CLEVELAND MET	ROPARKS Plant Community Asse	ssment Program:	Quality Con	irol Form	© Cleveland Metro	oparks
Project Label:	PCAP	Plot No	1343	Date Sampled: 🗘	7/16/13 Lead: S	5JC
				Comment required	Lifitam anguar is NO	
Parking/Access outsic	le of Park Roundaries:	Y (N)	1	details in Commen	I if item answer is NO	
Field journals comple		1	ii yes, write	details in Commen	its section below	
Site sketch made on 1		(Y) N	 			
Check cover page	X-axis Bearing of plot recorded					
Check cover page	GPS coords. Recorded		<u> </u>		· · · · · · · · · · · · · · · · · · ·	
	North direction recorded	1	<u> </u>			
		Y N				
Distanta Data carre	Photographs taken?	Y N	0	0.000		XX
Plot No., Date agreem		V N	0			
Header data complete		Y N				
	d in all Intensive modules	(Y) N				
Browse Level By Spe	/	V N			VOL-1-100	
Woody stem quality c		YN	-			
Invasive plant quality	control check	Y N	-			
Ash trees mapped		Ŷ N	-			-
Cover by Strata? (con		YN				
Soil samples collected		Y N				
	atasheet with initials and number	Y N				
Vouchers labeled on c	ollection bag	(Y) N				
Pink flags removed		Y N				
Data sheet QA before		Y N				
Common equipment re	eturned to tub.	YN				
Data sheets scanned?		7/19/13	Enter date to	left cmd		
Final data sheets scani			Enter date to			
Buffer Widths measur	ed?	Y N	6-28	^\5		
Web Soil Survey		Y) N	AS	7-19-13		
Voucher Location	Refrigerator	YN				
(# vouchers collected)	Press (#)		Enter numbe	r to left		
SSC 091	Drier	Y N	2025			
Sant	Identified	YN				
00	Mounted	Y N				
	Thrown away	Y N	L			
GRTS point verificat	ion: ls plot sampleable?					
⊘ Yes	Original GRTS point is sampleable					
7 No	Original GRTS point lands in a non-	ampleable area (f	II in category	halow)		
5 110	Depoint falls in a water (i.e. river, i		ir ni category	below)		
	Managed moved area (i.e. golf a		t-of-way)			
	☐ Paved area (i.e. parkinglot, road)					1475
	Unsafe to sample (i.e. steep slope)	300		· Section 1	
Additional Comment	Other				10	
	al 2011 yls last revised 6/20/2011 (rources Management Fo	

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iii iii

CVS Field Guide Danthonia. Lots of moss, OVER	*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide	Minimum required fields in Bold and Underlined
	□ Systematic (grid) □ Capture specific feature □ Other	Authority: G&C Pub Date: 1998
Herb - Heavy buckthorn, Carex Swanii, &	□ Random □ Stratified Random □ Transect component	TAXONOMIC STANDARD
multiflora rose	Plot placement: GRTS Representative	lichen
Shrub - HEAVY Buckthorn, some	Photo Nos.: 249	bryo
	Camera No.: <u>ES</u>	vascul. 🖔 n/a
Sir.	Intensive modules: 2 3,8,9 1,2,3,4 (EDIT IF MODIFIED)	high modera. low not smpl
Veg. Char Canopy - Red Maple dominate.	Depth: (1-5): +	TAXONOMIC ACCURACY
	X-axis Bearing of plot: [279]	o Hurried data
Rationale: GRTS maint	Plot size for cover data: . 05 (hectares)	Accurate may still provide good
eagle w/ Sugar maple dominant.	GPS File Name: 1843A	Nery thorough how much effort put into
	Coord. Accuracy: - m - ft 100/. +-	Effort Level: subjective evaluation of
Calle of the first ago in thick buckters	Longitude: 81.79462	SAMPLING QUALITY*
~ 700 m and then E. Into woods. G.KTS paint	Latitude: 41.302.30	□ Perm. water □ Paved □ Slope □ Safety
Walked down to and branch of Sugar Dush Trail	$x = \begin{cases} y = $	PLOT NOT SAMPLED:
arkea(w) (Countries of the contribution	GPS location in plot $x=0$ to 5, $y=-1,0,+1$):	** Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc.
reation of the Organization Trailment	Datum: ■ NAD83/WGS84 □ NAD27	
4	□ Other (specify) ■ m □ ft □	R. Checla wipedy
Layort 1 X5	■ Lat/Long □ UTM □ StatePlane ■ deg □ deg min	C. Lemmo Woody
dominants, strata, BROWSE). Additional notes in space on back.	Coordinate system: Coord. Units	R. Engle assist
NO LES: Include Layout (any unusual snape details). Location (directions and landscape content), Rationale (why here), and Veg Characterization (description of community,	Source of coordinates MAP GPS	S. Catella Plot leader
Key: (0.0) point point with direction permanent posts	If data not public why?	Party Role**
~~	Reason:	End date (if > 1 day): 07 / 16 / 2013
13 43 44 45	□ Fuzz 100m □ Fuzz 250m □ Fuzz 500m	Date (mm/dd/yyyy): 07/16/2013
[2]	Check one: Public data Derivate Data	■ Level 5 (nested corners sampled)
2	Data Confidentiality:	☐ Level 4 (no nested corners sampled)
plot: #10 #9 #8 #7 #6	Landowner: CMP	Plot No.: 1343
2-10 3 4 3 4	RoyalviewTrailLead	
and the state of t	Local Place Names: Parked at	Plot Name: Bucky Rubrum
	angle:	Project Name: 01 MS 2013
	State: OH County: (Jyahada	Project Label: PCAP
	LOCATION	GENERAL INFORMATION
Data Sheet Page 1 of 2	CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	CLEVELAND METROPARKS Plant Co.

probably 3 dyl. varieties

Project Label:	PCAP	Project Name: Q \ M52 & 13	no Data :	2 & 13	_	Plot No.:	1343	ColumbundMutuperha
MODIFIED NATURESERVE CLASS*			DISTU	DISTURBANCES				
CODE (on separate form):	Fit= Conf=		type*	severity**	Vrs 220	% of plot	description	
J COM	2		Human	1		001	trash	
2000		01 40 41	Natural					
COMMUNITY NAME: Atypical Succe	ssion Red Maple	cday my	Fire					
Applied successioned typical succession mixed	aptord	decide mixed	Cut					
Shrub Micket - Bucks	Home	sample	Animal	Z Z	0	160		4
HOMOGENEITY			**L=low	VI.=med lov	M=med N	H=med hi	**L=low. MI=med low M=med MH=med bioh H=high VII=ware high	or VIEwey high
Alomogeneous Compositional to	Compositional trend across the plot		Current Land Use:	and Use:	2 W.		11 11 11 11 11 11 11 11 11 11 11 11 11	ACT THE
□ Conspicuous inclusions □ Irregular/pattern mosaic	mosaic		Former Land Use:	and Use:	NK			
	HYDROLOGIC REGIME*	SIME*						
	Upland (seldom flooded)	o Intern	□ Intermittently flooded	ded				
SALINITY*	for Intermittently/seasonally saturated		□ Semipermanently flooded	flooded				
D Saltwater	(seldom flooded)		Permanently flooded	ped				
D Brackish	□ Permanently/Semipermanent. saturated		Tidal/Seiche flooded daily	led daily			(
□ Fresh	(dry <1/yr, seldom flooded)		Seiche flood	☐ Tidal/Seiche flooded monthly				
Dupland (n/a)	□ Occasionally flooded (<1/yr)		Seiche flood	☐ Tidal/Seiche flooded irregular				
100	a Temporarily flooded	. · · · · · · · · · · · · · · · · · · ·	(e.g. wind, storms)	·				
(by default unless plot is a wetland)	Service Control of the Control of th	Unknown	UMU.					
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.) Did buffers from 20m along the stake line. Also did a sub sample of buckther	s of plot to the stand, success	ional status, maturity, etc.	2 A	Iso die	AAS	s du	n-the	2 buckthon
in mod S & whole m	od was com	red, about	41 :	the m	hod h	ad	buckthi	orn @ highe
Han DBH. Did subsampl	sample of 2	5% of who	6. i	Ď.				
How do I mark an o	data forms	forms of			0	-		DEA . = stem high
Plot was lightly broused.		Buckthorn was almost	nos H		0	> -	P	
impenstrated in moc	J)				्रेड	300	The Contraction	-> our subsample

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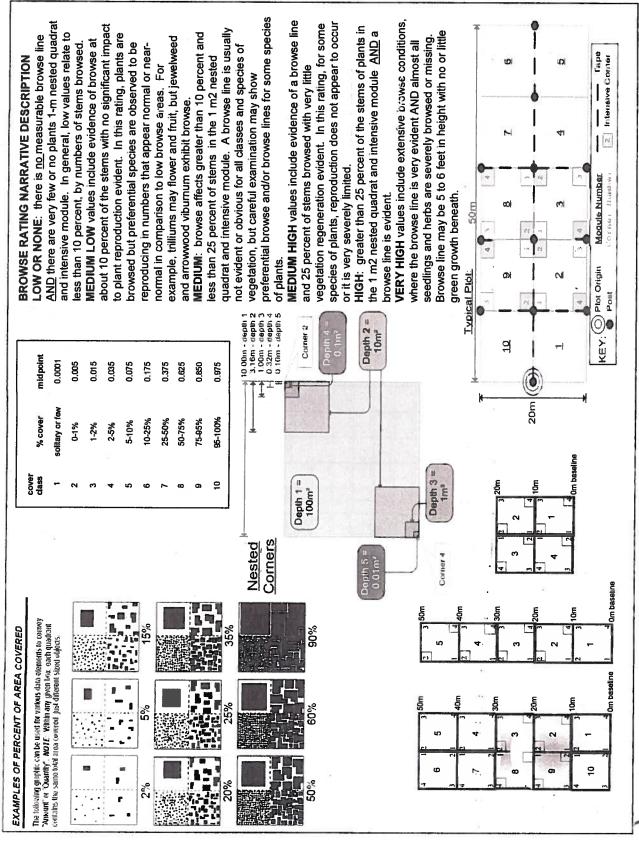
CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Project Label: PCAP Project Name: 8 | M52813

Project Label:	PCAP	Project name:	DIM	\$201	() ¹ a	eet 2		no	W.	w				יור	age	-	્ લ્	U	
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3	Br = Browse Level. Use cover classes to	intensive module:	depth		_		COV	depth	Sy	depth	GV .	depth	COV	depth	COV	depth	0	_	Ş z
Cleveland	describe amount of browse per species over	%open water		7	\dagger					-	0			_	0			0.0	
A STATE OF THE STA	entire plot	"unvegetated open water with white world with the w	Т	- 0	\dagger		-0			1	5 0			-	C				S AND
Strata - Cov. entire plo	D.C.	%unveg. litter (bare litter)		2	\dashv		4			<u></u>	p			_]-	1			1	2
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\$0 20 2-	S Rhamnus frangula			L		ナ	4	4		+	٩	4		4		W	\rightarrow		
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6	Carex-swanii		(V)			t	(\)	4		4	5	W		2	4	4			
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2	Chodea sensibilis		2	10															
2	Alphania des tatura.	12 CS-2492	4	12		2	N		100	2		2		2	2	2			
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7	Rubus allegheniensis			K		2		2	Nº	7	12				\prod	w	7		
	Acer sp. (seedling)			I	-	w	-			W	_				\prod	W	7		\perp
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63	Cornus so			+		+	S						3	10	6				\perp
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						Project Leibel: PCAP Project name: DIMS 2015 Total modules: Service of the service lases to the brows Level Use cover classes to the brows Level Use cover classes to the brows part species over supported of the service modules. Signal - Cov. entire plot. Signal - Cov. entire	Total modules: Secretarial Project name: DINASQUIS Project name	Total modules: Service Level, Use cover dasses to schementary and service modules: He plot configurate schementary and service modules: He plot configurate schementary and service per species over the schementary and service per schementary and schement	Total modules: Service Level, Use cover dasses to schementary and service modules: He plot configurate schementary and service modules: He plot configurate schementary and service per species over the schementary and service per schementary and schement	Total modules: Service Labet: Project labet:	Project Label:	Project Label:	Project Label: PCAP Polyton: 1943 Total modules: S Interview modules: H Polyton: 1943 Total modules: S Interview modules: H Polyton: 1943 Br = Droves Level Use cover dessess to describe amount of through per spaces over Superview and the space over Superview and Species C Vouclete's A Species C	Project Label: PCAP Polyton: 1943 Total modules: S Interview modules: H Polyton: 1943 Total modules: S Interview modules: H Polyton: 1943 Br = Droves Level Use cover dessess to describe amount of through per spaces over Superview and the space over Superview and Species C Vouclete's A Species C	Project Libral Potential Potential	Project Libral Potential Potential	Project Libral Potential Potential	Project Libris Project Project Libris Project Project Libris P	Project Liabet Project Liabet Liabet Project Liabet Liabet Project Liabet Liabet Project Liabet Li

2aCM PCAP Species Cover Data sheet Page 1 of x_ver 3.xis last revised 5/29/2012 ceh

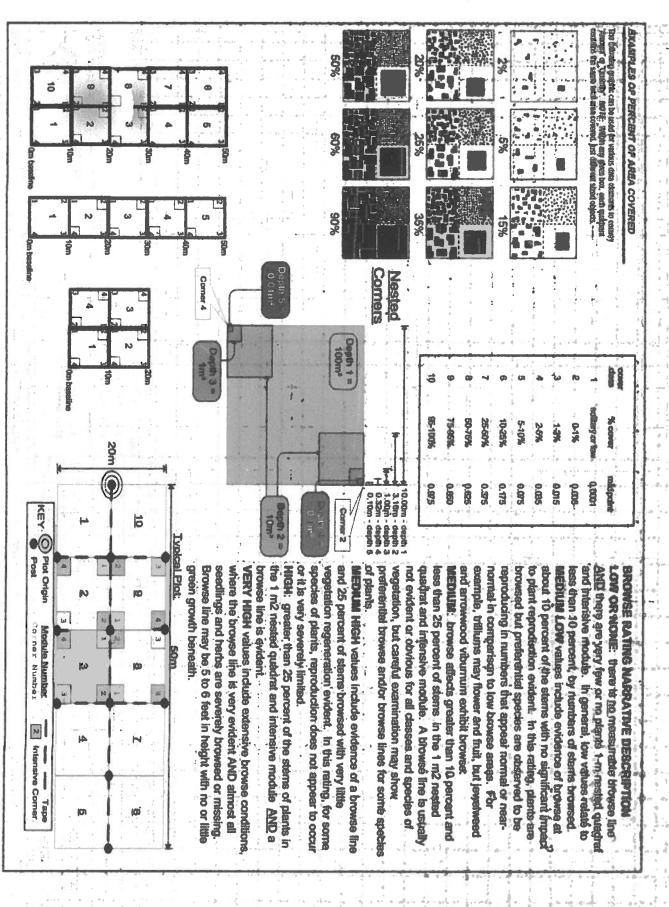
Natural Resource Management FORM NR/2010-02a



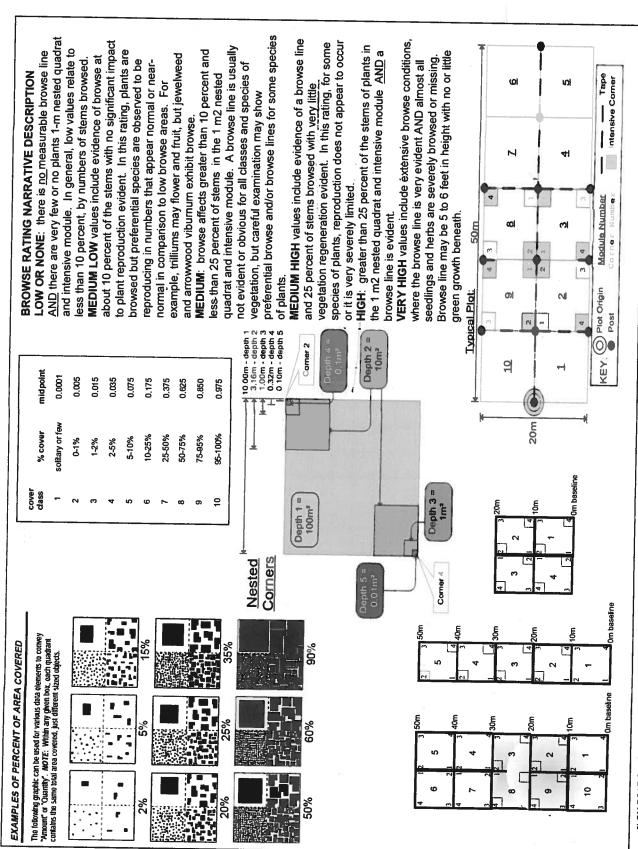
2bCM PCAP Species Cover Data Sheet Back Page_ver 1.3.ppt

ough, thin person of the many ancegintes pread but ve (anceo) not Danthon iong achares, awex sp. 5 Astusp, 2 4 - 16 + 18 fits Her 90 Heriate ed base 89 Smells Strata - Cov. entire plot CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a 2aCM PCAP Species Cover Date sheet Page 1 of x_ver 3.xts last revised 6/28/2012 och Total modules: Project Label: S 1 3 0 Barbon's thunbergu 1501K 11 01 0 # 2 Rub we penasylvavica the mon Fraxinua Dennsytyania Aster sp. Carex Sp. acus oranditoria Querus describe amount of browse per species over arex so * S (10, repro ampions oxigodendon rachican arex so arya sp. (seedling Unus amen cana His sp. Br = Browse Level. Use cover classes to arex 井井 Species #/ (seedling entire plot Sp. #U #1 PCAP Escedu na Europiniana # # = 本十二年 (Seedhow E ST # Intensive modules: Xuriveg. ground (bare soil) intensive module: **Xunvegetated open water** Estimate for each Murweg, litter (bare litter KZ 55-2494 225 550-087 552-086 Project name: 01M52073 -24963 Voucher# SPAR 2500 %open wate 09 880 090 W 2 corner mod corner cov | dispin P 7 OOV | depth 工 Piot configuration: COV 8 N 1 cov | depth COV | dapth N Plot no.: 1343 1 mod S 9 AOO depth depth poles Natural Resource Management FORW NR/2010-028 1 comer mod oov | depth cov | depth (N W W COTTO ğ 9 Plot area (ha): P W 8 mod Page / of comer mod 1 cov | depth COV | depth 4 6 9 99 (N dap diggs. mod 70 COTTO ş 9

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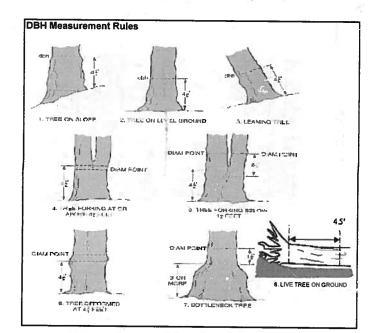


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Project Label:	Project Label: PCAP Project name: 0/M \$20/3		Project name: <u>DIM S2013</u>	DIM	S201	lW g	, 70	Plot no.: _	e: 	1343	lo -			,	, age	· ·	9	1	
Total modules:		Inter	Intensive modules:		 2	Plot configuration:	igurat	9.					Plot	Plot area (ha):	(ħa):				
②	Br = Browse Level. Use cover classes to	Estir	Estimate for each intensive module:	depth c	comer mod comer	h cov	→ depth Mod	corner in	mod corner	w depth		corner mod corner mod 1 3 2 4 cov depth cov depth	8 12 come	depth mod	comer mod		cov 2	depth 70 mod	8 7 8
menopance	entire plot	%unv	%unvegetated open water %unveg. ground (bare soil)								\vdash								
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T S H (F) (A) Br	Species Species	ဂ	Voucher #	depth	cov depth	ω _V	depth	COV de	depth cov	depth	1	cov depth	8	depth	COV	depth	COV	depth	g
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2bCM PCAP Species Cover Data Sheet Back Page_ver 1.3.ppt

	CLE	CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet	CO	ommunity .	Assessm	ent Pro	gram N	atural V	Voody S	tem Dat	a Sheet			Ħ			Ciercia	Gieveland Netroparks
		Project Label:		PCAP		Project	Name:	SWIC	Project Name: (2) (1) \$3013	77	Plot No.: 1343	1343		Page:	-	g,	0	
		Explain subsample (additional room on back):	n bac	S) :														
					# stems 0-1.4m			size class	size class (cm) woody stems >1.4m	y stems >1	1.4m	5 - 415	15 - «20	70- <25	25 - 430	30 - <35	10 35 - <40	11 >40 (record each
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کے	7	Khamus taquid			9 0		Moo	T IN	31	•							100	
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1960	لن	Standing dead					•	.00										
San Contraction of the Contracti	S	Carpinus Carolinians								60								
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	4	Corner for Shoring			8					0			2	:				
\sim	5	Overus suban																



Woody Stem Deer Browse

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

Record using the tally system from 1 to 10















ASH CANOPY CONDITION

- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
- 2. Thinning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.
- 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 it there are epiconnic sprouts below the canopy (lowest branch) on the trunk.



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ASH CANOPY BREAKUP CONDITION (for dead trees):

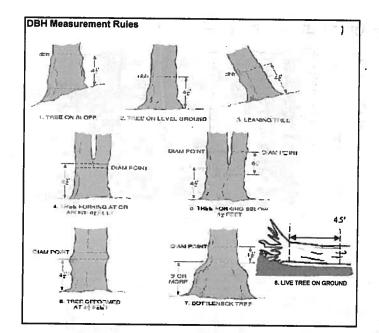
(if an ash receives a score of 5 (dead) under canopy condition it must also receive a breakup condition rank as described below)

- 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.

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

Natural Resources Management FORM NR/2010-03a

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 工 ع Quescus (Jorga Explain subsample (additional room on back): Promus seroting Faxious generalization Standiau dead Mosa Mothstona Swa Multiplan Fraxinus pentsylvania Acer subrum Cornus Albertas Contemus 50 Cratage us sp. Know Word Linuer benzoin Cratery's 50: Krank-Je Alla Colored to Starding dead Smilaso rohundifoli Crataegus Sp. Berbers Hunbani Project Label: ___ PCAP voucher# browsed 0-1.4m stems sample or super % sub ST. Project Name: 0\MS20\3 国 clumps shrub size class (cm) woody stems >1.4m <u>م</u> 7 1-<2.5 • • B 0 2.5-<5 Plot No .: 1343 5-<10 10-<15 15 - <20 6 20 - <25 Page: 25 - <30 دو 30 - <35 앜 © Cleveland Metroparks 35 - <40 5 >40 (record each tree) =



Woody Stem Deer Browse

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

Record using the tally system from 1 to















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В

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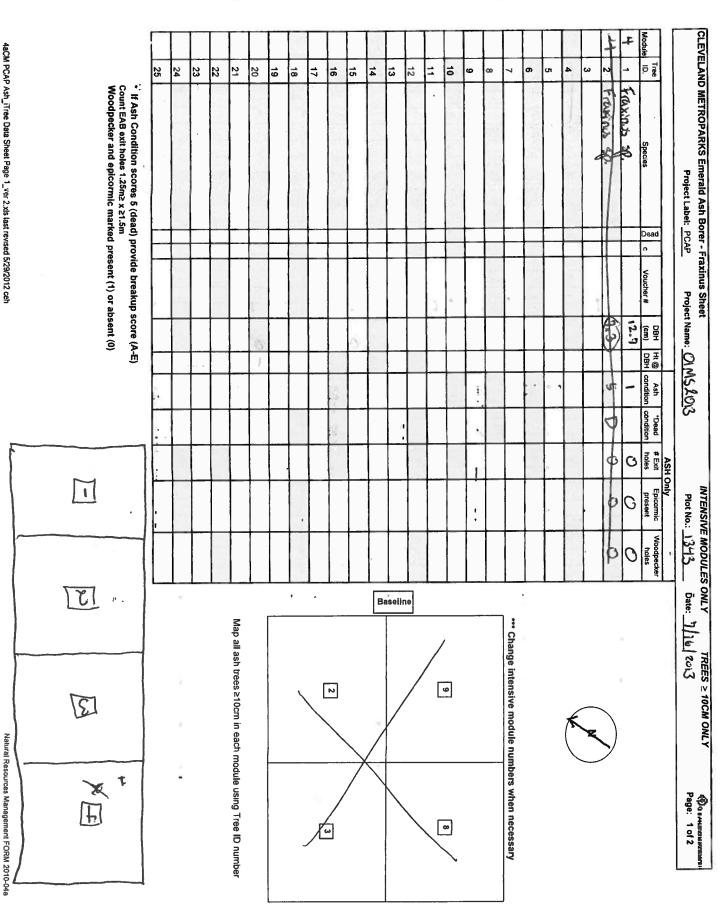
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- C: Less than 50% of main branches have fine twigs.
- D: Stem still standing and tertiary main branches present.
- E: Central stem still standing.



Tier 1: Early detection	n/ Rapid response		Pr	esence	9	GPS	
		NE	SE	sw	NW		Presence
Microstegium vimineum	Japanese stiltgrass					,	X: yes
Ranunculus ficaria	Lesser Celandine				طيب		
Cynanchum louiseae (vine		1					
	d) Flowering Rush					¥. 4	
Heracleum mantegazzianum	Giant Hogweed						
Tier 2: Assess	as Needed		# 0	f Plant	ts	comments	1000
		NE	SE	SW	NW		# of Plant
Acer platanoides	Norway Maple						1: 1-10
Ailanthus altissima	Tree of Heaven						2: 11-50.
Lonicera japonica (vine)	Japanese Honeysuckle		\vdash				3: 51-100
Lythrum salicaria (wetland)	Purple Loosestrife						4: 101-1,0
Aegopodium podagraria (G-cover)	Bishop's Goutweed			_	+-		5: >1,000
Celastrus orbiculatus (vine)	Asian Bittersweet	\vdash			+-		3. 71,000
Torilis sp.	Hedgeparsley	ŀ		_	+ -		_
Conium maculatum	Poison Hemlock		—		+		-
Rhamnus cathartica	Common Buckthorn (shrub)		1	\top			
Berberis thunbergii	Japanese Barberry (shrub)		 	+	1		
Alnus glutinosa	European Alder	100	1	+	+		_
Dipsacus laciniatus	Cut-leaf Teasel	Nº 1	?	+	+-	•	
Elaeagnus umbellata	Autumn Olive (shrub)	- '	1	+	+-	•	
Lonicera maackii	Amur Honeysuckle (shrub)	-	-	+-	-		_
uonymus fortunei	Wintercreeper (Silitub)		2	+-	+	* .	_
Tier 3: Presence is		3.3	# -5	Plants			
The state of the s		NE	# OT	SW	NW	comments	
2		IIVE	1.35				[[M = E D] = = 4 ·
-onvaliaria maialis (G-cover)	Lily of the Valley		-	1344	1400		# of Plants
				344	1400		1: 1-10
Coronilla varia (G-cover)	Crown Vetch			300	1400		1: 1-10 2: 11-50.
Coronilla varia (G-cover) Eleutherococcus pentaphyllus	Crown Vetch Five-leaf Aralia (shrub)			300	1400		1: 1-10 2: 11-50. 3: 51-100
Coronilla varia (G-cover) Eleutherococcus pentaphyllus Pachysandra terminalis (G-cover)	Crown Vetch Five-leaf Aralia (shrub) Japanese Pachysandra				1000		1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00
Coronilla varia (G-cover) Eleutherococcus pentaphyllus Pachysandra terminalis (G-cover) Philadelphus coronarius	Crown Vetch Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub)			300	1000		1: 1-10 2: 11-50. 3: 51-100
Coronilla varia (G-cover) Eleutherococcus pentaphyllus Cachysandra terminalis (G-cover) Chiladelphus coronarius Culmonaria officinalis (G-cover)	Crown Vetch Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort			500	1400		1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00
Coronilla varia (G-cover) Eleutherococcus pentaphyllus Pachysandra terminalis (G-cover) Philadelphus coronarius Pulmonaria officinalis (G-cover) Rubus phoenicolasius	Crown Vetch Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry			500	1400		1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00
Coronilla varia (G-cover) Eleutherococcus pentaphyllus Pachysandra terminalis (G-cover) Philadelphus coronarius Pulmonaria officinalis (G-cover) Rubus phoenicolasius ris pseudacorus (wetland)	Crown Vetch Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris			300	I		1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00
Coronilla varia (G-cover) Eleutherococcus pentaphyllus Pachysandra terminalis (G-cover) Philadelphus coronarius Pulmonaria officinalis (G-cover) Rubus phoenicolasius Pris pseudacorus (wetland) Prnithogalum umbellatum	Crown Vetch Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem			380			1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00
Coronilla varia (G-cover) Eleutherococcus pentaphyllus Pachysandra terminalis (G-cover) Philadelphus coronarius Pulmonaria officinalis (G-cover) Bubus phoenicolasius Pris pseudacorus (wetland) Prnithogalum umbellatum Piburnum opulus var. opulus	Crown Vetch Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub)			380	NVV		1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00
Coronilla varia (G-cover) Eleutherococcus pentaphyllus Pachysandra terminalis (G-cover) Philadelphus coronarius Pulmonaria officinalis (G-cover) Rubus phoenicolasius ris pseudacorus (wetland) Prnithogalum umbellatum Viburnum opulus var. opulus Viburnum plicatum	Crown Vetch Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub)				NVV		1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00
Coronilla varia (G-cover) Eleutherococcus pentaphyllus Pachysandra terminalis (G-cover) Philadelphus coronarius Pulmonaria officinalis (G-cover) Bubus phoenicolasius Pris pseudacorus (wetland) Prnithogalum umbellatum Piburnum opulus var. opulus	Crown Vetch Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub)		Pres	sence		comments	1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00 5: >1,000
Coronilla varia (G-cover) Eleutherococcus pentaphyllus Pachysandra terminalis (G-cover) Philadelphus coronarius Pulmonaria officinalis (G-cover) Rubus phoenicolasius Pris pseudacorus (wetland) Prnithogalum umbellatum Piburnum opulus var. opulus Piburnum plicatum Tier 4: Widespread a	Crown Vetch Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant				NW	comments	1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00 5: >1,000
Coronilla varia (G-cover) Eleutherococcus pentaphyllus Pachysandra terminalis (G-cover) Philadelphus coronarius Pulmonaria officinalis (G-cover) Rubus phoenicolasius Pris pseudacorus (wetland) Prnithogalum umbellatum Piburnum opulus var. opulus Piburnum plicatum Tier 4: Widespread a	Crown Vetch Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard		Pres	sence		comments	1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00 5: >1,000 # of Plants 1: 1-10
Coronilla varia (G-cover) Eleutherococcus pentaphyllus Pachysandra terminalis (G-cover) Philadelphus coronarius Pulmonaria officinalis (G-cover) Rubus phoenicolasius Pris pseudacorus (wetland) Prnithogalum umbellatum Piburnum opulus var. opulus Piburnum plicatum Tier 4: Widespread a	Crown Vetch Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub)		Pres	sence		comments	1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00 5: >1,000
Coronilla varia (G-cover) Eleutherococcus pentaphyllus Pachysandra terminalis (G-cover) Philadelphus coronarius Pulmonaria officinalis (G-cover) Rubus phoenicolasius ris pseudacorus (wetland) Prnithogalum umbellatum Tiburnum opulus var. opulus Tiburnum plicatum Tier 4: Widespread a Illiaria petiolata Igustrum vulgare Imorrowii, L. tatarica	Crown Vetch Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub)		Pres	sence		comments	1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00 5: >1,000 # of Plants 1: 1-10 2: 11-50. 3: 51-100
Coronilla varia (G-cover) Eleutherococcus pentaphyllus Pachysandra terminalis (G-cover) Philadelphus coronarius Pulmonaria officinalis (G-cover) Rubus phoenicolasius Pis pseudacorus (wetland) Prnithogalum umbellatum Piburnum opulus var. opulus Piburnum plicatum Tier 4: Widespread a Illiaria petiolata gustrum vulgare morrowii, L. tatarica	Crown Vetch Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Reed Canarygrass		Pres	sence		comments	1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00 5: >1,000 # of Plants 1: 1-10 2: 11-50. 3: 51-100
Coronilla varia (G-cover) Eleutherococcus pentaphyllus Pachysandra terminalis (G-cover) Philadelphus coronarius Pulmonaria officinalis (G-cover) Rubus phoenicolasius Pris pseudacorus (wetland) Prnithogalum umbellatum Piburnum opulus var. opulus Piburnum plicatum Tier 4: Widespread a Illiaria petiolata Igustrum vulgare Imorrowii, L. tatarica Phalaris arundinacea Paragmites australis (wetland)	Crown Vetch Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Reed Canarygrass Phragmites		Pres	sence		comments	1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00 5: >1,000 # of Plants 1: 1-10 2: 11-50.
Coronilla varia (G-cover) Eleutherococcus pentaphyllus Pachysandra terminalis (G-cover) Philadelphus coronarius Pulmonaria officinalis (G-cover) Rubus phoenicolasius Pris pseudacorus (wetland) Prnithogalum umbellatum Piburnum opulus var. opulus Piburnum plicatum Tier 4: Widespread a Illiaria petiolata Igustrum vulgare Imorrowii, L. tatarica Inalaris arundinacea Inragmites australis (wetland) Indigonum cuspidatum	Crown Vetch Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Reed Canarygrass Phragmites Japanese Knotweed		PressE	sence	NW	comments	1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00 5: >1,000 # of Plants 1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00
Coronilla varia (G-cover) Eleutherococcus pentaphyllus Pachysandra terminalis (G-cover) Philadelphus coronarius Pulmonaria officinalis (G-cover) Rubus phoenicolasius Pris pseudacorus (wetland) Prnithogalum umbellatum Piburnum opulus var. opulus Piburnum plicatum Tier 4: Widespread a Illiaria petiolata Igustrum vulgare Imorrowii, L. tatarica Inagmites australis (wetland) Inagmites australis (wetland) Inagmula alnus	Crown Vetch Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Reed Canarygrass Phragmites Japanese Knotweed Glossy Buckthorn (shrub)		Pres	Sence	a ww	comments	1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00 5: >1,000 # of Plants 1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00
Coronilla varia (G-cover) Cleutherococcus pentaphyllus Pachysandra terminalis (G-cover) Philadelphus coronarius Pulmonaria officinalis (G-cover) Rubus phoenicolaşius ris pseudacorus (wetland) Prnithogalum umbellatum Tiburnum opulus var. opulus Piburnum plicatum Tier 4: Widespread a Illiaria petiolata gustrum vulgare morrowii, L. tatarica ragmites australis (wetland) Diygonum cuspidatum angula alnus psa multiflora	Crown Vetch Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Reed Canarygrass Phragmites Japanese Knotweed Glossy Buckthorn (shrub) Multiflora Rose (shrub)		PressE	sence	NW	comments	1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00 5: >1,000 # of Plants 1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00
Coronilla varia (G-cover) Eleutherococcus pentaphyllus Pachysandra terminalis (G-cover) Philadelphus coronarius Pulmonaria officinalis (G-cover) Rubus phoenicolaşius Pris pseudacorus (wetland) Prnithogalum umbellatum Piburnum opulus var. opulus Piburnum plicatum Tier 4: Widespread a Illiaria petiolata Igustrum vulgare (Illiaria petiolata Igustrum vulgare (Illiaria arundinacea Inragmites australis (wetland) Indigen (Illiaria petiolata) Inagmites australis (wetland) Inagmites australis (wetland) Inagmita alnus Inagmita angustifolia, T. x.glauca	Crown Vetch Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Reed Canarygrass Phragmites Japanese Knotweed Glossy Buckthorn (shrub) Multiflora Rose (shrub) Cattails (wetland)		Pres	Sence	a ww	comments	1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00 5: >1,000 # of Plants 1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00
Coronilla varia (G-cover) Eleutherococcus pentaphyllus Pachysandra terminalis (G-cover) Philadelphus coronarius Pulmonaria officinalis (G-cover) Rubus phoenicolasius Pris pseudacorus (wetland) Prnithogalum umbellatum Piburnum opulus var. opulus Piburnum plicatum Tier 4: Widespread a Illiaria petiolata Igustrum vulgare 1 Imorrowii, L. tatarica 1 Inalaris arundinacea Inragmites australis (wetland) Inolygonum cuspidatum Inangula alnus Insangula angustifolia, T. x.glauca Irsium arvense	Crown Vetch Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Reed Canarygrass Phragmites Japanese Knotweed Glossy Buckthorn (shrub) Multiflora Rose (shrub) Canada thistle		Pres	Sence	a ww	comments	1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00 5: >1,000 # of Plants 1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00
Coronilla varia (G-cover) Eleutherococcus pentaphyllus Pachysandra terminalis (G-cover) Philadelphus coronarius Pulmonaria officinalis (G-cover) Rubus phoenicolasius Pris pseudacorus (wetland) Prnithogalum umbellatum Piburnum opulus var. opulus Piburnum plicatum Tier 4: Widespread a Illiaria petiolata Igustrum vulgare i Imorrowii, L. tatarica i Inalaris arundinacea Inragmites australis (wetland) Polygonum cuspidatum Inangula alnus Insangula angustifolia, T. x.glauca Irsium arvense Ipsacus fullonum	Crown Vetch Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Reed Canarygrass Phragmites Japanese Knotweed Glossy Buckthorn (shrub) Multiflora Rose (shrub) Cattails (wetland)		Pres	Sence	a ww	comments	1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00 5: >1,000 # of Plants 1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00
Coronilla varia (G-cover) Eleutherococcus pentaphyllus Pachysandra terminalis (G-cover) Philadelphus coronarius Pulmonaria officinalis (G-cover) Rubus phoenicolasius Pris pseudacorus (wetland) Prnithogalum umbellatum Piburnum opulus var. opulus Piburnum plicatum Tier 4: Widespread a Illiaria petiolata Igustrum vulgare Imorrowii, L. tatarica Inalaris arundinacea Inragmites australis (wetland) Indipolygonum cuspidatum Inalaria alnus Insamula alnus Insamula alnus Insamula alnus Insamula angustifolia, T. x.glauca Irsium arvense Ipsacus fullonum	Crown Vetch Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Reed Canarygrass Phragmites Japanese Knotweed Glossy Buckthorn (shrub) Multiflora Rose (shrub) Canada thistle		Pres	Sence	a ww	comments	1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00 5: >1,000 # of Plants 1: 1-10 2: 11-50. 3: 51-100 4: 101-1,00

STANDING BIOMASS (required for emergent wetlands): collected in 0.1m clip plots (32x32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score colculation. C1=check when CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface
Project Label: PCAP Project Name: (D)(1)S3013 fodule # C?

LASSIFICATION			
II - excellent g Fit and Confidence			
vdrogeomorphic class (WETLANDS ONLY):			
DESIGNATION OF THE PROPERTY OF	2	Conf=	
DEPRESSION			
IMPOUNDMENT to Beaver to Human	1	Con-	
RIVERINE pHeadwater mainstem p Channel	E	Conf=	
SLOPE (ground water hydrology or on a physical slop)	Fit	Conf=	
FRINGING D Reservoir D Natural Lake	III	Conf-	
COASTAL (specify subclass)	File	Conf	
BOG (strongly, moderately, weekly ombrotrophic)	Fit=	Conf≃	1
Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):	SYLY):		
FOR EST Swamp forest bog forest forest seep	F	Conf=	
EMERGENT i marsh i wel meadow ii open bog	E	Conf=	
CHOIR Chuit swamp o tall sh bog tall sh fen	Fit=	Conf=	1

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

Panks for microhabitat features. Select one or select two and average the score.NOTE: If mod falls on a slope automatically gets tanked based on steepness (1-3) to begin + any features present Nope 1 = slight elevational grade across module (MI) Slope 2 = falls on slope ~20 ° Slope 3 = maximum steepness that can be safely sampled -45°

feature is absent or functionally absent from the wetland

feature is present in the wetland 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

	-					
C	0	26	F	0	0	
*	1	50	8	9	0	
30	3 9	20	-	0	0	
0	-	35	2	0	0	20103
(count)	(count)	(count)	(count)	(count)	(count)	
m01x01	m01x01	10x10m	10x10m	3 16x3 16m	lxim	
depth 1	depth 1	depth I	depth i	uplands (Tip-Ups) depth 2	depth 3	
>40 cm	(12-40cm)	(2-12 cm)	depressions	hummocks	tussocks	
cwd	c,w d	c.w.d	no macro.	no of	no of	

@ Gleveland Metroparto Page: 1 of 1

Plot No.: 1343

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

701

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

CROWN COVER (DENSIOMETER) Make 4 readings per module facing N. S. E. W. Place doi count in corresondine space (4 dots per gnd square)

F	50	9 0	-	Module
4	نړو	e g	ō	2
0	õ	=	-	s
õ	18	3	5	(61
ر ر	Ē	2	3	€

NOTE: tussock and hummocks are counted in BOTH nested quadral corners but counts are aggregated.

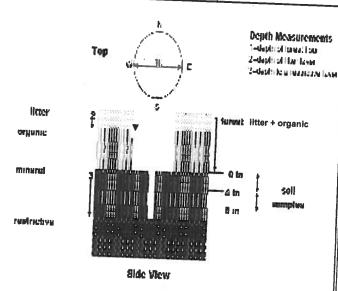
COVER BY STRATA

STRATUM	GENERAL FORM
Tree (generally >5 m)	Tree (overstory), very tall shrubs*, liana, epiphyte)
Shrub (generally 0.5 to 5 m)	Tree (sapling), shrub, liana, epiphyte)
Herb (Field)	Herb, dwarf-shrub**, tree (seedling***)
Floating	Floating
Aquatic (submerged)	Submerged

**Con planting the 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.



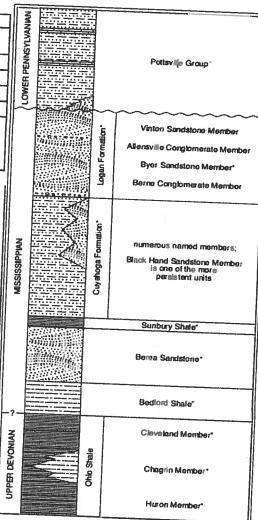


FIGURE 3-20.—Generalized section of Upper Devoman, Misiasippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are feasiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Waverly is used in the older literature to refer to Mississippian rocks in Ohio. Some geologists use the European term "Carboniferous," which encompasses the Mississippian and Pennsylvanian Periods of the U.S. Many units have been named within the Cuyahoga Formation, but most units have been named within the Cuyahoga Formation, but most units have been named within the Cuyahoga Formation, but most units have been named within the Cuyahoga Formation, but most units have been named within the Cuyahoga Formation, but most units have been named within the Cuyahoga Formation, but most units have been named within the Cuyahoga Formation, but most units have been named within the Cuyahoga Formation, but most units have been named within the Cuyahoga Formation, but most units have been named within the Cuyahoga Formation, but most units have been named within the Cuyahoga Formation, but most units have been named within the Cuyahoga Formation, but most units have been named within the Cuyahoga Formation, but most units have been named within the Cuyahoga Formation, but most units have been named within the Cuyahoga Formation on the Upper School Pennsylvanian Pen

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a
Project label: PCAP Project Name: (2)(0)53(0)9

Patereland Metroparks

Page: 1 of 1

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

Soil pit module # 3 (one per entire plot) 20 cm 5 cm matrix color 10 17 4/4 matrix color 254 4/4 texture* redox features** oxid roots redox features** nottle color exture* xid roots ydr. cond.*** mottle mottle rtle color 2 O I S (M) D Ø 3 包 z 3 □ Impermeable surface Somewhat poorly dr.

refer to texture classes on reverse side

hydro. cond ***

I S M D

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

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

touch worm

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

Soil Series Source: Ohio Soil Survey	Soil Series Type: Mab - Mahoning Sil + 100	Soil Collection Moduld Horizon (A. B. C) 12.345 composited A	_
	Soil Series Source: Ohio Soil Survey	Soil Series Type: MgB - Mghaning Sil + /as Soil Series Source: Ohio Soil Survey	

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

Well drained Excessively dr.

 Somewhat excessively Moderately well dr. □ Very poorly dr

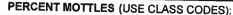
ㅗ	Ŋ	ړ	1	mod#
.4	° 5	Ü	35	l luter+ organic depth (cm)
٩	ů	ູ້ນ	'n	2 litter depth (cm)
G	O	0	O	water depth (cm)
۲ ان ا	>30	730	>30	depth sat soil (cm)

:	V	**Воц	* Grav	Bedrock	Boulder**	Grave	Mineral Soil	Histosol	(Sum - 100%)	Under	EART
*** <5 cm in diameter	***>5 cm in diameter	**Boulder => 10 in	* Gravel-Cobble = 1/16-10"	ck	CI **	Gravel-Cobble*	ıl Soil	ol	100%)	Underlying Earth Surface*	H SURFAC
meter	neter	in	= 1/16 - 10"	0	0	0	001	0	percent	Surface*	EARTH SURFACE & GROUND COVER
Other	Road/Trail	Bare Soil	Water	Bryophyte-Lichen	Duff (Ferm.+ Humus)	Litter	Fine Woody Debris****	Coarse Woody Debris***	(Each ≤ 100%)	Ground Cover	ND COVER
	0	_	0	20	0	85	5	15	percent		

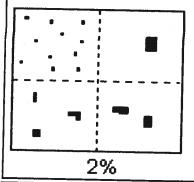
COVER BY STRATA estimate using midpol	COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13	ex:3, 8, 13
Strata	Height Range (m)	Total Cover (%)
Tree	5	93
Shrub	5 - 5	£8 8B
Herb	80	88
(Floating)*	ŧ	
(Aquatic)*	•	
ំ rooted and និ	 rooted and floating or slightly emersed 	sed
" submersed,	** submersed, most plant mass below surface	w surface
SEE BACK OF	SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS. STRATA CAN VARY BY CO	SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS, STRATA CAN VARY BY COVER TYPE.

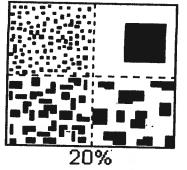
o Deer	o Gravel	Bootleg unsanctioned	□ Hiking sanction of	□ Bridle 0 X	⊃ All Purpose	Туре	record type and cover for each	TRAIL INFORMATION:
				(~)	\ \	%Cover	ach	

|--|



Class	C	ode	Criteria: % of
	Conv.	NASIS	Surface Area Covered
Few	f	#	< 2
Common	C	# ;	2 to < 20
Many	m	# .	≥ 20

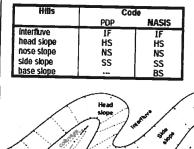




SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but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

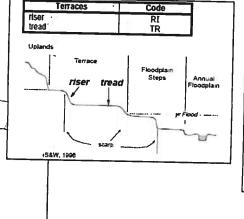
- 0= Organic
- 1= Loamy
- 2= Clayey
- 3= Sandy
- 4= Coarse Sand
- 9= Not measured make plot note

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



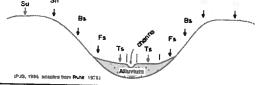
higher order tream

PJS 1996; adapted from Pushe, 1975



Hillstope - Profile Position (Hillstope 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
backstope	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 per ods 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 the U.S. where appropriate. This modifier can be applied to both wetland and non-wetland situations. Equivalent to Cowardin's

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.

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								s; E = Evergn	een. Leaf T	ype: B	= Bro	oadlea	f; N = I	Needic	e Leaf. A			vy (40	-75%);	4 = V	ery H	eavy (>75%)
Buffer	Canopy	у Тур	e: () () AI	bsen	t: O	Buffer	Canopy	у Тур	e: () () At	sent	: O	Buffer	Canopy	Туре	<u>: </u>	0	Ab	sent	0
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mall Trees (<	Section: Fill in appropriate cover class bubble for each strata type for each plot. 0 = fer								0	0	0	0	0		Small Trees	(<0.3m DBH)	0	0	0	0	0		
		0	0		0	0				0	0	0	0	0			ubs, Saplings 5m-5m HIGH)	0	0	0	0	0	
Woody Shrubs (<0.	, Saplings 5m HIGH)	0	0		0	0				0	0	0	0	0			ibs, Saplings <0.5m HIGH)	0	0	0	0	0	
	orbs and	0	0		0	0		Herbs,		0	0	0	0	0		Herbs	Forbs and Grasses	0	0	0	0	0	
Bare	Litter, duff							0	0	0	0	0		Bar	re ground	0	0	0	0	0			
Litt	ter, duff	0	0		0	0		Li	itter, duff	0	0	0	<u> </u>	0		L	itter, duff	0	0	0	0	0	
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				1			Flag				_	1	2	3	Flag			_		1	2	3	Flag
	Water Submerged Vegetation Vegetation O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O						Ditches, Channelization					0	0		Pasture/Ha	ev			0	0	o		
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Parking Lo	Buffer I bbles for all that apply: Canopy Type: D = Deciduous; E = Evergreen. Leaf Type: O Absent: O Buffer Plot 2 Leaf Type: O Flag Plot 2 Leaf Type: O Small Trees (<0.3m DBH) ss (<0.3m DBH) O O O O Small Trees (<0.3m DBH) ss (<0.3m DBH) O O O O Woody Shrubs, Saplings (<0.5m HiGH) rubs, Saplings O O O O O Woody Shrubs, Saplings (<0.5m HiGH) s, Forbs and Grasses are ground O O O Bare ground Litter, duff O O O O Bare ground Litter, duff O O O O Submerged Vegetation ssor Presence/Absence - Confirm that a filled data bubble in Basic Presence/Absence - Confirm that a filled data bubble in Basic Presence O O O Dike/Dam/Road/RR (MMFEDE FLOW) four lane O O O Dike/Dam/Road/RR (MMFEDE FLOW) four lane O O O Silko/Dam/Road/RR (MMFEDE FLOW) four lane O O O O O O O O O O O O O O O O O O O					ng		0	0	0		Fallow Fiel		RESTI	NG	0	0	0	9.				
Golf Cours	se				0	-		Fill/Spoil E	Banks	11.7	12	0	0	0		Fallow Fiel	d (OLD - GR	ASS,		0	0	0	
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Urban/Mul	tifamily			0	0	0		Wall/Ripra	ıp .			0	0	0		Orchard				0	O	0	
Landfill		il o		0	0	0		THE STATE OF THE S		1		0	0	0		Confined A	Animal Fee	ding		0	0	0	
Dumping				0	0	0		(EFFLUENT	OR STORM	VATER	3)	0	0	0		Rural Resi	dential			0	0	0	
Trash				0	0	0				Input		0	0	0		Gravel Pit				0	0	0	
Other:				0	0	0		Other:				0	0	0		Irrigation		115		0	0	0	
Other:				0	0	0		Other:		_		0	0	0		Other:		_		0	0	이	-
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Oil Drilling				0	0	0		Forest Clea	ar Cut			0	0	0		Herbicide L	Jse			0	0	0	
Gas Wells	Trees (<0.3m DBH)						Forest Sele	ective Cut			0	0	0		Mowing/Sh	rub Cutting	3	1	0	0	0		
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Giant Salvinia	-				Perennial Pepperweed	0	0	0		Common Buckthorn	•	0	0	
Garlic Mustard	O O O Glant Reed						0	0		Himalayan Blackberry	0		-	
Poison Hemlock	n Hemlock O O				Cheatgrass	0	0	0		Tamarisk	0	0	0	_
Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	0		Other:	0	1.0	-	
Birdsfoot Trefoil	0	0	0		Common Reed	0	0	0		Other:	-			
Canada Thistle	0	0	0		Leafy Spurge	0	0	0		Other:	_			
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Resi	idential	and	Urb	an S	tres	sors			Hydrolo	gy :	Stres	sors					Agricultu		_	ural S	tress 2		5 1
Fili bubble	e if pres	ent -	Plot	1	2	3	Flag	Fili bubble if present - Plot				1	2	3	Fiag	Fiii bubb	i bubble if present - Plot					3	Flag
Road - gr	avel			0	0	0		Ditches, Channelization			0	0	의		Pasture/F	/Hay			0	의	의		
Road - tw	o lane			0	0	0		Dike/Dam/Road/RR Bed (IMPEDE FLOW)			0	0	의		Range				0	의	의		
Road - fo	ur lane	84		0	0	0		Water Level Control Structure			-	0	0	-	Row Crop	ield (RECENT-RESTING			0	의	읭		
Parking L	.ot/Pave	ment		0	0	0		Excavation, Dredging			10	0	이		ROW CROP FI				0	0	0		
Golf Cour	rse			0	0	0		Fill/Spoil		C-di		10	0	0		SHRUBS, TI	S. TREES)			0		히	
Lawn/Pai	rk	10		0	0	0		Freshly Deposited Sediment (UNIVEGETATED)			10	0	0		Nursery				0	0	히		
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Urban/M	ultifamily	No.		0	\perp	0		Wall/Rip	-			10	0	0		Orchard			0	0	ö		
Landfill				0	_	_	_	Inlets, O	utlets urce/Pipe			10	0	0		Confined Animal Feeding			0	0	ö		
Dumping				0	-	-		(EEELLIEN	T OR STORM	/WAT	ER) ut	10	0	0	 -	Rural Residential			6	0	0		
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Oil Drillin	ng			C	O	0		Forest CI	ear Cut			0	0	0		Herbicide		_		10	0	0	-
Gas We	lls			C		0		Forest Se	elective C	ut		0	0	0	<u> </u>	Mowing/S	Shrub Cuttin	9		10	0	0	ļ.—
Mine (su	rface)			C	olo	0		Tree Plan	ntation			0	0	0		Trails				•	9	•	1
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							_		yer Brows	sed		0	•	0			vehicle dam			0	0	0	
								Highly G	razed Gra	sses		0	0	0		Soil erosion (FROM WIND, WATER, OR OVERUSE)			0	0	•	2	
Recently Burned Forest							t	0	0	0		Other:				0	0	0					
							Canopy Recently Burned Grassland			0	0	0		Other:				_ 0	0	0			
Other:	Class of the	an: 1/	m Ale	1			do II m	Suspect me	agurom en	t., F1	,F2, e	tc. = mi	sc. flag	is as:	signed	by each field	d crew.		24	2816	830	4	
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Site ID:									DALIEN SPECIES (Back) Reviewed by 1 1 6 1 70 13	ry (initi	al):		
Confirm	a fill	ed d	ata b	ubble I	ndicates presence and an un				dicates absence by filling in this bub		A DI		
Fill bubble if present - Plot	1	2			Fill bubble if present - Plot	_	2	3			_	_	_
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Water hyacinth	0	0	0		Knotweed	0	0	-	Kudzu	0	0	0	
Yellow Floating Heart	0	0	0		Japanese Knotweed	0	0	0		0	0	0	
Glant Salvinla	0	0	0		Perennial Pepperweed	0	0	0	Multiflora Rose	•	0	•	
Garlic Mustard	0	0	0		Giant Reed	0	_	0	Common Buckthorn	•	•	•	
Poison Hemlock	0	0	0		Cheatgrass		0	0	Himalayan Blackbefry	0	0	0	
Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	0	Tamarisk	0	0	0	
Birdsfoot Trefoil	0	0	0		Common Reed	0	0	0	Other:	0	0	0	
Canada Thistle	0	0	0		Leafy Spurge	0	0	0	Other:	0	0	0	
			0		ceary Spurge	0	0	0	Other:	0	0	0	
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2 Des tail	<u>ر</u> 2	<u> </u>	ten	Co	machen								
			· ·										
Buffer Sample Points	s - Ta	rgete	ed Ali	en Spec	cies 05/27/2011				796662	2354	48		

				EOPI	M B-1: BUFFER SAME	PLE	PLO	TS (F	ront) Reviewed by (In	itial);		•	
· maam	101	3 4			TID-I. BUILEN CAMI			DAT	E: 07/16/20	b. 1	3		
Site ID: KAPM	2,	<u>9 </u>	トツ		Fill in hubble	(s) If	plot	(s) co	uld not be sampled and fla	g —	. T		T
Location:	0.0	4	E	OV	0 71 14 4	O Plo			Plot 3				
O AA GOILLOI G 11	<u>os</u>	_	- 11		Buffer Natural C	over	Stra	ta		1			
iii in bubbles for all that apply: Cand trata Section: Fili in appropriate co	opy Typ ver cla	pe: D : ss bub	= Dec	iduous; or each :	E = Evergreen. Leaf Type: B = Broad strata type for each plot. 0 = Absent;	ileaf; N 1 = Spa	= Nee rse(<1	die Leaf 0%); 2= 		t = Very	Heav	y (>75	%)
Buffer Canopy Type:	0	Abs	ent:	0	Buffer Canopy Type:	0	Abse	nt: C	Buffer Canopy Type: Plot 3 Leaf Type:	$\frac{\Theta}{\Theta}$	Abse	Fla	븼
Plot 1 Leaf Type:	0		ı	lag	Plot 2 Leaf Type:	$\frac{\Theta}{\Theta}$	10	Flag		00	00	$\overline{}$	<u>"</u>
Big Trees (>0.3m DBH)		<u> </u>	<u> </u>			<u> </u>		_	- - - - - - - -	0 0	+ =	_	\dashv
mall Trees (<0.3m DBH)	3		<u> </u>	5		<u> </u>	_	_		0 0	-	_	\dashv
/oody Shrubs, Saplings (0.5m-5m HIGH)		<u> </u>	<u> </u>		(U.SHEMINGH)	<u> </u>		-	(0.5m-5m HIGH)	00	4	4-	ᅥ
/oody Shrubs, Saplings (<0.5m HIGH)	\odot	<u> </u>	<u> </u>		Woody Shrubs, Saplings (<0.5m HIGH)				(<0.5m HIGH) Herbs, Forbs and	ölö	-	_	\dashv
Herbs, Forbs and Grasses	0 0	\mathfrak{D}	<u> </u>		Grasses		-+-		Glasses	0 4			\dashv
Bare ground 💿 🔘	0	0	<u> </u>		Bare ground ① ①				Litter, duff O		-+-	5	
Litter, duff 💿 🌑	0]	<u> </u>	<u> </u>			$\stackrel{\smile}{\sim}$	<u> </u>					5	
Rock 🕙 🛈	0	\odot	0		Rock 0		<u> </u>		1 1			5	
Water 🔘 🕦	0	0	0		Water 0	~ 	<u> </u>	_	Submerged Vegetation	<u> </u>	-	5	
Submerged Vegetation	0	0	0		Submerged Vegetation	\sim \sim	<u> </u>	- 1	Vegetation - 1				
Stressor Presence/Abs	sence	e - C	onfi	m that			and	an until	led bubble indicates absence by filli Agricultural & Ru	ral St	race	ore	
Residential and Urba	n St	ress	ors		Hydrology Stress	ors	-		Tour A this is assessed Diet		-	-	Flag
Fill bubble if present - Piot	1	2	3	Flag	Fill bubble if present - Plot	1	2		The same of the sa	\rightarrow		ol	
Road - gravel	0	0	0		Ditches, Channelization Dike/Dam/Road/RR Bed	의		0	Pasture/Hay Range	_	_	<u></u>	
Road - two lane	0	0	0		(IMPEDE FLOW)	0	_	9	Row Crops	ö		ŏ	
Road - four lane	0	0	0		Water Level Control Structure		-	0	Fallow Field (RECENT-RESTING	0	_	ol	
Parking Lot/Pavement	0	0	0		Excavation, Dredging	읝	읭	0	ROW CROP FIELD) Fallow Field (OLD - GRASS,	-	_	o	
Golf Course	0	0	0		Fill/Spoil Banks Freshly Deposited Sediment	0	0	0	SHRUBS, TREES) Nursery	0	0	o	
Lawn/Park	0	의	0		(UNVEGETATED) Soil Loss/Root Exposure	ŏ	0	ö	Dairy	0	0	0	
Suburban Residential	0	의	00		Wall/Riprap	ŏ	0	ol	Orchard	0	0	0	
Urban/Multifamily	10	00	0	-	Inlets, Outlets	ō	0	ol	Confined Animal Feeding	0	_	0	
Landfill	0	0	0	-	Point Source/Pipe (EFFLUENT OR STORMWATER)	0	0	0	Rural Residential	0	_	이	
Dumping	6	0	0		Impervious surface input (SHEETFLOW)	0	0	0	Gravel Pit	0	\rightarrow	이	
Other:	6	0	0		Other:	0	0	0	Irrigation	0	이	0	
Other:	6	0	o	-	Other:	0	0	0	Other:	0	0	0	
Industrial Developm		-	-			H	labit	at/Veg	etation Stressors				10
Fill bubble if present - Plot	_	2	3	Flag	Fili bubble if present - Piot	1	2	3 F	lag Fili bubble if present - Plot	1	2		Flag
Oil Drilling	0	-	0		Forest Clear Cut	0	0	0	Herbicide Use	0	9	0	
Gas Wells	0	_	0		Forest Selective Cut	0	0	0	Mowing/Shrub Cutting	0	0	0	
Mine (surface)	0	1 -	0		Tree Plantation	0	0	0	Trails	0	0	0	
Mine (underground)	0	+	0	1	Tree Canopy Herbivory	0	0	0	Soil Compaction (ANIMAL OR HUMAN)	0	0	0	
	10	1	+-	_	Shrub Layer Browsed	0	0		Offroad vehicle damage	0	0	0	
Military	_	+	+		(WILD OR DOMESTIC) Highly Grazed Grasses	0	0	0	Soil erosion (FROM WIND, WATER OR OVERUSE)	0	0	0	_
Other:	0	+-	_		(OVERALL < HIGH) Recently Burned Forest	0	0	0	Other:	0	0	0	
Other:	0	+	-	_	Recently Burned Grassland	0	0	0	Other:	0	0	0	
Other:	C	0			(BLACKENED)	c = mis	sc. flac	as assig	ned by each field crew. 2.4	2816	830	4 (
Flag codes: K = No n Buffer Sample Plo				KDIZIN 4	li flags in comment section on the	back of	f this f	orm					

Site ID										IEN SPECIES (Back) Reviewed		ial):	191
			_				-	0.		14.1.20.13			
Fili bubble if present - Pl		Ta	ata b	ubble i	ndicates presence and an un	filled	bubb	le in	dicates	absence by filling in this but	bie		
Eurasian Watermilfoil	+-	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3
Water hyacinth	10	0	0		Purple Loosestrife	0	0	0		Johnson Grass	0	0	0
fellow Floating Heart	0	0	0		Knotweed	0	0	0		Kudzu	0	0	0
Giant Salvinia	0	0	0		Japanese Knotweed	0	0	0		Multiflora Rose	0	0	
Sarlic Mustard	0	0	0		Perennial Pepperweed	0	0	0		Common Buckthorn	0	0	0
oison Hemlock	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry	0	0	0
file-A-Minute Weed	0	0	0		Cheatgrass	0	0	0		Tamarisk	0	0	0
	0	0	0		Reed Canary Grass	0	0	0		Other:		-	-
irdsfoot Trefoil	0	0	0	- (Common Reed	0	0	0		Other:	0	0	의
anada Thistle	0	0	이		eafy Spurge	0	0	o		Other:	0	0	이
									W 100	Other:	9	0	의
					PLOT COORD	INIA:		-		outer:	의	0	이
er placed as close to the cocation of coordinate AA CENTER O N	s (che	of Plo	one	s possit	O W3 O Nearest practi	ction	belov sible E	v. The Buffer	coordi Plot.	RANSECT. This is important be not the "nearest practicable locat nates of the nearest practicable not comment below)	ecaus tion" b	ubble tion c	Buffe e, fill i an be
or placed as close to the cocation of coordinate O AA CENTER O N	s (che	of Plo	one	s possit	O W3 O Nearest practi	cable	belov sible E	v. The Buffer ation	coordi Plot. (flag a	nates of the nearest practicable	e loca	ubble tion c	, fill i an be
ocation of coordinate AA CENTER O N	s (che	of Plo	one	s possit	O W3 O Nearest practi	cable	belov sible E	v. The Buffer ation	coordi Plot. (flag a	nates of the nearest practicable	e loca	ubble tion c	, fill i an be
ocation of coordinate AA CENTER O N: Latitude N	s (che	of Plo	one	s possit	O W3 O Nearest practi	cable	belov sible E	v. The Buffer ation	coordi Plot. (flag a	nates of the nearest practicable	e loca	ubble tion c	, fill i an be
proplaced as close to the ocation of coordinate AA CENTER ON:	s (che	of Plo	one	s possit	O W3 O Nearest practi	cable	belov sible E	v. The Buffer ation	coordi Plot. (flag a	nates of the nearest practicable	e loca	ubble tion c	, fill i an be
ocation of coordinate AA CENTER O N	s (che	of Plo	one	s possit	O W3 O Nearest practi	cable	belov sible E	v. The Buffer ation	coordi Plot. (flag a	nates of the nearest practicable	e loca	ubble tion c	, fill i an be
ocation of coordinate AA CENTER O N: Latitude N	s (che	of Plo	one	s possit	O W3 O Nearest practi	cable	belov sible E	v. The Buffer ation	coordi Plot. (flag a	nates of the nearest practicable	e loca	ubble tion c	, fill i an be

		(A)		111		FOR	M B-1:	BUFFE	R	SAN	PLE	PLC						d by (li				
Site I	D: PCA	Pn	rs,	132									D	ATE:	07	116	1	2	0	.3	1	_
Location			/	3			s allow	Fill	in b	ubb						sample	d an	a tia	ıg —			
OAAC	enter C	N(Ø 5	2	DE	×		OP		1000	O Pl			O Plo	ot 3				10			-4
iii In bubbie	es for all that appon: Fill in approp	ply: Ca	nopy T	ype: D	= De	ciduous for each		Buffer leen. Leaf Ty or each piot						eaf. Abs 2=Mode	sent: No tree erate(10-40	e canopy. %); 3 = Heav	y (40-	75%);	4 = Ver	y Heav	y (>7	5%)
trata Secut		-	-	_		\overline{a}		Canopy			(1)	Abse		0	Buffer	Canopy			0	Abse		0
Buffer Plot 1	Canopy Typ) <u>(</u>	-	sent		Buffer Plot 2		f Typ	-	0		F	lag	Plot 3	Leaf	Туре	: 📵	\odot		F	lag
	<u> </u>	0		$\overline{\odot}$	0	Flag	Big Trees (>0.3m DBH)	M	0	0	DIC	T		Big Trees	(>0.3m DBH)	0	0		<u> </u>	<u> </u>	
Big Trees (>		0	0	<u></u>			Small Trees (Ö	00	5 6			Small Trees	(<0.3m DBH)	0	0	0		ગ_	
mall Trees (+=	-	$\overline{\mathbf{A}}$	ŏ		Woody Shrub	s, Saplings	6			510	5		Woody Shr	ubs, Saplings 5m-5m HIGH)	0	0	0		ગ_	
(0.5m Voody Shrub	-5m HIGH)	0	0		0		Woody Shruk		0	6		5 0			Woody Shr	ubs, Saplings (<0.5m HIGH)	0	0) (C	<u>آ</u>	
(<0	.5m HIGH)		0	0	-		<u>, </u>	0.5m HIGH) Forbs and	0			510	-+			s, Forbs and Grasses	0		()) (C	O	
neius, i	Grasses O		0	의	의		Bar	Grasses	0	O	-	5 6	_		Ba	are ground	0	0		D	<u> </u>	
	ground ①		0	0	의			e ground	0	6	0		5	-+		Litter, duff	0	0	0		3	
Li	tter, duff O	10	0	0			L	itter, duff	18	۱ ۳	-		5	-+		Rock		Ō	0		3	
	Rock 💮	10	0	0	<u>0</u>			Rock	3	0			_			Water		0			<u></u>	
	Water (0	0	\odot			Water Submerged	9	10		= 	<u> </u>	-+		Submerged		$\ddot{0}$		_	3	
	ubmerged Vegetation		0	0	\odot			Vegetation			0	ン・	<u>ار</u>	-64-4	t bhis ind	Vegetation	2000					0
Stres	sor Present	ce/Al	osen	e - (Confi	rm that	a filled dat					and	an u	ntillea	bubble ind	nuales abs		0 D.	ral St	-	OPE	
Res	idential and	d Urb	an S	tress	sors			Hydrole	ogy	Stres	sors		_			Agricult		_	1			Flag
Fill bubb	e If present	- Plot	1	2	3	Flag	Fill bubb	le if pres	ent -	Piot	111	2	3	Flag	Fill bubb	ie if prese	nt - r	101				· lug
Road - g	ravel		0	0	0			Channeliz			0	_	의		Pasture/h	Hay				_	읭	
Road - tv			0	0	0		Dike/Dan (IMPEDE FL	LOW)			0	이	의		Range					_		
Road - fo	our lane		0	0	0		Water Le	vei Contr	ol St	ructur	e 0	0	의		Row Crop	eld (RECENT	DEST	ING		의	이	
Parking	Lot/Pavement	t	0	0	0		Excavation	on, Dredg	ing		0	의	의		ROW CROP F				0	의	허	
Golf Cou	ırse		0	0	0		Fill/Spoil		0.3		0	0	의		SHRUBS, T	REES)			0	읭	허	
Lawn/Pa	ırk	W.H	0	0	0		(UNVEGET				19	0	의		Nursery			-	-	허	히	
Suburba	n Residential		0	0	0		Soil Loss	s/Root Ex	posu	re	0	0	0		Dairy		_	-		+	히	
Urban/M	lultifamily		0	0	0		Wall/Rip	rap			0	0	0		Orchard	A Autor of Fo	- dine		00	읭	0	-
Landfill			0	0	0		inlets, O				0	0	0			Animal Fe	eding		_	히	ö	
Dumpin	9		0	0	0		1 (FEFLUEN	urce/Pipe t or stori	MWAT	ER)	0	0	0		COL		-		00	0	ö	
Trash			0	0	0		(SHEETFL	ous surfac OW)	e int		0	0	0		Gravel P		50		0	0	히	
Other:			_0	0	C		Other:		_		-0	0	0		Irrigation				10	0	히	
Other:				0	C		Other:		_		-0	0	0						10	0	9	
Inc	lustrial Dev	elop	ment	Stre	SSO	rs						Habit	at/V	egeta	tion Stre		1					
	bie if present	_		2	T	Flag	Fill bubt	ole if pres	sent	- Plo	t 1	2	3	Flag	Fiii bu	bbie if pre	sent	- Pio	21	2	3	Flag
Oil Drilli		W/A		0	0		Forest C	lear Cut			0	0	0		Herbicid	e Use			0	0	0	1
Gas We			0	0	0		Forest S	elective C	ut		0	0	0		Mowing/	Shrub Cutt	ing		0	0	0	+
Mine (s	urface)		10	50	10		Tree Pla				0	0	0		Trails				0	9	0	
	nderground)		1	-	+	_	Tree Car	nopy Hert	olvory		0	0	0			npaction OR HUMAN)			0	0	0	<u> </u>
Military				_	+	_	Shrub La	yer Brow			0	•	0		and the second second	vehicle dar			0	0	0	_
					-	_	Highly G	razed Gra <3" HIGH)		\$	0	0	0		Soil eros	sion (FROM V USE)	VIND,	WATER	<u>`</u> 0	0	0	
Other:				_	+-	+	Recently	Burned I	Fores	st	0	0	0		Other:				0	0	0	
Other:		_	_	-	_	_	Canopy Recently	Burned (Gras	sland	0	0	0		Other:				0	0	0	,
Other:	Flag codes: I	/ = M-		OC	- 4	do 11.	(BLACKEN	A20Urom 6I	nt., F	1,F2, e	tc. = mk	sc. fla	gs as:	signed	by each fie	id crew.		24	2816	830	4	
	Buffer Sam				E.	xolain a	ii flags in co	mment se	ction	on the	back of	f this f	orm	115				M				
	purier sam	hic Li	ULD	33/21	, 20.	1000			-													

										lewed by (ini	tiai):		
	-		_					J.*	71.161.201	3			
Fill bubble if present - Plo	1 1	12	3	Slee I	rdicates presence and an uni	filled	bubb	ie ind	dicates absence by filling in this	s bubble			
Eurasian Watermilfoil	0	+	+	riag	Fill bubble if present - Plot	1	2	3	Flag Fill bubble if present -	Piot 1	2	3	Fla
Water hyacinth	0	0	00		Purple Loosestrife	0	0	0	Johnson Grass	0	0	0	
Yellow Floating Heart	0	0	0		Knotweed	0	0	0	Kudzu	0	-	-	
Glant Salvinia	0	0	0		Japanese Knotweed	0	0	0	Multiflora Rose	0	•	9	
Garlic Mustard	0	0	0		Perennial Pepperweed	0	0	0	Common Buckthorn	0	0	0	
Poison Hemlock	0	0	0		Giant Reed	0	0	0	Himalayan Blackberry	0	0	0	
file-A-Minute Weed	0	0	0	_	Cheatgrass	0	0	0	Tamarisk	0	0	0	
irdsfoot Trefoil	0	0	0		Reed Canary Grass	0	0	0	Other:	0	0	0	
anada Thistle	0	0	0			0	0	0	Other:	0	0	0	
	0	01	91		eafy Spurge	0	0	0	Other:		0	0	
					PLOT COORD				Other;	0	0	0	
Location of coordinates O AA CENTER O N3	0	S3	0	E3		cable	e loca	ation	(flag and comment below)			Flag	7
Location of coordinates O AA CENTER O N3	0	S3	0	E3	- The production	ongi	tude	We	(flag and comment below)	6.7.		Flag	
Location of coordinates O AA CENTER O N3 Latitude No	0	S3	0	E3	0.1.09 L	ongi	tude	We		6.7.		Flag	
Latitude No	orth	4.	0	E3	0.1.09 L	ongi	tude	We		6.7.		Flag	
Location of coordinates O AA CENTER O N3 Latitude No	orth	4.	0	E3	Use Decimal Degree	ongi	tude	We		6.7.		Flag	

	4				**		FOR	M B-1:	BUFF	ER	SAN	IPLE	PL	ОТ	S (Fr	ont)	Rev	ewed by (initial):		- (
Site I	D: P	M	pn	181	34	13								1	DATE	07	116					
Location									Fill	in b	ubb	le(s)	if plo				sampled					
OAAC	Center	0	N	0	S	OE	•	W	OP	lot '	1	OF	lot 2		OP	lot 3						
								. F - F	Buffer	B		adlasf	M = M	alha	leaf Al	bsent: No tree	canopy.					
-ill in bubble Strata Section	es for all th on: Fill in a	at app	riate d	over c	lass b	ubble	for each	strata type fo	or each plo	t. 0 = .	Absen	t; 1 = S	parse(<10%); 2=Mo	derate(10-409	%); 3 = Heavy	(40-75%);	4 = Ve	ry Hea	vy (>	75%)
Buffer	Canopy	/ Typ	e: () () At	sent	: 0	Buffer	Canopy	у Тур	e: 🕢	0	Abs	sent:	0	Buffer	Canopy Ty	/pe: 🕼	0	Abs	ent:	0
Plot 1	Leaf	f Тур	e: 🐠) (Flag	Plot 2	Lea	f Typ	e: 🕖) ()			Flag	Plot 3	Leaf Ty	/pe: 🐠	<u> </u>			lag
Big Trees (>	0.3m DBH)	0		0	0	0		Big Trees (>0.3m DBH)	0		0		<u> </u>		Big Trees	(>0.3m DBH)		0	_	<u> </u>	
mall Trees (<	<0.3m DBH)	0	0	Ø	0	0	·	Small Trees ((<0.3m DBH)	0	0	0		<u> </u>		Small Trees		-1-1			<u> </u>	
Voody Shrubs (0.5m	s, Saplings -5m HIGH)	0	0	0		0		Woody Shrub (0.5n	os, Saplings n-5m HIGH)	0	0	0	<u> </u>	<u> </u>		(0.5	bs, Saplings m-5m HIGH)		0	_	<u> </u>	
Voody Shrubs		0	0	0	0	0		Woody Shrub	os, Saplings 0.5m HIGH)			0	\odot	<u> </u>			0.5m HIGH)		0	_	<u> </u>	
	orbs and Grasses	0	0	•	0	0		Herbs,	Forbs and Grasses		0		\odot	\odot		Herbs,	Forbs and Grasses		0	<u> </u>	<u> </u>	
Bare	ground	0	1	0	0	0		Bar	e ground	0	0	(4)	0	\Im		Bar	e ground		0		<u> </u>	
Lit	ter, duff	0	1	0	0	0		L	itter, duff	0	1	0	0	\odot		L	itter, duff	0	0	\odot		
· ·	Rock	1	0	0	0	0			Rock	(4)	0	0	0	<u></u>			Rock		0	0	O	
<u> </u>	Water	9	Ō	0	0	Ō			Water	0	0	0	0	⊙		· -	Water	0	0	0	\odot	
	ubmerged	_	0	0	0	$\overline{\odot}$			Submerged Vegetation		0	0	0	0			Submerged Vegetation	00	0	0	0	
Stress	egetation For Pres		1~	send	_	_	rm that				tes p	resend			unfilled		cates absend	e by fill	ng thi	s bubl	ole. (•
	idential	2100	~			10.			Hydrolo								Agricultur					
FIII bubbi	e if pres	ent -	Piot	1	2	3	Flag	Fill bubbl	e if pres	ent -	Piot	1	2	3	Flag	Fill bubble	e If present	- Plot	1	2	3	Flag
Road - gr	avel			0	0	0		Ditches, C	Channeliz	ation		0	0	0		Pasture/Ha	ау		0	0	이	
Road - tw	o lane			0	0	0		Dike/Dam		R Bed	1	0	0	0		Range			0	0	0	_
Road - fo	ur lane			0	0	0		Water Lev	ALC: NO.	ol Str	ucture	0	0	0		Row Crops			0	0	0	
Parking L	.ot/Paver	nent		0	0	0		Excavatio	n, Dredgi	ing		0	0	0	1	ROW CROP FIE			0	이	의	
Golf Cou	rse	PAII		0	0	0	2	Fill/Spoil				0	0	0		Fallow Fie SHRUBS, TR	ld (OLD - GRAS EES)	S,	0	0	이	
Lawn/Pai	rk		1	0	0	0		Freshly D		Sedii	ment	0	0	0		Nursery	4,000		0	의	의	
Suburbar	n Resider	ntial		0	0	0		Soil Loss	/Root Exp	osur	8	0	0	0		Dairy			0	의	의	
Urban/Mı	ultifamily			0	0	0		Wall/Ripr	ар			0	0	0		Orchard			0	0	의	
Landfill				0	0	0		Inlets, Ou				0	0	0			Animal Feed	ng	0	0	의	
Dumping				0	0	0		(EFFLUENT	OR STORM	WATE	R)	0	0	0		Rural Res			0	0	의	
Trash				0	0	0		(SHEETFLO	W)			0	0	0		Gravel Pit			0	9	의	
Other:		_		0	0	0		Other:	-			.0	0	0	<u> </u>	Irrigation		0.00150	0	0	의	
Other: _			_	10	0	0	L	Other:				.0	0	0		-			0	0	이	
Indi	ustrial C)eve	lopn	ent	Stre	ssor	8						Habit	at/V	egeta	tion Stres						
Fiii bubb	ie if pres	ent -	Piot	1	2	3	Flag	Fili bubbi	e if prese	ent -	Piot	1	2	3	Flag	Fill bubl	ble if preser	t - Plot	-	2		Flag
Oil Drillin	ig			0	0	0		Forest Cle	ar Cut		10.11	0	0	0		Herbicide	Use		0	0	0	
Gas Wel	ls			0	0	0		Forest Sel	lective Cu	ıt		0	0	0	<u> </u>	Mowing/SI	rub Cutting		0	0	0	
Mine (su	rface)			0	0	0	l	Tree Plant				0	0	0		Trails		(Arg.)	0	0	0	
Mine (un	dergroun	ıd)		0	0	0		Tree Cand (INSECT)	• •	-		0	0	0		Soil Comp (ANIMAL OR			0	0	0	
Military				70	+	0		Shrub Lay	er Brows	ed		0	0	Ð			hicle damag	100	0	0	0	
Other:				0	-	0		Highly Gra	zed Gras		N, III	0	0	0		Soil erosio	n (FROM WIND E)	, WATER,	0	0	0	
Other:			enra .	o	_	+		Recently I	Burned Fo	orest		0	0	0		Other:			0	0	0	
Other:				0	+	+-		Recently I		rassl	and	0	0	0		Other:			0	0	0	
	Flag code	s: K =	No n			t m 46	le, U = :	(BLACKENE) Suspect mea	surement	., F1,	F2, etc	. = mis	c. flac	s ass	signed t	y each field	crew.	242	816	8304	1	
	Buffer Sa					Exi	olain ali	flags in com	ment sect	tion o	n the l	oack of	this fo	orm	Pyral							

Market Control of the	PL			w Z	ER SAMPLE PLOTS -	DAT	ΓE: _(27		Reviewed b	y (initi	ai):		
			100							absence by filling in this bub	blo			
Fill bubble if present - Piot		2	3		Fill bubble if present - Plot	1	2	3	Fiag		_	T.		-
Eurasian Watermilfoil	0	0	0		Purple Loosestrife	0	0	0	riug	Johnson Grass	-	2	3	Fla
Water hyacinth	0	0	0		Knotweed	0	0	0		Kudzu	0	0	0	
Yellow Floating Heart	0	0	0		Japanese Knotweed	0	0	0		Multiflora Rose	0	0	0	
Giant Salvinia	0	0	0		Perennial Pepperweed	0	0	0		Common Buckthorn	(4)	0	0	
Garlic Mustard	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry	0	9	0	
Poison Hemlock	0	0	0		Cheatgrass	0	0	0		Tamarisk	0	0	0	
Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	0			0	0	0	
Birdsfoot Trefoil	0	0	0		Common Reed	0	0	0		Other:	0	0	0	
Canada Thistle	0	0	0		Leafy Spurge	0	-			Other:	0	0	이	
			9		estry optinge	U	0	0		Other:	0	0	이	
		1/4/23		4.2	PLOT COORD					Other:	0	0	0	
Location of coordinates O AA CENTER O N3	s (ch	008	ot 3 a	as poss	ible or at the center of the last	acces	sible	w. Th	r Plot.	TRANSECT. This is important being the "nearest practicable local dinates of the nearest practicable local dinates of the nearest practicable local compress to below."	e loca	ction	e, fill can b	е
Location of coordinates O AA CENTER O N3	s (ch	00s	e on	e): D E3	© W3 O Nearest prac	ticab	sible loc	w. Th Buffe ation	r Plot.	in the "nearest practicable localinates of the nearest practicable and comment below)	e loca	ction	can b	е
Location of coordinates O AA CENTER O N3	s (ch	00s	e on	e): D E3	© W3 O Nearest prac	ticab	sible loc	w. Th Buffe ation	r Plot.	in the "nearest practicable loca linates of the nearest practicable and comment below)	e loca	ction	can b	е