Project Label:	PCAP PCAP	_ Plot No	e: Quality Control Form  p: 3370 Date Sampled: 9/8/15 Lead: CK/
			Comment required if item answer is NO
Parking/Access outside	e of Park Boundaries:	YN	If yes, write details in Comments section below
Field journals complet	ed	(Y) N	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Site sketch made on 1:	3000 map?	N (Y)	
Check cover page	X-axis Bearing of plot recorded	W N	
	GPS coords. Recorded	(y/N	
	North direction recorded	(Y) N	
	Photographs taken?	И	
2	Relocated Pins Mapped	Y) N	
Plot No., Date agreeme	ent on all pages?	N	
Header data completed		N W	
	in all Intensive modules	(Y) N	
Browse Level By Spec		(Y) N	
Woody stem quality co	No.	Y N	Check eyery line and cross check with the Tree Cover Sheet
Invasive plant quality		YN	NA
Ash trees mapped		(Y) N	
Completed Forest Pest	Pathogen Datasheet	(V) N	
Cover by Strata? (conf		Y) N	
	with matching plot #.	(W) N	
Cross check 2010 info		YN	Highlight any changes from 2010 information
	stasheet with initials and number	(Y) N	The tite and changes from 2010 information
Vouchers labeled on co		(Y) N	N 01/10 - 10
Pink flags removed	oncenton bag	N (V)	1000
Data sheet QA before	enving site?	Ø N	
Common equipment re		YN	
Data sheets scanned?	turnes to tuo.	1	Enter date to left
Final data sheets scann	and?	1	Enter date to left
Buffer Widths measure		Y N	Lines date to text
Web Soil Survey	<b>50.</b>	YN	
Voucher Location	Refrigerator	YN	100000000000000000000000000000000000000
	the state of the s	I N	F-4
# vouchers collected)	Press (#)	YN	Enter number to left
CKM482	Drier		
	Identified	Y N	
	Mounted	YN	1
	Thrown away	YN	
	ion: Is plot sampleable?		· · · · · · · · · · · · · · · · · · ·
□ Yes	Original GRTS point is sampleable		
o No	Original GRTS point lands in a non-		fill in category below)
	Point falls in a water (i.e. river, 1		
	Managed mowed area (i.e. golf     Paved area (i.e. parkinglot, road)	course, picnic area, ri	ght-of-way)
	<ul> <li>Paved area (i.e. parkinglot, road)</li> <li>Unsafe to sample (i.e. steep slope</li> </ul>	:)	
	D Other	,	
Additional Comments			
4/3/15 - Fo	und Origin, 10m, 41	om center	rline

20)

COMMUNITY NAME:

E Conspicuous inclusions

HOMOGENEITY

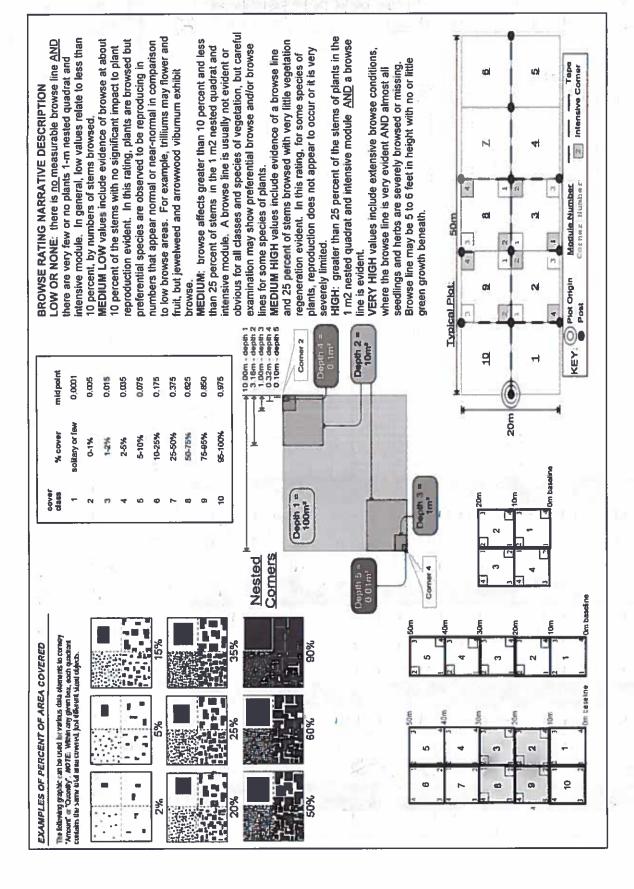
CODE (on separate form):

ALINITY*       □ Upland (seldom flooded)       □ Intermittently flooded         Saltwater       □ Semipermanently flooded         Sarekish       □ Permanently/Semipermanent, saturated       □ Tidal/Seiche flooded daily         Fresh       □ Occasionally flooded       □ Tidal/Seiche flooded monthly         Poland (n/a)       □ Occasionally flooded       □ Tidal/Seiche flooded irregular         Demporarily flooded       □ Tidal/Seiche flooded irregular		
(fintermittently/seasonally saturated (seldom flooded)  Dermanently/Semipermanent, saturated (dry <1/r> (dry <1/r> (dry <1/r> (dry <1/r> (dry <1/r> (a))  Deceasionally flooded (<1/r> Temporarily flooded	Upland (seldom flooded)	o Intermittently flooded
(seldom flooded)  Dermanently/Semipermanent, saturated (dry <1/yr, seldom flooded)  Occasionally flooded (<1/yr)  Temporarily flooded	Intermittently/scasonally saturated	D Semipermanently flooded
(dry <1/yr, seldom flooded)  Occasionally flooded (<1/yr)  Temporarily flooded	(seldom flooded)	□ Permanently flooded
(dry <1/yr, seldom flooded)  □ Occasionally flooded (<1/yr)  □ Temporarily flooded	Dermanently/Semipermanent, saturated	o Tidal/Seiche flooded daily
© Occasionally flooded (<1/yr)  © Temporarily flooded	(dry <1/yr, seldom flooded)	D Tidal/Seiche flooded monthly
a Temporarily flooded	□ Occasionally flooded (<1/yr)	□ Tidal/Seiche flooded irregular
werland)	n Temporarily flooded	(e.g. wind, storms)
		u Unknown
Commission of the contract of		□ Upland (seldom flooded)  Intermittently/seasonally saturated (seldom flooded) □ Permanently/Semipermanent, saturated (dry <1/yr, seldom flooded) □ Occasionally flooded (<1/yr) □ Temporarily flooded

Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)

Allium throccum would dominate here in spring thme. Not a single non-native species found ( Lange Gallum?) Plot with a fair amount of Carex diversity but all of the perigynia have fallen making vouchering useless. (Probably stuff common to Hinckley though) It this late point in the year some leaves falling, Blue Cohosh almost gone, it there was Podophyllum it is completely gone. The stand is un-even-aged. It is neatly fucked in a shallow creek ravine.

Project Label: Total modules:	Project Label: PCAP Project name: 02 H I 2015  Total modules: Intensive modules: Plot configu	Project name: Intensive modules:	122	E	HIZO15	2015 Plot Plot configuration:	gura	Plot no.:	× no.	UT W	370	-		Plot	Plot area (ha):	a (ha):	. 1	0.5	
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<b>?</b>		Estimate for each	F	1		7	2	1	N	2	W	4	W	N	1	4	7	14	23
4	Br = Browse Level. Use cover classes to	intensive module:	depp	§	dep#	ğ	100	ğ	8	ş	de g	<del>§</del> -	depth	ğ	depth	8	depth	g	depth
Cleveland	describe amount of browse per species over	%open water	E	上			Ŀ	2			-	-N			100	0			
letroparks	entire plot	%unvegetated open water	-	C			-	0			-	0			-	в			
rata - Cov entire plot		%unveg. ground (bare soil)	1	4			-	4	200		-	d z	T			oи		T	T
S H (F)(A)Br	Br Species	c Voucher#	depth	8	8 8 8 8 8	8	1	§ -	ĝ	ş	depth.	9	e T	g				g	
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7 7	7 Carya sp. (seedling)		2	7		AII.					2				7	-			
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-	Tilia americana		2	_								1			3075	Ĩ			
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Ulmus rubra	Carex 3	Carex 2	Cratacqus sp.	Wola 1 Sp.	Ansacma triphyllum var +	Carya cordiformis	E,	Asterior de 1) Aster cerai	Trancha con Teha Mitelly	Kloba		Sangunaria anadensis	Carva svata	Pilea pumila	8 Evenymus oboratus	Parthenocissus quinquetolia	A) Br Species	e plot			describe amount of browse per species over	Br = Browse Level. Use cover classes to			U	1	ATT NOTANNO FIGURE
		F		24944-945	robyllym		51-8-11 37	000 CH942-943	11- CHQH4-451	SEC 17-8-15	8.5			200		ľa	c Voucher#	%unveg. litter (bare litter)	%unveg. ground (bare soil)	%unvegetaled open water	%open water	intensive module:	Estimate for each		Intensive modules:	Project name:	Brainet spec
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		2				2 4			22	2 2	W	2		2 3	22		cov depth cov depth	E 1				cov depth cov depth	4 4 2	corner mod corner mod	ha):		rage C of C

Pranunthes sp.

CKM482

Querzus sp.

(seedling)

Hamamelis virginiana

00

Cornus alternifolia

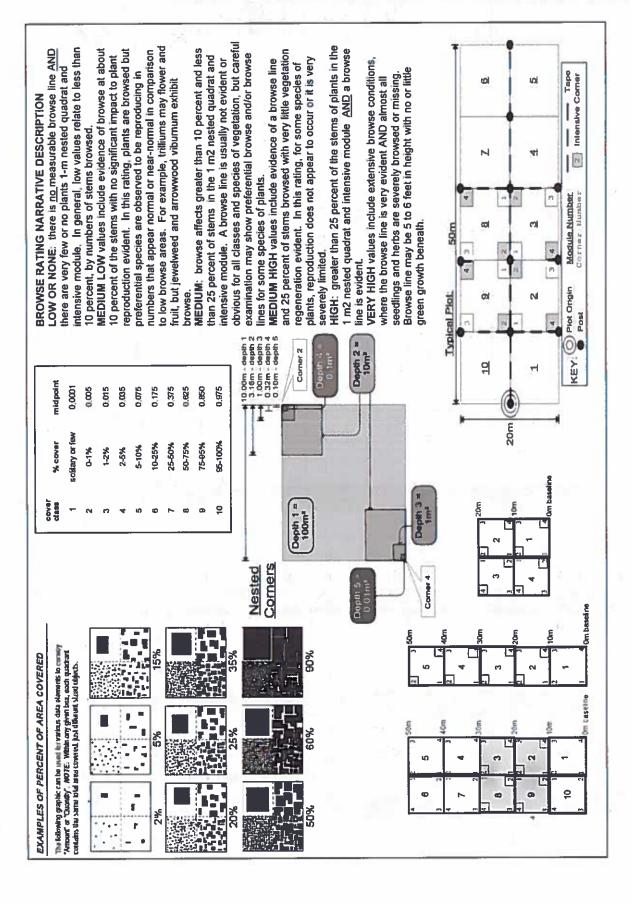
Simborna Vaceniesa majantumum

2 2 2

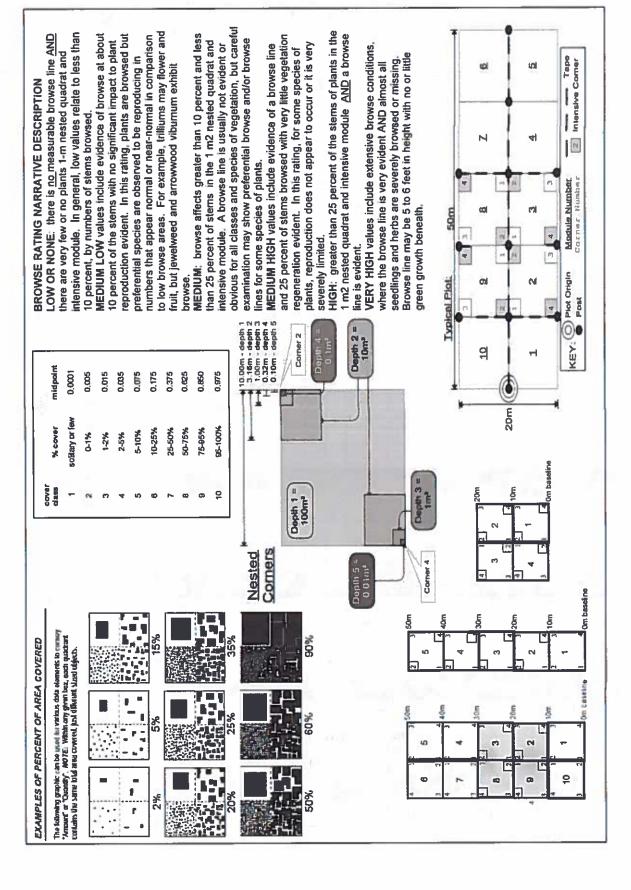
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Adjantum pedatum

MN



Project I ahel	CLEVELAND ME ROPARKS Plant Community Assessment Program Species Cover Data Sheet	ent Program Specio	S Cove	er Data Shee	She		Plot no	•	3870	5				Page	L	of	
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*	Br = Browse Level. Use cover classes to	intensive module:	depth cov	depth	ğ	8	P Agg	-	S S	depth cdw	depth	8	depen	8	de ge	_	dept
Cleveland	describe amount of browse per species over	%open water	-	h		-	ļ.	+		+		+	L	+	-		t
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Strata - Cov. enline plot		%unveg. ground (bare soil)	-	h		-	1							+	+	1	
S   H  (F) (A) Br	Br Species	c Voucher#	depth cov	v depth	VOD	dep#	8	degen C	depth va	g 2	w depth	Q P	-		-+	9	dep
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14	Rubus allegheniensis				h									~	2 2	1.4	
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SRE\_CM PCAP TREE Species Cover Data sheet.xls last revised 6/10/2015 jjm WOOW Acer Tubrum ragus grandifolia Prunus seroting Ostrya virginiana Tilia americana Taxinus 50 Imus americana Imus rubra

CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet

% COVER
Strata - Cov. entire plot

무

Species

n

Voucher #

Prensence of tree mod mod mod mod species (X) | 2 3 4

Project name: 62 HI 2015 Plot no.: 3370

Page

Acer saccharum

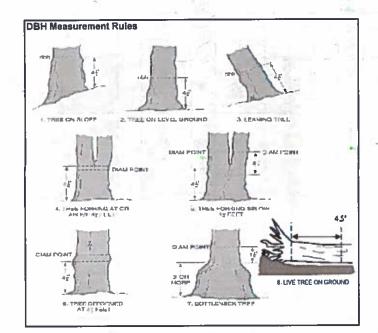
Acer nigrum

Project Label:

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CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Project Label: PCAP Project name: PCAP	Prensence of tree	Species (A)	# HONOR		,	r			9											
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Project Label:	ÆR	Strata - Cov. entire plot	ă														:			
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	Provide S Original	Ulmus amunicaga	Standing Dead	olimost.		Ulmus Jubra	FOUN GRADINA		Qui sacharum	Canva so	Fraxious pensylvania	Ulmus sp.	Aur sachanm	Fagus grandifolia	Hamanulis virginiana	Our about 1	Standing Dead	Canaso.	Indera benzoin	Ulmus rubia	Rai niarum	and one	Stanting Dead	Egas granditolia.	Dur Sacharum	species		Explain subsample (additional room on back):	Project Label: PCAP Project Name: 02H12015
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																	_			S						8	5		Sereis
																				532						>40 (record each tree)			Committee of Metroparks



#### **Woody Stem Deer Browse**

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

Record using the tally system from 1 to













### **ASH CANOPY CONDITION**

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



В

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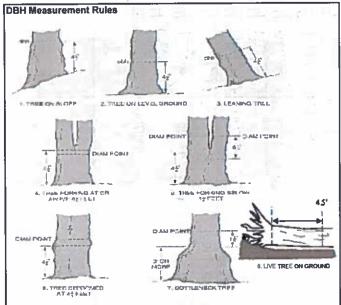
# ASH CANOPY BREAKUP CONDITION (for dead trees):

(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.

S G 5 S CT S S CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Standing Dead Ostnya virginiana. Sparting Dad Explain subsample (additional room on back): Our sortharum Phonus serotion Fraxious sp Prince serotica Ulmus amuricana Fagus grandifiolia Comos alternitolia Que nigrum HOXIOUS DENOSATIVADIAS The aignon Dur sacharum niosned anabour Janu Conditionnis hiozuad puzoin Project Label: PCAP prowaed 0-1.4m stems ! or super % sub Project Name: 02H12015 shrub size class (cm) woody stems >1.4m 우<1 :1 1-<2.5 2.5.<5 Plot No.: 3390 5-<10 X٠ 10-<15 15 - <20 20 -< 25 Page: 2 25 - < 30 30 - <35 Scienciand Metropains 35 - <40 5 >40 (record each tree)





#### **Woody Stem Deer Browse**

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

Record using the tally system from 1 to















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Natural Resources Management FORM 2010-04a

Tier 1: Early detection/	Rapid response		Pre	sence		GPS	
		NE	SE	SW	NW		Presence
Microstegium vimineum	Japanese stiltgrass						X: yes
Ranunculus ficaria	Lesser Celandine						
· · · · · · · · · · · · · · · · · · ·	Black Swallow-wort						
	Flowering Rush						
Heracleum mantegazzianum	Giant Hogweed					24	
Tier 2: Assess a		1770	# of	Plants		comments	
		NE	SE	sw	NW		# of Plant
Acer platanoides	Norway Maple						1: 1-10
Ailanthus altissima	Tree of Heaven			1			2: 11-50.
onicera japonica (vine)	Japanese Honeysuckle			1			3: 51-100
	Purple Loosestrife			$\top$		<del>-</del>	4: 101-1,0
	Bishop's Goutweed			1			5: >1,00
Celastrus orbiculatus (vine)	Asian Bittersweet						
Torilis sp.	Hedgeparsley						
Conium maculatum	Poison Hemlock					·	
Rhamnus cathartica	Common Buckthorn (shru	b)		1			
Berberis thunbergii	Japanese Barberry (shru		$\top$				
Alnus glutinosa	European Alder					•	
Dipsacus laciniatus	Cut-leaf Teasel			1			
Elaeagnus umbellata	Autumn Olive (shru	3)					$\neg$
onicera maackii	Amur Honeysuckle (shru	<del></del>					┑
Euonymus fortunei	Wintercreeper		1			= 11	_
Tier 3: Presence is			# of	Plants		comments	
		NE	SE	sw	NW		# of Plant
Convallaria majalis (G-cover)	Lily of the Valley						1: 1-10
	Crown Vetch					· · · · · · · · · · · · · · · · · · ·	2: 11-50
Eleutherococcus pentaphyllus	Five-leaf Aralia (shru	5)				·	3: 51-10
	Japanese Pachysandra			1	1 1	-	4: 101-1,0
Philadelphus coronarius	Mock Orange (shru	ы					5: >1,00
	Lungwort					<del></del>	
Rubus phoenicolasius	Wineberry	$\top$					$\neg$
	Yellow Flag Iris	_	1				
Ornithogalum umbellatum	Star of Bethlehem			1			$\neg$
Viburnum opulus var. opulus	European Cranberry (shru	o)		1			$\neg$
Viburnum plicatum	Doublefile Viburnum (shru		$\top$	$\top$			
Tier 4: Widespread			Pre	sence		comments	
		NE	SE	SW	NW		# of Plant
Alliaria petiolata	Garlic Mustard						1: 1-10
Ligustrum vulgare	Common Privet (shru	)	1				2: 11-50
L. morrowii, L. tatarica	Bush Honeysuckles (shru					· · · · · · · · · · · · · · · · · · ·	3: 51-10
Phalaris arundinacea	Reed Canarygrass	1	1	1	1.		4: 101-1,0
Phragmites australis (wetland)	Phragmites	$\top$	1			E 9	5: >1,00
Polygonum cuspidatum	Japanese Knotweed		1				
Frangula alnus	Glossy Buckthorn (shrul	)					
Rosa multiflora	Multiflora Rose (shrul	_		<del>                                     </del>		2	
Typha angustifolia, T. x.glauca	Cattails (wetland)	+	$\top$	<del>                                     </del>			$\neg$
Cirsium arvense	Canada thistle	$\top$	_	$\top$		76	<b>-</b>
		_	+	+	<del>1  </del>		$\neg$
Dinsacus fullonum	Common Teasel		- 1				
Dipsacus fullonum Hesperis matronalis	Common Teasel  Dame's Rocket	-	+	+	<del>                                     </del>		_

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

	(size class 3 or above) Shrub (size class 2 or below including shrub clumps)	Strata	* IF EVIDENCE OF PEST OR PATHOGEN RECORD TOTAL SPECIES POPULATION IN THE PLOT EVEN 1		10	9	8	7	6	Ot.	4	3	2	1 None Present	mod # species	28 9K (IIII)	Project Label:	CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Sheet
		# of stem infected	PATHOGEN I									U.			voucher#		P	nt Communit
		Severity (H,M, or L)	RECORD TO												shrub clumps	#	PCAP	y Assessme
			TAL SPECIE												0- <u>~</u>	size class (cn	Project	nt Program
	None	* Write None Present if no evidence:	S POPULA												2 3 1-<2.5 2.5-<5	size class (cm) woody stems >1m	Project Name: 02H/2015	Forest Pest
Walnut (	Beech (Fungus) Hemlock (HWA)	Present if	HT NI NOI												4 5 5-<10	-'n	1305	and Patho
Walnut (Thousand Canker)	Fungus)	no eviden	E PLOT E												5 10 - <15		<u> </u>	gens Dat
Canker)		6	WEN TH												6 15 - <20 20	4	Plot No.: 334	a Sheet
	one		E NOT II			-		, -							7 20 - <25   25	4	180	
	Asian I		THE NOT INFECTED												25 - <30 30 - <35		Page	
	Asian Longhorned Beetl Other Pest or Pathogen														10 5 35 - <40		Ĵ	
	Asian Longhorned Beetle Other Pest or Pathogen							£							11 >40 (record each tree)		of '	Cleveland Matroparks
				73											N:			

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

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 NOTE: buseock and hummocks are counted in BOTH nested quadrat corners but counts are appregated. 10 feature is present in moderate or greater amounts and of highest quality MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only lope 1 = sight elevational grade across module (hill) while for microhabitat features. Select one or select two and everage the score.NOTE: If mod falls on a stope automatically gats ranked based on steepness (1-3) to begin + any features present odułe # feature is present in moderate emounts, but not of highest quality, or in small amounts of highest quality feature is present in the wetland in very small emounts or if more common, of low quality leature is absent or functionally absent from the wetlend S depth 3 **lussock** (count) PO. of 0 ix im O 0 ទ lands (Tip-Ups) 3.16x3.16m hummocks depth 2 (count) 70. Of 0 0 Slope 2 = falls on slope ~20° depressions depth 1 по. тасто 10x10m 00 0 D SLOPE (ground water by drology or on a physical slope o RIVERINE o Headwater o Mainstern o Channel COASTAL (specify subclass) o FRINGING o Reservoir o Natural Lake CLASSIFICATION n SHRUB in shrub swamp in tall sh. bog in tall sh. fen a FOREST a swamp forest a bog forest a forest seep a EMERGENT a marsh a wet meadow a open bog o IMPOUNDMENT to Beaver to Human FIT = exactlent p Fit and Confidence This EPA VIBI Plant Community Class (WETLANDS ONLY): DEPRESSION Hydrogromerobic class (WETLANDS ONLY): BOG (strongly, moderately, weekly ombrotrophic) (2-12 cm) depth 1 10x10m p.w.d c.w.d. - count for pieces with minimum 1m langu Slope 3 = maximum sleepness that can be salely sampled -45" (12-40cm) 10x10m depth ( cw.d S ×40 cm 1021000 depth 1 Cw.d 0 0 0 0 7 7 18 File F Fit= File | | | 7 depth 1 interspers microhab. 10x10m Conf= Conf\* Confr Con ... Conf-Conf Conf. Conf= Conf+ 34078 microhab 10000 Т

@ Glowel and Motor parter

CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface
Project Label: PCAP Project Name: 0241205

PHOT NO.: 3500

MCNAB IN	TUSING G	MCNAB INDICES (degrees) + for up - for down  FFILED OUT USING DIS PROGRAM - DO NOT FILL OUT IN FIELD)  At 850001 N LFI TSI**  [LF]	Or up - fo	TSI TT OUT IN F	TELD)
			T.FII:	181:	
	At aspect	z			LFI is angle of
±-	+ 45 degrees	NE			plot to the
_ـــــــــــــــــــــــــــــــــــــ	+90 degrees	E			angles formed by
<u>.</u>	+135 degrees	SE			TSI measure
<u> </u>	+ 1 10 degrees	S			recorders eye to
+23	+225 degrees	SW			eye of person
+21	+270 degrees	W			Tanay.
±3_	+3 5 degrees	NW			
· Landform ir	rdex (positi	· Landform Index (position within landscape)	ape)		
" Terrain Sh	ape Index (	"Terrain Shape Index (site microtopographic shape)	raphic shape	_	

CROWN COVER (DENSIOMETER), Make d readings per module facing N. S. E. W. Place dol count in corresponding space. (4 dots per grid square)

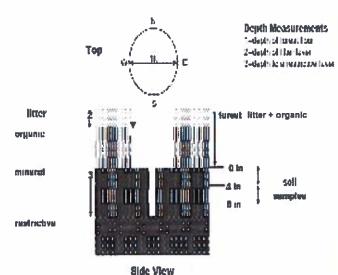
corresponding s	pacz (4 000 p	(4 oous per gris square)		┞
Medak	z	ss.	[4]	¥
11	0	0	0	0
Pr	0	0	0	0
23	0	0	0	0
hr	0	0	0	0

#### **COVER BY STRATA**

COVER DI 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

<sup>\*\*\*</sup>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.



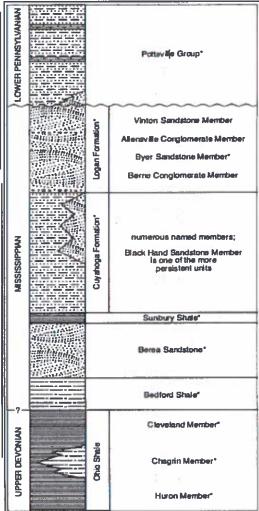


FIGURE 3-20.—Generalized section of Upper Devinian, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio Asteriaks indicate units that are fossiliterous. This composite section represents about 400 meters of rock exposed across the area. The section is not to acale, but the thicknesses indicated are propositional. The term "Waverly is used in the older literature to refer to Mississippian rocks in Ohio. Some geologists use the European term "Carboniferous," which encompasses the Missingpitan and Pennsylvanian Periods of the U.S. Many units have been samed within the Cuyahoga Farmation, but most units are local and cannot be traced over great distances. The Black Hand Member is a spectacular missive sandstone that is fairly undergread but discontinuous. See Hyde (1953). Hoover (1950), and Collina (1979) for more information on Mississippian rocks in Ohio. See figure 3-16 for explanation of tock types.

CLEVELAND METROPARKS Plant Community Assessment Program - Solls, Crown Cover, Standing Biomass Data Sheet 6a
Project label: PCAP Project Name: 0311/2015

(P) Cleveland Metroparks

Page: 1 of 1

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

20 cm Soil pit module # \_\_\_\_ (one per entire plot) 6 03 matrix color matrix color lexture\* oxid roots edox features\*\* ydr. cond \*\*\* edox features\*\* stoors bix monte onle color Attle color ≺ S X D z Z

rydro, cond \*\*\* I S M D

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

refer to texture classes on reverse side

Notes: include evidence of earthworms (worms, castings, middens) I-indundated S-saturated M-moist D-dry

MOU Now present moo 3. Norupresent mod a None present MOD I None pasent

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

TRAIL INFORMATION:

scord type and cover for each

Soil Collection Modul Herizan (A. B. C)  1,3,4,9 composited  A  Web Soil Series/Type:
Soil Series Source: Ohio Soil Survey
Landform type:
Depth to rest. Layer:
Parent Material:
DRAINAGE*
□ Excessively dr. □ Somewhat excessively
a Well drained a Moderately well dr.  Somewhat poorly dr. a Very poorly dr
c Impermeable surface

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	_	# 1
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	V.	2
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	- ;;	₹ 1
	.1 cm in center of intensive modules. If >30.5 cm	OIL DEPTH MEASUREMENT: Measure to the nearest
	8	3 1
	9	6
		3 1
		92.

		1		
H	CN	ىھ		mod#
2.0	23	2.2	24	1 litter+ organic depth (cm)
2.0	23	22	24	2 litter depth (cm)
1	-	L	100	water depth (cm)
	-	1	1	depth sat soil (cm)

EARTH SURFACE & GROUND COVER	CE & GROU	IND COVER	+
Underlying Earth Surface*	Surface	Ground Cover	
(Nam = 100%)	percent	(Each ≤ 100%)	percent
Histosol	1	Coarse Woody Debris***	<u></u>
Mineral Soil	9	Fine Woody Debris***	
Gravel-Cobble*	8	Litter	60
Boulder**	1.	Duff (Ferm + Humus)	0
Bedrock	1	Bryophyte- Lichen	
Gravel-Cobble = 1/16-10	1/16-10"	Water	
**Boulder = > 10 in	5	Bare Soil	
••• >5 cm m diameter	ida	Road/Trail	

 Bridle
 Hiking sanctioned a Bootleg unsanctioned

Deer o Gravel Type

%Cover

All Purpose

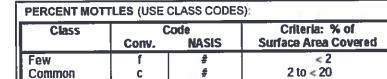
<b>\$Ω</b>	7
COVER	١
BY S	١
COVER BY STRATA	İ
TRATA midpoints of 5,ex:3, 8, 13	I
ti oj	I
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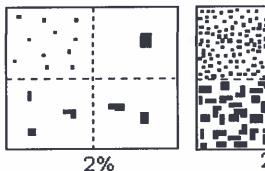
1	.1	(Aquatic)*
l	1	(Floating)*
85	05	Hes
65	.5 .5.0	Shrub
83	5.0 _ 1	Tree
Total Cover (%)	Height Range (m)	Strate

STAND SIZE

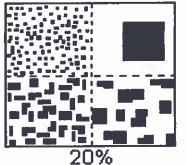
SEE BACK OF PAGE FOR "TYPICAL"STRATA
DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.

\* submersed, most plant mass below surface





m



≥ 20

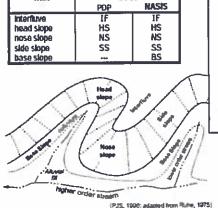
SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but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

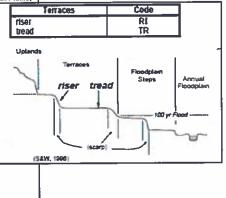
- 0= Organic
- 1= Loamy
- 2= Clayey
- 3= Sandy
- 4= Coarse Sand
- 9= Not measured make plot note

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., (for Hills) nase slope or NS.

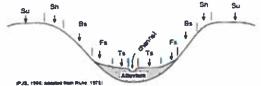
Many





Hitislope • Profile Position (Hitislope 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.

20.0
SU
SH
BS
FS
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.