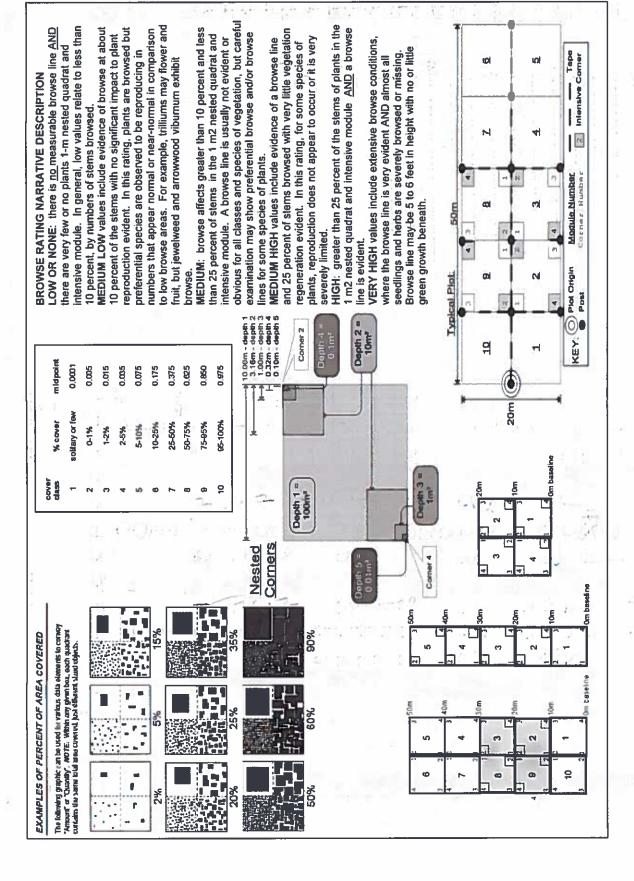
	ROPARKS Plant Community Asse	essment Program:	Quality Control Form
Project Label:	РСАР	Plot No	AND THE PARTY NAMED IN
W. 20			Comment required if item answer is NO
	de of Park Boundaries:	Y(N)	If yes, write details in Comments section below
ield journals comple		N	<u> </u>
lite sketch made on 1	T	(OX) N	
Check cover page	X-axis Bearing of plot recorded	N N	
	GPS coords. Recorded	N A	
	North direction recorded	N N	
	Photographs taken?	Y N	
100	Relocated Pins Mapped	N	
lot No., Date agreen	ent on all pages?	(Y) N	S
leader data complete	d all pages?	N	
over classes recorde	d in all Intensive modules	Y N	7
rowse Level By Spe	cies	Ви	
Voody stem quality o	ontrol check	(A) N	Check every line and cross check with the Tree Cover Sheet
nvasive plant quality		YN	NIA
sh trees mapped	5-15 i	(Y) N	
	t/Pathogen Datasheet	И	- 1782 Au
over by Strata? (con		N N	
	with matching plot #.	YN	NIA
ross check 2010 info		YN	Highlight any changes from 2010 information
	datasheet with initials and number	V N	N/A
ouchers labeled on a		YN	NIA
ink flags removed	onccuon bag	(X) N	NIT
Data sheet QA before	leaving site?	N CY	
Common equipment		(Y) N	7 - 1
Data sheets scanned?	etunico to tuo.	10	Enter date to left
	40	K	
inal data sheets scan		V N	Enter date to left
Buffer Widths measu	red?	Y N	
Veb Soil Survey	E 178 7	YN	
oucher Location	Refrigerator	YN	
# vouchers collected)	Press (#)		Enter number to left
NONE	Drier	YN	
MOINE	Identified	YN	
100	Mounted	Y N	
	Thrown away	YN	
/			21-34-227-6-3
GRTS point verifica	tion: Is plot sampleable?		77
Yes	Original GRTS point is sampleable	100	5-0-0
□ No	Original GRTS point lands in a non		ill in category below)
	D Point falls in a water (i.e. river.	lake)	4035y ess 533054354
	Managed mowed area (i.e. gels		ht-of-way)
	Paved area (i.e. parkinglot, road)		
	Unsafe to sample (i.e. steep slop Other	ж)	
Additional Commen	ts:		



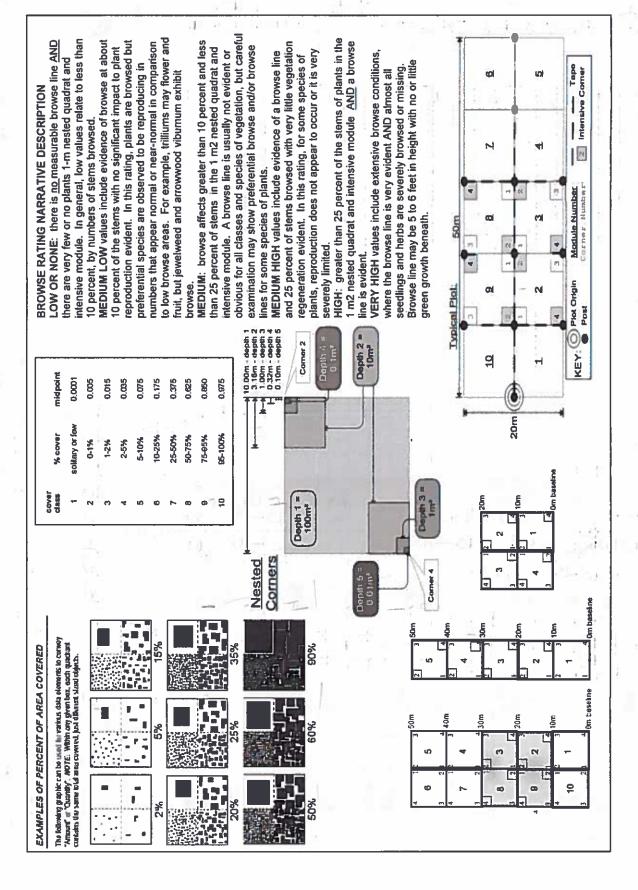
CLEVELAND METROPARKS Plant Co	CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	d Data Sheet Page 1 of 2
GENERAL INFORMATION	LOCATION	
	State: OH County: Cuyahoss	
Project Name: 02502015	angle: Charain	
	ames	**
Plot No.: 1675	Landowner: CMP	procision of the state of the s
Level 4 (no nested corners sampled)	Data Confidentiality:	NAME OF THE PARTY
■ Level 5 (nested corners sampled)	Check one: Public data Private Data	
Date (mm/dd/yyyy): O8 /06 2015	□ Fuzz 100m □ Fuzz 250m □ Fuzz 500m	000
End date (if > 1 day): / /	Reason:	GPS location
Party Role**	If data not public why?	Key: (0,0) point point with direction permanent posts
A. Cance Plot leader	Source of coordinates □ MAP ■ GPS	NOTES: Include Layout (any unusual snape details), Location (directions and landscape content), Rationale (why here), and Veg Characterization (description of community.
S. Eysenbach "	Coordinate system: Coord. Units	dominants, strata, BROWSE). Additional notes in space on back.
T. Cochran Crew	■ Lat/Long □ UTM □ StatePlane ■ deg □ deg min	Charty ×2
M. Geltsey Crew	□ Other (specify) ■ m □ ft □	•
	Datum: ■ NAD83/WGS84 □ NAD27	Cocation & Hoper 125 m west of
** Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc.	GPS location in plot x=0 to 5, y=-1,0,+1):	
PLOT NOT SAMPLED: GOther	x = O y = O (base of plot x=0, y=0)	the shadow take parking cirea.
□ Perm. water □ Paved □ Slope □ Safety	Latitude: 41. 38291	harce many just most of plat
SAMPLING QUALITY*	Longitude: 81 , 48324	of sound Just west of bio.
Effort Level: subjective evaluation of	Coord. Accuracy: of of +-3	Rationale -> CATS' PCAP EST.
ery thorough how much effort put into	GPS File Name: 1575A	
Accurate may still provide good	Plot size for cover data: (hectares)	Ves. Cheracterstics > Plat CII
o Humed data	X-axis Bearing of plot: [54] 0	The tot laws
TAXONOMIC ACCURACY	Depth: (1-5): 1	In the center of several drainages,
high modera, low not smpl	Intensive modules: 3.3.8.9 2 3 (EDIT IF MODIFIED)	Con Carlotter S and S and S
vascul. un/a	Camera No.: 3	Les Correctiones, con safer water
bryo	Photo Nos.: 245	obsumate the carpon. Several
lichen	Plot placement: wiRTS - Representative	
TAXONOMIC STANDARD	n Random n Stratified Random n Transect component	basswood also present.
Authority: G&C Pub Date 1998	0	
Minimum required fields in Bold and Underlined	*Definitions and values in CM PCAP FOM v 0 and CVS Field Guide	

CLEVELAND METROPARKS Plant Community	munity Assessment Program - Background Data Sheet	am - Backgroui	nd Data Sheet		15 (S)	(Clumium Muinimeter
Project Label:	PCAP	Project Name:	Project Name: ODSCOO(S	Plot No.: 1075	SLO	Page 2 of 2
MODIFIED NATURESERVE CLASS*			DISTURBANCES	(0)		
CODE (on separate form);	Fire Confe		type* severity**	yrs ago % of plot	description	1
<i>H</i>			Human H	CO070 +	rash	
			Natural	0 45301	EAB imod	4
COMMUNITY NAME:	1		Fire	2	-	
•			Cut			
Mixed Forest			Animal	C) (00% b	brawse	
HOMOGENEITY			**L=low, ML=med lo	**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high	, H=high, VH=very high	-
erHomogeneous a Compositional tra	Compositional trend across the plot		Current Land Use:	PARK		
Conspicuous inclusions a Irregular/pattern mosaic	mosaic		Former Land Use:	UNKNOW N	-	
	HYDROLOGIC REGIME*	**				
	a Upland (seldom flooded)	o Intern	a Intermittently flooded			
SALINITY*	E-Intermittently/seasonally saturated		□ Semipermanently flooded			
o Saltwater	(seldom flooded)	= O Permit	a Permanently flooded	3 2		
a Brackish	D Permanently/Semipermanent. saturated		o Tidal/Seiche flooded daily			
o Fresh	(dry <1/yr, seldom flooded)	Tidal/	n Tidal/Seiche flooded monthly			
Cpland (n/a)	□ Occasionally flooded (<1/yr)	o Tidal/	n Tidal/Seiche flooded irregular			
	n Temporarily flooded	(e.g.	(e.g. wind, storms)			
(by default unless plot is a wetland)		a Unknown	own	1000	-	
Additional notes & diagrams: (Representativeness of plot	s of plot to the stand, successional status, maturity, etc.)	status, malurity, etc	0			
Herbaceous layer consists of poison ing	consists of p	ni rosso	1, Speedw	speedwell, strawherry, and	hary, an	d a
suite et grastes	r sedges.					-
`	50 B STREET S					
Lots of broken glass	is throughout	of the plot	plot (
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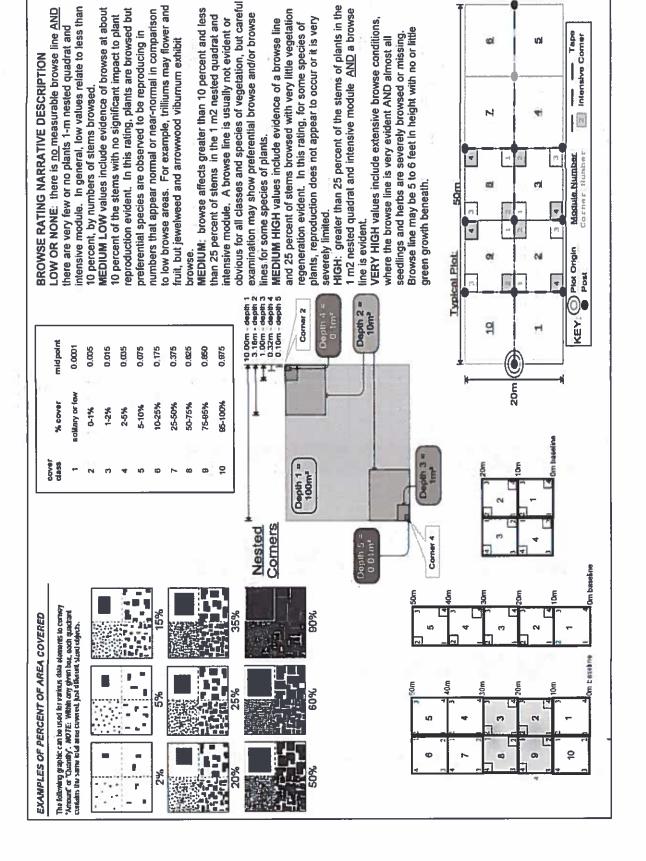
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Polyadnum s.p.	Eughymus obevatus	Emporters capersis	Arisaema mehallum	Poaceae sp. 1	Moss sp.	Legisla V	Rhuman	Alliana petiolata	Fractaria Virginiana	Coura coodiforms		Acer so.	6 B Henocissus aunqueblis	Solidago neositor	rack	Polygonum virginianum	Frazionis perkulvanica	Oxalis stricta	Degows	,		Carex swanti	Patentilla simplex	Toxicodera	Species			describe amount of browse per species over entire plot	Br = Browse Level. Use cover classes to	CATALON OF THE PARTY OF	N. William St. Co.		N C	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet
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																				İ					_	%unveg. litter (bare litter)	%unveg. ground (bare soil)	Summerated open water	_	Estimate for each			Intensive modules:	Program Specie
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	-	<u>ہ</u>) - 	E	<u>2</u>	2	يو	છ	رچ	<u>برا</u>	(<u>(</u>)	<u>ນ</u>	2	2	2	بع	U	2	بر	2	2		<u> </u>	2	cov depth	OI.	1	1	cov i depth	-	mer mod		<u>.</u>	er Da
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LEV	ELAND ME	LEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet	nent Program Speci	s Cover Data Sh		3	Page 2 of 3
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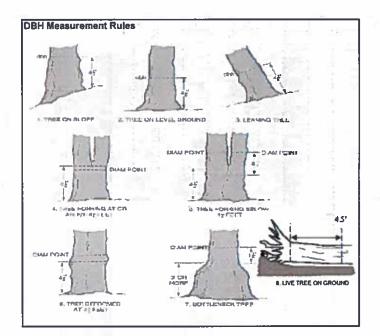
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Total modules:	3	Intensive modules: 3 Plot	W	Plot	Plot configuration:	gurat	on i		ű			<u> </u>	olot 2	rea	(ha):	0	Plot area (ha): , 03	100	
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CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Strata - Cov. entire plot % COVER Project Label: ₽, Carya Acer sauharm MAKIANS POINSY IVANICA tilla americana Princes scrattag corditornis Species ი Prensence of tree mod mod mod mod species (X) Project name: 02SC2015 Voucher # Plot no.: 1075 Page _

Page				4																	
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CLEVE Projec	% COVER Strata - Cov.	F																			

Project Label: PCAP Project Name: 0287, 2015 Plot No.: Explain subsample (additional room on back):	PCAP	Pro	Project Name: 03 1 2015	S	25	Plot No.:	250		Page:	11 -	<u>o</u>	Sieveland Metroparks
mod # species c	oucher#	# stems % sub 0-1.4m or super browsed sample	# shrub	size class (cm) woody stems >1.4m	cm) woody st	stems > 1.4m 3 4 2.5-<5 5-<10	5 0 10-<15	6 15 - <20	7 20 - <25	25 - <	3	9 30 30 - <35 35
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S Fraxinus consulvanica	*:											
3 Rubus occidentalis			•								-	
3 Caryla cordiformis												



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.

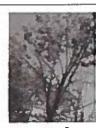
Record using the tally system from 1 to

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.



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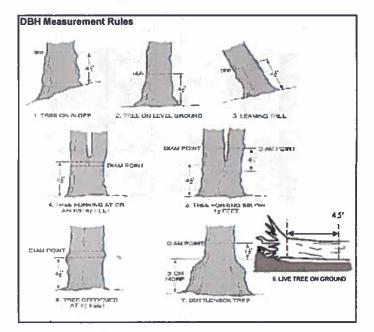
F

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 Explain subsample (additional room on back): Standing Dead Tilia amunicana Project Label: PCAP voucher# browsed # sterne 0-1.4m or super sample % sub Project Name: 035C 3015 clumps shrub # size class (cm) woody stems >1.4m 0-<1 1-<2.5 2.5~5 Plot No.: 1075 5-<10 10 - <15 | 15 - <20 0 20 - <25 Page: 2 25 - <30 30 - <35 으 Ocieveland Metropaits 35 - <40 ö 49 g >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.
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- 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.

• If Ash Condition scores 5 (dead) provide breakup score (A-E)
Count EAB exit holes 1.25m2 x 21.5m
Woodpecker and epicormic marked present (1) or absent (0)

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																							Fraxious pronsylvanica	Bulvania	Species	Project Label: PCAP	CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet
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				Map all ash trees ≥10cm in each module using Tree ID numb					X			100000000000000000000000000000000000000		D	Ó			Change intensive module numbers when necessary					1			Catalito	ONLY TREES > 10CM ONLY
				de using Tree ID nu			1		X		C(LI			2	Í			es when necessar					IK.			Page: 1 of Z	Do announcement

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Tier 1: Early	detection/	Rapid response			Pre	sence		GPS	
				NE	SE	sw	NW		Prese
Microstegium vimineum		Japanese stiltgrass							X: ye
Ranunculus ficaria		Lesser Celandine							\neg
Cynanchum louiseae	(vine)	Black Swallow-wort							
Butomus umbellatus		Flowering Rush	-						
leracleum mantegazzianu		Giant Hogweed							
	2: Assess a				# of	Plants		comments	
			- 3	NE	SE	SW	NW		# of P
Acer platanoides		Norway Maple			Т		- 11		1: 1
Ailanthus altissima		Tree of Heaven			- 11				2: 11
onicera japonica	(vine)	Japanese Honeysuckle	_						3: 51
ythrum salicaria	(wetland)	Purple Loosestrife							4: 101
Aegopodium podagraria		Bishop's Goutweed							5: >:
Celastrus orbiculatus		Asian Bittersweet							
Torilis sp.		Hedgeparsley							
Conium maculatum		Poison Hemlock							
Rhamnus cathartica		Common Buckthorn	(shrub)						
Berberis thunbergii		Japanese Barberry	(shrub)						
Alnus glutinosa		European Alder							
Dipsacus laciniatus		Cut-leaf Teasel		П		П			
laeagnus umbellata		Autumn Olive	(shrub)				-		
onicera maackii		Amur Honeysuckle	(shrub)						
Euonymus fortunei		Wintercreeper							
	Presence is	of Interest			# of	Plants		comments	
WATER STREET				NE	SE	SW	NW		# of P
Convallaria majalis	(G-cover)	Lily of the Valley							1: 1
Coronilla varia	(G-cover)	Crown Vetch							2: 11
leutherococcus pentaphy	llus	Five-leaf Aralia	(shrub)	<u> </u>			- 11		3: 51
Pachysandra terminalis	(G-cover)	Japanese Pachysandra	l						4: 101
Philadelphus coronarius		Mock Orange	(shrub)						5: >:
Pulmonaria officinalis	(G-cover)	Lungwort							
Rubus phoenicolasius		Wineberry						<u> </u>	
ris pseudacorus	(wetland)	Yellow Flag Iris							
Ornithogalum umbellatum		Star of Bethlehem		Γ					
Viburnum opulus var. opul	us	European Cranberry	(shrub)						
/iburnum plicatum		Doublefile Viburnum	(shrub)						w.f.
Tier 4: W	idespread :	and abundant			Pre	sence	1	comments	
				NE	SE	SW	NW		# of P
Alliaria petiolata		Garlic Mustard		\vdash	81.	<u> </u>			1: 1
Ligustrum vulgare		Common Privet	(shrub)	\vdash	_				2: 11
L. morrowii, L. tatarica		Bush Honeysuckles	(shrub)			_			3: 51
Phalaris arundinacea		Reed Canarygrass							4: 101
Phragmites australis	(wetland)	Phragmites				_			5: >:
Polygonum cuspidatum		Japanese Knotweed			\perp				_
rangula alnus			(shrub)						_
Rosa multiflora		Multiflora Rose	(shrub)		2.5				
Typha angustifolia, T. x.gla	иса	Cattails (wetland)			П				
		C							
Cirsium arvense		Canada thistle		_					
		Common Teasel							
Cirsium arvense Dipsacus fullonum Hesperis matronalis	·								

Note: For Ground-cover plants record "stem #" but in comment field describe # of colonies and patch size (5,M, L)

(G-cover) Periwinkle

Vinca minor

	10	9	œ	7	6	σı	4	ω	2		mod ≄			CLE
										None Present	species		Project Label:	CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Shee
											voucher#			t Communit
										¢u.	shrub	#	PCAP	y Assessme
											0 -	size class (cm) woody stems >1m	_ Projec	nt Program
											2 1-<2.5	m) woody	t Name:	Forest
											3 2.5-<5	stems >1r	Project Name: 035(3015	Pest an
											5-<10	3	05	d Patho
											5 6 10 - <15 15 - <20			gens D
											6 15 - <20		Plot No.:	ata Shee
						! 				VIII	7 20 - <25		0,5	ř
-											8 25 - <30			50
											9 30 - <35		Page:	<u>a</u>
											10 35 - <40		-	Clevela
				-							7 8 9 10 11 20 - <25 25 - <30 30 - <35 35 - <40 >40 (record each tree)		O,	Cleveland Metroparks
				10000									-	

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

Strata	of stem	Soverty (H.M. or L)	* Write None Present if no evidence:		
Tree (size class 3 or above)			Beech (Fungus)	<u>2</u>	Now Asian Longhorned Beetle
Shrub (size class 2 or below including shrub clumps)			_ 	Alak K	Nort Other Pest or Pathogen
			Walnut (Thousand Canker)	SAS	SIZE 10-21-15
				_	

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

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

Project Label: PCAP Project Name: 025, 305 STANDING BIOMASS (required for emergent wetlands) collected in 0.1m clip plots (32x32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C1=check when S

Plot No.: 1075

Cheveland Hetroparta Page: 1 of 1

McNAB INDICES (degrees) + for up - for down FILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD!

LFI

**IST

LFI is angle of plot to the horizon. TSI is angles formed by

recorders eye to eye of person standing ~10 m

Stean.

local slopes. For TSI measure angle from

CLASSIFICATION		
(FIT = excellent, g Fit and Confidence		
Hydrecomarzkie class (WETLANDS ONLY)		
DEPRESSION	7	Conf-
a IMPOUNDMENT to Beaver to Human	7	Conf-
ORIVERINE O Headwater of Mainston of Chanad		Conf
a SLOPE (ground water hydrology or on a physical slop)	======================================	Conf=
o FRINGING o Reservoir o Natural Lake	No.	Conf
a COASTAL (specify subclass)	File	Conf-
a BOG (strongly, moderately, weekly ombrotrophic)	Fire	Conf*
Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):	Š.	
a FOREST a swamp forest a bog forest a forest seep	1	Conf.
a EMERGENT a marsh a wet meadow a open bog	100	Conf=_
a SifRUB a shrub swamp to tall sh. bog a tall sh. fen	Fil*	Conf=

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

feature is absent or functionally absent from the wettand

ope 1 = slight elevational grade across module (hill)

Slope 2 = falls on slope ~20 *

- teature is present in the wetland in very small amounts or if more common, of low quality
- teature 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

					c.w.d coun	t for pieces with n	c.w d count for pieces with minimum 1m length		
		no. of	no. of	no, macro.	E.W.A	c.n/d	pwd	microhab.	microhab.
		tussocks	hummocks	depressions	(2-12 cm)	(12-40cm)	>40 cm	interspers.	
			uplands (Tip-Ups)	7					
		depth 3	depth 2	depth 1	depth (depth I	depth 1	depth I	SLOPE
		lxim	3.16x3.16m	JOX 10m	10x10m	10x10m	JOS I OTEN	10x10m	10x10m
mode	cerner	(count)	(count)	(count)	(count)	(count)	(ogunt)	(rank)	(rank)
		0	0	0	00	0	0	ટ	2
2		0	0	0	8	ಖ	0	દ્ય	2
Cu		0	0	0	12	æ	93	a	
-									

was for microhabitat features. Select one or select two and average the score. NOTE: If mod falls on a slope automatically gets ranked based on steepmess (1-3) to begin + any features present Slope 3 = maximum steepress that can be safely sampled ~45° Landform Index (position within tandacape)
Terrain Shape Index (site microtopographic shape) +225 degrees +315 degrees +270 degrees +135 degrees +1 %) degree: +90 degrees +45 degrees Z. WS Ä Z SE ٤

<	ω	* 2	*	Meduk	CROWN CO
			ಬ	z	CROWN COVER (DENSIOMETER) Nile 4 readings per module facing N. S. E. W. Place dol count in corresponding space. (4 dols per grid square)
	0	Ġ	0	cn .	METER) N S.E.W Pla per grid squan
	8	5	0	e	tale 4 nce dot coun e)
3.5	ø	_	2	*	1.5

PROTE: tussock and hummocks are counted in BOTH nested quadrat comers but counts are aggregated.

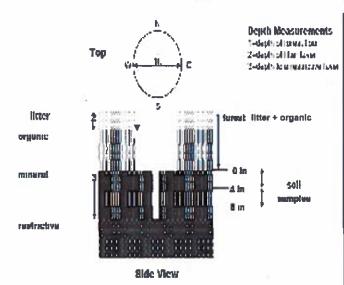
COVER BY STRATA

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

"Very tall shrubs are sometimes included in the tree stratum

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

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



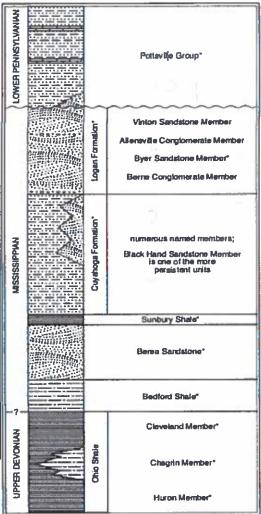


FIGURE 3-20.—Generalized section of Upper Devonian, Mississippian, and Lower Pennsylvanian formations in northeaseers Ohio Asteriaks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to acale, but the thicknesses indicated are proportional. The section is not to some geologists use the European term "Carboniferous," which encompasses the Mississippian and Pennsylvanian Pernods 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 spectamilar massive sandstone that is fairly widespread but discontinuous. See Hyde (1953), Hoover (1960), and Colina (1979) for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of rock types.

Citizenand Metroparks

Page: 1 of 1

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

Soil pit module # ____ (one per entire plot)

20 cm 2 CM matrix color hydro. cond *** edox features** rych cond *** xid roots callac затих сою xid roots dox features** mottle ottle color mortic ottle color I S M D S M D z

sefer to texture clauses on reverse side

** e.g. hydrogen sulfide odor, gleying, etc. *** Circle one:
|-indundated S=saturated M=moist D=dry otes: include evidence of earthworms (worms,

MoD 1: Castings present-

MOD a: Worms, costings, middens present

MOD 3 : Worms, costings midduns present

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

A STATE OF THE PARTY OF THE PAR	п	DEALWAGE. DESCRIPTION OF THE PROPERTY OF THE
--	---	---

	A COUNTY OF THE
	SOIL DEPTH MEASUREMENT: Measure to the nearest 0.1 cm in center of intensive modules. If >30.5 cm, record as >30
ı	MEA.
1	SURI
	EME
_	modu. N
	leasu des.
1	3.8
	30.5
١	cm,
	98

400-101	e un			
	3	2	1	modif
-	2.5	2.2		l litter+ organic depth (cm)
-	2.5	2.2	3.5	2 litter depth (cm)
Î	+	-	ı	water depth (cm)
1	-	-	l	depth sat

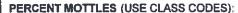
EARTH SURFACE & GROUND COVER	CE & GROU	ND COVER	-
Underlying Earth Surface	h Surface*	Ground Cover	
(Sum = 100%)	percent	(Each ≤ 100%)	percent
Histosol	1	Coarse Woody Debris***	4
Mineral Soil	90%	Fine Woody Debris****	S
Gravel-Cobble®	1	Litter	ת
Boulder**	1090	Duff (Ferm. + Humus)	
Bedrock	1	Bryophyte- Lichen	5
* Gravel-Cobble = 1/16-10*	- 1/16-10 ^a	Water	1
**Boulder => 10 in	is	Bare Soil	105
*** >5 cm in diameter	neter	Road/Trail	*
Company of the Company		Other	_

59,

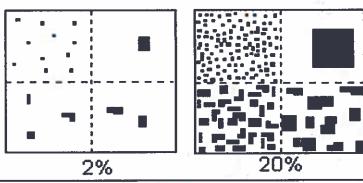
COVER BY STRATA estimate using midpol	COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13	ex:3, 8, 13 %
Strata	Height Range (m)	Total Cover (%)
Tree	S	88%
Shrub	5.5	339
Herb	5:0	68%
(Floating)*		
(Aquatic)*	Ŀ	
· rooted and ik	° rooted and floating or slightly emersed ** submersed, most plant mass below surface	w surface
GEE BACK OF	SEE BACK DE BACE EOB TRYPICAL STRATA	1

Dea	Gravel	Bootleg unsanctioned	Hiking sanctioned	3 Bridle	All Purpose	Туре	record type and cover for each	TRAME THE COLUMN
5.5		8.				%Cover	for each	W

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



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

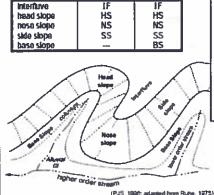


SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but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

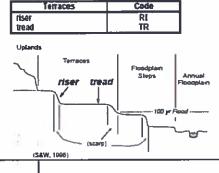
- 0= Organic
- 1= Loamy
- 2= Clavey
- 3= Sandy
- 4= Coarse Sand
- 9= Not measured make plot note

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., (for Hills) nose slope or NS.

NASIS

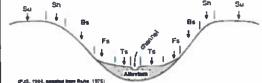


PDP



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.

Leastroll	0000
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.