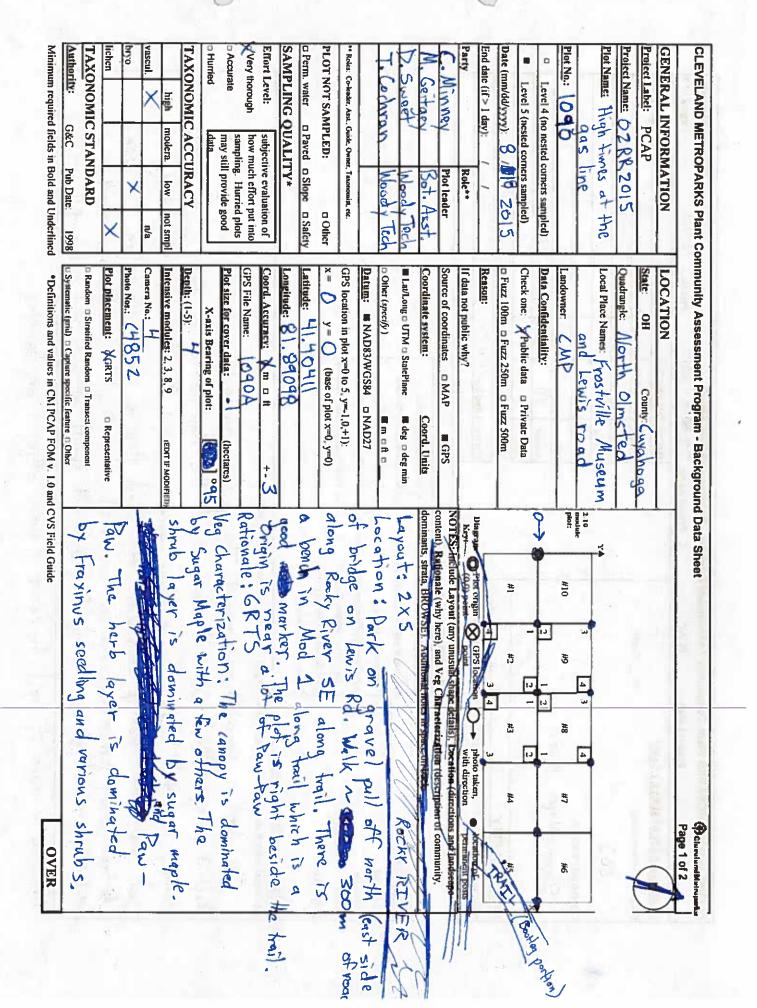
Project Label:	PCAP PCAP	_	: 1090 Date Sampled: 8/18/15 Lead: CK
			Comment required if item answer is NO
Parking/Access outsi	de of Park Boundaries:	Y (N)	If yes, write details in Comments section below
Field journals comple	sted	(Y) N	
Site sketch made on	1:3000 map?	(Ý) N	
Check cover page	X-axis Bearing of plot recorded	(Y) N	
	GPS coords. Recorded	(Y) N	
	North direction recorded	(Y) N	
	Photographs taken?	(Y) N	
Secret Vice of	Relocated Pins Mapped	(Y) N	
Plot No., Date agreen		(Y) N	
Header data complete		Y) N	1
	ed in all Intensive modules	(Y) N	
Browse Level By Spe	cies	(Y) N	
Woody stem quality of	control check	(Y) N	Check every line and cross check with the Tree Cover Shee
Invasive plant quality		YN	N/A
Ash trees mapped		(Ŷ) N	0835 0.50000
	st/Pathogen Datasheet	(Y) N	
Cover by Strata? (cor		(Y) N	
	d with matching plot #.	(Y) N	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Cross check 2010 inf		(Y) N	Highlight any changes from 2010 information
	datasheet with initials and number	(Y) N	
Vouchers labeled on		(Y) N	
Pink flags removed		(Y) N	·
Data sheet QA before	: leaving site?	(Y) N	1
Common equipment		Y N	7 - And - 10 Dec 27 -
Data sheets scanned?	N 38 100 100 100 100 100 100 100 100 100 10		Enter date to left
Final data sheets scar			Enter date to left
Buffer Widths measu		Y N	
Web Soil Survey		YN	
Voucher Location	Refrigerator	YN	
( # vouchers collected)	Press (#)		Enter number to left
CKM389-	Drier	Y N	
	Identified	YN	
394	Mounted	YN	
	Thrown away	YN	

o Yes	Original GRTS point is sampleable	
□ No	Original GRTS point lands in a non-sampleable area (fill in category below)	
	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	

Additional Comments:

Found all pins



CLEVELAND METROPARI	CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet  Project Label: PCAP Project Name: 6.2 100 RM RR	Program - Back Project?	- Background Data Sheet Project Name: 02 @ RR 2015	Sheet RR 201	اد	Plot No.:	Plot No.: 1090 Page 2 of 2
MODIFIED NATURESERVE CLASS	ZLASS*		DISTU	DISTURBANCES			8
CODE (on separate form).	File		type	severity**	VES AEO	vrs ago % of plot	description
		10	Human	V	0	9	Trail foot traithe
203			Natural	W	٥	9	EAB'
COMMUNITY NAME:			Fire	-			The second second
Mark	The A		Cut		1		C. C
Sugar Junta 101 cs	101.53	100	Animal	8	Ö	Ino	Dear Drows C
			Other	E			
HOMOGENEITY		f0 (0	**L=low	. ML=med lov	v, M≕med,	MH=med I	**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high
a Homogeneous	Compositional trend across the plot		Current	Current Land Use: CM P	A IV		
clusions	o Irregular/pattern mosaic		Former	Former Land Use:			
	HYDROLOGIC REGIME*	GIME*		45			
	D Upland (seldom flooded)		□ Intermittently flooded	poded	0.72		
SALINITY*	o Intermittently/seasonally saturated		□ Semipermanently flooded	y flooded			
o Saltwater	(seldom flooded)		☐ Permanently flooded	oded			
o Brackish	a Permanently/Semipermanent, saturated		□ Tidal/Seiche flooded daily	oded daily			
a Fresh	(dry <1/yr, seldom flooded)		□ Tidal/Seiche flooded monthly	oded monthly			
Chland (n/a)	□ Occasionally flooded (<1/yr)		☐ Tidal/Seiche flooded irregular	oded irregular	9		`

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

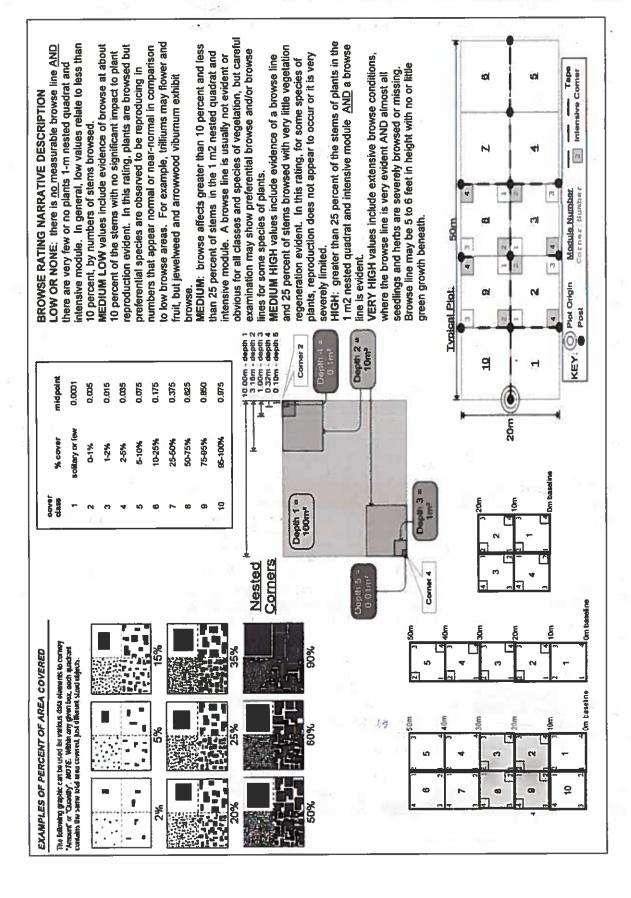
(e.g. wind, storms)

Temporarily flooded

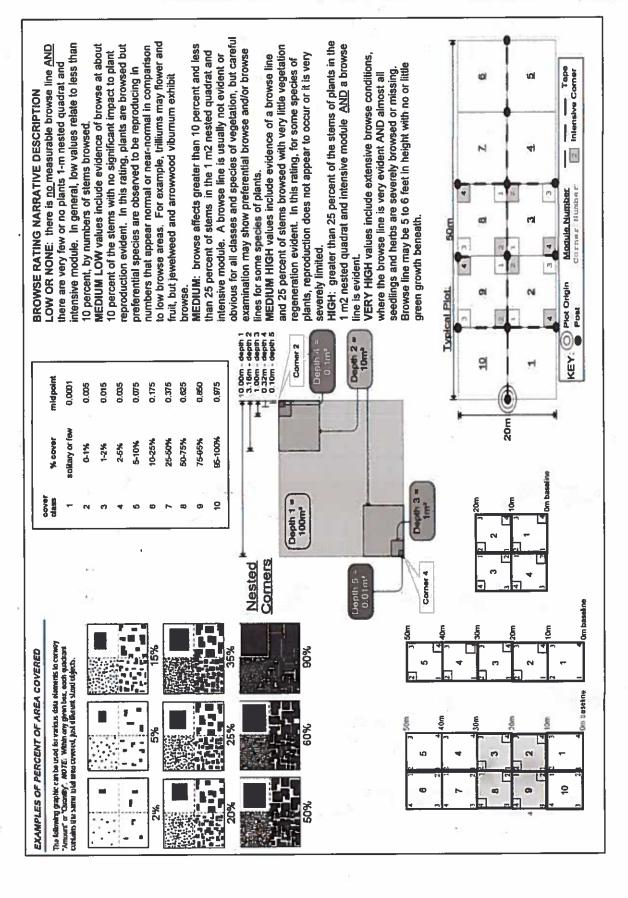
soil was also mostly clay with less sand then a typical floodplain I'm used to significant Privet encroachment on left side of plot. The Rhamnus within plot are very small (seedlings mostly). Plot did not smell of gas but did smell fishy. The stand is somewhat un-everaged. The plot is obviously within a flood plain I kept it a Sugar Maple Community because of the dominance of that species from commonly to shrub layer, though some Sycamore and Pau-taw are intermixed. The

Not 160 % sure it trail to come in was official or bootlog.

Project Label:	PCAP	Project name:	0	RR	2015	2015		Plot no.:	0.	1090	0					d			
Total modules:	9	intensive modules:	10		Pot	Plot configuration:	gura	ion	2	S				Plot	area	Plot area (ha):			10
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9		Estimate for each	2	r	2	2	_	Н	W	2	8	4	œ	N		_		_	20
3	Br = Browse Level. Use cover classes to	intensive module:	depth	S S	depth	NGO	9	g ,	dege S	-	quigh	Ą	depth	ğ	depth	_	depth	VQD	depth
Cleveland	describe amount of browse per species over	%open water	Ē	O		-	-	0		_	-4	0			_	0	10000		
Metroparks	entire plot	%unvegetated open water	Ē	0			Ŀ	0			-	0			-	0			
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Cleveland Metroparks CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Project Label:

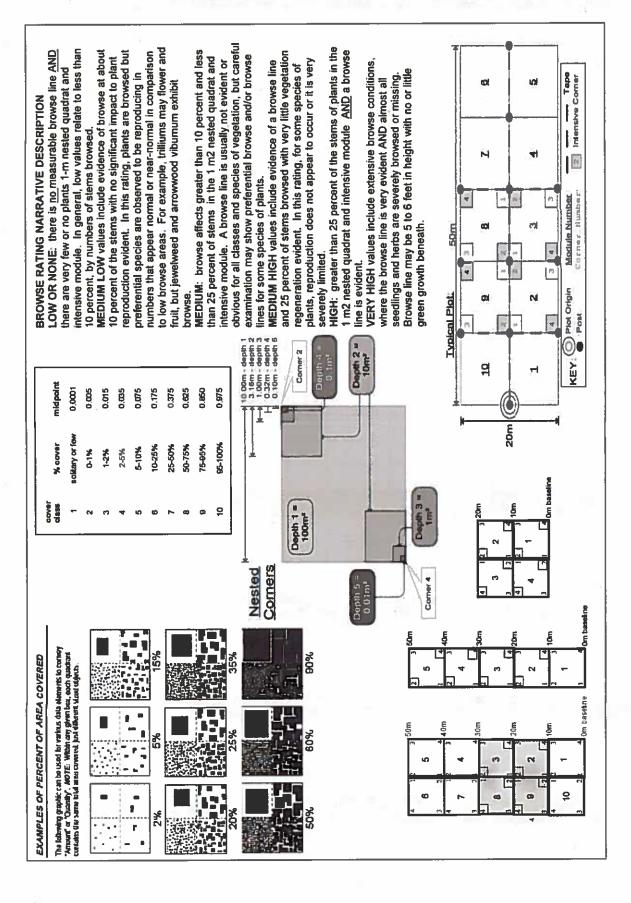
PCAP

Project Label:

PCAP

Project Label: Strata - Cov. entire plot Total modules: S N H (F)(A) Br N 2 Dead hytelacca americano Solanum files pumila Kubus sp. (seedling) Viburnum Marian Manatrapa unitiona Allium tricoccupo Carex & describe amount of browse per species over ONICERA MORROWIL MANUANON Br = Browse Level. Use cover classes to 10 Species entire plot WINTER garifolium dentatum Its year, rudge Intensive modules: %unveg. ground (bare soil) %unvegetated open water intensive module: Estimate for each %unveg. litter (bare litter) CKM392 CKM39 Voucher# %open water depen corner mod corner cov i depth Ş Plot configuration: 12 ş ğ mod 8 Plot no.: d тос 2 X 5 comer 12 1090 ş 8 mod ထ N § QQ corner mod corner mod corner mod F depth Ø Plot area (ha): ş ğ Page 3 of A00 8 7 comer mod ş Ş N N NW N

nodding

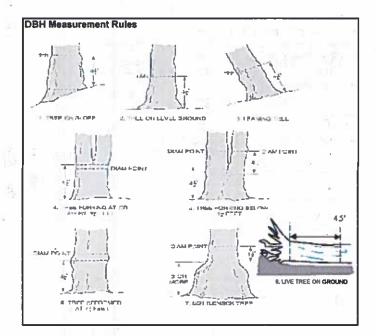


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Page of

		CLEVELAND ME I KOPAKKS Plant Community Assessment Program Natural Woody Stem  Project Label: PCAP Project Name: 0228 2-015  Explain subsample (additional room on back): # stems % sub # size class (cm) woody ster	PCAP back):	# stems	Project N	# lime: 0	Project Name: 0222220/5  Project Name: 0222220/5  K sub   #   size class (cm) wood		Plot No.: 1090	1090	11		Page:	Page: of
	mod #	species	c voucher#	2000	% sub or super	# size	ze class (cm) woo	<u> </u>	ly stems > 2.5~5	5.4m	5 10 10-<15	5 6	5 6 7 8 10 10 <15 15 <20 20 <25 25 -	5 6 7
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-जन	14	Platerus occidentalis												
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7.15	5	Platanus occidentalis												
	15	Acer Saccharum					, i				•	•	•	•



#### Woody Stem Deer Browse

Record the number of sterns/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.
- 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

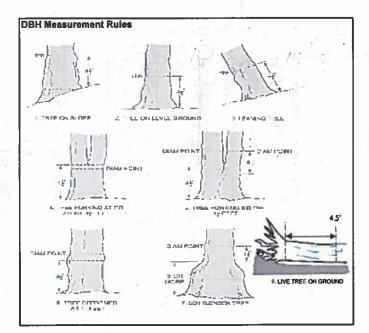
### ASH CANOPY BREAKUP CONDITION (for dead trees):

(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.

00 O B Ŝ CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet CO 7 for the traff TOTAL STANGES TO STANGES LIGUSTRUM VUIGARE Joseph A. RODINIA DEUDONALIA ELONYMOUS ALATUS ROBINIA PSENDOALACIA Ulmis americana Prons Sero HAL Limodendon thippiera Acar Saccharm Acer Sacharm Earymony alatis Explain subsample (additional room on back): ROSA MUST IFLORA platons occidentalis ELIONYMOUS AL. Prens Seroma Frazinus Sp. Standing dead Acer SD- (Seed Acel Privaus Scrotha Prunus Seration IGUSTRUM VUIGHEE Saccharum Project Label: PCAP voucher# # sterns 0-1.4m or super % sub Project Name: 02 22 2015 clumps size class (cm) woody stems >1.4m 2 1-<2.5 2.5-<5 Plot No .: 1090 5-<10 10 - <15 15-<20 20 - <25 Page: 2 25 - <30 30 - <35 35 - <40 5 42.0 >40 (record each tree) 71.4

LIGUSTRUM VULGARE



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

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

Record using the tally system from 1 to















#### **ASH CANOPY CONDITION**

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



В

C

D

E

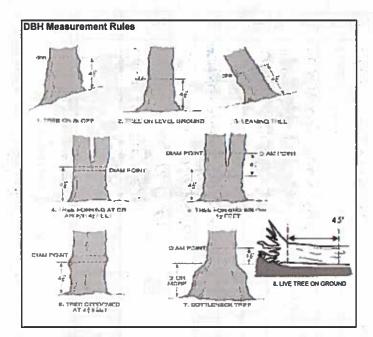
### ASH CANOPY BREAKUP CONDITION (for dead trees):

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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 tertlary main branches present.
- E: Central stem still standing.

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 8 Ø 0 10 a, 10 BERBERIS THUNBERGII 10 o Explain subsample (additional room on back): Standing dead BERBERIS THUNBERGII Privacy Scrotina Rebis alkenters Rubis Femalouis EUONYMOUS ALATAS ROBINIA PSEUD ACACIA EUDNYMOUS ALATUS Grapins pennyliveren LIGUSTRUM VULGARE ROSA MUITIFIORA Assuring trillabor LIGUSTRUM VULGARE Yours Sentia BERBERIS THUNBERGII ROSA MULTIFIORA Accel Sauharum Fraxions jennsylvanica Acer Saccharm Asimina toll-ba traking pensylvent JANUS apples com Project Label: PCAP D 0-1.4m # stems browsed or super % sub Project Name: 02RR 2015 하다 size class (cm) woody stems >1.4m 1-<2.5 2.5-<5 Plot No .: 1090 5-<10 10 - < 15 15 - < 20 20 + <25 Page: 25 - < 30 w 30 - <35 35 - <40 5 40.4 >40 (record each tree)

KOSA MULTIFIORA



#### 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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- 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.



B

С

D

E

## ASH CANOPY BREAKUP CONDITION (for dead trees):

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

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

\* 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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			Self-triple		1,200,000																			-	Woodpecker holes
					er :	N. D. S.	L				Ва	selin	•									3/25/jilos			
				Map all ash trees ≥10cm in each module using Tree ID numb				]	2					_[4	•			*** Change intensive module numbers when necessary			(				
				nodule using Tree ID numi				•							]			mbers when necessary							

Asp all ash trees ≥10cm in each module using Tree ID number 6 2 44 **69** 4

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							- anibnsla			เลกนกรนโนร ที่เลลาโล
							vallow-wort		(9niv)	seasiuol mudansny.
						8	ปรมห Br	Flowerin	(bnsltaw)	eutomus umbellatus
						L		Glant Ho		Unsissegetnem muelberel
	comments		zinsl	# Of P			property and the same of the s		. Z: <b>Yzzezz</b> 92	
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000'τ< :5							Goutweed			einengebog mulbogoga.
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		+							(bneltaw)	ris pseudacorus
-		+				V 1/ 4-1	Bethlehem			Trnithogalum umbellatum
-		+		<del>                                     </del>	-	(shrub)	Ynserry		snı	viburnum opulus var. opu
	2011 ANT		3548	1		(shrub)	ile Viburnum		L	/lburnum plicatum
1	comments	MN	MS ance	-	NE		jueni	ings pur	Videspread a	V :4 19IT
1.1.1.1		TARATI	44.5	as .	- 3N		pactains	d pilago		
trovoles -		-				(sprub)		M DIITED		staloitea einaill
1—						(apure)	oneysuckles		-	Sanstrum vulgare
_						(apus)	narygrass			morrowll, L. tatarica
غبياً ا		-						mgsnd9	(wetland)	Phalaris arundinacea
1		-		-			e Knotweed		(DUBDOM)	Phragmites australis
		-		$\vdash$		(shrub)	gnekthorn			olygonum cuspidatum
						(dunda)	Pra Rose			sunis siugner
<u> </u>	·	1				(an we)		Cattails	EJIIC3	sos multiflora Sosa multiflora
		4					elistle		P200	ypha angustifolia, T. x.gis Citsium arvense
		Š.		$\rightarrow$		100	lesseT n			
F	-047-90-		, "					Dame's		ipsacus fullonum desperis matronalis

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

	10	9	œ	7	6	σı	4	ယ	2		mod #			, i
9										None Tresent	species			Project Label: PCAP Project Name: 02 2 2 2015 Plot No.: 1
											voucher#	:		: Communi
											shrub	*		PCAP
						V					0-<1	size class (cm) woody stems >1m		Projec
e'											2 1-<2.5	m) woody		Project Name: 02 PR 20/5
					200000000						2.5~5	stems >1		02 R
	10. 44.0	4									5-<10	_ 3		2201
											5 10 - <15			, Q ais 0
											6 · 15 - <20			Plot No.:
											7 20 - <25			1096
											25 <30	_		•
											30 - <35		1	Page:
											10 35 - <40			- Clause
											7 8 9 10 11 20 - <25 25 - <30 30 - <35 35 - <40 >40 (record each tree)			Claveland Matraparts of
				- 35.8		Val					ت		1	1

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

Strata	# of stam	Severity (H,M, or L)	* Write None Present if no evidence:	
Tree (size class 3 or above)			MONE Beech (Fungus) Nove ?マ	<b>ルパートルイトAsian Longhomed Beetle</b>
Shrub (size class 2 or below including shrub clumps)				Other Pest or Pathogen
clumps)			Hemiock (HWA)	Other Pest or Pathogen
			Walnut (Thousand Canker)	5

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

		$\bigcirc$	
*			

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

Project Label: PCAP Project Name: 02 LK 2015

Plot No.:

1090

@ Glovel and Metroparts Page: 1 of 1

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

			Module 8 C7 Corner Corner	STANDING BIOMASS (required for emergent wetlands): collected in 0. Im clip plots (32x32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C7=check when collected
	197			
2	7 5	E	9	CL

CLASSIFICATION			
(FIT = excellent g Fit and Confidence			
Hydrogeomerphic class (WETLANDS ONLY):			
g DEPRESSION	ET	Conf"	
a IMPOUNDMENT a Beaver a Human	7	Conf=	
DRIVERINE DHeadwater DMaintern DCharact	File	Conf	
D SLOPE (ground water by drology or on a physical slop)	Fig. 1	Confæ	
p FRINGING o Reservoir o Natural Lake	150	Conf*	
a COASTAL (specify subclass)	File	Copf	
D BOG (strongly, moderately, weekly ombrotrophic)	Fitz	Conf=	
Obje EFA VIBI Plant Community Class (WETLANDS ONLY):	CAIN		
o FOREST o awamp forest o bog forest o forest seep o EMERGENT o marsh o wet meadow o open bog	7 7	Confr	
a SHRUB a shout swamp a tail sh, bog a tail sh for	File	Confi	

		MICROTO	Control Second
		POGRAP	The second secon
		HC FEAT	Party (80) Party III
		URE COU	The section of the se
		NIS IN	STATE OF THE PARTY OF
		nsive mo	
		dules on	
	F	*	

Ranks for microhabitet features. Select one or salect two and average the score.NOTE: If mod falls on a slope automotive for microhabitet features.

Slope 2 = falls on slope -20\*

escally gets ranked based on steepness (1-3) to begin • any features present Slope 3 = maximum sleepness that can be salely sampled -45"

> Terrain Shape Index (site microtopographic shape) Landform Index (position within landscape)

+225 degroes

W.S

eye of person standing ~10 m

+ NO degrees +135 degrees

SE

+45 degrees (yi) degree

畜

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

Al aspect

+315 degrees +270 degrees

WN

٤

Allega

Hope 1 = slight elevational grade across module (hill)

- feature is absent or functionally absent from the wetland
- teature is present in the wettend in very small amounts or if more common, of low quality
- feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality

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

	9	8	4	4	medir		Ŷ				
					torner						
	0	0	30	3	(count)	lxim	depth 3		tussocks	no. of	1
	0	0	0	0	(count)	3.16x3.16m	depth 2	uplands (Tip-Ups)	hummocks	no. of	
e <sup>2</sup>	D	0	c	0	(count)	16x10m	depth 1		depressions	na macro.	
trapit.	17	15	11	8	(count)	10x10m	depth 1		(2-12 cm)	C.W.d	
	0	-	C	1	(count)	10x10m	depth 1		(12-40cm)	cwd	
	0	0	0	0	(count)	10×10m	depth 1		×40gm	CMS	
	-	1	1	1	(rank)	10x10m	depth 1		interspers.	microhab.	
	_	1	1	1	(rank)	10x10m	SLOPE			microhab	

9-		w-	n-	Madule	
-	2	0	-	2	And the second s
4	W	2	6	s	
-	w	_	2	(41	1
2	4	0	0	*	1

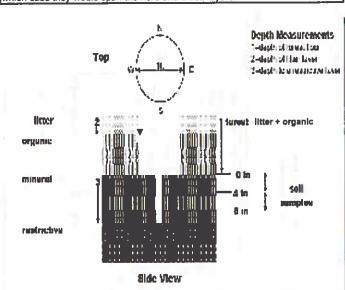
NOTE: bussock and hummocks are counted in BOTH nested quadrat corners but counts are aggregated.

VER		

STRATUM	GENERAL FORM
Tree (generally >5 m)	Tree (overstory), very tall shrubs*, liana, epiphyte)
Shrub (generally 0.5 to 5 m)	Tree (sapling), shrub, fiana, 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.



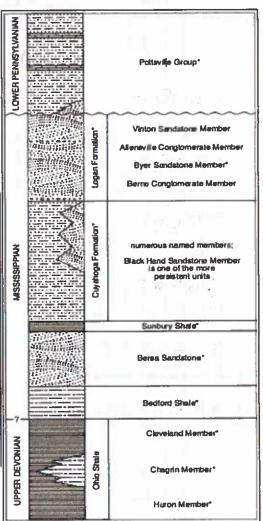


FIGURE 3-20.—Generalized section of Upper Devonian, Mississpian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are fossilifetous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Waverly" is used in the older literature to refer to Mississpian rocks in Ohio. Some geologists use the European nerm "Carbenferous, which encompasses the Mississpian and Pennsylvanian Periods 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 spectacular massive sanistone that is fairly widespread but discontinuous. See Hyde (1953), Hoover (1960), and Colinis (1979) for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of rock types.

CLEVELAND METROPARKS Plant Community Assessment Program - Solls, Crown Cover, Standing Biomass Data Sheet 6a

Project label: PCAP Project Name: 02 5 3 2015

Plot No.: 1040 1040

(1) CleveSand Hichoparks

Page: 1 of 1

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

Soil pit module #

(one per entire piot)

8

matrix color

sottle color mottle

1009G

percent

(Euch < 100%)

Coarse Woody Debrus\*\*\*

 $\infty$ W

nderlying Earth Surface\*

Ground Cover

dineral Soil

0

Fine Woody Debris\*\*\*\*

could roots

icxilure\*

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

EARTH SURFACE & GROUND COVER

o Well de c impan C Excessi Depth to Soil Serie Soil Serie Parent M. o Somew DRAIN Landform Soil Collection Modul Heric Web S 2,3,8,9 co

20 cm

matrix color

ottle color

oxid roots

z

6mottle

hydr. cond.\*\*\*

SMD

edox features\*\*

z

reable surface	that poorly dr	7	CE*	aterial:	rest. Layer	type:	s Source: Ohio Soil Survey	s/Type:	Survey informations	mposited A	chion tennal statutes (v. c. r.)
		**** 6	*** >5 cr	**Boulde	• Gravel-	Bedrock	Boulder*	Gravel-C	Mineral S	Histosol	talent 10

Boulder\*\* Gravel-Cobble\*

Duff (Ferm + Humus)

0

Bryophyte- Lichen

\*\*\*\* S cm in diameter

Other

\*\* >5 cm in diameter \*Boulder = > 10 m Gravel-Cobble = 1/16-10\*

Road/Trail

1

0

Bare Soil Water

Strata Tree Shrub Herb	55.55 5 .55	
Herb	0 - 5	
(Floating)*	1	
		l

n Deer	a Gravei	Booileg u	Hiking sanctioned	a Bridle	a All Purpose	ype	record type a
		Bootleg unsanctioned	ctioned				ecord type and cover for each
		_				%Cover	ach.

SOIL DEPTH 0.1 cm in cent record as >30	SOIL DEPTH MEASUREMENT: Measure to the nearest 0.1 cm in center of intensive modules. If >30.5 cm, record as >30	REMENT:	Measure to t	he nearest ),5 cm,
Ppotts	I litter+ organic depth (cm)	2 litter depth (cm)	water depth (cm)	depth sat soil (cm)
2	3.2	3.2	0	0
W	2.1	2.1	G	0
2	1.9	8	0	0
9	2,0	2.0	Ø	0

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

refer to texture classes on reverse side

hydro, cond \*\*\*

I S M D

edox features\*\*

<

z

-indundated S-saturated M-moist D-dry-totes: include evidence of earthworms (worms

stings, middens)

70	a < plot size	o 1-3 x plot size	a 3-10 x plot size	10-100 x plot size	o > 100 x plot size	□ >600 x plot size	STAND SIZE
_		9	Ť	_			_

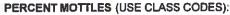
Mad 3 - worms, Middens E Castins form

Mod 2-Castings pres

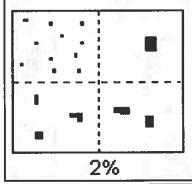
- No Worms

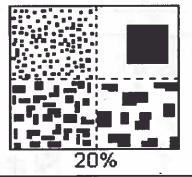
Mod 8-isons, lassing

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



Class	C	ode	Criteria: % of
1 2	Conv.	NASIS	Surface Area Covered
Few		#	< 2
Common	c	#	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.

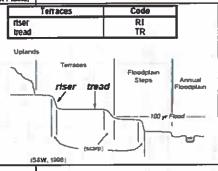
- 0= Organic
- 1= Loamy
- 2= Clayey
- 3= Sandy
- 4= Coarse Sand
- 9= Not measured make plot note

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

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

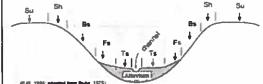
_
5

higher order street



Hilislope - Profile Position (Hilislope 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.

POSAKIN	C008		
summit	SU		
shoulder	SH		
backslope	BS		
rootslope	FS		
toeslope	TS		



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

UPLAND: Not a wetland. Very rarely flooded.

(PJS, 1996; ada

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.