

Project Label:	РСАР	_ Р	lot No	: 1018 Date Sampled: 6-3075 Lead: La
2.9 23			2,92	Comment required if item answer is NO
Parking/Access outsi	de of Park Boundaries:	l Ł	(N)	If yes, write details in Comments section below
Field journals comple		Q)	N	A deliable of the second of th
Site sketch made on	1:3000 map?	Q	N	
Check cover page	X-axis Bearing of plot recorded	(Q)	N	- 2009 puls po-1008 firs
	GPS coords. Recorded	(v)	N	
	North direction recorded	(1)	N	
	Photographs taken?	(8)	N	
	Relocated Pins Mapped	(y)	N	
Plot No., Date agreen	nent on all pages?	(4)	N	(
Header data complete	ed all pages?	(2)	N	
Cover classes recorde	ed in all Intensive modules	D	N	4332-3
Browse Level By Spe	ecies	(P	N	
Woody stem quality	control check	(F)	N	Check every line and cross check with the Tree Cover Sheet
Invasive plant quality	control check	Y	N	NIA
Ash trees mapped		(7)	N	7-1
Completed Forest Per	st/Pathogen Datasheet	9	N	
Cover by Strata? (cor	nfirm cover type)	Q)	N	
Soil samples collecte	d with matching plot #.	Y	N	NA
Cross check 2010 inf	onnation	0	N	Highlight any changes from 2010 information
Vouchers labeled on	datasheet with initials and number	Y	N	
Vouchers labeled on	collection bag	9	N	
Pink flags removed		Υ	N	Leave Flags Up
Data sheet QA before	: leaving site?	(Y)	N	The state of the s
Common equipment	returned to tub.	(V)	N	
Data sheets scanned?	,			Enter date to left
Final data sheets scar	nned?			Enter date to left
Buffer Widths measu	red?	Y	N	
Web Soil Survey		Y	N	
Voucher Location	Refrigerator	Y	N	
(# vouchers collected)	Press (#)			Enter number to left
A()	5- 1-5277 P-777	Y	N	
110 z4h	Identified	Y	N	
ACL 340	Mounted	Y	N	(° °)
A. P. S. T. T. S.	Thrown away	Y	N	1

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)
N. 703 - DOMAS	Managed mowed area (i.e. golf course, pienic area, right-of-way)
	Paved area (i.e. parkinglot, road)
	☐ Unsafe to sample (i.e. steep slope)
	D Other

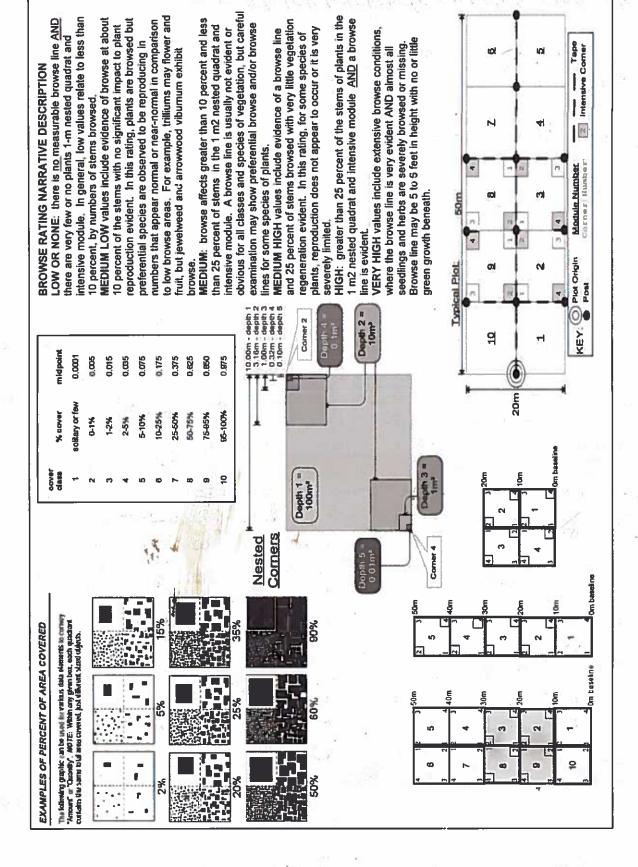
Additional Comments:		

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheef SAMPLING QUALITY* GENERAL INFORMATION Minimum required fields in Bold and Underlined REO -- BN 191 TAXONOMIC ACCURACY Effort Level: LOT NOT SAMPLED CAXONOMIC STANDARD hate (mm/dd/yyyy): 06 / 30/ 2-015 relect Name: OQNC 2015 nd date (if > 1 day): Hurried Accurate Very thorough Roles Co-leader, Aust., Oxide, Owner, Taxonomist, etc. Level 5 (nested corners sampled) Level 4 (no nested corners sampled) North of Stream · Knows 55 reltae G&C o Paved o Slope o Safety modera. may still provide good sampling. Hurried plots bow much effort put int subjective evaluation of Pub Date: Role** Plot leader low L PE 30 mot sun o Other State □ Systematic (grid) □ Capture specific feature □ Other x = O y = O (besc of plot x=0, y=0) GPS location in plot x=0 to 5, y=-1,0,+1): 0 Other (specify) ■ Lat/Long □ UTM □ StatePlane Coordinate system Source of coordinates

MAP If data not public why? o Fuzz 100m o Fuzz 250m o Fuzz 500m Check one: # Public data | Private Data Quadrangle: LOCATION □ Random □ Stratified Random □ Transect component Photo Nos.: 105 Camera No.: C3 GPS File Name: 1028 A Data Confidentiality Plot placement: DakTS Piot size for cover data: Coord. Accuracy: o'm o ft Datum: NAD83/WGS84 0'NAD27 Depth: (1-5): 4 Local Place Names andowner: CMP lead End of Buffermilk meritade: 81. 42877 attrade: 41, 55536 *Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide ntensive modules: 2, 3, 8, 9 X-axis Bearing of plot: HO County: Cuyahaga deg o deg min o Representative Coord. Units GPS 339] ° (EDIT IF MODIFIED Veg. Characters dics -> Plat is divided content), Rationale (why here), and Veg Characterization (description of community, NOTES: Include Layout (any unusual shape details), Location (directions and landscape Rationale > GRTS , PCAP re-sample dominants, strata, BROWSE). Additional notes in space on back. mods 1-3 and a diver ridge Dhagram OPsot origin OPS location
Key: O(0,0) point Opint Location -> Hoper. 25 m southwest of Layout Jaxs elsewhere. Species composition types. The wetter area has ved maple varies between these two community Buffermilk Falls Pkwy and elm present as the downant trees/shoulds -> #10 photo taken, with direction 1=wet drainage のたる #7 location of (BCiurelumittute) Page 1 of 2 **SROCKS** ま

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet *ALINITA Conspicuous inclusions COMMUNITY NAME CODE (on separate form) MODIFIED NATURESERVE CLASS o Brackish prOpland (n/a) M-03 / D (by default unless plot is a wetland) Saltwater Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.) Maple-Ash-Elm Wet + tatuques larger. Lots of Ursiala creeper as well. oliver areas Orger areas harbored sugar maple and shagbark hickory as the dominant trees. Mayapple and Prenanthus dominate the herb layer throughout the A Pictures C3-106 \$107 show the descepancy between mod 2 (pic 106) and mod 9 (pic 107) JUN 5 o Compositional trend across the plot Project Label: SRE 8-72-2015 a Temporarily flooded □ Occasionally flooded (<1/yr) Upland (seldom flooded) HYDROLOGIC REGIME* Permanently/Semipermanent, saturated Microittently/seasonally saturated (dry <1/yr, seldom flooded) (seldom flooded) Project Name: ORNC 2015 □ Tidal/Sciche flooded monthly Tidal/Sciche flooded daily □ Semipermanently flooded □ Intermittently flooded D Tidal/Seiche flooded irregular Natural Animal Former Land Use: Current Land Use: PARK **L=low, ML=med low, M=med, MH=med high, H=high, VH=very high (untan severity wet area UNKNOWA Plot No.: 1624 trast (Belumiund Kutrupartu Page 2 of 2

Midue Q 4 CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Total modules: Project Label: strata - Cov. entire plot Cleveland Metroparks S | H (F)(A) Br J Circaea Parthenocissus ayingue folia Kosa multitloca Ranunculus nospidas sluceña striata Prenanthas Sp Larex spr Heter sp. trisaema Carry taxtculants amphibolic CORY SD Empatiens Capensis AMERCUS Hagus Granditalia arbinus caroliniana persia vicainica DONIANS SP. Colypan Mirginianum oxicodendon radicans acya corditormis describe amount of browse per species over iburnum dentatum Br = Browse Level. Use cover classes to arex swani lmus americana wtettana triphyl Species enlire plot Simiciotas Intensive modules: 4 Kunveg. ground (bare soil) Estimate for each intensive module: %unvegelated open water ACL336 %unveg. litter (bare litter) SRE 12-10-15 ACL 338 24-11 H. Project name: OQNC2015 Voucher# 7337 %open water 2 cov depth Q 700 Plot configuration: 2×5 ş ğ 5 cov i depth 2 دو COV | depth Plot no.: 1028 9 ş ON CONTRACT O depth. Plot area (ha): ğ ğ Page of 9 50 ğ 8 ğ

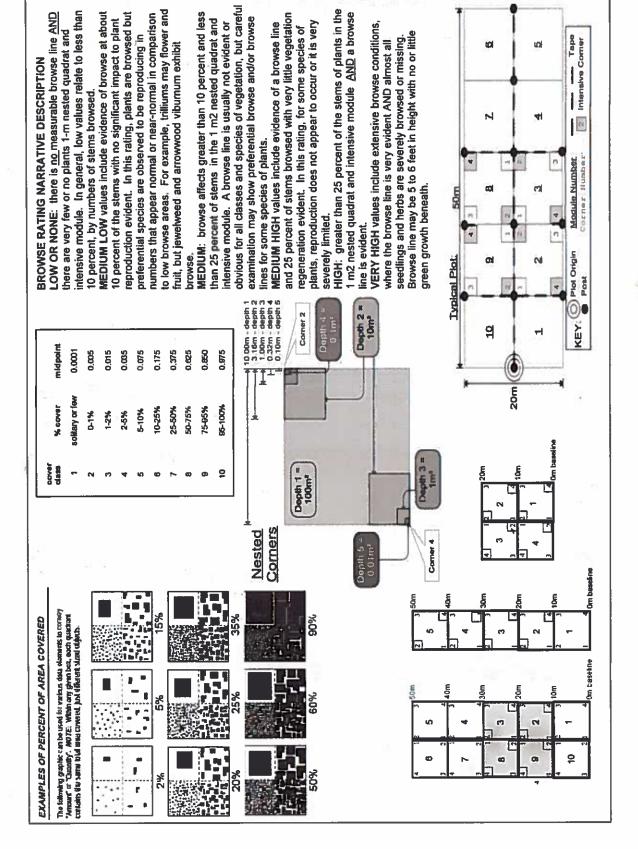


CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Strata - Cov. entire plot Total modules: Project Label: Cleveland Metroparks S H (F)(A) Br Geranium Miburnum opulus Smilax cotunditalia thoughus obovatus Heer rubrum ds wnac MAXIOUS PENSUIVANICA beneas thunbergi uriodendion thelipsters RUNNS ballum tritlorum Polystichum acrostichoide Sarver to Edophyllum peltatum TOCIMONIA TCEC Sacr harum tote so. seedling describe amount of browse per species over 145 SD ds struk naclea sensibilis Br = Browse Level. Use cover classes to hourgum oceritalium adeca pustrum vulgare <u>luoptens carthusiana</u> agnolia acuminata SECTIONS OHOZORO Species entire plot maculatem ດ Intensive modules: %unveg. ground (bare soll intensive module: Estimate for each %unvegetated open water %unveg. Riter (bare litter) ACC 339 CH 423-424 Project name: OBNC2015 Voucher# %open wate dept von cov depth Plot configuration: ğ ş coy i depth 6 8 Plot no.: 1028 2 SXB ş depth C رو ğ cov depth) depen σ₀ Plot area (ha): WOO ğ 0 Page 2 of 3 8 8 0 ğ 8

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•	CLEVELAND METROP Project Label: Total modules:
	PARKS Plant Community Ass PCAP
Estimate for each λ 4 3 3 3 4 3 3 8	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Project Label: PCAP Project name: 03/1020/5 Plot no.: 1028 Total modules: 10 Intensive modules: 4 Plot configuration: 3×5
ener mod corner mod corner mod corner mod	Page 3 of 3 Plot area (ha):

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CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Strata - Cov. entire plot % COVER Project Label: 막 their Salcharum funus Septina hyssa swyvatica Species species (X) 2 3 8 Project name: Oakt 2015 Voucher# Plot no.: 1028 **Z**J 20 Page

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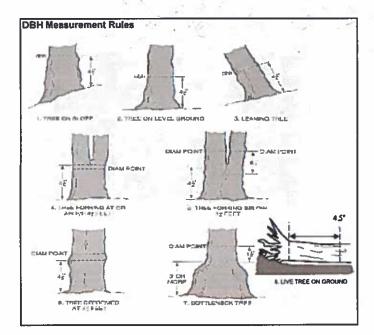
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06/30/2015

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet DOM MY BOOK Prunus sendina Heer Saccharum Facilis grandificio STANDING DEAD Acer rubrum Berken's thunberall Explain subsample (additional room on back): Nysoasylvatra Arer ribum Smilar notundifilia Acer Secharum STANDING DEAD Aindera benzoin Berberis Chunberti parthenecists autinium Rosamutoff or a FOXIMUM SO. windera bemain Littodendin tulipata a Acer rubrum Canya Ovata Carpinus carolinia limus america do Project Label: PCAP voucher# # sterns S 0-1.4m 6 or super % sub Project Name OZ NC 2015 Plot No.: 1028 以.。 clumps • 11 size class (cm) woody stems >1.4m 2 1-42.5 ð 25-45 : 5-<10 10 - <15 : 15 - < 20 Page: è 25 - <30 30 - <35 35 - <40 ő 45.4 >40 (record each tree)

3.00

Bu bus



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.

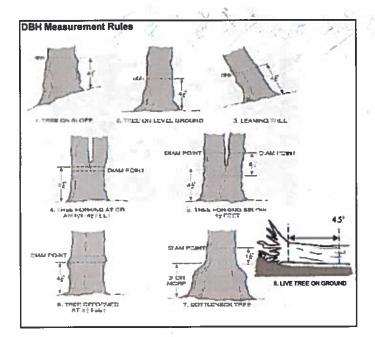
caryacrata
2015 Fried 20-225 and one 30-25 in mobb

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100	Carna Ovata	Berbens thumbers	STANDING DEAD	Acer Saccharum	Fraxinus So.	STANDING DEAD	can a ovato	ACCY PUDOWN	Acer Sarcharum	and henceus us a interface	Annus sendina	Francis Sp.	STANDING DEAD	Carya Ovata	Mimus Dimenicana	Acer Saccharum	traxinus sp-	STANDING DEAD	Acer rubrum	Carpous Carolinia	Barolino	Fagus grandifolia	Berberis thuberali	species		Explain subsample (additional room on back)	Project Label: PCAP Project Name 2000 Stem Data Sneet
										いったいろ														voucher#		ack):	PCAP
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	50.2						46.4				44.4	7		47.										>40 (record each tree)			Correland Metroparks
							Nr.																	each tree)	911		artics.

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PAGE YOUR MIKS ID US ACCY SOUCHOIVEN, THERE IS ONC ACCY NOW MIN MODE A BOIS Natural Woody Stem Data Sheet ver 2.0.45 last revised 5/29/2012 jim



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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ASH CANOPY CONDITION

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neasured 2010 ovtside for lines CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

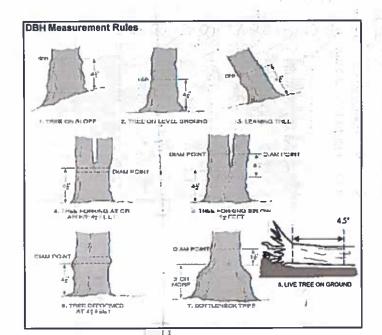
Project Name: 02 NC 20 | 5 | Plot No.: Acer saccharum Explain subsample (additional room on back) Frakinus Sp. Acer nuonum Carya Orato STANDING DEAD Crottaequs So Extrems thumberqui Painus Seating Carpinus carolinia Carya brate viburnum alenfolium Acer Sackharun Fraxious Sp carva ovata Arer suchamon Standing Dead acer rubrum Fraxinus So. Fraxing Sp voucher# # stems 3 perword 9-1.4m or super 0 * size class (cm) woody stems >1.4m ž . 1-<2.5 . 2.5-<5 Plot No.: 1028 5-<10 • 10-<15 -15 - < 20 Page. 25 - <30 30 - <35 잌 (Del) reland Metroparks 00 35 - <40 >40 (record each tree) =

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3aCM PCAP Natural Woody Stem Data Sheet ver 2.0.xls last revised 5/29/2012 jim

Natural Resources Management FORM NR/2010-03a



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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CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet Tree 4 = 12 21 17 ᆲ 24 23 22 강 5 ᇡ 15 5 18 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) Project Label: PCAP Project Name 02NC2015 (cm) DBH Ht @ Ash *Dead ASH Only holes PION NO.: 018 Date: 010 30/ 81015 Woodpecker holes Baseline Map all ash trees ≥10cm in each module using Tree ID number *** Change intensive module numbers when necessary 10 Page: 1 of 2 **CO** 6

Tier 1: Early	detection/	Rapid response		9	Pre	sence		GPS	
				NE	SE	sw	NW		Presence
Microstegium vimineum	(0,1)	Japanese stiltgrass					100		X: yes
Ranunculus ficaria	2 1	Lesser Celandine		737					
Cynanchum louiseae	(vine)	Black Swallow-wort	ev. "Si			11		7 m m 2	3)
Butomus umbellatus		Flowering Rush	(617)					ittis Tvilia i file.	_
Heracleum mantegazzianu		Giant Hogweed			_				
	2: Assess a				# of	Plants		comments	
1161	L. (133633 B.	y (vecueu		NE	SE	sw	NW	COMMITTEE	# of Plants
Acer platanoides		Norway Maple		144	JL	300			1: 1-10
Ailanthus altissima		Tree of Heaven			-	-			2: 11-50.
	(, in a)					1			3: 51-100
onicera japonica		Japanese Honeysuckle	:			-	-		_
ythrum salicaria	•	Purple Loosestrife		-	-		+-+	. 10	4: 101-1,00
Aegopodium podagraria	(G-cover)	Bishop's Goutweed			 	+	+		5: >1,000
Celastrus orbiculatus	(vine)	Asian Bittersweet				┼	\vdash		\dashv
Forilis sp.		Hedgeparsley			-		\vdash		\dashv
Conium maculatum		Poison Hemlock				-	 -		
Rhamnus cathartica		Common Buckthorn	(shrub)	<u> </u>			1—1		_
Berberis thunbergii	-	Japanese Barberry	(shrub)		-		\vdash		_
Alnus glutinosa		European Alder			1				_
Dipsacus laciniatus		Cut-leaf Teasel						1 70	_
laeagnus umbellata		Autumn Olive	(shrub)				10		_
onicera maackii		Amur Honeysuckle	(shrub)						
Euonymus fortunei		Wintercreeper		Ш	_				
Tier 3:	Presence is	of Interest		BONS	# of	Plants		comments	
	778 27 1	The second		NE	SE	SW	NW		# of Plants
Convallaria majalis	(G-cover)	Lily of the Valley							1: 1-10
Coronilla varia	(G-cover)	Crown Vetch							2: 11-50.
Eleutherococcus pentaphy	llus	Five-leaf Aralia	(shrub)		M I	=3=			3: 51-100
Pachysandra terminalis	(G-cover)	Japanese Pachysandra							4: 101-1,00
Philadelphus coronarius		Mock Orange	(shrub)						5: >1,000
Pulmonaria officinalis	(G-cover)	Lungwort	T i						
Rubus phoenicolasius	, ,	Wineberry						=	
ris pseudacorus	(wetland)	Yellow Flag Iris		 		\top			\neg
Ornithogalum umbellatum		Star of Bethlehem					1		7
Viburnum opulus var. opul		European Cranberry	(shrub)	\vdash		\top			
Viburnum plicatum		Doublefile Viburnum	(shrub)	-					7
	ideenread :	and abundant	(SIII GD)	0	Dre	sence		comments	
1161 4.11	roespicad i			NE	SE	5W	NW	COMMENCE	# of Plants
Alliaria potiplata	770	Garlic Mustard		INC	5.	341	1.444		1: 1-10
Alliaria petiolata			(ches-b)	\vdash	\vdash	+			2: 11-50.
Ligustrum vulgare		Common Privet	(shrub)	\vdash	+	+	 		3: 51-100
		Bush Honeysuckles	(shrub)	-	+	+	 		
morrowii, L. tatarica				-	-	-	+	<u> </u>	4: 101-1,00 5: >1,000
morrowii, L. tatarica Phalaris arundinacea	()	Reed Canarygrass							
morrowii, L. tatarica Phalaris arundinacea Phragmites australis	(wetland)	Phragmites		⊢		45-			3. >1,000
morrowii, L. tatarica Phalaris arundinacea Phragmites australis Polygonum cuspidatum	(wetland)	Phragmites Japanese Knotweed			[inte				3. >1,000
morrowii, L. tatarica Phalaris arundinacea Phragmites australis Polygonum cuspidatum Frangula alnus	(wetland)	Phragmites Japanese Knotweed Glossy Buckthorn	(shrub)		[10]+				3. >1,000
morrowii, L. tatarica Phalaris arundinacea Phragmites australis Polygonum cuspidatum Frangula alnus Rosa multiflora	8	Phragmites Japanese Knotweed Glossy Buckthorn Multiflora Rose	(shrub) (shrub)		jui-				5. >1,000
morrowii, L. tatarica Phalaris arundinacea Phragmites australis Polygonum cuspidatum Frangula alnus Rosa multiflora Typha angustifolia, T. x.gla	8	Phragmites Japanese Knotweed Glossy Buckthorn Multiflora Rose Cattails (wetland)							5. 21,000
morrowii, L. tatarica Phalaris arundinacea Phragmites australis Polygonum cuspidatum Frangula alnus Rosa multiflora Typha angustifolia, T. x.gla	8	Phragmites Japanese Knotweed Glossy Buckthorn Multiflora Rose Cattails (wetland) Canada thistle							3. >1,000
morrowii, L. tatarica Phalaris arundinacea Phragmites australis Polygonum cuspidatum Frangula alnus Rosa multiflora Typha angustifolia, T. x.gla	8	Phragmites Japanese Knotweed Glossy Buckthorn Multiflora Rose Cattails (wetland) Canada thistle Common Teasel							5. >1,000
L. morrowii, L. tatarica Phalaris arundinacea Phragmites australis Polygonum cuspidatum Frangula alnus Rosa multiflora Typha angustifolia, T. x.gla Cirsium arvense Dipsacus fullonum Hesperis matronalis	8	Phragmites Japanese Knotweed Glossy Buckthorn Multiflora Rose Cattails (wetland) Canada thistle							J. >1,000

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

(G-cover) Periwinkle

Vinca minor

CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Sheet

Project Label: PCAP Project Name 0.2 NC 20 Plot No.: 1008 mod # 10 G ယ œ Explain subsample (additional room on back): voucher# or super sample % sub dumps shrub size class (cm) woody stems >1m 1-<2.5 2.5-<5 5~10 10 - <15 | 15 - <20 20 - <25 25 - <30 Page: 30 - <35 Cleveland Metroparks 35 - <40 P40 (record each tree 6 읔 =

Shrub	Tree	Strata		
				NONE
		Total % Cover		NONE PRESENT IN PLOT; LOTS OF DISE,
				N
-Herr	-Beer	* Write None		PLOT:
-Hemlock (HWA)	-Beech (Fungus)	* Write None Present if no evidence	12 51	Lors
-Other F	-Asian L	vidence:	rkou	200
-Other Forest Pest or Pa	-Asian Longhormed Beetle		IN SURROUNDING AREA	DISEAS
or Pathogen	ē		AREA	03
				ASED FAGUS

Herbacous

Walnut (Thousand Canker)

CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface Project Label: PCAP Project Name: 2015 STANDING BIOMASS (required for revergent wethauls) collected in 0. Im dip plots (32-32 cm) from corners 1 and 3 in each islensive module. Required for VIBI-E score calculation. CP-check when collected Modulo # C7 Corner Corner Httpl://dxxsessestrable.class.f/WETLAND	PCAP PCAP red for energent m corners I and 3 ore calculation. C7	Project Name: Project Name: Project Name: Project Name: Project Name: Project Name: Project When Camer Corner	: DA	Plant Cover and Earth Surfa	Earth Surface ON OCCUPANTS OF	ATT.	Plot No.:	1028	MCNAB INDIC	McNab INDICES (degrees) + for up - for down filled out using as program - do not fill out i	Page: 1 of 1 Page: 1 of 1 Page: 1 of 1 LED OUT USING GIS PROGRAM - DO NOT FILL OUT SI FIELD] 1.F1° TSI**
				Hydroecompereble class (WETTANDS ONLX): (2) DEPRESSION O IMPOLINDMENT O Beaver of Human O RIVERINE O Headwater # Meinstein o Channel	o Beaver o Human	(Channel	Fit Confe		At aspect	pect NE NE	Fig. 751 LFI is angle of plot to the horizon. TSI is angle of local alopes. For
	(19) (19)			a SLOPE (promal water by drukegy or on a play sical slep) a FRINGING a Reservoir a Natural Lake a COASTAL (specify subclass)	tydrology or on a physical Lake subclass)	ical slop)			+180 degrees +180 degrees +225 degrees		angle from recorders eye to sy e of person standing - 10 m
			4	a BOG (strongly, moderately, weekly ombrotrophic) Fit Ohio EFA VIBL Plant Community Class (WETLANDS ONLY):	Community Class (OWETLANDS ON	Fite Conft-	E'	+270 degrees	YOUS NW	away.
			¥	o FOREST o swamp forest o bog forest o forest seep o EMERGENT o march o wet meadow o open bog o SHRUB o skrub swamp o tail sh. bog o tail sh. for	ovest a bog forest a fi th a wet meadow a amp a tall sh. bog as	orest seep open bog tall sh. fen	Fit Confe		* Landforn Index (** Terrain Shape In	n index (position within landscape) 1 Shape Index (site tricrotopographic shape)	: shape)
MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules.only Shape 1 = sight elevational grade across module (hit) Slope 2 = falls on slope -20° Slope 3 = maximum steepness that cap be safely sampled -45° Seature is present in the weitend it way small amounts or if more common, of low quality Feature is present in moderate amounts, but not or highest quality, or in small emounts of highest quality To feature is present in moderate amounts, but not or highest quality.	ATURE COUNTINE COUNTI	ITS - Internative n the and everage the that the second everage the secon	nodules.only score.NOTE: If mod falls on a Slope 2 = falls on slope -20° small emounts of lightest quality y	d falls on a slope sidom slope –20° ghest quality	Siope 3 = maximu	gets ranked besed on steepness (1-3) to begin + any feeture Slope 3 = maximum steepness that can be safely campled -45	n be safely sample	d-45"	CROWN COVER readings per module corresponding space	CROWN COVER (DENSIONETER) Make 4 replaines per module facing N. S. E. W. Place dot count corresponding space. (4 dots per grid square)	RR) Make 4 Place dot count in square)
	IIO. of	no. of	no macro.	cw.d cou	c.w.d court for pieces with minimum 1m length	inimum tm lengt	A 9	microhah.	Medale 2) z	O S
	tussocks depth 3	no. of humanocks uplands (Tip-Upa) depth 2 3, 1643, 16m	no macro. depressions depth 1 Ith Ith	C.v.d (2-12 cm) depth 1 10x10m	c.w.d (12-40cm) depth 1 10x10m	At0 cm	microhab. interspers. depth 1 10x10m	SLOPE Stope	D a m w	-4-0-	00
nod# corner	O O (count)	O O (count)	(couni)	discount)	(count)	OO (count)	2 Wink)	(rank)	W	0-	0-0
-260	600	000	-1	18	-61	00	ho		00 2	10000	000000000000000000000000000000000000000
AOTE based adjummods			2 2	26 21		004	n 6200	C			
SACRE CAP PAGE CONF. EARLY	Age of Party	ME BALL MY Day	Z DZWZCZ PANALI	17 N. T	7		2	+		Natural Resources	Natural Resources Mangement FORM NR/2010-05a

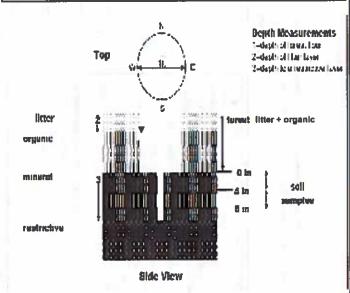
COVER BY STRATA

COACK DI SIKNIN	
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.</p>



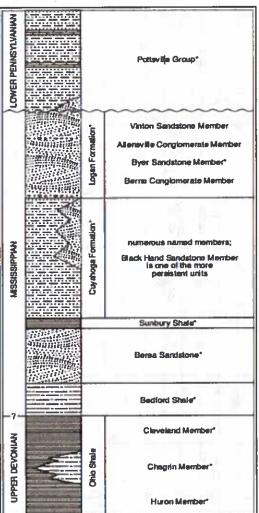


FIGURE 3-20.—Generalized section of Upper Deventar. Ministrippians, and Lower Pennsylvanian formations in northeastern Chio Asteriaks indicate units that are feasible rose. This composite section represents about 400 meters of rock exposed across the size. The section is not to coale, but the thicknesses indicated are proportional. The term "Waverly" is used in the older literature in refer to Mississippian rocks in Ohio. Some geologists use the European term "Carboniferous," which encompasses the Mississpin and Pennsylvanian Periods of the U.S. Manyumits have been named within the Cuyahoga Formation, but most units are local and cannot be traced ever great distances. The Black Hand Member is a spectacular massive anniatione that is fairly widespirmed but discontinuous. See Hyde (1953), Hoover (1950), and Collins (1979) for more information on Mississippian rocks in Ohio. See figure 3-18 for englanstion of rock types.

TEN

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

Project label: PCAP Project Name: 02NC2015

Plot No.: 102

0.6/30/20/5 Occresand Hebaparies

Page: 1 of 1

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

Soll pit module # (one per entire plot)

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

5 cm matrix color oxid roots mottle ottle color Sail Collection Modul (Herizan (A. B. C) Soil Series/Type: 1,3,8,9 composited

arent Material

Depth to rest. Layer:

andform type:

20 cm

matrix color

Attle color

ydr. cond.

SMD

dox features**

cxture*

Soil Series Source: Ohio Soil Survey

eb Soll Survey Informs

n Well drained G Excessively dr. Somewhat poorly dr. MINAGE! Somewhat excessively Moderately well dr.

a Impermeable surface

Very poorly dr

texture* oxid roots

smottle

cdox features**

4

refer to texture classes on reverse side

ydro. cond ***

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

indurdated S-saturated M-moust D-dry phas: include evidence of earthworms (worms,

MOD3: WORMS MODZ: WORMS

mass: worms

MOYA: WORNS | 5

1 S M D SOIL DEPTH MEASUREMENT: Measure to the neares 0.1 cm in center of intensive modules, It >30.5 cm, ecord as >30

_	_	_	_	
9	8	3	2	modif
1.5	1.5	O.3	0.5	1 litter+ organic depth (cm)
1.5	1.5	0.3	0.5	2 litter depth (cm)
6	0	00	6	water depth (cm)
0	0	0	0	depth sat soil (cm)

TS 1.5 1.5 1.5 1 120208 9 0

DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE

3

I CIDI. . .

**** <5 cm in diameter *** >5 cm in diameter EARTH SURFACE & GROUND COVER Gravel-Cobble* Soulder** istaso Gravel-Cobble = 1/16-10° nderlying Earth Surface* Boulder = > 10 in meral Soil - 100% 95 70 Fine Woody Debris**** 599 percent 양 Water Duff (Ferm. + Humus) Ground Cover Coarse Woody Debris*** Bare Soil Bryophyte- Lichen (Fach ≤ 100%) Road/Trail 65% 是 30% perten

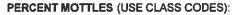
Strata Height Range (m) Total	COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13
Cover (%)	*

* rooted and floating or slightly emersed ** submersed, most plant mass below surface	(Aquatic)*	(Floating)*	нет 0 - • 5	Shrub .5. 5	Tree S.	Strata Height Range (m)	
emersed below surface			5 28%	5 (3)	93%	m) Total Cover (%)	The second secon

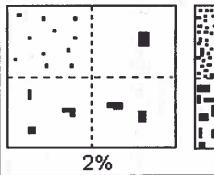
Deer .	o Gravel	Aboutes unsanctioned	Hiking sanctioned	3 Bridle	o All Purpose	Туре	record type and cover for each	TRAIL INFORMATION:
		w				%Cover	reach	*

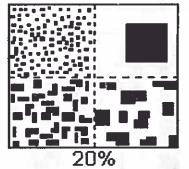
plot sizze	O 1-3 x plot size	o 3-10 x plot size	a 10-100 x plot size	□ > 100 x plot size	to >600 x plot size	STAND SIZE

Natural Resources Mangement FORM NR/2010-06a



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





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

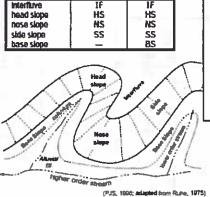
- 0= Organic
- 1= Loamy
- 2= Clavey
- 3= Sandy
- 4= Coarse Sand
- 9= Not measured make plot note

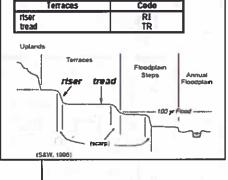
Geomorphic Component - Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains;

PDP

NASIS

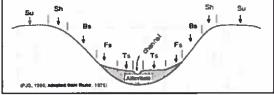
e.g., (for Hills) nose slope or NS.





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



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.