Do Not Sample on Wirely Day)

Project Label:	PCAP	Plot N	io: 338 Date Sampled: 8/3//15 Lead: CKA	
			Comment required if item answer is NO	Long slo Shirt heaven
Parking/Access outsid	le of Park Boundaries:	YN	If yes, write details in Comments section below	
Field journals comple		YN		- Shir
Site sketch made on 1		YN		٧ ١
Check cover page	X-axis Bearing of plot recorded	YN		T. '
	GPS coords. Recorded	YN	140,000	hears
	North direction recorded	YN		
	Photographs taken?	YN		
	Relocated Pins Mapped	Y N		
lot No., Date agreen		Y N		\neg
leader data complete		Y N		
	d in all Intensive modules	YN		7
Browse Level By Spe	cies	YN		
Woody stem quality o	COURT - SOURCE TO 1200 - ST	YN	Check every line and cross check with the Tree Cover Sheet	
nvasive plant quality		YN	110 110 110 110 110 110 110 110 110 110	
Ash trees mapped		YN	V-12/2	
	t/Pathogen Datasheet	Y N		
Cover by Strata? (con		Y N		100
	with matching plot #.	YN		AN .
Cross check 2010 infe		YN	Highlight any changes from 2010 information	
ouchers labeled on o	datasheet with initials and number	Y N		7
Vouchers labeled on o	collection bag	Y N		-
Pink flags removed		Y N	a not remove from pinned s	och - inter
Data sheet QA before	leaving site?	YN		4
Common equipment i		Y N		_
Data sheets scanned?			Enter date to left	
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Buffer Widths measu	red?	YN	No.	Fld Phat
Web Soil Survey		YN		100 1 100
Voucher Location	Refrigerator	Y N		Plot Phot C4913-0. Cast direct
# vouchers collected)	Press (#)		Enter number to left	east direct
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STATES.	Identified	Y N	J. 1/	
THE THE	Mounted	Y N		C49 15-20
443-447	Thrown away	Y	1 1	TC4916 - 30
			Coloman	/4017 .40
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□ Yes	Original GRTS point is sampleable		1 Leville	-(4918-5
□ No	Original GRTS point lands in a non-s	ampleshie s		
	Point falls in a water (i.e. river, ta		1 0 0 5 6	te4919-50
	Managed mowed area (i.e. golf co	The second secon	HUG 2/5T	[(feeing sou
	Paved area (i.e. perkinglot, road)	A.	100	
	Unsafe to sample (i.e. steep slope) Other			(south)
dditional Commen				249Z1-3
Additional Comment		14 142	· ·	-
ons ab in	L winter/spring 1	19/20 2	ing sleeves + heavy pents!	(Huoz)
	. , 0		Di Pento.	_ C49ZZ- #
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Data Quality Contr	ol 2015.xls last revised 6/10/2015 c	eh _	Leave flage on upper slope	/2011
			-d 13	(4923-1
				(seuth)
				C4925 -

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet GENERAL INFORMATION Plot No.: 3381 Plot Name: Hackelia Blues Minimum required fields in Bold and Underlined TAXONOMIC STANDARD vascul. TAXONOMIC ACCURACY SAMPLING QUALITY* PLOT NOT SAMPLED: Project Label: ichen Very thorough Effort Level: Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc. roject Name: 02 MS 2015 ate (mm/dd/yyyy): 8 /31/2015 nd date (if > 1 day) Level 4 (no nested corners sampled) Level 5 (nested corners sampled) □ Paved □ Slope □ Safety PCAP modera. how much effort put into sampling. Hurried plots subjective evaluation of may still provide good Moody Role** Pub Date Plot Jeader low o Other not smp 1998 GPS location in plot x=0 to 5, y=-1,0,+1) ■ Lat/Long □ UTM □ StatePlane If data not public why? o Fuzz 100m o Fuzz 250m o Fuzz 500m Check one: Public data Private Data Quadrangle: Berea LOCATION x = 0 y = 0 (base of plot x=0, y=0) Coordinate system: Source of coordinates

MAP Data Confidentiality: Plot placement: XGRTS Photo Nos.: C4912 Camera No.: Depth: (1-5): Coord. Accuracy: y m o it C Random D Stratified Random D Transect component Plot size for cover data: Datum: NAD83/WGS84 NAD27 Other (specify) ntensive modules: 2, 3, 8, 9 ocal Place Names andowner: CMP Systematic (grid) II Capture specific feature II Other *Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide Bennet Rd X-axis Bearing of plot: Take lots of photos of set up 33.81 A County: Luya hoga .05 Representative ■ deg 🗆 deg min Coord. Units ■ GPS (EDITIF MODIFIED) Veg Characterization: The Ounopy is dominated by hectares) TIMENT NOTES: Include Layout (any unusual shape details), Location (directions and landscape Bennett Rd there is an area where you can pull of the road. This area near the guard rail where the creek passes under the road is very close to the plot. Plot is a 20m of road along the creek. content), Rationale (why here), and Veg Characterization (description of community, Box Elder and Cherry with others intermixed. The shrub layer is dominated by Wingstem and Box Elder. The Rationale: GRTS W Edgerton Rd and Bennett Rd on the north side of dominants, strata, BROWSE). Additional notes in space on back. Ney: O(0,0) point Opoint point Wingstom, Multiflora Rose and herb layer is dominated by Eupatonium rugosum, Layout: 1XS ħ Al pins Sound on Slood plais No pins found along bunk or in photo taken, with direction Moreywort Ē Mustch med 5- Soil whaves (B) Clurulum Mutrupa Page 1 of 2 location of OVER

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet PCAP PCAP Project Label: PCAP	mmunity Assessment F	Program - Backg	- Background Data Sheet Project Name: O.2 M S 20\5	Sheet 5 20\5		Plot No.:	Plot No.: 3381	(Actumolitudumperty) Page 2 of 2
MONIETED NATTIBEEEDUF CLASS			TSIU	DISTIIRRANCES	7.0		,	
CODE (on senarate form)	Fire Confi		tvne*	severity** vrs ago % of plot	Vrs ago	% of plot	description	
			Human	+				
107			Natural	W		5	Fresion from	m creek "
COMMUNITY NAME:			Fire					
Mesic Floodplain Forest	+5		Cut	×	(2	7	
	¥		Other	(4)	250	200	EAB	
HOMOGENEITY			ol=J**	w, ML=med lo	w. M=med	MH=med	**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high	ry high
- Homogeneous - Compositional	Compositional trend across the plot		Curren	Current Land Use: CMP	ZWP	30£ 10-7-1	2-2-15	
Conspicuous inclusions alregular/pattern mosaic	n mosaic		Forme	Former Land Use:				-
	HYDROLOGIC REGIME*	GIME*						
	□ Upland (seldom flooded)	0	□ Intermittently flooded	looded				
SALINITY*	□ Intermittently/scasonally saturated		Semipermanently flooded	tly flooded				
- Saltwater	(scidom flooded)	0	- Permanently flooded	ooded				
a Brackish	a Permanently/Semipermanent, saturated		Tidal/Seiche flooded daily	ooded daily				
o Fresh	(dry <1/yr, seldom flooded)	25	ridal/Seiche fl	n Tidal/Seiche flooded monthly				
(n/a)	Occasionally flooded (<1/yr)		ridal/Seiche f	D Tidal/Seiche flooded irregular				
	a Temporarily flooded		(e.g. wind, storms)	rms)				
(by default unless plot is a wetland)		10	a Unknown		4		Ô	
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.) The stand is un-everyaged. The plot is very lew quality with 164 non-natives present. The center	ess of plot to the stand, succes	ssional status, maturity	y, etc.)	10 to	en-nat	TVES	gresent. T	ne center
line runs right through	the creek both	am, This a	red 15	Compe	sed of	生	rent specie	s than the
upper terrace, some lar	ge thees are bo	adly enoded	Furt	523 - 43	/ Ne	s alm	ost assure	d. The
upper terrace is full of	thorny plants o	and hard t	o move	Uhrough	. EA	3 has	had a by	a impact
on the canopy cover.	killing many la	inge Att	sh dre	SS. Mo	7	redeve	S Mere	uns +
meter back.		dan alaka	}	S E I A COL	- A		bagungudud	Tar. anolive

Cover Data Sheet Plot no.: 338 Plot area (ha): .05 Plot configuration: x 5 Plot area (ha): .05 Cover mod corner mod		1	1		150	14					36	Z H	Swithin noon.	Adable Poa		(]							8 4						
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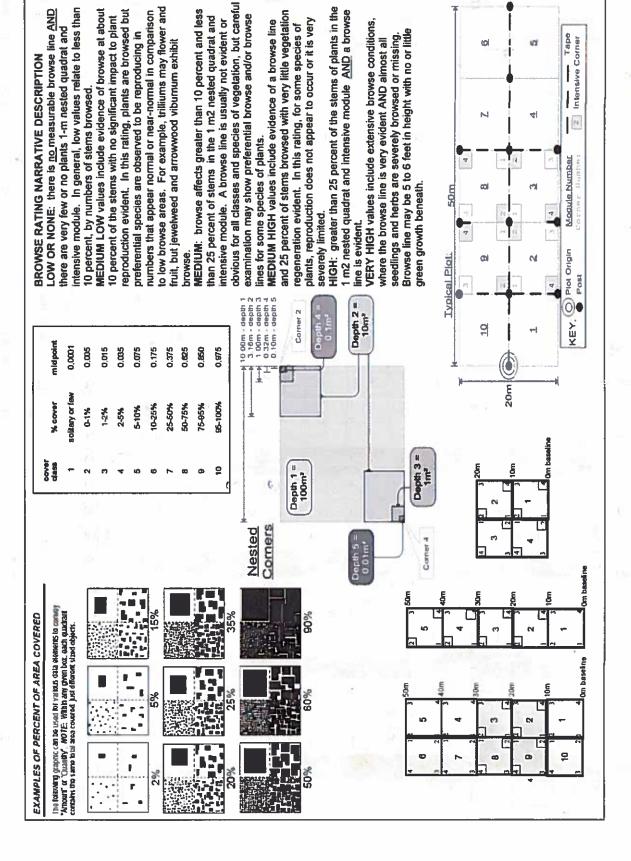
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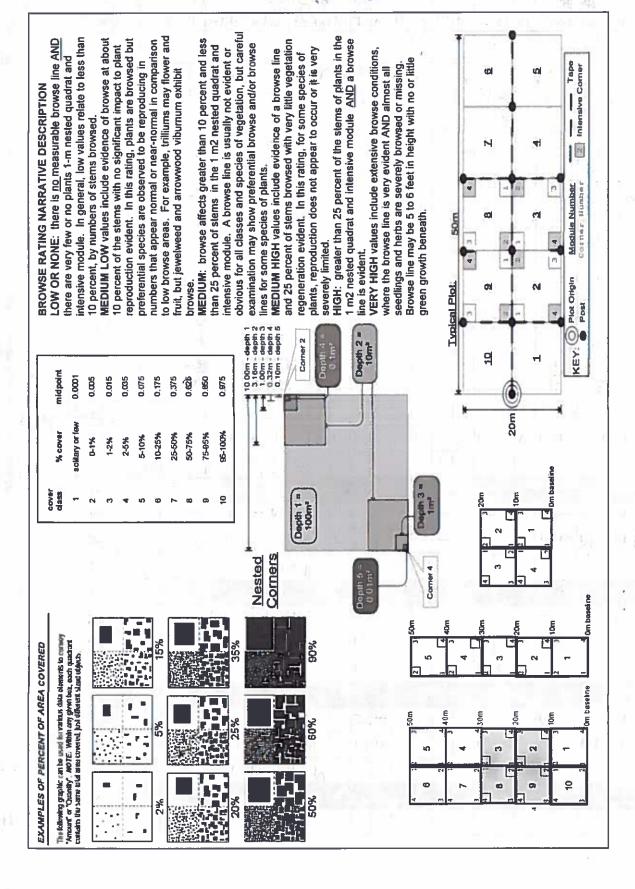
CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

Project Label: PCAP Project name: 02 MS 2015 Plot no.: 338

Total modules: Intensive modules: 4 Plot configuration: 1 x 5 Plot area (ha): . O S Page 2 of 3

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1	Joan'	_	GLECHOMA HEDERACEA	2 sp. 3RE	Elymus St ringerius		onia parvitlora	Vites sp. (seedling)	O -	Impatiens capensis	LONICERA JAPONICA	TARAXACUM OFFICINALE	SOLANUM DULCA MARA	MELTLOTUS SP	Leersia anomizoides	Toxicoder	Fraziones pennsylvanica	& Rubus occidentalis	ER'S MATRONAL	Acer regundo	-	Oxalis stricta	PRUNELLA VULGARIS VAR	V-	3r Species www	2 0 1	Com & Proc.	describe amount of browse per species over	Br = Browse Level. Use cover classes to		0.000
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Dargeen spelling Cleveland Metroparks Strata - Cov. entire plot Total modules: S H (F)(A) Br 3 N N 9 Rubus pensylvanicas Prunus scroting RAMUNCULUS ACRIS Sanicula areagria Asteraceae VIBURNUM OPULUS YAR OPULUS Viola 2 Glyceria Cratae au Sus sp. Acer sp. tolygonum sagittatum libes cynosbati DACTYLIS GLOMERATA TAKNOWN WOODDY OVICERY MORROW IT mulbe ARCTIUM. describe amount of browse per species over Tola Br = Browse Level. Use cover classes to V 4 6 7 1 1 7 RHAMIUS TRANSULA COM OTESSO hydroniner ides canadensis striate Species entire plot Seed hina MINUS Unit nown as ON Par 633 3 O Intensive modules: %unveg. ground (bare soil) Estimate for each %unvegetated open water intensive module: CKM %unveg. litter (bare litter) 506-80bhz **C4411** CK M HLI H CHAID JEE 10-2-1 Voucher# %open wate depth **∠**√ 8 corner mod corner 4 cov i depth Plot configuration: VQ0 ğ depth W H 3 N 2 W W F 8 cov i depth no: 338 Ş ğ depth N U 2 Ago cov i depth N 7 Plot area (ha): 05 ğ 8 T 7 mg cov depth N N ş N 9 ş collected for Juco 67 0

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

Project name: 02 M5 2015

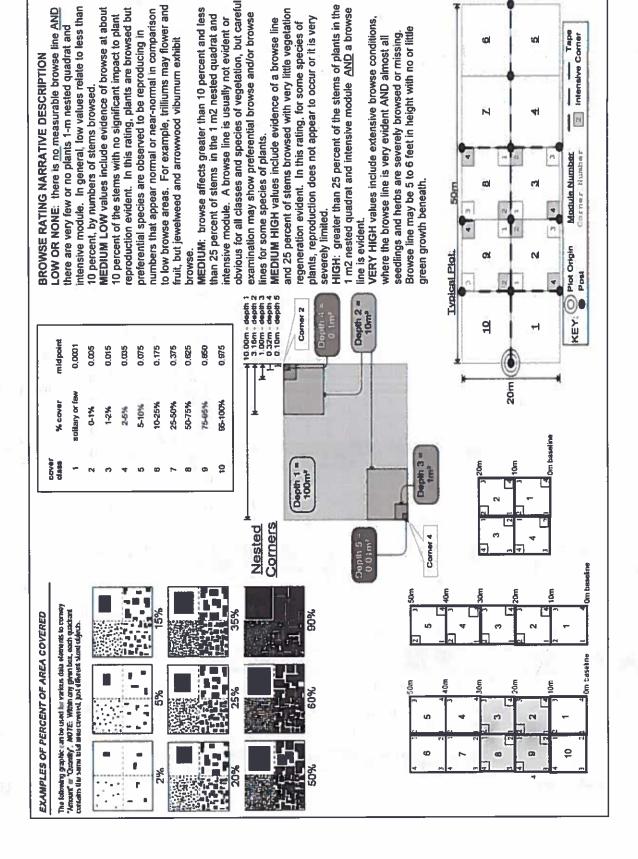
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Page 5 of 3

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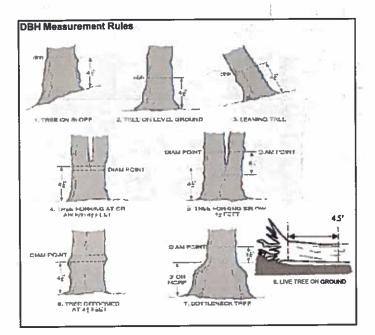
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CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Project Label: Project Label:		S S S S S S S S S S S S S S S S S S S													:					
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CLEVE Projec	% COVER	Strata -																		

Page

* not a standing not-present. 8 CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Purusso. Prunus serotina ROSA MULTIFLORA Princiseration Standing Dead **PACIFICM HOSP** Explain subsample (additional room on back) Carva Cordifforms Bubas accidentatis hethunocistsquinquetolia de granden Standing Lead ROSA MULTIFLORIA Pyrius per matus su runus serotina TRAINING CLINIAN litis cipania Toxicodunition radicars LGUSTRUM VULGARZ DNILLSEA litis ripana litis riparia **Handina** icer negundo ILLUSTRUM VILLGARE Project Label: PCAP voucher# .. W N I 8 0-1.4m # Sterns છ O or super % sub Project Name: 03/153015 7 clumps Ä Shrub size class (cm) woody stems >1.4m ጀ 1-<2.5 × 25-<5 Plot No.: 338/ X 주^10 10-<15 15-<20 20 - <25 Page: 25 - < 30 30 - <35 Seveland Netropaiks 35 - <40 5 423 >40 (record each tree) =

dead either



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.
- 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

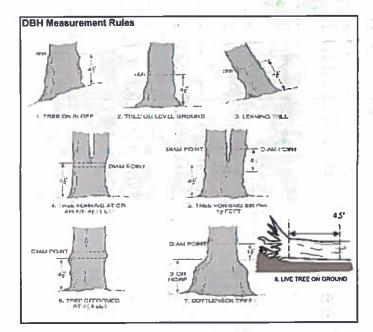
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ASH CANOPY BREAKUP CONDITION (for dead trees):

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

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

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet LONGER DANKEN **Bubus pensylvanicus** Vitts ripana Rubisacidioblis Our moundo Explain subsample (additional room on back) Princis Serotina Parthenocissus quinque folia ROSA MUTIFICIRA Stanting Dad ROSA MULTIFLORA Standing Daid Cratagusso. apartamento Toxicodendron radicans I GUSTRUM VULLARS der reamb Vitis riparia rataudis so CASTRIM VUICES Project Label: voucher# ۳. 0-1.4m # stems pesword 6 8 B Ø or super % sub Project Name: QUMS 3015 N shrub ロ size class (cm) woody stems >1.4m <u>₹</u> 1-<2.5 2.5~6 Plot No : 338/ 5-<10 10 - < 15 15 - <20 20 - <25 Page: \$2 25 - < 30 30 - <35 Cieveland Netoparks 35 - <40 ö >40 (record each tree) = 0 800



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.
- 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,

Section St. Vacchard Company St. C	Trainus sp								,	100										S	4	33	W	W	શ	2	Module
Baseline DBH H10, AND Code SEAS DROWN ASSIGNMENT ASSIGNMENT BRITTON AND CODE SEAS DROWN AND CODE SEAS DRO	38 c Voucher 8 (em) OBH 110 (Moodpeder Moodpeder Moodped	25	24	23	22	21	20	10	8	17	6	ᇙ	4	ជ	12	=	6	0	0	7	100			_			ID.
ASH ONLY ASH ONLY AND CONTROL OF THE CONTROL OF T	C. Voucher & Call, M. (an) DBH M. (b) Ash Conversed (cm) DBH M. (cm) DBH conversed (cm) D																			Francisso.	Fraxious so.	Fraxious so.	Fraxious so.	Taxinus.so.	Traxinusso.	rayinus so.	Species
DBH M. (cm) DBH M. (cm) DBH M. (cm) DBH M. (cm) DBH Condition holes (present who decider present who decider present (present present present (present present present present present (present present present present present present (present present (present present pres	DBH H. (0 Ash Chapter Committee							,												24.000						a.	
H @ Ash	Ht @ Ash Day & Each Day & Each Day & Each Day & State Day Day & State Day Day & State Day																	k.						,			Voucher #
ASH Only ASH On	Ash Character Character Control of Service Control																				26.5	21.7	309	385	- 22	35	
ASHORIW ASH	S Exit Epicomic Modes present holes present holes of the present holes o								49			1-1					00	أع	7	0	- B	0	-	л В		- <i>C</i>	
Baseline	Essetine Baseline																1	5	Ā	ᢗᠵ	5	5	5	ĊŢ	5	5	
Saseline Saseline	Baseline Baseline																2-10	flio		Gı	W	ຍ	S	Q	5	4	
Baseline	Baseline																JV	to ex		0	0	0	0	0	0	0	esent
												1983				Tav.					100	-					Woodpecker holes
	all ash tree					Maj			2.				Ba	selin	10		Y		/	1							

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Tier 1: Early detectio	n/ Rapid response	9 2	Pre	sence	ine Lan	GPS	3
THE EAST WELLOW	A London Control of the Control of t	NE	SE	sw	NW		Preser
Microstegium vimineum	Japanese stiltgrass	1,10					X: yes
Ranunculus ficaria	Lesser Celandine	7	1	$\overline{}$		····	
	e) Black Swallow-wort				\vdash		\neg
<u> </u>	d) Flowering Rush	1		+	, ,	<u> </u>	\neg
Heracleum mantegazzianum	Giant Hogweed	+			9		
Tier 2: Assess			# of	Plants		comments	
		NE	SE	SW	NW	Carlina VIII.	# of Pl
Acer platanoides	Norway Maple		- Service				1: 1-
Ailanthus altissima	Tree of Heaven				=1		2: 11-
Lonicera japonica (vine				-		.	3: 51-
ythrum salicaria (wetland		\top					4: 101
	r) Bishop's Goutweed	\top	\top	1			5: >1
Celastrus orbiculatus (vine		\top					
Torilis sp.	Hedgeparsley	1	1.	1			
Conium maculatum	Poison Hemlock			1	 		
Rhamnus cathartica	Common Buckthorn (shrub) i	1			**	\neg
Berberis thunbergii	Japanese Barberry (shrub	_					\neg
Alnus glutinosa	European Alder	+					\neg
Dipsacus laciniatus	Cut-leaf Teasel	+	1	1		 	_
Elaeagnus umbellata	Autumn Olive (shrub	1	1	+			\neg
Lonicera maackii	Amur Honeysuckle (shrub	_	†	1			
Euonymus fortunei	Wintercreeper	1	\top				
Tier 3: Presence			# of	Plants		comments	
		NE	SE	sw	NW		# of Pl
Convallaria majalis (G-cove	r) Lily of the Valley						1: 1-
Coronilla varia (G-cove		1	\top				2: 11-
Eleutherococcus pentaphyllus	Five-leaf Aralia (shrub)					3: 51-
	r) Japanese Pachysandra					 :	4: 101-
Philadelphus coronarius	Mock Orange (shrub	5)					5: >1
	r) Lungwort	1					11
Rubus phoenicolasius	Wineberry	\top					
	d) Yellow Flag Iris	\top	1	\top			_
Ornithogalum umbellatum	Star of Bethlehem	\top				i i	Т
Viburnum opulus var. opulus	European Cranberry (shrub)	122				
Viburnum plicatum	Doublefile Viburnum (shrub	_					
Tier 4: Widesprea			Pre	sence		comments	
		NE	SE	SW	NW		# of Pl
Alliaria petiolata	Garlic Mustard	- 70					1: 1-
Ligustrum vulgare	Common Privet (shrub)					2: 11-
L. morrowii, L. tatarica	Bush Honeysuckles (shrub	_					3: 51
Phalaris arundinacea	Reed Canarygrass	1		1			4: 101
Phragmites australis (wetland							5: >1
Polygonum cuspidatum	Japanese Knotweed	\top	\top	1			
Frangula alnus	Glossy Buckthorn (shrub)	\top	1			•	_
		_	1	 			
	Multiflora Rose (shrub)						
Rosa multiflora		+-	•	+			\neg
Rosa multiflora Typha angustifolia, T. x.glauca	Cattails (wetland)		*				\exists
Rosa multiflora Typha angustifolia, T. x.glauca Cirsium arvense	Cattails (wetland) Canada thistle		•				
Rosa multiflora	Cattails (wetland)						

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

	10	စ	8	7	6	5	4	ω	2		mod #		CLE
				E						1 None Present	species	Project Label:	CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Sheet
		·									voucher#	P	Communit
			12								# shrub clumps	PCAP	y Assessme
				8	4						size class (cm) woody stems >1m 2 3 0-<1 1-<2.5 2.5-<5	Projec	nt Program
											:m) woody ===================================	ct Name:	Forest
:			100	T							stems >11 3 2.5~5	Project Name: 03/MS2015	Pest an
											m 4 5~10	305	d Patho
											5 10 - <15		gens D
											6 15 - <20	Plot No.: 338	ata Shee
											7 20 - <25	1865	er l
									S.W.	,	8 25-<30		
			100								9 30 - <35	Page:	اھ
											10 35 - <40	-	Chan
	1000										5 6 7 8 9 10 11 10 - <15 15 - <20 20 - <25 25 - <30 30 - <35 35 - <40 >40 (record each tree)	of.	(Classiand Matromata
						2000						-	

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

Shrub (size class 2 or below including shrub clumps)	Tree (size class 3 or above)	Strata
ling shrub		# of stem Infected
4.4		Severity (H,M, or L)

Asian Longhorned Beetle	_Beech (Fungus)	STATE OF THE PARTY
Asia	ch (Fungus)	Bee

Severity
High = more than 50% of leaf/needle cover exhibiting symptoms
Medium = Less than 50% of leaf/needle cover exhibiting symptoms
Low = Only a few leaves or branches are exhibiting symptoms

à

STANDING BIONASS (required for emergent wellands) collected in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 3 in each intensite in 0.Im clip plot (2x32 cm) from corners 1 and 0.Im clip plot (2x32 cm) from corners 1 and 0.Im clip plot (2x3	CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface Project Label: PCAP Project Name: 03/W5305
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SS (F	ND METROPARKS Plant Co Project Label: PCAP
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	Inity Assessment Program - Pla Project Name: QBMS 2015
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Plot No.: 338

(Constant States parts Page: 1 of 1

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STANDING BIOMASS (required for emergent wellands) collected in 0.1m.clip plots (32x32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C7-check when collected	tired for emergen from corners 1 and score calculation, (t welland 3 in each 27=check	s) collected intensive when	
Module #	C7	Corner Corner	Comer	
-				
		1		

□ 1€

THLLED OUT USING GIS PROGRAM - DO NOT HILL OUT IN FIELD] McNAB INDICES (degrees) + for up - for down

CLASSIFICATION		
TI - excellent, g Fit and Confidence		
Ivdroecomerahic class (WETLANDS ONLY):		
DEPRESSION	7	Conf-
IMPOUNDMENT to Beaver to Human	=======================================	Conf
RIVERINE offeadwater of Mainstern of Channel	<u>₹</u>	Conf.
SLOPE (ground water hydrology of on a physical sloph	F	Conf=
FRINGING to Reservoir to Natural Lake	Fire	Conf=
COASTAL (specify subclass)	- P	Conf=
BOG (strongly, moderately, weekly ombrotrophic)	7	Conf=
Nio EFA VIBI Flant Community Class (WETLANDS ONLY):	KYINI	
FOREST - swamp forest - bog forest - forest susp	Fire	Conf
EMERGENT a marsh a wet meadow: a open bog	<u>=</u>	Conf*
SHRUB a shrub swamp a tall sh. bog a tall sh. fan	File	Conf*

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

ope 1 = sight elevational grade across module (hill) whe for microhabital features. Select one or select two and everage the score.NOTE: If mod falls on a slope autom Slope 2 = falls on slope -20 * ically gets ranked besed on shepness (1-3) to begin + any features present Slope 3 = maximum steepness that can be safely sampled ~45"

- 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

feature is present in moderate or greater amounts and of highest quality

		5	4	ß	શ	#bom						
						соптег						
		0	0	0	0	(count)	lxlm	depth 3		lussocks	no. of	
		0	0	0	0	(count)	3.16x3.16m	depth 2	uplands (Tip-Ups)	hummocks	no. of	
		ย	0	0	w	(count)	J0xI0m	depth 1		depressions	по пъсто.	
		G	Ч	6	6	(count)	10x10m	depth t		(2-12 cm)	e.w.d	c.w.d cour
		-	0	-	0	(count)	10x10m	depth 1		(12-40cm)	c.w.d	X for pieces with a
		0	0	0	0	(count)	10/1/01	depth I		>40 cm	cwd	c.w.d court for pieces with minimum 1m length
		Ø	e	ຄ	શ	(rank)	10x10m	depth 1		interspers.	microhab.	3
		ટ	2	67	શ	(rank)	10x10m	SLOPE			microhab.	

+135 degrees +90 degrees

SE

+45 degrees Al aspeci

H

LFI is angle of plot to the horizon. TSI is angles formed by local slopes. For TSI measure

z

+225 degrees +180 degrees

WS ₹

angle from recorders eye to eye of person standing -10 m

away

+270 degree +315 degrees

¥.

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

Terrain Shape Index (site microtopographic shape) andform Index (position within tendecape)

100	3 8 4	(3)	un .	Considerate and the control of the second
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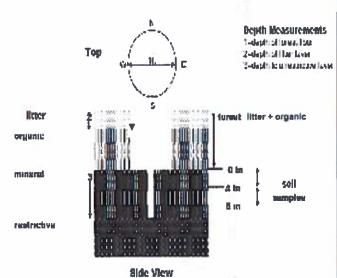
PHOTE: bussock and hummocks are counted in BOTH nested quadral corners but counts are aggregated.

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.



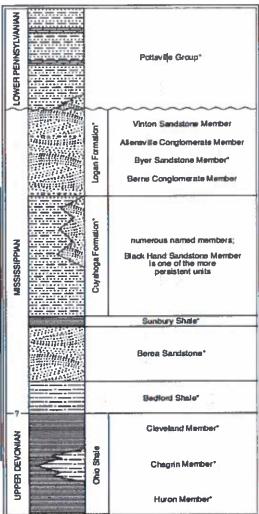


FIGURE 3-20.—Generalized section of Upper Devenan Missasippian, and Lower Pennsylvanian formations in northeasters Ohio Asteriaks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to each, but the thicknesses indicated are proportional. The term "Waverly is used in the older literature to refer to Missasippian rocks in Ohio. Some geologists use the European term "Carboniferous," which encompasses the Missasippian and Pennsylvanian Periods of the U.S. Many units have been named within the Cuyahoga Formation, but most units are local and camnot be traced over great distances. The Black Hand Member is a spectacular missave sandstone that is faint widespread but discontinuous. See Hyde (1953), Horver (1960), and Calina (1978) for more information on Missasippian rocks in Ohio. See figure 3-16 for explanation of rock types.

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a
Project label: PCAP Project Name: 03/053015

Cicretand Metroparks

Page: 1 of 1

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

Soll pit module # ____ (one per entire plot)

					20 cm							E .
redox features**	fexture*	oxid roots	%mottle	mottle color	matrix color	hydr cond ***	redox features**	texture*	axid roots	%mottle	mottle color	matrix color
~		4				S -	~		4	:		
z		z				M	z		z			
							_					

refer to texture classes on reverse side hydro. cond ***

I S M D

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

lotes: include evidence of earthworms (worms, indundated S-salurated M-moist D-day stings, middens)

MODS: 8 Costings present MOD4: Norw present MOD 3: Costings present MOD a Worms, costings and middens 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

Web Sail Series/Type: Soil Seri		out of		Comment poorly of
9 0		well dr	K	Well drained
Web Sail Survey Informations Soil Series/Type: Soil Series Source: Ohio Soil Survey Landform type: Depth to rest. Layer: Parent Material:		scessively	n Somewhat ex	Excessively dr.
Web Sail Servey Informations Soil Series Type: Soil Series Source: Ohio Soil Survey Landform type: Depth to rest. Layer: Parent Material:				MINAGE*
2,3,8,9 composited A Web Sall Servey Informations Soil Series Source: Ohio Soil Survey Landform type: Depth to rest. Layer:	Г	L		rent Material
2.3.8.9 composited A Web Sail Servey Informations Soil Series/Type: Soil Series Source: Ohio Soil Survey Landform type:				pth to rest. Layer:
2,3,8,9 composited A Web Sall Servey Informations Soil Series/Type: Soil Series Source: Ohio Soil Survey				ndform type:
2.3.8.9 composited A Web Soil Survey Informations Soil Scries/Type:			thio Sail Survey	il Series Source: C
2,3,8,9 composited A Web Sail Survey Informations				il Series/Type:
2,3,8,9 composited A			president	sb Soll Survey Lai
		>		.8,9 composited

Underlying Earth Surface*	h Surface*	Ground Cover	
(Sum = 100%)	percent	(Each < 100%)	percent
Histosol	İ	Coarse Woody Debris***	w
Mineral Sor	90	Fine Woody Debris****	<i>1</i> 1
Gravel-Cobble*	99	Litter	2
Boulder**	5	Duff (Ferm.+ Humus)	0-
Bedrock	*	Bryophyte- Lichen	W
• Gravel-Cobble = 1/16-10	1/16-10	Water	œ
• Boulder = > 10 in	5	Bare Soil	9
•••>5 cm in diameter	nda	Rond/Trail	U)
	meter	Other	- -

000000000000000000000000000000000000000	1 0 0 0	SOIL DEPTH 0.1 cm in cent record as >30 organ nod# organ	SOIL DEPTH MEASUREMENT: Measure to the neares 0.1 cm in center of intensive modules. If >30.5 cm, record as >30 1 liner-organic depth 2 litter water depth depth sat mode (cm) depth (cm) (cm) soil (cm) soil (cm) 4 0.3 0.3 3.5 -4 0.3 0.3 3.5 -4	JREMENT: Itensive mod 2 litter depth (cm) 0.2 0.3	Water depth (cm)	D.5 cm, depth sat soil (cm)	Sh (Floa	Strate Tree Shrub Herb (Floating)*	5.0. A 1.5. 5.0 0 - 1.5
		SOIL DE 0.1 cm in record as	PTH MEASU 1 center of in s > 30 1 liner- organic depth (cm)	2 litter depth (cm)	Water depth	0.5 cm, depth sat soil (cm)	Sh Tr. Sh (Floa		5.0. 7 (.5. 5.0

Other	Road/Trail	Bare Soil	Water	Bryophyte- Lichen	Duff (Ferm.+ Humus)	Litter	Fine Woody Debris****	Coarse Woody Debris***	(Each ≤ 100%)	Ground Cover
1-	(JI	9	60	W	0	N	14	w	percent	
TL.	20		101			CII			15	

cover B)	COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13	%:3, 8, 13
Strata	Height Range (m)	Total Cover (%)
Tree	5.0.4	73
Shrub	1.5.5.6	78
Herb	0-1.5	93
(Floating)*	.1	\ _
(Aquatic)*	٠ ر	1

Фен	Gravel	Bootleg unsanctioned	2 Hiking sanctioned	o Bridle	a All Purpose	Туре	record type and cover for each	TRAIL INFORMATION:
S	-					%Cover	each	£

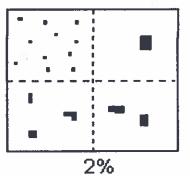
	□ < plot size	a 1-3 x plot size	3-10 x plot size	0 10-100 x plot size	a > 100 x plot size	a >600 x blot size	STAND SIZE	
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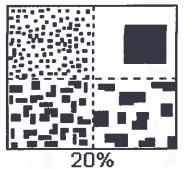
SEE BACK OF PAGE FOR "TYPICAL"STRATA
DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.

surface



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



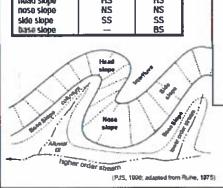


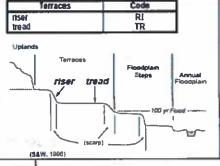
SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but 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

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., flor Hills) nose slope or MS.

Hitis Code
POP NASIS
Interfuve IF IF
head slope HS HS
nose slope NS NS
slde slope SS SS





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 of BS. This is best applied to transects or points, not areas.

Position	Code
SUMMIT	SU
shoulder	SH
backslope	BS
footslope	FS
toeslope	TS



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

UPLAND: Not a wetland, Very rarely flooded.

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

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

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

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

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

SEMIPERMANENTLY FLOODED (exposed <1/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.