRE	Estimate for each	N	7	1 7	W	1	u	7	00	1	g co	7	10	1	4	N	Z Z
	Cleveland	Br = Browse Level. Use cover classes to describe amount of browse per species over	%open water	-		1000		П			_								
	Metroparks	entire plot	%urwegetated open water		-	H					-	H			-				
	Strata - Cov. entire plot		%unveg. ground (bare soil)			9 6		T							4	22			
	S H (F) (A) Br	Species	c Voucher#	depm	cav depth	COV COV	depth	ODV	depth	VGD	depth	90-	depth	COV	depth	V00	depth	VGS	depth
	9.				-	m					1 4	11		3					
	7		X .CKM428					1		T.						-17070			N
Purery	72	3	X CKM429				ñ			Įų.				W					N
1 1	~	,	C4885									1319						N. I	
	2 6	VICO	4 12-8-15									10							N
	2	-1	2		ļ	100													7
	,	Livinde Mary Interior			-			1			П	F					1		
	N	Fusi			-							_				2323	0.0000		N
3	2	80.	X 400 CKM 130	Ü						Į. Į	-			ā				B	N
of be duplicate		SEE 12-17-15		100	1				1			F	17		1				I
muhly?	72	sacrac 2 muhicaners	X CKM43		-								-						N
	N	Elymus villosus com	X CKM4312		-	840				8			-						N
	2	VERONICA @ OFFICIMALIS	IS																h
																			5
						27		1 31		W.		16							
(S					
										1100					70	10000			
					ļ									T					
													_	11166					
											٠		-						
			7	-						W			Ι.	116	J.				
					-				-				-						
					-								-				0.000		
					 	X, F				- 13									
					_				Ī			=							

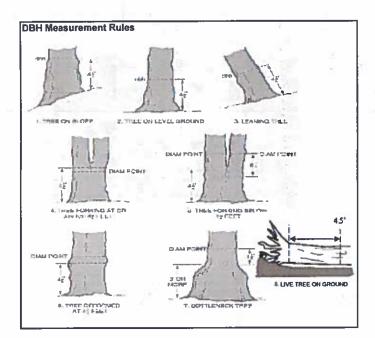


CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet

Project Label: PCAP Project name: 02 15 E 2015 Plot no.: 3368 Strata - Cov. entire plot % COVER T 막 Ulmus americana Acer rubrum Nyssa Sylvatica inodendran tulipitera Species Species (X) 2:3 8 Voucher # × X Page ___

Page of	:																					
t Plot no.:									110													
eet Plot	-	æ							100				,			_						
ata Sh	рош рош	П	\dashv				3								Н	_					_	
over D	Pog				G	M					فادينا										w.j	
Tree C	bom ee	7			>	^	L	-						Н		_						H
ant Program Tre Project name:	Prensence of tree	species (X)	Voucher #	***		5																
essme		,	ပ										S									
ommunity Asso			**						:	:								o _k	,	*		
CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Project Label: Project Label:			Species									į										
AETR(plot	Ц				_	_										2				\square
CLEVELAND N Project Label:	ÆR	Strata - Cov. entire plot	Ŗ																			
CLEVE	% COVER	Strata - (⊢										i									

-			•			0.24										Acer rubum	٠
												,	1			ROSA MULTIFLORA	4 Ros
	×	S	le.											110	ī.	Ulmus ameniana	4 11
									11	•						STANDING DEAD	4 57
		•														Acer Fubrum	4 Ac
																Nyssa sylvatica	HNVS
	•		1.00				×								N.	Licodendon tulipitur	4 1
													W			Fraxinus so.	<u> </u>
													F			Linder bemain	
							X acr							: !		Crataeous so.	3 Cro
																STANDING DEAD	
45.6		•				1										Acer hybrin	3 Ag
													2			Francius So.	4
							1 H 1						6			Lindera benzaira	ม Lin
													ھ			ROSA MULTIFLUEA	يو م
, 4						•										Ulmus americana	نو <u>ن</u>
							•									Acer Nown	S PC
49.5			•												ojikua	inicidend no thipika	ر ا
		100											_			BOSH MULTIFOER	- BO
		•				•							0.70		EVA	Liniodendran tulipikar	Liri
W.3		7150	٠			•					1		u,			Acer Dibailin	200
			T					•					4			Lindera benzoin	Lino
515		×			•	•	•	×					X			Nyssa Sylvatica	7
		2							1	•						STANDIALL DEAD	125
>40 (record each tree)	10 5 35 - <40	9 30 - <35	3 25- <30	20 - <25	8 15 - <20	5 10-<15	0 .	3 2.5<5	1-<2.5	፯ -	S p	_	0-1,4m browsed	voucher#	n	species	mod #
						8	.4m	size class (cm) woody stems > 1.4m	cm) wood	size class	#	% sub	# stems			Explain subsample (additional room on pact)	Estopia
	1	1 9	-	Page:	ò		Plot No.:		I	Project Name: CA DT CT	l Name:	Project		PCAP		Project Label:	
	بد	2,	-	U	×	という	7 A A A A		内しつ	3	Allama.	7		200		Danis at lab	



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

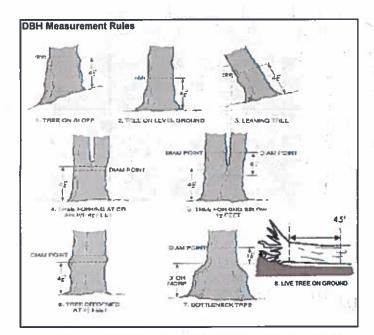
E

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 Natural Woody Stem Data Sheet Project Label: PCAP Project Name: 02852015 Plot No.:	, %	PCAP	Assessn	Project	gram N	028	nt Program Natural Woody S Project Name: 02852015	tem Da	Plot No.: 33	3368	- OC1	Page:	N	역	No.	Pereinnd Metroparks
	Explain subsample (additional room on back):	Dec .	i i								21						
mod #	species	n	voucher#	# stems 0-1,4m browsed	% sub or super sample	# shrub	size class	size class (cm) woody stems >1.4m 1 2 3 4	y stems > 2.5-<5	1.4m 5-<10	10 - <15	e 15-<20	70 - <25	25 - <30	30 - <35	10 35 - <40	11 >40 (record each tree)
S	STANDING DEAD							1î	•					Sta			
2	Lingtendion things	8				PAV	1			•							
U	ROSA MUDIFLORA			پر									_				
6	Arer Norum					1 3									811		52.8
6	THANDING TEAD					00		0 0					_		31	•	
6	Lindera penzain	5 .		66											180		
4	STANDINGDEAD			1				• 0	0								1-52
7	/MED0070																58.8
4	ROSA MULTIFLORA			w													
4	Linders benzoin			w													
00	Acer rubrum											•	3.				
4	Ulmus amencana	-			Paritir							•					
Δ,	Lindera benzain			S									_				
8	STANDING DEAD					•			•		•						
Ą	Francis so.																
9	Acer rubrum	- 3										3					45.7.62.2
9	STANDING DEAD											•	_•-				(
2	Lindera bemain			3			i i	3									
0	Ulmus americana														•		
a	Croppeauso.							•	••	Ja Z							
9	Phrimous Franquia			_													
0	ROSA MULTIFLORA			Ŋ													
0	Fra xinus Sp.			-													



Woody Stem Deer Browse

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

Record using the tally system from 1 to













ASH CANOPY CONDITION

- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
- 2. Thinning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.
- Dieback: Canopy is thinning and some top branches exposed to sunlight are dead (have no leaves). Lower branches, not exposed to sunlight, die naturally and are not considered.
- 4. >50% Dieback: The canopy has less than half of the leaves that should be there and/or half of the top branches are dead.
- 5, Dead canopy: No leaves remain in the canopy portion of the tree. It still counts as a 5 even if there are epicormic sprouts below the canopy (lowest branch) on the trunk.



В

C

D

E

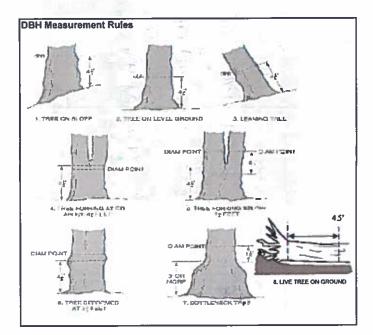
ASH CANOPY BREAKUP CONDITION (for dead trees):

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

- A: All main branches contain fine twigs (newly dead).
- B: Over 50% of main branches have fine twigs.
- C: Less than 50% of main branches have fine twigs.
- D: Stem still standing and tertiary main branches present.
- E: Central stem still standing.

Previously measured

AOS at twith CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet O Ayssadyhatica Explain subsample (additional room on back) ROSA MULTIFLORIN STANDAY DEAD Acer rubrum Lindera benzoin Project Label: PCAP voucher# ير 0-1.4m stems or super % sub Project Name: Q3 BEADIS shrub clumps # size class (cm) woody stems >1.4m <u>0</u> 1-<2.5 2.5-<5 Plot No.: 3368 5×10 10-<15 15 - <20 20-<25 Page: 25 - <30 30 - <35 으, Dieweland Hetroparks 35 - <40 6 41.9, 73.5 >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.



В

С

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: Invasive Species Survey



Tier 1: Early detection	ı/ Rapid response			sence		GPS	
		NE	SE	SW	NW		Presence
Microstegium vimineum	Japanese stiltgrass						X: yes
Ranunculus ficaria	Lesser Celandine						_
) Black Swallow-wort					= = ====	_
Butomus umbellatus (wetland	l) Flowering Rush						_
Heracleum mantegazzianum	Giant Hogweed						
Tier 2: Assess	as Needed			Plants		comments	
		NE	SE	SW	NW		# of Plants
Acer platanoides	Norway Maple		100				1: 1-10
Ailanthus altissima	Tree of Heaven						2: 11-50.
onicera japonica (vine	Japanese Honeysuckle						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						
Torilis sp.	Hedgeparsley						
Conium maculatum	Poison Hemlock						
Rhamnus cathartica	Common Buckthorn (sh	rub)					
Berberis thunbergii		rub)					
Alnus glutinosa	European Alder						
Dipsacus laciniatus	Cut-leaf Teasel			1			7
Elaeagnus umbellata	Autumn Olive (sh	rub)				· · ·	7
Lonicera maackii		rub)					7
Euonymus fortunei	Wintercreeper						7
Tier 3: Presence			# of	Plants		comments	
		NE	SE	SW	NW		# of Plants
Convallaria majalis (G-cover) Lily of the Valley						1: 1-10
) Crown Vetch				1 1		2: 11-50.
Eleutherococcus pentaphyllus	Five-leaf Aralia (sh	rub)	\neg				3: 51-100
) Japanese Pachysandra						4: 101-1,00
Philadelphus coronarius		rub)		\top			5: >1,000
Pulmonaria officinalis (G-cover							7
Rubus phoenicolasius	Wineberry						
Iris pseudacorus (wetland						, " "	7
Ornithogalum umbellatum	Star of Bethlehem						7
Viburnum opulus var. opulus	European Cranberry (shi	rub)					
Viburnum plicatum	Doublefile Viburnum (sh	rub)					
Tier 4: Widespread			Pre	sence		comments	
		NE	SE	SW	NW		# of Plants
Alliaria petiolata	Garlic Mustard						1: 1-10
Ligustrum vulgare		rub)				 -	2: 11-50.
L. morrowii, L. tatarica		rub)	\neg		\vdash		3: 51-100
Phalaris arundinacea	Reed Canarygrass		+		1 1		4: 101-1,00
Phragmites australis (wetland)	Phragmites		\top	1		***	5: >1,000
Polygonum cuspidatum	Japanese Knotweed	 	\top		 	· <u></u>	
Frangula alnus		ub)	\neg	1			7
Rosa multiflora		rub)		+	 		┪
Typha angustifolia, T. x.glauca	Cattails (wetland)	/	+	+	 		┑
Cirsium arvense	Canada thistle		+	+	 		
Dipsacus fullonum	Common Teasel		+	+	 	<u>. </u>	\dashv
	Dame's Rocket			+	+ +		\dashv
Hesperis matronalis			+	+	+ +	· · · · · · · · · · · · · · · · · · ·	\dashv
Vinca minor (G-cover)	Periwinkle						

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

<u> </u>	-	<u>.</u> [5	9	œ	7	6	ڻ ن	4	ယ	2	1	mod #			Ž S
Tree (size class 3 or above)	Strata	* IF EVIDENCE OF PEST OR PATHOGEN RECORD TOTAL SPECIES POPULATION IN THE PLOT EVEN										NONE PECSENT	species		Project Label:	CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Sheet
	# of stem infected	ATHOGEN											voucher#			Communi
	Severity (H,M, or L)	RECORD TO											clumps	*	PCAP	h Acceceme
		TAL SPEC											0-<1	size class (Proje	nt Drogran
***	* Write None Present if no evidence:	IES POPUL											1-<2.5 2.	size class (cm) woody stems >1m	Project Name O3B & 2015	· Enract Da
	ne Presen	ATION IN											2.5~5 5~10		BRAD	ed had ba
Beech (Fungus)	t if no evid	THE PLO											0 10-<15	'n	<u>r</u>	thorsens f
14	ence:												15 - <20	•	Plot No.: 33/08	laads etel
NON		THE NOT INFECTED											20 - <25 25		368	
Asian		WECTED							×				20 - <25 25 - <30 30 - <35	\dashv	Page	
Asian Longhomed Beetle	14/														Circle	>
ed Beetle													35 - <40 >40 (record each tree)	:	Cievaland Matroports Of	
		-			Ī										-	

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

Low = Only a few leaves or branches are exhibiting symptoms

High = more than 50% of leaffneedle cover exhibiting symptoms

Severity

Shrub (size class 2 or below including shrub clumps)

Hemlock (HWA)

Other Pest or Pathogen

Walnut (Thousand Canker)

CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface
Project Label: PCAP Project Name: 0286205

Plot No.:

Pot No.: 3365

MCNAB INDICES (degrees) + for up - for down [filled dut using gis program - do not fill out in field]

Page: 1 of 1

STANDING BIOMASS (required for emerges wetlands) collected in 0.1m clip plots (32x32 cm) from comers 1 and 3 in each intensive module. Required for VIBI-E score calculation. C?=check when collected	uired for emerge from corners I an score calculation	est wettland 3 in each C7=check	intensive	
collected			100	
Module #	C?	Corner	Comer	. 19
19 (4)				
ZZ III				G
		ï		

Hydroctomerable class (WETLANDS ONLY):	e e	
DEPRESSION	- - - - -	Conf
DIMPOUNDMENT D Beaver D Human	7	Conf=
oRIVERINE oHeadwater oMainstein oChannel	7	Conf
O SLOPE (ground water hydrology or on a physical slept	7	Conf
o FRINGING to Reservoir to Natural Lake	7	Conf
a COASTAL (specify subclass)	== 	Conf-
BOG (strongly, moderately, weekly ombrotrophic)	File	Confe
Ohio ETA VIBLEMOL Community Class (WETLANDS ONLY):	CCTN	
FOREST was amp forest to bog forest to forest seep	₽	Conf
n EMERGENT in marsh in wet meadow in open bog	7	Confi
o SHRUB or shout awaren or call sh, bog or call sh fen	= 14	Confi

tanks for microhabitat feetures. Select one or select two and everage the score MOTE: If mod falls on a slope automatically gets ranked based on steepness (1-3) to begin + any feetures present	ICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules o	
!! If mod falls on a slope automatically gets ranked based on steeping.	App	The state of second seconds and the seconds seem for one
ess (1-3) to begin + eny feetu		in con
es present		

Slope 2 = falls on slope -20 *

Slope 3 * maximum steepness that can be safely sampled ~45*

rdform Index (position within landscape) rrain Shape Index (site microtopographic shape)

+225 degrees +270 degrees +315 degrees

> Z E

WS

¥

+135 degrees

SE

LFI is angle of plot to the horror. TSI is angles formed by local slopes. For TSI measure angle from recorders eye to eye of person standing ~10 m

At aspect
+45 degrees
+40 degrees

ä

- feature is absent or functionally absent from 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
- 10 feature is present in moderate or greater amounts and of highest quality

0	8	w	ىر	modif					
		0.192		terner		50.1			
Q	Q	0	Ø	(count)	ixim	depth 3	lussocks	no. of	
Ø.	Ø	Q	Q	(count)	3.1633.1600	uplands (Tip-Ups) slepth 2	hummocks	no. of	
6	œ'	Q	8	(count)	10x E0m	depth 1	depressions	no. macro.	
18	6	الم	ی	(pount)	MG1X01	depth 1	(2-12 cm)	EW.d	A. W. W. W. W.
P	0	0	6	(count)	10x 10m	depth ((12→0cm)	c.n.d	1014 parameter 201
d	Ø,	Ø	Q	(oount)	101100	depth I	×40m	cwd	Card - code of pages and harmings on an An
Ŋ	ຍ	ىرو	ىو	(rank)	10x10m	depth I	interspers.	microhab.	
-			-	(rank)	10x19m	SLOPE		microhab.	

corresponding space. (4 dots per gnd square)	readings per module facing N. S. E. W. Place dot count in	CHOWN COVER (DENSIOMETER), Male 4
	III JEW	0

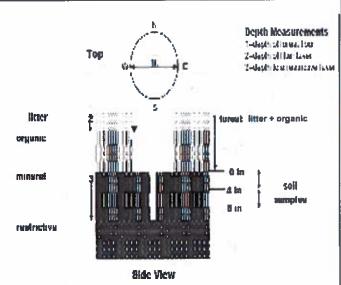
COV	/ED	BY	STR	ATA

AOTER OF AUGUS	
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.</p>



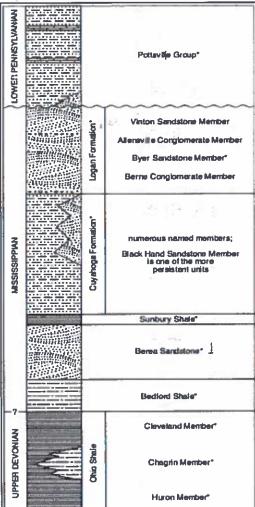


FIGURE 3-20.—Generalized section of Upper Devoman Missesppian, and Lower Pennsylvanian formations in northeastern Ohio Asteriaks indicate units that are fessible town. This composite section represents about 400 meters of rock exposed across the area. The section is not to earlie but the thicknesses indicated are prosented. The term "Waverly" is used in the older literature to refer to Missesppian rocks in Ohio. Some geologists use the European term "Carboniferous," which encompasses the Mississppian and Pennsylvanian Periods of the U.S. Many units have been assisted 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 widesprand 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.

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Blomass Data Sheet 6g
Project label: PCAP Project Name: 0265005

(Cityreland Metroparks

Page: 1 of 1

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

Soil pit module # ____ (one per entire plot)

20 cm 6 cm matrix color matrix color redex features** oxid roots hydr. cond.*** texture* exture* axid roots %mottle **smottle** edox features** ottle color office color SMD

refer to texture classes on reverse side

hydro. cond.***

I S M D

COVER BY STRATA

×

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

astings, middens) otes: include evidence of earthworms (worms, indundated S-saturated M-moist D-day

mod 3: Warms, costing imoda. Costings produt

hood: castings Present

08 4.0

mod 9: Castings
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

Depth to rest, Layer: Parent Material:	Depth to rest, Layer: Parent Material: DEALWAGE:	Depth to rest. Layer: Parent Material: DRAINAGE Excessively dr. Somewhat excessively Well drained Moderately well dr. Somewhat poorly dr. Very poorly dr.	Soil Collection Modul Herizao (A. B. C) 2.3.8,9 composited Web Sull Servey Informations Soil Series Type: Soil Series Source Ohio Soil Survey Landform type:	A.B.O
	DRAINAGE*	Excessively dr	Depth to rest. Layer: Parent Material:	

SOIL DEPTH 0.1 cm in cent record as >30	SOIL DEPTH MEASUREMENT: Measure to the nearest 0.1 cm in center of intensive modules. If >30.5 cm, record as >30	IREMENT: I	Measure to fules. If >3	the nearest 0.5 cm,
modil	l litter+ organic depth	2 litter depth (cm)	water depth (cm)	depth sat
ىر	٥.ه	0.2	Ø	Ø
V	2	20	Q	a

	6	C	17
(NGOO! - tuengy)	percent	(Each ≤ 100%)	percent
Histosol	1	Coarse Woody Debris***	1
Mineral Soil	99	Fine Woody Debris****	3
Gravel-Cobble*	1	Litter	ъ
Boulder**	_	Duff (Ferm.+ Humus)	L
Bedrock	0	Bryophyte- Lichen	_
Gravel-Cobble = 1/16-10	1/16-10"	Water	1
u 01 <= sapinog.	s	Bare Soil	2
*** >5 cm in diameter	neter	RoadTrail	(
	**** <5 cm in diameter	Other	y

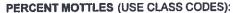
Strata	Height Range (m)	Istal Cover (%)
ig R	5.0.1	78
Shrub	0.2 2	28
Herb	0 .5	88
(Floating)*	٠,	1
(Aquatic)*	٠,	
" rooted and to	rooled and loating or sightly emersed	ed.
" submerzed,	" submersed, most plant mass below surface SEE BACK OF PAGE FOR TYPICAL STRATA	v surface L"STRATA

o Deer	u Gravel	Bootley unsanctioned	Hiking sanctioned	n Bridle	All Purpose	Type %Cover	record type and cover for each	NONE TRAIL INFORMATION:
						OVET		

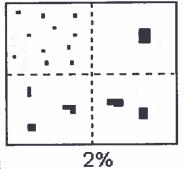
A size	1-3 x plot size	3-10 x plot size	10-100 x plot size	a > 100 x plot size	>600 x plot size	STAND SIZE	

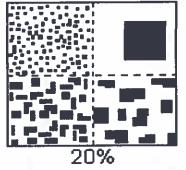
6aCM PCAP Soils_Crown cover_Landform_Standing Biomass_Data Sheet_ver 3.xts last revised 6/4/2012 ceh

Natural Resources Mangement FORM NR/2010-06a



Class	Code		Criteria: % of	
=11	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

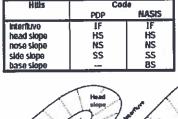
summi

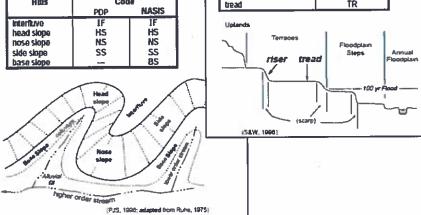
shoulder

harkslone

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

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





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

Code

SH

footslope toeslope	FS TS		
Su Sh Bs		Sh Bs (Su
	Fs Control	Fa	
pfi.cl., 1904; assigning Start Horse, 1		y	

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 o surface for extended periods during the growing season.

Code

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/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.