CLEVELAND ME Project Label:	TROPARKS Plant Community Asse PCAP			: Quality Control Form © Cleveland Metroparks o: 3377 Date Sampled: 8/27/15 Lead: CKM
				Comment required if item answer is NO
Parking/Access outs	ide of Park Boundaries:	(Y)	N	If yes, write details in Comments section below
Field journals compl	ctcd	Ø	N	
Site sketch made on	1:3000 map?	0	N	
Check cover page	X-axis Bearing of plot recorded	©	N	
	GPS coords. Recorded	(3)	N	
210	North direction recorded	(2)	N	2 7715
3.11	Photographs taken?	(v)	N	
	Relocated Pins Mapped	(Y)	N	
Plot No., Date agree	ment on all pages?	(3)	N	
Header data complet	ed all pages?	(Y)	N	
Cover classes record	ed in all Intensive modules	Ŷ	N	
Browse Level By Sp	ecies	(v)	N	
Woody stem quality	control check	Ŷ	N	Check every line and cross check with the Tree Cover Sheet
Invasive plant quality	y control check	Y	N	NA
Ash trees mapped		0	N	2
Completed Forest Pe	st/Pathogen Datasheet	0	N	
Cover by Strata? (co	nfirm cover type)	②	N	
Soil samples collecte	ed with matching plot #.	Y	N	NA
Cross check 2010 in:	fonnation	(8)	N	Highlight any changes from 2010 information
Vouchers labeled on	datasheet with initials and number	(Y)	N	
Vouchers labeled on	collection bag	Q	N	
Pink flags removed		(Y)	N	
Data sheet QA before	e leaving site?	(Y)	N	
Common equipment	returned to tub.	Y	N	
Data sheets scanned?	Z-ADW			Enter date to left
Final data sheets scar	nned?			Enter date to left
Buffer Widths measu	ired?	Y	N	
Web Soil Survey		Y	N	
Voucher Location	Refrigerator	Y	N	123043
(# vouchers collected)	Press (#)			Enter number to left
VOUCHERS	Drier	Y	N	
CKM436-	Identified	Y	N	
439	Mounted	Y	N	
101	Thrown away	Y	N	

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

Pins found - Om Left, 10m middle om + com right

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet GENERAL INFORMATION vascul SAMPLING QUALITY* Minimum required fields in Bold and Underlined TAXONOMIC STANDARD TAXONOMIC ACCURACY Effort Level: PLOT NOT SAMPLED: end date (if > 1 day): Plot No.: Plot Name: Lost in the Very thorough roject Name: 0252 2015 ate (mm/dd/yyyy): 8 /27/ 2015 roiect Label: PCAP Accurate Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc. Geitae Level 5 (nested corners sampled) Level 4 (no nested corners sampled chran □ Paved □ Slope □ Safety modera. may still provide good how much effort put into subjective evaluation of Pub Date: Plot leader low not smp o Other 1998 Check one: XPublic data Derivate Data Plot placement: XGRTS Camera No.: Depth: (1-5): GPS location in plot x=0 to 5, y=-1,0,+1): Datum: ■ NAD83/WGS84 □ NAD27 Other (specify) ■ Lat/Long □ UTM □ StatePlane Source of coordinates

MAP Reason: o Fuzz 100m o Fuzz 250m o Fuzz 500m Data Confidentiality: Local Place Names: Winding Kiver Quadrangle: Chastin LOCATION Systematic (grid)

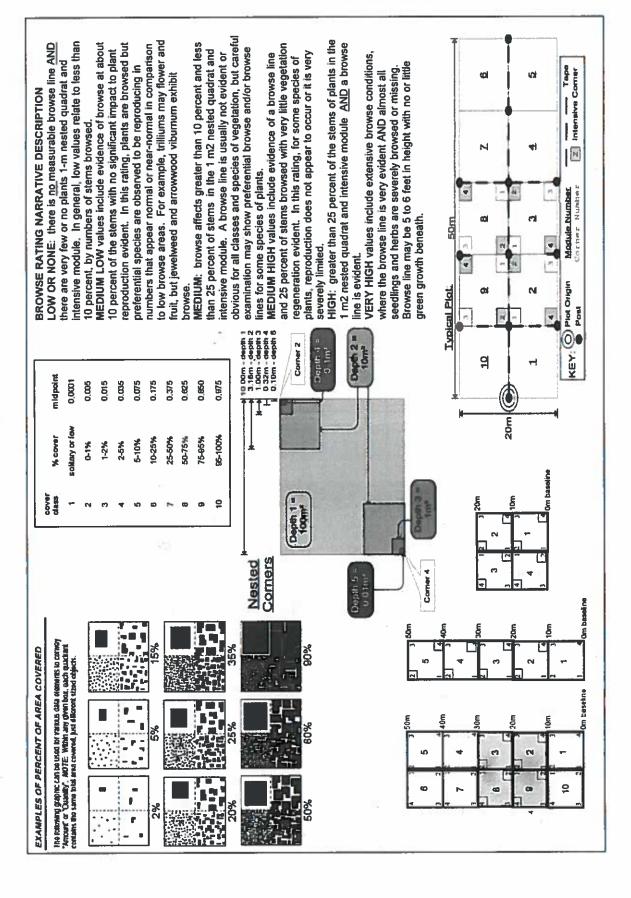
Capture specific feature

Other Random | Stratified Random | Transect component Intensive modules: 2, 3, 8, 9 1, 2, 3, 4 GPS File Name: Coordinate system: If data not public why? Coord. Accuracy: X m - ft andowner: CMP *Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide The state of X-axis Bearing of plot: 18 B F J (base of plot x=0, y=0) .04 County: Cyyahood ■ deg to deg min Representative Coord, Units ■ GPS CEDIT IF MODIFIES NOTES: Include Layout (any unusual shape details), Location (directions and landscape to reach river. Plot is ~200m south and slightly east of cul-de-saccontent), Rationale (why here), and Veg Characterization (description of community, dominated by Wingstem Ostrich Tern and Veg Characterization: Compy is dominated by Sycamore, Walnut, and Black Locust. The River Trail (a road not a trail). Walk between houses Argo podium. Location: Park at the |cul-de-sac on Winding Layout: 2×2 herb layer is dominated by Vitis, Multiflora rose and hickory. The herb layer is ominants, strata, BROWSE). Additional notes in space on back. Ney: O(0,0) point OFS location with direction location of (Clumburd Mula Page 1 of 2 permanent posts OVER

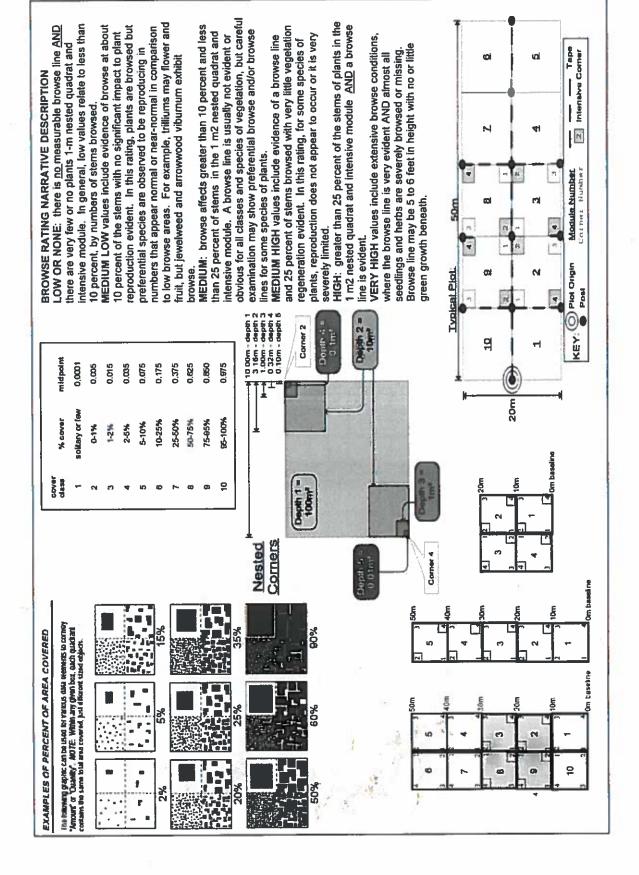
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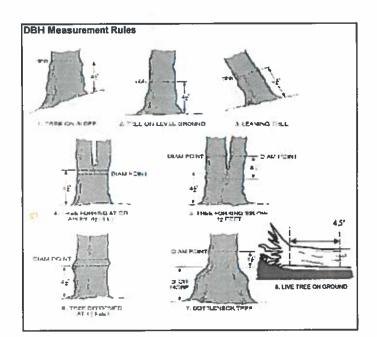


SRE_CM PCAP TREE Species Cover Data sheet.xls last revised 6/10/2015 jjm

Project Label	Project Label: PCAP Project name: 0280 2015 P	Project name	02	SC 2	I R	Plot no.:
% COVER Strata - Cov. entire plot	ra plot	Prensence of tree species (X)	Pom	Z 3	N mod	70 2
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3 S CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet B R Ø 퓛 8 Augians nigra Robinia pseudoracia Rubus occidentalis ROSA MULTIFLORA Explain subsample (additional room on back) ROSA MULTIFLORA Vitis riparia ROSA MULTIFLORA Standing Dead diplans nigra alabia qiaba Ulmus amuricana Carup ovata DNIICERA MORROWI litis ciparia Project Label: n PCAP voucher# # Sterns prowsed 0-1,4m S S S or super % sub Project Name: Q3SC 2015 shrub size class (cm) woody stems >1.4m 1-<2.5 2.5-<5 Plot No.: 3377 5-<10 10-<15 15 - <20 20 - <25 Page: 25 - < 30 30 - <35 ф 잌 O graveland Metropains 35 - <40 **=** 615 >40 (record each tree)



Woody Stem Deer Browse

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

Record using the tally system from 1 to 10













ASH CANOPY CONDITION

- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
- 2. Thinning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.
- Dieback: Canopy is thinning and some top branches exposed to sunlight are dead (have no leaves). Lower branches, not exposed to sunlight, die naturally and are not considered.
- 4. >50% Dieback: The canopy has less than half of the leaves that should be there and/or half of the top branches are dead.
- 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.

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

Time Species 2	
Tree Species ag class Voucher # CEM (cm) DBH (cm) DBH condition Change (cm) Change (cm) DBH condition Change (cm)	
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Tree ID. Species 2 C Voucher# (cm) DBH Ht @ Ash 'Dead	
	Woodpecker

CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet

Project Label: PCAP

Project Name: 035(30/5

Cteveland Metropanks	(4)
	V

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey

					_			Jote: For Ground-cover plants record
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							Dame's Rocket	
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							Canada thistle	əsnəvna muisti
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						(shrub)	Glossy Buckthorn	sunla alnus
							Japanese Knotweed	mutebideum cuspidetum
				C 1 - 100 -	- 3		29hragmites	(bneltew) silestrue setimgend
M	W						Reed Canarygrass	halaris arundinacea
/ 1						(spunp)	Bush Honeysuckles	. morrowii, L. tatarica
\ //				- 500		(spunp)	Common Privet	igustrum vulgare
Salv:X	AND TRANSPORTED IN SEC.						Garlic Mustard	
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3: >20				_		(shrub)	Five-leaf Aralia	A CONTRACTOR OF THE CONTRACTOR
S: 11-50°				_	_		Crown Vetch	
0T-T :T							Lily of the Valley	convallaria majalis (G-cover)
ztnel9 to #		MN	MS	35	NE			
13.00	comments	6.3	STUPL	10#			of interest	zi enese 19:EnelT
and the same of th		SALES SECTION	-	-	_	Production of the second	THE RESERVE OF THE PARTY OF THE	
							Wintercreeper	ienung fortunei
			-			(spunp)	Amur Honeysuckle Wintercreeper	onicera maackii nonymus fortunei
			-			(shrub)	Wintercreeper	onicera maackii uonymus fortunei
							Amur Honeysuckle Wintercreeper	atalledmu zungeseli il Josem erezino. ienutro fermenei
							Autumn Olive Amur Honeysuckle Wintercreeper	easinisal sussedlo Beagnus umbellata Gerena maackii Gerena fortunei
							Cut-leaf Teasel Autumn Olive Mur Honeysuckle Wintercreeper	nlnus glutinosa Sipsacus laciniatus Sipsagnus umbellata Sipsackii Sipsacus fortunei
			1			(shrub)	European Alder Cut-leaf Teasel Autumn Olive Amur Honeysuckle Wintercreeper	esonitulg zunld esonitulg zunl/ zutsinisel zusesdid stelledmu zungsesli insesm erezino.
			1			(shrub)	Common Buckthorn Japanese Barberry European Alder Cut-leaf Teasel Autumn Olive Amur Honeysuckle	runmsdfsertica Berbert thundergii seonitulg zunld susinisal zusesqiC stalledmu zungsesli sisasem seolino.
						(shrub)	lapanese Barberry European Alder Cut-leaf Teasel Autumn Olive Amur Honeysuckle Wintercreeper	musaluoam muinoci musaluose sunmedi senteris sinadrase seonisulg sunld susaliniose suosesell suppesen suoseselli masackii
						(shrub)	Poison Hemlock Common Buckthorn Japanese Barberry European Alder Cut-leaf Teasel Autumn Olive Amur Honeysuckle	orilis sp. Conium maculatum Conium maculatum Serberis cathartica Serberis thunbergii Alnus glutinosa Claeagnus umbellata Claeagnus umbellata Claeagnus umbellata Claeagnus umbellata Claeagnus umbellata Claeagnus fortunei
						(shrub)	Hedgeparsley Poison Hemlock Common Buckthorn Japanese Barberry European Alder Cut-leaf Teasel Autumn Olive Amur Honeysuckle	felastrus orbiculatus forilis sp. forium maculatum formuns cathartica ferberis thunbergii fulus glutinosa filaeagnus umbellata filaeagnus umbellata filaeagnus umbellata filaeagnus umbellata filaeagnus umbellata filaeagnus umbellata
						(shrub)	Bishop's Goutweed Asian Bittersweet Hedgeparsley Poison Hemlock Common Buckthorn Iapanese Barberry European Alder Cut-leaf Teasel Autumn Olive Amur Honeysuckle	Pegopodium podagravia (G-cover) Celastrus orbiculatus Totilis sp. Conium maculatum (wetland) Shamnus cathartica Serberis thunbergii Alnus glutinosa Slaeagnus umbellata Gesonicera maackii Conicera maackii
000'T< :9						(shrub)	Purple Loosestrife Bishop's Goutweed Asian Bittersweet Hedgeparsley Common Buckthorn Japanese Barberry European Alder Cut-leaf Teasel Autumn Olive Amur Honeysuckle	4-gropodium podagrania (wetland) 4-gropodium podagrania (G-cover) 5-elastrus orbiculatus 6-onium maculatum (wetland) 7-branus cathartica 7-branus cathartica 8-branus cathartica 9-branus cathartica 1-branus
						(shrub)	Japanese Honeysuckle Purple Loosestrife Bishop's Goutweed Asian Bittersweet Poison Hemlock Common Buckthorn Japanese Barberry European Alder Cut-leaf Teasel Autum Olive Amur Honeysuckle	ythrum salicaria (wetland) /egopodium podagraria (G-cover) /egopodium podagraria (G-cover) /elastrus orbiculatus /orilis sp. /onium maculatum (wetland) /hamus cathartica /hamus cathartica /hamus cathartica /hamus cathartica /hamus feliata
000'T-00T 'S			0			(shrub)	Tree of Heaven Japanese Honeysuckle Purple Loosestrife Bishop's Goutweed Asian Bittersweet Poison Hemlock Common Buckthorn Japanese Barberry European Alder Cut-leaf Teasel Autumn Olive Amur Honeysuckle	Alfanthus altissima (vine) (vine) (vine) (vine) (vine) (wetland) (wetland) (G-cover) (vine) (G-cover) (vine) (G-cover) (vine) (v
000't-001 :S		JAAN!				(shrub)	Japanese Honeysuckle Purple Loosestrife Bishop's Goutweed Asian Bittersweet Poison Hemlock Common Buckthorn Japanese Barberry European Alder Cut-leaf Teasel Autum Olive Amur Honeysuckle	Aifanthus altissima Lonicera Japonica Aegopodium podagranta Celastrus orbiculatus Conium maculatum Conium maculatum Manus cathartica Serberis thunbergii Jopsacus laciniatus Conicera maackii
000'T-00T 'S		MN	MS	35	NE	(shrub)	Morway Maple Tree of Heaven Japanese Honeysuckle Purple Loosestrife Bishop's Goutweed Asian Bittersweet Hedgeparsley Common Buckthorn Japanese Barberry European Alder Cut-leaf Teasel Autumn Olive Autumn Olive Awtur Honeysuckle	Acer platanoides Ailanthus altissima Authum salicaria (wetland) Aegopodium podagrana (G-cover) Celastrus orbiculatus (vine) Conium maculatum (wetland) Ahmus glutinosa Almus glutinosa Goricesa maackii Iseagnus umbellata Iseagnus umbellata Jonicera maackii
000't-001 :S	comments	AND REAL PROPERTY.		35		(shrub)	Meeded Morway Maple Tree of Heaven Japanese Honeysuckle Bishop's Goutweed Asian Bittersweet Poison Hemlock Common Buckthorn Japanese Barberry European Alder Cut-leaf Teasel Autumn Olive Amur Honeysuckle	Acer platanoides Altanthus altissima Altanoides (vine) Altanthus altissima Altanoides (wetland) Aegopodium podagrana (G-cover) Conium saliculatus (vine) Conium maculatum (wetland) Anus glutinosa Berberis thunbergii Alnus glutinosa Slosasuus umbellata Isaasgnus umbellata Isaasgnus umbellata Isaasgnus umbellata Isaasgnus umbellata Isaasgnus umbellata
000't-00t :S		AND REAL PROPERTY.	MS	35		(shrub)	Flowering Rush Morway Maple Tree of Heaven Japanese Honeysuckle Purple Loosestrife Bishop's Goutweed Asian Bittersweet Poison Hemlock Common Buckthorn Japanese Barberry Leuropean Alder Cut-leaf Teasel Cut-leaf Teasel Autumn Olive Mutumn Olive Amur Honeysuckle	Jet 2; Assess as Jet 3 ponics Jet 3 ponics Jet 4 ponics as Jet 5 ponics as Jet 6 ponics as Jet 6 poniculatus Jet 6 poniculatus Jet 8 poniculatus Jet 9 ponics as Jet 1 poniculatus Jet 1 poniculatus Jet 2 poniculatus Jet 3 ponics as Jet 4 poniculatus Jet 6 poniculatus Jet 7 poniculatus Jet
000't-00t :S		AND REAL PROPERTY.	MS	35		(shrub)	Black Swallow-wort Flowering Rush Morway Maple Tree of Heaven Japanese Honeysuckle Bishop's Goutweed Asian Bittersweet Poison Hemlock Common Buckthorn Japanese Barberry Common Buckthorn Leuropean Alder Cut-leaf Teasel Cut-leaf Teasel Autumn Olive Autumn Olive Mmur Honeysuckle	Arannchum louiseae (wetland) Jutomus umbellatus Jier Z; Assess as Acer platanoides Jier Z; Assess as Ji
oot-os :p		AND REAL PROPERTY.	MS	35		(shrub)	Lesser Celandine Black Swallow-wort Flowering Rush Morway Maple Tree of Heaven Japanese Honeysuckle Bishop's Goutweed Asian Bittersweet Medgeparsley Poison Hemlock Common Buckthorn Japanese Barberry Common Buckthorn Common Buckthorn Adenon Buckthorn Leson Hemlock Josepherse Barberry Autumn Olive Cut-lesf Teasel Autumn Olive	Ganunculus ficatia Cynanchum louiseae (wetland) Butomus umbellatus Acer platanoides Alfanthus altissima Celastrus aslicatia (wetland) Conicera japonica (wetland) Appendium podagrana (wetland) Conium aslicatia Conium asculatum (wetland) Serberis thunbergii Conium asculatum Conicera masculatus Sibeagnus umbellata Conicera masculatus
# Of Plants			WS	35	NE	(shrub)	Black Swallow-wort Flowering Rush Morway Maple Tree of Heaven Japanese Honeysuckle Bishop's Goutweed Asian Bittersweet Poison Hemlock Common Buckthorn Japanese Barberry Common Buckthorn Leuropean Alder Cut-leaf Teasel Cut-leaf Teasel Autumn Olive Autumn Olive Mmur Honeysuckle	Ganunculus ficatia Cynanchum louiseae (wetland) Butomus umbellatus Acer platanoides Alfanthus altissima Celastrus aslicatia (wetland) Conicera japonica (wetland) Appendium podagrana (wetland) Conium aslicatia Conium asculatum (wetland) Serberis thunbergii Conium asculatum Conicera masculatus Sibeagnus umbellata Conicera masculatus
stneid to!# 001-02 :p		AND REAL PROPERTY.	MS	# 04 # 04		(shrub)	Japanese stiltgrass Lesser Celandine Flowering Rush Flowering Bush Morway Maple Tree of Heaven Japanese Honeysuckle Bishop's Goutweed Bishop's Goutweed Purple Loosestrife Purple Loosestrife Bishop's Goutweed Asian Bittersweet Poison Hemlock Common Buckthorn Japanese Barberry Leuropean Alder Common Buckthorn Japanese Barberry Autumn Olive Cut-leaf Teasel Autumn Olive	Ganunculus ficatia Cynanchum louiseae (wetland) Butomus umbellatus Acer platanoides Alfanthus altissima Celastrus aslicatia (wetland) Conicera japonica (wetland) Appendium podagrana (wetland) Conium aslicatia Conium asculatum (wetland) Serberis thunbergii Conium asculatum Conicera masculatus Sibeagnus umbellata Conicera masculatus

4bCM PCAP Invasive species datasheet.xls last revised 6/10/2011 ceh Note: For Ground-cover plants record "stem #" but in comment field describe # of colonles and patch size (S,M, L)

Natural Resoures

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

Strata	# of stem Severity Infected (H,M, or L)	* Write None Present if no evidence:	
Tree (size class 3 or above)		Now Beech (Fungus)	Asian Longhorned Beetle
Shrub (size class 2 or below including shrub clumps)			Other Pest or Pathogen
	100 m 100 m 100 m	Walnut (Thousand Canker)	
Severity			
High = more than 50% of leaf/needle cover exhibiting symptoms	needle cover exhibiting s	mptoms	
Medium = Less than 50% of leaf/needle cover exhibiting symptoms	af/needle cover exhibitin	symptoms	

Low = Only a few leaves or branches are exhibiting symptoms

	0		0		
		7			
				¥.	

no. I in clip pois (3232 cm) from conners I and 3 in each indensive module. Required for VIBI-E score calculation. C7-check when collected	m comers I am ore calculation.	C7=check when		CLASSIFICATION	ON		
Module #	C7	Corner Corner	2	(FTT - excellent g Fit and Confidence	id Confidence		
				Hydrassemerable riss (WETLANDS ONLY)	HI CWETTANDS O	ATA	
	:			DIMPOUNDMENT D Beaver D Human	o Beaver o Human		=
			- 1	o RIVERINE o Headwater o Mainstern o Channel	water ci Mainstern i	Channel	Fi-
				D SLOPE (ground water hydrology or on a physical slop)	r hydrology or on a phy	ical slop)	7
				a FRINGING to Reservoir to Natural Lake	rvoir 🗆 Natural Lake		=
				n COASTAL (specify subclass)	subclass)		1
				a BOG (strongly, moderately, weekly ombrotrophic)	lerately, weekly omb	otrophic)	Fil=
				Obie EPA VIBI Plant Community Class (WETLANDS ONLY):	t Community Class	O SQNV-LL3AN	NLTX.
				o FOREST o swamp forest o bog forest o forest seep	foresi e bog foresi o	orsi sorp	Fire
				a EMERGENT a marsh to wel mendow to open bog a SHRUB a shrub swamp a tall sh, bog a tall sh, fen	sh a wel meadon o amp a tall sh bog a	open bog	# # F
						I	
MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only	ATURE CO	INTS - Intensive	Modules only		1000		H
Ranks for microhabitat features. Selections or select two and average the score.NOTE: If mod fals on a slope automatically gets ranked based on steepness (1-3) to begin + any features present slope 1 = slight elevational grade across module (hit) Slope 2 = fals on slope -20 * Slope 3 = maximum steepness that can be safely sampled -45 *			· ····································	od falls on a slope autom	utically gets ranked b	sead on Maagnes	
	alect one or sel	nd two and average th	Slope 2 = fats on stope -20°	slope -20°	Slope 3 * maximum steepness that can be safely sampled ~45°	m steepness that	. (1-3) to begin can be safely s
feature is absent or functionally absent from the vestiand feature is present in the welfand 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	elect one or sel across module (absent from the l in very small a mounts, but not	nd two and average thing) westend worstend rounds or if more cons of highest quality, or is	Slope 2 = falls or Slope 2 = falls or Slope 3 = falls or Slope 3 = falls or Slope 3 = falls of his small amounts of his	slope =20 *	Slope 3 " maxim	on steepmass that	can be safely s
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ture is absent or functionally turn is present in the welland turn is present in moderate a ture is present in moderate.	elect one or sei	hill) weddand weddand reunds or if more com not highest quality, or is not and of highest qual	Slope 2 = falls or mon, of flow quality 1 arnal emounts of his	ghest quality C.W.d cou	Stops 3 * maximum steepness that careful to the careful to please with minkmum 1m length c.w.d c.w.d c.w.d c.w.d c.w.d	m steepness that Inknum 1m ken	can be safely san
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CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface Project Label: PCAP Project Name: 005 005 STANDING BIOMASS (required for envergent wetlands) to collected in 0 I m clip blots (32432 cm) from contest I and 3 in each intensive

Plot No.: 3327

Page: 1 of 1

MCNAB INDICES (degrees) + for up - for down Filled out using ais program - do not fill out in field)

CROWN COVER (DENSIONETER): Make 4 readings per modula facing N. S. E. W. Place dol count in corresponding space. (4 dots per grid square)

*Landform Index (position within fandscape)
**Ternain Shape Index (sile microlopographic shape)

+270 degrees

₩ SW

Sene.

+315 degrees

N.

+ 225 degrees

135 degrees

SI

LFI is angle of plet to the horizon. TSI is angles formed by local slopes. For TSI measure angle from recorders eye to 99 e of person.

+45 degrees

高

Al aspect

z

+ 130 degrees

1 4	» 3	* 2	a]	Modele
CH CH	13	th.	8	2
C	CN	S	32	şo.
0	8	_	P	E
5	16	$\boldsymbol{\mathscr{B}}$	8	¥
			7	

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atedmem beman auoremun redmeM enotabras braiti Abaili e nom erti to eno ai atem instaireq	Cuyahoga Formation*	MISSISSIPPIAN
Vinton Sendstone Member Alteneville Conglomerate Member Byer Sendstone Member Byer Sendstone Member	Logan Formation*	
Pothyvilje Group"		LOWER PENNSYLVANIAN

FIGURE 3-30.—Generalized section of Upper Devonian Aliaissippiem, and Invest Pennsylvanian formations in northeaness Aliaissippiem, and Lower Pennsylvanian formations in northeaness oction appears and a shour 400 meers of rock exposed across the area. The section is not to achieve the thicknesses instincted are proportional. The term "which section is used in rick shirtness to refer to Mississippiem rocks in Okno. In used in the thicknesses inscinctive to refer to Mississippiem for the College of the College of

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Nedmelki nowiti

Chagnin Member*

	lation m
finagro + retriit seemit filter + organic	HCO:F
Depth Mexicution of the Comment of the Mexicution of the Comment o	
ngs are often defined as up to 1.4 m height or as <2.5 cm DBH in ay would span the herb and shrub layers.	
see sometimes included in the tree stratum lude seedlings of shrubs, i.e. all shrubs <0.5m	oni osla naOʻ

Submerged

Herb, dwarf-shrub", tree (seedling"") Tree (sapting), shrub, liana, epiphyte)

Tree (overstory), very tall shrubs", liana,

GENERAL FORM

Ploating

ebibph(e)

Bide Mew

uvdanleus

Aquatic (submerged)

Shrub (generally 0.5 to 5 m)

MUTARTS

(m č< vilisioneg) oenT

COVER BY STRATA

Floating

Herb (Field)

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a
Project label: PCAP Project Name: 13347 Plot No .: 3377

(Concland Netroparks

Page: 1 of 1

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

Soll pil module # (one per entire plot)

				20 cm							8
redux features**	axid roots	%mottle	mottle color	matrix color	hydr cond.***	rodox features**	texture*	axid roots	%mottle	mottle color	matrix color
۷					- s	4		4			
z	z				M D	z		z			

refer to lexture classes on reverse pide

hydro. cond *** I S M D

** e.g. hydrogen sulfide odor, gleying, etc. Citcle one:

lotes: include evidence of earthworms (worms rindundated S-saturated M-moist D-dry

astings, middens)

Month Worms, costings and michains passass and miduns present and middins present 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

Was Soil Servey Information: Soil Series/Type: Soil Series/Type: Candform type: Depth to rest. Layer: Depth t
--

SOIL DEPTH MEASUREMENT: Measure to the nearest 0.1 cm in center of intensive modules. If >30.5 cm, record as >30

4	W	ટ	_	mod#
0.3	0.3	04	08	1 litter+ organic depth (cm)
0.3	0.3	04	08	2 litter depth (cm)
1	1	-	1	water depth (cm)
1	1	1	l	depth sat

Linderlying Earth Surfaces	Surfaces	Creand Cover	
(96001 - MPR)	percent	(Each < 100%)	percui
lososill	1	Coarse Woody Debris***	83
Mineral Sod	100	Fine Woody Debris****	3%
Gravel-Cobble*	1	Litter	12
Boulder**	١	Duff (Ferm + Humus)	1
Bedrock	1	Bryghyle- Lichen	19:
• Gravel-Cobble = 1/16-10*	1/16-10"	Water	C
**Boulder = > 10 in	5	Bare Soil	0
*** >5 cm in diameter	तंव	Roed/Trail	0
eeee ve ma diameter	meter	Other	0

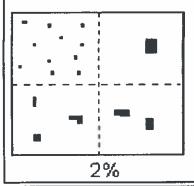
estimate using midpol	estimate using midpoints of 5,ex:3, 8, 13	x:3, 8, 13
estents.	Height Range (m)	Total Cover (%)
Tree	5 %	78%
Shrub	3 - 5	8%
Herb	0 - 3	48%
(Floating)*		١
(Aquatic)*		1
rooted and the	rooted and floating or slightly emeraed	ð
** submersed,	" submersed, most plant mass below surface	v surface
SEE BACK OF	SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.	L'STRATA RY BY COVER TYPE.

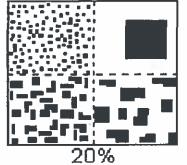
to Decar	a Gravel	u Bootleg unsanctioned	2 Hiking sunctioned	3 Bridle	a All Purpose	Туре	record type and cover for each	TRAIL INFORMATION:
1	1					%Cover	or each	¥: \

Г	0	0	o	~	0	0	19
	< plot stze	1-3 x plot size	3-10 x plot size	10-100 x plot size	> 100 x plot size	>600 x plot size	TAND SIZE
	- 25		_		4		

PERCENT MOTTLES (USE CLASS CODES):

Class	Code		Criteria: % of	
<u> </u>	Conv.	NASIS	Surface Area Covered	
Few	ſ	ed Tr	< 2	
Common	C	#	2 to < 20	
Many	m	# <u>+</u> 17	≥ 20	





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

0= Organic

1= Loamy

2= Clayey

3= Sandy

4= Coarse Sand

9= Not measured - make plot note

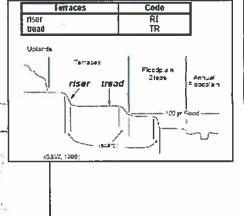
Position

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.

	Hies	Code		
		PDP	NASIS	ı
	Interfluve	(F	IF.	ı
	head slope	HS	HS	ı
	nose slope	NS	NS	ı
	side slape	SS	SS	ı
	base slope	_	BS	ı
•	/5.	Head slope	ner /	
		11/	1 4 8	1

higher mider shoom



Hillstope - Profile Position (Hillstope Position in PDP) - Twodimensional descriptors of parts of time 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

summit shoulder backslope footslope toeslope	SU SH BS FS TS	
53 Sh		



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.