CLEVELAND MET	ROPARKS Plant Community Asse	_	500 10
Project Label:	PCAP	Plot No	o: 10[[Date Sampled: _06/23]]5
			Comment required if item answer is NO
Parking/Access outside	de of Park Boundaries:	Y N	If yes, write details in Comments section below
Field journals comple	ted	N N	
Site sketch made on 1	:3000 map?	Y N	
Check cover page	X-axis Bearing of plot recorded	N	
	GPS coords. Recorded	Y N	
	North direction recorded	N (XX)	
	Photographs taken?	N	
	Relocated Pins Mapped	N	
lot No., Date agreen	nent on all pages?	N (XX)	
leader data complete	ed all pages?	N (Tr	
	d in all Intensive modules	N	
Browse Level By Spe	cies	(X) N	
Woody stem quality o		Y N	Check every line and cross check with the Tree Cover Sheet
nvasive plant quality		X N	INIA
Ash trees mapped		N	1.1//
	st/Pathogen Datasheet	Y N	
Cover by Strata? (con	No. of	YN	
		YN	N/A
	d with matching plot #.		
Cross check 2010 inf		N N	Highlight any changes from 2010 information
7,000	datasheet with initials and number	Y N	
Vouchers labeled on	collection bag	V N	11011 / 11 / (mai : 1011)
Pink flags removed		N	Left (men flags (not introl)
Data sheet QA before		N (Y)	
Common equipment		YN	
Data sheets scanned?		05/6/12	Enter date to left
inal data sheets scan	ned?		Enter date to left
Buffer Widths measu	red?	YN	
Web Soil Survey		YN	
Voucher Location	Refrigerator	N (Y)	
# vouchers collected)	Press (#)		Enter number to left
ACI	Drier	YN	
261 -	Identified	YN	
306-	Mounted	YN	
320	Thrown away	YN	
GRTS point verifica	tion: Is plot sampleable?		
□ Xes	Original GRTS point is sampleable		
D No	Original GRTS point lands in a non	to the second second	SII in category below)
0 140	Point falls in a water (i.e. river,		ini m category netowy
	Managed mowed area (i.e. gol		ght-of-way)
	Paved area (i.e. parkinglot, road)		
	Unsafe to sample (i.e. steep slop		
	Other		100 VX
Additional Commen	its:		

9 (2) (2) (2) (3) - 2 ٠. an e

CENEBAL INEORMATION	I OCATION	
Project Label: PCAP	State: OH County Link Ango	#
Project Name: 028e2015	angle:	(
Plot Name: Suppl Easy Fun	Local Place Names:	7.4
I'me Plat	FORBES WOODS	2.10 3 4 3 4
Plot No.:		Part # 1/2 . 195 154 X
 Level 4 (no nested corners sampled) 	Data Confidentiality:	
■ Level 5 (nested corners sampled)	Check one: C. Public data Derivate Data	
Date (mm/dd/yyyy): 06/23/2015	o Fuzz 100m o Fuzz 250m o Fuzz 500m	15 83
End date (if > 1 day): / /	Reason:	Dlat crisis GPS location and the
Party Role**	If data not public why?	Key: (0,0) point point point point with direction permanent posts
A Lance Plot leader	Source of coordinates OMAP GPS	NOTES: Include Layout (any unusual shape details), Location (directions and landscape content) Restaurate (why here) and Ves Characterization (description of community
S. Eusenbach Bot A		dominants, strata, BROWSE). Additional notes in space on back.
	■ LaVLong □ UTM □ StatePlane ■ deg □ deg min	Lauous 3 xx c + tuous-1
J. Cochran Crew	o Other (specify)	
E. Knawss Crew	Datum: NAD83/WGS84 ONAD27	Location & Approx. SO m north of the
** Roles: Co-leader, Assl., Guide, Owner, Taxonomist, etc.	GPS location in plot x=0 to 5, y=-1,0,+1):	TILL IN P. I. A.
PLOT NOT SAMPLED: GOther	x = O y = O(base of plot x=0, y=0)	Torbes woods larking fire.
p. Perm. water	Latitude: 41, 37318	0
G QUALITY*	Longitude: 81,50523	Mationale > GRTS. PCAT re-sample
Effort Level: subjective evaluation of	Coord. Accuracy: o'm o ft 2+-	
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Accurate may still provide good	2	Vocatatal all CII T
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Project Label:	PCAP	Project Name: 02Ba 2015	Plot No.: Old	of 2
MODIFIED NATURESERVE CLASS*		DISTURBANCES		T
CODE (on separate form):	Fir Conf	type* severity**	yrs ago % of plot description	Т
		Human	O HOLE MOWING	
ハンナーハ	4.	Natural		2
COMMUNITY NAME:		Fire		T
		Cut	8	
1 Old Held (210 yrs	yors)	Animal	0 (00% Browse	Τ
Andrew Control of the Control		Bet -less Mr	Other Other	
HOMOGENETTY	3	L-low, ML-like low	O O O	T
	Compositional trend across the plot	Current Land Use:	DEPICIAL TARKE	
E Compressions of incidental instance in inci	HYDROLOGIC REGIME*			
	Chland (seldom flooded)	□ Intermittently flooded		
SALINITY*	□ Intermittently/seasonally saturated	□ Semipermanently flooded	7	
o Saltwater	(seldom flooded)	D Permanently flooded		* *
o Brackish	a Permanently/Semipermanent, saturated	ated Tidal/Seiche flooded daily		
o Fresk	(dry <1/yr, seldom flooded)	a Tidal/Seiche flooded monthly		
Copland (n/a)	□ Occasionally flooded (<1/yr)	n Tidal/Seiche flooded irregular		
3	□ Temporarily flooded	(e.g. wind, storms)	-	
(by default unless plot is a wetland)		n Unknown		Γ
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)	ss of plot to the stand, successional sta	lus, maturity, etc.)		- 4
The back corner of	mod 3	is a mowed area,		_
-				+
Canopy of this plot	used to	be green ash.	be green ash, all have died by	
this sampling.				
Recent herbicide use c	on privet has In	npacted several sp	Recent herbicide use on privet has impacted several species throughout the plot.	
				7

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CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Flat plans sturts in prodons157 صامار 723 CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet
Project Label: PCAP Project name: DABEA015 Strata - Cov. entire plot Total modules: **Cleveland Metroparks** H (F)(A)Br Spalygonum saygitatum Poorege sp. Queceus sp Portentilla Hsteracea Carer sp. Phalacis arundinacea Kosa multifloca TEWN TT. Harinstis Sh. Shiceria onicera maackii explis stricta -eersta virginica an spati oxicodend on fadicans describe amount of browse per species over araxacum officinale Br = Browse Level. Use cover classes to actulis alomerata pensylvanicus striata < elamis Species entire plot canadanse <u>Pratensis</u> Spo Chicaris Hold o Intensive modules: 4 %unveg. ground (bare soil) %unvegetated open water intensive module: Estimate for each ACL308 Sunveg. litter (bare litter AC 309 ACL 307/3 ACL306 Voucher # 17-10-15 %open wate S cov depth 7 Plot configuration: 2×3 роп Ş Ş נס 6 6 a ** Q Plot no .: 1011 тоф ş 8 -**००**द्धाः 2 Q. þ 8 Q Q Gş Plot area (ha): . 06 800 ş Page 1 of 4 2 2 80 6 ş ş

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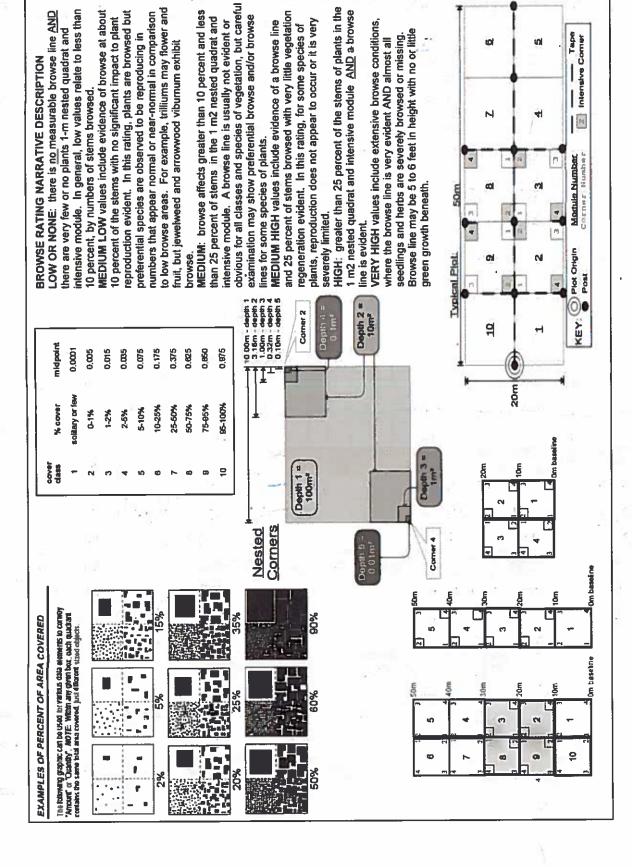
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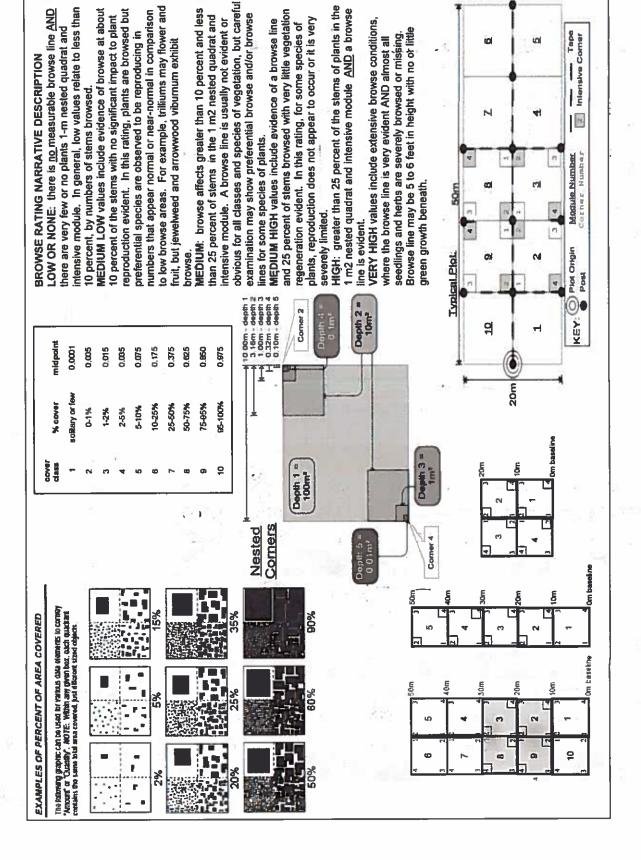
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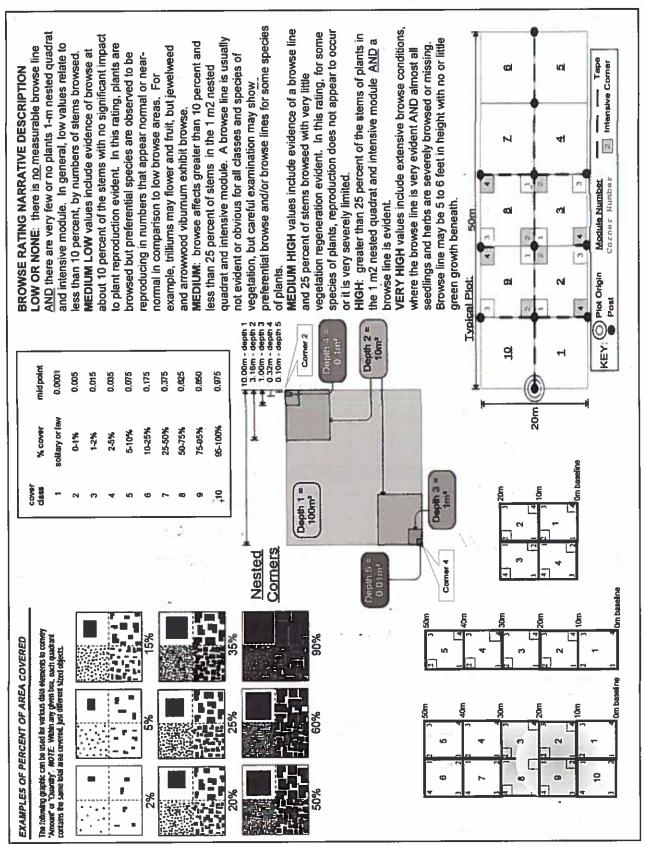


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X ACL 311	SRF17-10-15	200	2-16-15	X ACL 310	c Voucher#	%unveg. litter (bare litter)	%unveg. ground (bare soil)	%unvegetated open water	%open water	intensive module:	Estimate for each		Intensive modules:	Project name: 02 Se 2015	ment Program Speci
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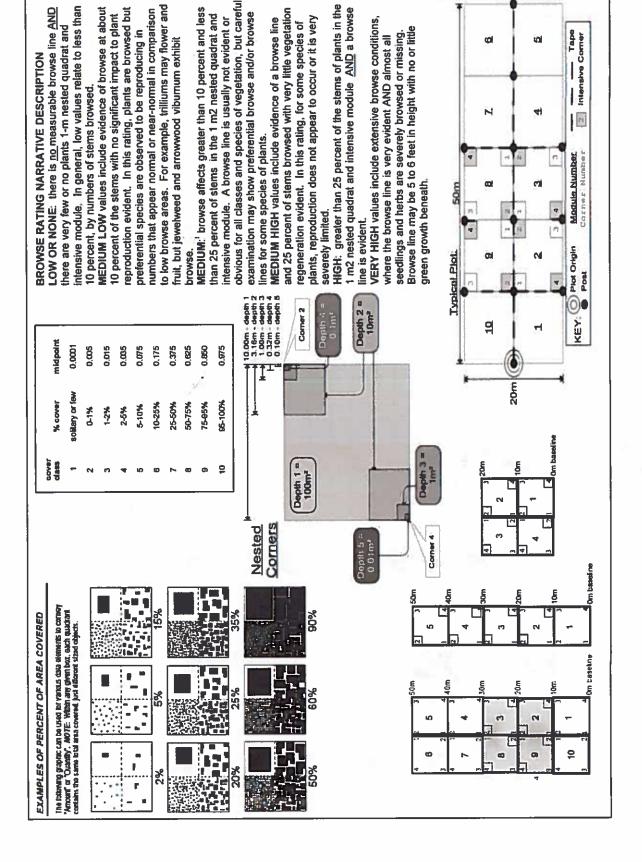
CAP Project name: DBL 2015 Plot no.: 01 Intensive modules: Plot configuration: 2 × 3 Plot area (ha): Intensive module: Plot configuration: 2 × 3 Plot area (ha): Les cover classes to browner per species over the plot Plot configuration: 2 × 5 V S S V S S V S S V S S	2 Cirsium VI		2 Anthoxanum	Dancas Dancas Lonicera Dancera Cornonia	cov. entire plot	CLEVELAND METROPARKS Project Label: Total modules:
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Natural Resources Management FORM NR/2010-02b

2bCM PCAP Species Cover Data Sheet Back Page_ver 1.3.ppt

CLEVELAND ME Project Label: Total modules:	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Project Label: PCAP Project name: DA 84.3015 Total modules: 6 Intensive modules: 4 Plot configurations for each intensive module: 6 again on the cover data.	nent Program Speci Project name: Intensive modules:	n Spec t name odules	rogram Species Cove Project name: ABunsive modules: 4	odules: H Plot	odules: H Plot configuration of the configuration o	Plo uration:	Plot no.:	Plot no.: 10 uration: 2x od comet mod comet	Plot no.: 10 uration: 2x od comet mod comet	Plot no.: 10 uration: 2x od comet mod comet	Plot no.: O Pration: 2x3 wash carried mod corner mod	Plot no.: O Plot a pration: 2 × 3 Plot a prod corner mod corne	Plot no.: O Plot a pration: 2 × 3 Plot a prod corner mod corne	Plot no.: O Plot area (ha): In a corner mod corner mod corner mod corner corner
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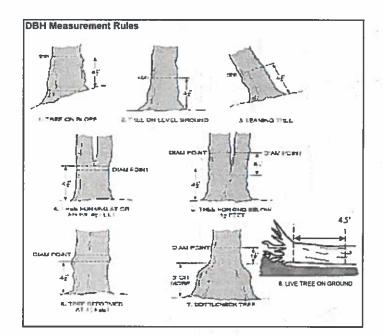
CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet
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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Purhandissus qui pavellis Rubus penysylvanicus Crataequs Sp. Pubus alleghaniensis Aubus genosy lyanicus HUXINUS Sp. Rubao attennamento Explain subsample (additional room on back Kasa multiflora STANDING DAD Fraxinus sp. Rosa multiflara pricera modoci Onicem monthi litis Sp. officiants S TANDING DEPO -igustrum Mulgave TOPA MULTINA igu Shum Vulgari loxicadendian radictions lmus amenicand Project Label: PCAP voucher# 3 browsed 0-1.4m # sterns S r در sample or super % sub Project Name: Od PEDOIS Plot No.: 1011 clumps 0 9 shrub • size class (cm) woody stems >1.4m 2 1-<2.5 ۰ 2.5-<5 5~10 6 × 10-<15 15 - < 20 20 - <25 Page: 25 - <30 30 - <35 Seland Metropaiks 35 - <40 6 >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.
- 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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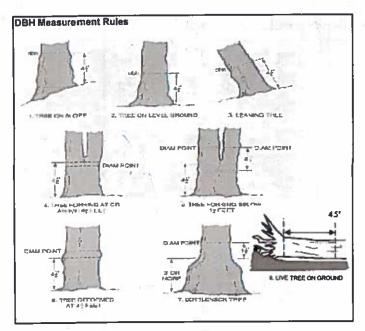
ASH CANOPY BREAKUP CONDITION (for dead trees):

(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.

magned above CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet parthenicistus quintyletuin Rhamous Francial PORTUZ MOCOBCANZA Rubus pensivimination Explain subsample (additional room on back) Chatapaus so Rhamous franquia Rubus pensylvanicus Ulmus americana Fraxinus So. phylography sylvenocially and a completion Toxicodendronaladicans parthenocissus anotheria Fraxinus So Rosa multiploca Lighty m vulgare Rubus proby hanic Ulmus amenicana Lioustrum vuldare Ornus so jastrum vulgare Concera Japonica THUDING BOAD Project Label: PCAP 10 4 10 90 0-1.4m # sterns browsed or super % sub Project Name: 02 86 2015 . 区 shrub • * 6 size class (cm) woody stems >1.4m 7 1-<2.5 2.5-<5 Plot No.: 10 5-<10 10 - <15 15 - <20 Ġ • 20- <25 Page: O 25 - < 30 • 30 - <35 35 - <40 5 >40 (racord each tree)





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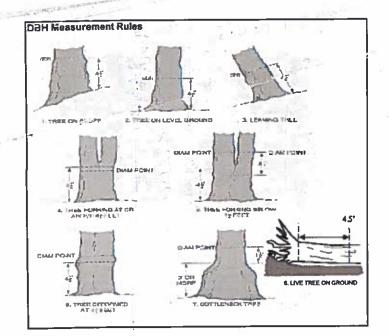
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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet DEED BY TONNETS O Proxinus Sp. Rubus pensyhanicus Lasstrum vulgare on icera maacki hosa muttillora Project Label: PCAP voucher# 5 0-1.4m نو or super % sub Project Name: 02 BF-2015 clumps shrub # size class (cm) woody stems >1.4m 2 1-<2.5 25-45 Plot No.: 101/ 5-<10 10 - <15 15 - <20 . 20 - <25 Page: 25 - <30 30 - <35 of Cleveland Metroparks 35 - <40 5 >40 (record each tree) =



Woody Stem Deer Browse

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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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*** Change intensive module numbers when necessary

<u></u>

Map all ash trees ≥10cm in each module using Tree ID number

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey

[NE 12: Early detection/Rapid response | Presence | GPS | NW|

[NE 24: Early detection/Rapid response | Presence | GPS | NW|

[Presence | Presence | Presence | GP

Vinca minor	1					
	(T9V03-D)	Periwinkle		\rightarrow		
Hesperis matronalis		Dame's Rocket		\rightarrow		
Dipsacus fullonum		Common Teasel				
Cirsium arvense	***	Sanada thistle				
Ig.x .T ,eilofitzugne erlqyT	eone	(bnetlaw) alietteD				
Rosa multiflora		Multiflora Rose	(q			
Frangula alnus		Glossy Buckthorn	(q			
Polygonum cuspidatum		Japanese Knotweed				
Phragmites australis	(wetland)	Phragmites				
Phalaris arundinacea		Reed Canarygrass				1.
L. morrowii, L. tatarica		Bush Honeysuckles	(d:			
Ligustrum vulgare		Common Privet	p)			
Alliaria petiolata		Garlic Mustard				
	MANUEL STREET		NE	as	MS	MN
14 19IT	Videspreadiv	tnsbruds bri		ear4	еисе	100 COL
Wiburnum plicatum		Doublefile Viburnum	(q			
Viburnum opulus var. opu	snj	Еигореап Стапреггу	(q			
Ornithogalum umbellatur	ι	Star of Bethlehem				
Iris pseudacorus	(wetland)	Yellow Flag Iris				
Rubus phoenicolasius		Wineberry				
Pulmonaria officinalis	(G-cover)	Lungwort				
Philadelphus coronarius	. '	Mock Orange	(qr			
Pachysandra terminalis	(G-cover)	sapanese Pachysandra				
Eleutherococcus pentaph	sn _{II} /	Five-leaf Aralia	(q			-
Coronilla varia	(G-cover)	Crown Vetch				1977
convallaria majalis	(1 9 voɔ-2)	Lily of the Valley				
			INE	ZE	MS	MN
The state of the s	Presence is	of interest		10 #	sinal.	COL
ISHIDA IOI COHIAHODA			-		_	
Euonymus fortunei		Wintercreeper				
Lonicera maackii		Amur Honeysuckle Wintercreeper	(q			
Elaeagnus umbellata Lonicera maackii		Autumn Olive Amur Honeysuckle Wintercreeper	(qı			
Dipsacus laciniatus Elaeagnus umbellata Lonicera maackii	V majorini di Naziona (di Naziona)	Cut-leaf Teasel Autumn Olive Amur Honeysuckle Wintercreeper				
Alnus glutinosa Dipsacus laciniatus Elaeagnus umbellata Loniceta maackii		European Alder Cut-leaf Teasel Autumn Olive Amur Honeysuckle Wintercreeper	(qı			
Berberis thunbergii Alnus glutinosa Dipsacus laciniatus Elaeagnus umbellata Lonicera maackii		Japanese Barberry European Alder Cut-leaf Teasel Autumn Olive Mintercreeper				
Rhamnus cathartica Berberis thunbergii Alnus glutinosa Dipsacus laciniatus Elaeagnus umbellata Lonicera maackii		Common Buckthorn Japanese Barberry European Alder Cut-leaf Teasel Autumn Olive Wintercreeper	(qı			
Berberis thunbergii Alnus glutinosa Dipsacus laciniatus Elaeagnus umbellata Lonicera maackii		Japanese Barberry European Alder Cut-leaf Teasel Autumn Olive Mintercreeper	(qı			
Torilis sp. Conium maculatum Rhamnus cathartica Berberis thunbergii Alnus glutinosa Dipsacus laciniatus Elaeagnus umbellata Lonicera maackii		Hedgeparsley Poison Hemlock Common Buckthorn Japanese Barberry European Alder Cut-leaf Teasel Autumn Olive Mintercreeper	(qı			
Celastrus orbiculatus Torilis sp. Conium maculatum Rhamnus cathartica Berberis thunbergii Alnus glutinosa Dipsacus laciniatus Elaeagnus umbellata		Poison Hemlock Common Buckthorn Japanese Barberry European Alder Cut-leaf Teasel Amur Honeysuckle Wintercreeper	(qı			
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SRE_CM PCAP Forest Pest and Pathogen Data.xls last revised 6/10/2015 j/m

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											species		Explain subsample (additional room on back):	*LEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Sheet Project Label: PCAP Project Name 02 BE 30 5 Plot No.: 1011	
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											7 8 9 10 11 20 - <25 25 - <30 30 - <35 35 - <40 >40 (record each tree)			Matyoparks	

Strata	Total % Cover
Tree	
Shrub	
Herbacous	

* Write None Present if no evidence	idence:	
-Beech (Fungus)	-Asian Longhorned Beetle	de
-Hemlock (HWA)	-Other Forest Pest or Pathogen	athogen
-Walnut (Thousand Canker)	anker)	

STANDING BIOMASS (in 0.1m clip plots (32x32 c module. Required for VIB collected	Froject Label: PCAP Project Name CD DE COUDE STANDING BIOMASS (required for emergent wedlands) collected in 0.1m clp plots (32-32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C7-check when collected	Project Name wellands) collected in each intensive welck when	74.07	CLASSIFICATION				
Module #	C7 c	Corner Corner		(FIT = coordient, g Fit and Confidence Hydrogeomorphic class (WETLANDS ONLY):	Confidence CWETLANDS ONL	\$		
			579	a DEPRESSION a IMPOUNDMENT a Beaver a Human	Beaver offuman	7 7	Conf	
9%				ORIVERINE OHeadwater OMainstem OCharrel	iler o Mainstein o Ch		1	
		2011		O SLUPE (ground water hydrology or on a physical alogs o FRINGING o Reservoir o Natural Lake o COASTAL (specify subclass)	ptrology or on a physical bir ti Natural Lake			
		7.		ci COASTAL (specify subclass) BOG (strongly, moderately, weekly ombrotrophic)	ately, weekly ombrotro	Fit-	Conf	
			7.	Ohio EFA VIBI Plant Community Class (WEILANDS ONLY):	INTROD Spanner	INO SON		
				o FOREST o swamp forest o bog forest o forest seep o EMERGENT o manh o wet meadow o open bog o SHRUB o skunb swamp o tall sh. bog o tall sh. fen	est u bog forest a fore a wet meadow to ope op to tall sh. bog u tall	stroop File	Cont. Cont.	
Flumbs for microhabitat feets sleeps 9 = sight elevational sleeps 1 = sight elevational delta to be seen or funct delta to be seen or function o		two and average the s	core_NOTE: If mo					
7 feature is present in mod 10 feature is present in mos	sees 1 = sight elevational grade across module (NB) Slope 2 = talls on slope automatically gets ranked besed on steapness (1-3) to begin + any featurer to sight elevational grade across module (NB) Slope 2 = talls on slope -20° Slope 3 = maximum steapness that can be safely sampled -45° feature is absent or functionally absent from the wetland feature is present in the wetland th 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 I neature is present in moderate or greater amounts and of highest quality Or the count for places with minimum 1 m length	edand unts of if more common highest quality, of in sr	Slope 2 = talls on slope -20° n., of fow quality mell errounts of highest quality	of falls on a sloops automatic stops -20° stops -20° gheat quality	Stope 3 = maximum steepness that can be salely sampled ~4.5* for please with minimum in length	d on skeepness (1-3) skeepness that can be	to bogin + any faet saleky sampled	es present
7 feature is present in mod 10 feature is present in mod	nal grade across module (hill) nal grade across module (hill) nctionally absent from the ver he wettend it very small amount noderate or greater amounts not of i tussocks	retaind under common under or if more common highest quality, or in are and of highest quality no. of na. of humanocks	Slope 2 = talls on n, of low quality nall amounts of la no. macro. depressions	of falls on a slope automatic alcips – 20 " pheal quality C. W. d COURT (C. W. d. (2-12 cm)	Slope 3 = maximum steepness that ca Slope 3 = maximum steepness that ca C.w. d count for pleases with minimum. Im length c.w. d. c.w. d. c.	sieepness that can be sieepness that can be church the length c.w.d	to begin + any teet to begin + any teet raicrobab. interspers.	
7 feature is present in mod 10 feature is present in mod	nal grade across module (hill) nal grade across module (hill) nctionally absent from the ver the wettend in very small armout noderate amounts, but not of t moderate or greater amounts i no. of tussocks depth 3	refaind unto a commos unto a if more commos highest quality, or in ar and of highest quality has not of highest quality hazamacks pleased (Tip-Ups) depth 2	no. macro. depressions depth 1	of falls on a slope automatic sicpe -20° sicpe -20° C.w.d count (C.w.d count) C.w.d count (C.w.d count)	Stope 3 = maximum s Stope 3 = maximum s for pieces with minis c.v.d (12-40cm) depth 1	d on sleapness (1-3) sleapness that can be c	to begin + any feet salely sampled -distributed interspers.	
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Bodd corner to present in mod to feature is present in mod to mod to make the mod humans.	nal grade across module (nil) nationally absent from the well the wellered in very small amount moderate or greater amounts. mo of tussocks Xim (Count)	wedand outland to commo dringhest quality, or in are as and of highest quality, or in are suplement (Tip-Ups) alepta 2 3.16x3.16m1 (count)	no, of low quality nell emounts of his depith 1 10% (from (count))	of fails on a slope automatic steps – 70° C.w.d. – count (Slope 3 = maximum states of the places with mining c.n.'d (12-40cm) depth 1 10×10m	don steepness (1-3) to steepness that can be steepness that can be steepness that can be steepness (1-3) to steepness that can be steepness t	microbab. microbab. micropers. (mik)	

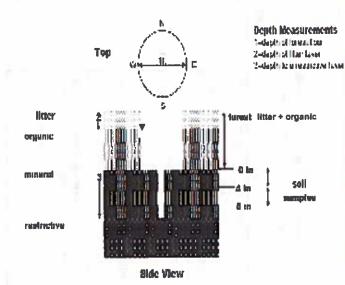
COVE		

COVER DI SIRAIA	
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.



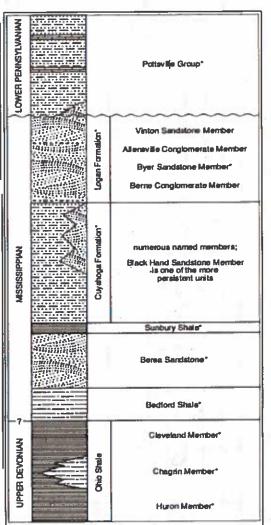
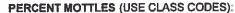


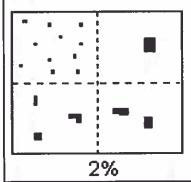
Figure 3-20.—Generalized section of Upper Devenian. Mississippian, and Lower Pennsylvanian formations in northeastern Ohio. Asteriaks indicate units that are feasilifetous. This composite section represents about 400 meters of rock exposed across the area. The section is not to calle, but the thicknesses indicated are proportional. The term "Waverly is used in the older intrature to refer to Mississippian rocks in Ohio. Some geologists use the European term "Carboniérous," which encompasses the Mississippian and Pennsylvanian Periods of the U.S. Many units have been named within the Cuyahoga Formation, but most units are local and camars be traced over great distances. The Black Hand Member 19 a spectacular massive sandstone that is fairly undergread but discontinuous. See Hyde (1953). Hoover (1960), and Colins (1979) for more information on Mississippian rocks in Ohio. See figure 3-16 for explanation of rock types.

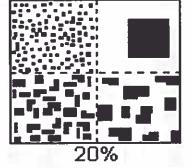
206/86100

(30)		
SOIL PIT DESCRIPTION: Excavate 20 cm		
Ping will snovel Describe using Ministell that, visual exam, lexture, and odor	SOIL SAMPLES Standard procedure: collect a soil sample of the top 10 cm of soil from center of each miterative module and composite the sample	EARTH SURFACE & GROUND COVER
Soil pit module # (one per entire plot)		Underlying Earth Surface* Ground Cover
5 cm matrix color	Soil Collection Modul Herizon (A. B. C)	(Each ≤ 100
monte color	2,3,8.9 compesited A	Coarse Woody Debris***
%mottle	Web Sail Survey Information:	Mineral Soil 100% Fine Woody Debris*** 5%
oxid roots Y N	Soil Series/Type:	he* Litter
texture*	Soil Series Source: Ohio Soil Survey	Duff (Ferm. + Humus)
redox features** Y N	Landform type:	(
hydr cond.*** I S M D	Depth to rest Layer:	* Gravel-Cobble = 1/16-10" Water
20 em matrix color	Paren Material:	**Boulder => 10 in Bare Soil
mottle color	DEADWAGE.	*** >5 cm in diameter Road/Trail
%moule	© Execusively th. © Somewhat excessively	**** <5 cm in diameter Other
oxid roots Y N	© Well drained © Moderately well dr. #1 Somewhat poorly dr. © Very poorly dr.	
Y	a impameable surface	COVER BY STRATA %
* refer to texture classes on reverse side * e.g. by drogen subfide odor, pleying, etc.	SOIL DEPTH MEASUREMENT: Measure to the negrest 0.1 cm in center of Intensive modules. If >30.5 cm, record as >30	Strata Height Range [m] Total Cover [%]
*** Circle one: I*indundated S**saturated M*most D*dry Notes: include evidence of earthworms (wurms, castings, middens)	l litter+ organic depth 2 litter water depth depth sat mod# (cm) depth (cm) (cm) soil (cm)	Shrub 5- 5 38 2 0 10-100 x plot size
WOOT: MOOMS SERVER	1030300	
MDD2: worms gresent	202000000000000000000000000000000000000	' moled and floating or slightly emercad
mods: worms	0.00	** submersed, most plans mass below surface
modu worms	2020000	SEE BACK OF PAGE FOR TYPICAL STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.
present	2 22 0.2 6.20.2 00 80	
BaCM PCAP Sods Crown cover_Landform_Standing B	The proper sound of the Children of the Comes of	
	B 7.3. 10.3. 50100	



Class	- с	ode	Criteria: % of
	Conv.	NASIS	Surface Area Covered
Few	ľ	評	< 2
Common	c	#	2 to < 20
Many	m	#	≥ 20





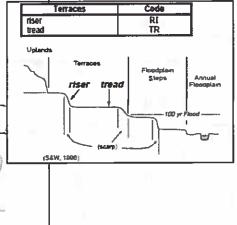
SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but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

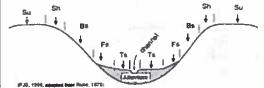
e.g., (for Hills) nose slope or MS.

	PDP	NASIS
Interfluve	IF HS	IF HS
head slope nose slope	NS	NS
side slope	SS	NS SS
base slope	0.00	BS
/	Head	. /
	1	1/40



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.

Position	Code
summit	SU
shoulder	SH
backslope	BS
footslope	FS
toeslope	TS
toestope	



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

UPLAND: Not a wetland, Very rarely flooded.

(FUS. 1990) and

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.