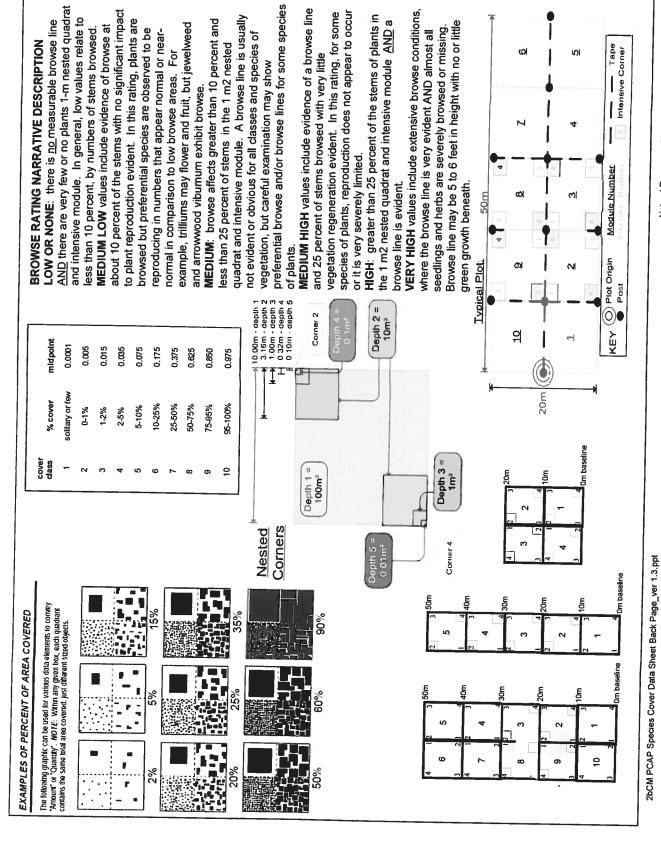
CLEVELAND MI	ETROPARKS Plant Community Ass	sessment Progran	n: Quality Control Form	Cleveland Metroparks
Project Label:	PCAP PCAP		o: <u>3453</u> Date Sampled: <u>8/</u> 7	413 Lead: SC
			Comment required if	item answer is NO
Parking/Access out	side of Park Boundaries:	Y N	If yes, write details in Comments	
Field journals comp	oleted	Y N		
Site sketch made or	1:3000 map?	♥ N		
Check cover page	X-axis Bearing of plot recorded	₩ N		
	GPS coords. Recorded	₩ N		
	North direction recorded	(Y) N		
	Photographs taken?	(Ý) N		
Plot No., Date agree	ment on all pages?	Ŷ N		
Header data comple	ted all pages?	(Y) N		
Cover classes record	led in all Intensive modules	(v) N		
Browse Level By Sp	pecies	Y N		
Woody stem quality	control check	Q N		
Invasive plant qualit	y control check	(Ŷ) N		
Ash trees mapped		(Y) N		
Cover by Strata? (co	nfirm cover type)	A) N		
_	ed with matching plot #.	(Ŷ) N		
	datasheet with initials and number	Y N		
Vouchers labeled on		Y N		
Pink flags removed		Y N		
Data sheet QA before	e leaving site?	Y N		
Common equipment		Y N		
Data sheets scanned?		CL8-16-13	Enter date to left	
inal data sheets scar	nned?		Enter date to left	
Buffer Widths measu	red?	Ø N	EL 8-16-13	
Veb Soil Survey	· · · · · · · · · · · · · · · · · · ·	(V) N	CL 8-16-13	
oucher Location	Refrigerator	YN	00 (101)	
# vouchers collected)	Press (#)	 	Enter number to left	
S)C-211-	Drier	Y N	Litter number to tell	
216	Identified	YN		
LIB	Mounted	YN		
	Thrown away	YN		
		1 1		
RTS point verifica	tion: Is plot sampleable?			
Yes	Original GRTS point is sampleable			
□ No	Original GRTS point lands in a non-s	ampleable area (6	II in catagory believe	
	Point falls in a water (i.e. river, la	ampicavie area (II	ii iii category below)	
	Managed mowed area (i.e. golf of		I-of-way)	
	 Paved area (i.e. parkinglot, road) 		· · · · · · · · · · · · · · · · · · ·	
	 Unsafe to sample (i.e. steep slope) 			

Additional Comments:

CLEVELAND METROPARKS Plant Community			4
Project Label:		PCAP	Clurchand Mutrupath
		rroject Name: USC 2013	Plot No.: 3453 Page 2 of 2
MODIFIED NATURESERVE CLASS*		DISTURBANCES	
CODE (on separate form):	Fit=Conf=	type* severity** yrs ago	% of plot description
WolD		0	
Aturical St	(Clession	Natural (+)	100 dead branches
COMMUNITY NAME: Red Maple Woodlang	Woodlang	Fire	
	, , , , , , , , , , , , , , , , , , ,	Animal	
			Jana La Jana
HOMOGENEITY		**1_=low, MI=med low. M=med	**L=low, ML=med low, M=med MH=med high H=high VH=voor, high
Alomogeneous Compositional to	□ Compositional trend across the plot	Current Land Use: CN(P	11311 (12. 11. 11. 11. 11. 11. 11. 11. 11. 11.
□ Conspicuous inclusions □ Irregular/pattern mosaic	mosaic	Former Land Use: LNK	
	HYDROLOGIC REGIME*	3	
	CUpland (seldom flooded)	- Intermittently flooded	
SALINITY*	☐ Intermittently/seasonally saturated	Seminermanently flooded	
□ Saltwater	(seldom flooded)	Permanently flooded	
□ Brackish	☐ Permanently/Semipermanent. saturated		
- Fresh	(dry <1/yr, seldom flooded)		
)≾∪pland (n/a)	□ Occasionally flooded (<1/yr)	□ Tidal/Seiche flooded irregular	
	□ Temporarily flooded	(e.g. wind, storms)	
(by default unless plot is a wetland)		a Unknown	
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)	of plot to the stand, successional status	s. maturity, etc.)	
Microbabitat got high ratings because of multiple land, it !!	ratings because	of multiple loces	
depressions, ourrently	dry. Other than	The Carthine Car	Shallow Vernal pool
woodly be a real	which plot enough		is in the would
Vernal Hools alex is dies and list last soil is a good in	The desire areas	Tit lost bis 1	of layer present in
covered the ground	also belonding	on and long	ob downed branches
Ground was depart	perate except	anon retrogs.	
Have a Looling than	are in property	"To tarto as of larex	swanii & grasses.
Vone down the first of the spring that get it?	The Table of the T	In spring. Chaha	9et:42

Br = Browse Level. Use cover classes to describe amount of browse per species over entire plot The Species over entire plot sunwaystated open water 1 on the plot sunwaystate open water	Br = Browse Level. Use cover classes to describe amount of browse per species over intensive modules: Br = Browse Level. Use cover classes to describe amount of browse per species over intensive module: According to the cover classes to describe amount of browse per species over intensive module: According to the cover classes to intensive module: According to the cover classes to describe amount of the cover intensive module: According to the cover classes to intensive module: According to the cov	200 BCAB		2	2	7	2	2	2	green 4	tim, light - 2	77		3)	2	2	pyrussp.	nocles	hairsy - 2	(V)	5	2	1	J.	2	2	$\overline{}$	T S H (F		Wedomen.	Cleveland		3	>	Total modules:	 Floject Label.
Intensive modules: U Estimate for each intensive module: %open water 1 0 %unveg. ground (bare soil) 1 1 0 %unveg. litter (bare litter) 1 9 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Intensive modules: Estimate for each intensive module: %unweg, ground (pare soh) 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Species Cov	ál	us sp. (seedhi	a S-	Vitainica	3	Ó	6	Acer Ulmus american	h	Ciona arimaticacasa	hadist our	1 1 1 1 1 1		to hone	5	+	yastspicet	Pryous	SINAN		Vitio Cood	Phamous Jamous	Macc co	Acerso Ispedio	Acer 1	~	ntire plot			Br = Browse Level. Use cover classes to			-	el: PCAP
	W W W T and work was a second with the second with the second was well as the second with the second was a second with the second w	ided 5/29/2012 ceh					35)	5	200)	2	0	X 5/C-	2		r. CS-	XSC-211 22	VEII-6-13 22		22	21	W	3 2	N	49	Voucher# depth cov depth		-]-	1	depth cov depth	ンロン	comer mod		Project name: Visc Xor



Natural Resources Management FORM NR/2010-02b

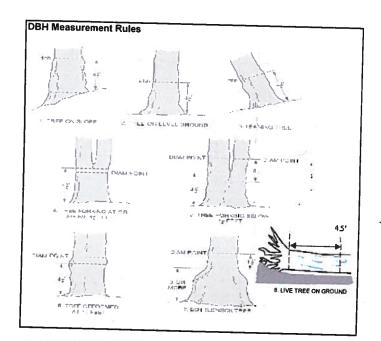
	Project Label:	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Project Label: PCAP Project name: 0(507013)	nent Program Speci Project name:	rogram Species Cover Data S Project name: <u>01567013</u>	Sheet 2a Plot no.: <u>%</u> 식동크	25hg	Page	2 of 2
	Total modules:	10	Intensive modules:	니 Plot	configuration: 2×5	S	Plot area (ha):	0
	③		Estimate for each intensive module:		Comer mod	<u>8</u>	corner mod corner	Comer
	Cieveland	describe amount of browse per species over entire plot	%open water %unvegetated open water			acpiii co	1 1 table	aspin cov depth co
	Strata - Cov. entire plot		%unveg. ground (bare soil)	1		-	\	
	T S H (F) (A) Br	3r Species	c Voucher#	depth cay depth	th cov depth	cov depth cov depth	denth -	3
hairy		Kanning of Son Industry	(3-256)			-		- Coper
Q	73	Aster sp. #1	SET EXTS	_			217	
(7	Paraccorn Sp- 50 prosts	X Sk-214				1 /2	
		Lindendron tulipita			_			
	2	Veronica officianolis					1/2	
)	Liquistrum Yulgare						\nearrow
CMBI	12	Unk mon # 2 (No repro)						72
gruss	3 -	apteris	XSIC-215					77
- dens	- 1	Solidago Se Se II-6-13	X5K-216					了 入
Carried man		HOXIOTA DECIVITY VERVICE	(2-25-27					O T
		10 Dstrya virginiana						77.
		Gerbens Thurbergii						N N
		Schanum dulcamara		-				70
	4	Francionus so						77
	2 8	w arrencer	a					70
						-		
				-				
				-				
				-				
				_		_		

preferential browse and/or browse lines for some species MEDIUM HIGH values include evidence of a browse line VERY HIGH values include extensive browse conditions, vegetation regeneration evident. In this rating, for some species of plants, reproduction does not appear to occur AND there are very few or no plants 1-m nested quadrat HIGH: greater than 25 percent of the stems of plants in about 10 percent of the stems with no significant impact quadrat and intensive module. A browse line is usually the 1 m2 nested quadrat and intensive module AND a Browse line may be 5 to 6 feet in height with no or little **MEDIUM:** browse affects greater than 10 percent and and intensive module. In general, low values relate to to plant reproduction evident. In this rating, plants are LOW OR NONE: there is no measurable browse line example, trilliums may flower and fruit, but jewelweed seedlings and herbs are severely browsed or missing. MEDIUM LOW values include evidence of browse at where the browse line is very evident AND almost all less than 10 percent, by numbers of stems browsed. browsed but preferential species are observed to be reproducing in numbers that appear normal or nearnot evident or obvious for all classes and species of Таре Intensive Corner Ø S less than 25 percent of stems in the 1 m2 nested **3ROWSE RATING NARRATIVE DESCRIPTION** and 25 percent of stems browsed with very little normal in comparison to low browse areas. For vegetation, but careful examination may show and arrowwood viburnum exhibit browse. or it is very severely limited. Voquie Number green growth beneath. browse line is evident. of plants. Plot Origin Post al Typical Plot 1.00m - depth 3 0.32m - depth 4 0.10m - depth 5 depth 1 Depth 2 = 10m² **()**• Corner 2 KEY 9 gu) 0.0001 0.015 0.175 0.005 0.075 0.850 0.035 0.375 0.625 0.975 20m solitary or few 10-25% 25-50% 50-75% 75-95% % cover 5-10% 35-100% 61% 1-2% 2-5% Om baseline Depth 3 = 1m² Depth 1 = 100m² 퉏 2 Corners Nested Depth 5 = 0.01π1² Corner 4 Om baseline The following graphic can be used for various data elements to convey Amount' or "Quantry". NOTE: Within any given box, each quadrant contains the same total area covered just different sized objects. 15% %06 35% **EXAMPLES OF PERCENT OF AREA COVERED** Om baseline 39 202 2% 5 20% %

Natural Resources Management FORM NR/2010-02b

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

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet mod # 0 Explain subsample (additional room on back) Propos Serotion Ulmus americana Ulmus americana Standing dead Ulmus americana Standian deal Aces rubrum Aces Sp Standing dead Acer rubrum Fraxins sp. Acer rubum Acer robrom Standing Acer St. Standing dead Acer (Jorum Standing dead Standing Acer wown! Acer Cubrum Project Label: PCAP voucher# 40 # stems browsed 0-1.4m or super sample % sub Project Name: VISCAOIS clumps shrub size class (cm) woody stems >1.4m 7 1-<2.5 2.5-<5 Plot No.: 3453 ۶<u>~1</u>0 0,0 10 - <15 | 15 - <20 1 20 - <25 Page: 25 - <30 30 - <35 으 (P Cleveland Metroparks 35 - <40 5 45.0 >40 (record each tree) 56,6 =



Woody Stem Deer Browse

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

Record using the tally system from 1 to













ASH CANOPY CONDITION

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



В

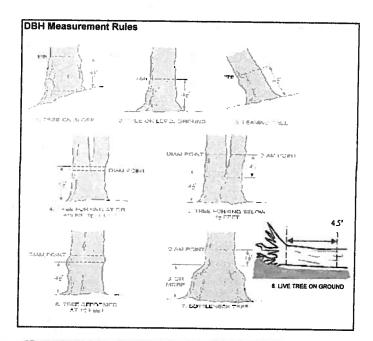
D

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.

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet mod # ō S 5 8 o 10 Francok Olas 0 O BERBERIS THUNDERGI Acer so. Standing Explain subsample (additional room on back): Standing dead Propos Serotion traxino ameliana Standing dead Franciska Winus Acer robon Aces wording Acer subun species Project Label: PCAP ဂ voucher# # stems . 0-1.4m . browsed sample or super % sub Project Name: OISCLOIS dumps shrub # size class (cm) woody stems >1.4m 7 • 1-<2.5 2.5-<5 u Plot No.: 3453 . 5-<10 4 10 - <15 თ . . 15 - <20 6 . 20 - <25 Page: ىو 6 25 - <30 30 - <35 앜 9 Cleveland Metroparks 35 - <40 õ >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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- 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.



С

D

E

ASH CANOPY BREAKUP CONDITION (for dead trees):

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

- 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.

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey Cleveland Metropanta Tier 1: Early detection/ Rapid response **Presence GPS** NE Microstegium vimineum SE SW NW Japanese stiltgrass Presence Ranunculus ficaria Lesser Celandine X: yes Cynanchum louiseae (vine) |Black Swallow-wort Butomus umbellatus (wetland) Flowering Rush Heracleum mantegazzianum **Giant Hogweed** Tier 2: Assess as Needed # of Plants comments NE SE Acer platanoides SW NW Norway Maple # of Plants Ailanthus altissima Tree of Heaven 1-10 Lonicera japonica (vine) Japanese Honeysuckle 2: 11-50. Lythrum salicaria (wetland) Purple Loosestrife 3: 51-100 Aegopodium podagraria (G-cover) Bishop's Goutweed 4: 101-1,000 Celastrus orbiculatus Asian Bittersweet (vine) 5: >1,000 Torilis sp. Hedgeparsley Conium maculatum Poison Hemlock Rhamnus cathartica Common Buckthorn (shrub) Berberis thunbergii Japanese Barberry (shrub) Alnus glutinosa European Alder Dipsacus laciniatus Cut-leaf Teasel Elaeagnus umbellata Autumn Olive (shrub) Lonicera maackii Amur Honeysuckle (shrub) **Euonymus fortunei** Wintercreeper Tier 3: Presence is of Interest # of Plants comments NE Convallaria majalis SE SW NW (G-cover) Lily of the Valley # of Plants Coronilla varia (G-cover) Crown Vetch 1-10 Eleutherococcus pentaphyllus Five-leaf Aralia 2: 11-50. (shrub) Pachysandra terminalis (G-cover) Japanese Pachysandra 3: 51-100 Philadelphus coronarius Mock Orange 4: 101-1.000 (shrub) Pulmonaria officinalis (G-cover) Lungwort 5: >1,000 Rubus phoenicolasius Wineberry Iris pseudacorus (wetland) Yellow Flag Iris Ornithogalum umbellatum Star of Bethlehem Viburnum opulus var. opulus European Cranberry (shrub) Viburnum plicatum Doublefile Viburnum (shrub) Tier 4: Widespread and abundant Presence comments NE Alliaria petiolata SE SW NW Garlic Mustard # of Plants Ligustrum vulgare Common Privet 1-10 (shrub) L. morrowii, L. tatarica **Bush Honeysuckles** 2: 11-50. (shrub) Phalaris arundinacea Reed Canarygrass 3: 51-100 Phragmites australis (wetland) Phragmites 4: 101-1,000 Polygonum cuspidatum Japanese Knotweed >1,000 Frangula alnus Glossy Buckthorn (shrub) 4 Rosa multiflora Multiflora Rose (shrub) Typha angustifolia, T. x.glauca Cattails (wetland) 4 Cirsium arvense Canada thistle Dipsacus fullonum Common Teasel Hesperis matronalis Dame's Rocket Vinca minor (G-cover) Periwinkle Note: For Ground-cover plants record "stem #" but in comment field describe # of colonies and patch size (S,M, L)

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

Project Label: PCAP Project Name: 0 30 30 3013

Plot No.: 3453



ACNAB INDICES (degrees) + for up - for down

Z

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

STANDING BIOMASS (required for emergent wetlands); collected in 0. Im clip plots (32x32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C7=check when collected	uired for emergen from corners 1 and score calculation. (t wedand 3 in each ??≔check	s); collected intensive when	CLASSIFICATION			
Module #	C?	Corner Corner	Corner	(FII = excellent, g Fit and Confidence			
				Hydrogeomorphic class (WETLANDS ONLY):			
				n DEPRESSION	-11	Conf-	
				D IMPOUNDMENT D Beaver O Human	File	Conf-	
				□ RIVERINE □ Headwater □ Mainstem □ Channel	7	Conf-	
		Г		C SLOPE (ground water hydrology or on a physical slop)	F	Conf=	
				a FRINGING a Reservoir a Natural Lake	Fit:	Conf	
				COASTAL (specify subclass)	F1	Conf	
				BOG (strongly, moderately, weekly ombrotrophic)	Fit	Conf =	L
				Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):	ONLY		
				□ FOREST □ swamp forest □ bog forest □ forest seep □ EMERGENT □ marsh □ wet meadow □ open bog	# # 	Conf	
				SHRUB a shrub swamp a tall sh bog a tall sh fen	F	Conf	_

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

Slope 1 = slight elevational grade across module (fill) Ranks for microhabitat features. Select one or select two and average the score.NOTE: If mod fells on a slope automatically gets ranked based on steepness (1-3) to begin + any features present 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

.00	0	00		x	3	ນ	mod# corner						1
G	C	C)	0	0	0	(count)	lx1m	depth 3		tussocks	no. of	
			0	0	0	0	(count)	3.16x3.16m	depth 2	uplands (Tip-Ups)	hummocks	no of	
			3	ユ	ত্যে	4	(count)	10x10m	depth 1		depressions	no. macro.	
			77	6	10%	36	(count)	10x10m	depth 1		(2-12 cm)	c w,d	c.w.d count t
			0	_	0	b	(count)	10x10m	depth 1		(12-40cm)	c.w.d	or pieces with
	No.		0	3	O	0	(count)	10x10m	depth I		>40 cm	cwd	c.w.d count for pieces with minimum 1m length
	. S.		4	טי	רט	L	(rank)	10x10m	depth 1		interspers.	microhab	
			0	C	C	C	(rank)	0x10m	SLOPE			microhab	

FILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD] Landform Index (position within landscape) +135 degrees +270 degrees +45 degrees +180 degrees +315 degrees +225 degrees +9XI degree

CROWN COVER (DENSIOMETER): Make 4 readings per module facing N. S, E, W. Place dot count in

Terrain Shape Index (site microtopographic shape)

ž

SW €

eye of person standing ~10 m away.

angle from

SE



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

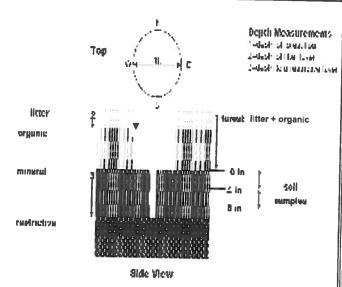
COVER BY STRATA

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

*Very tall shrubs are sometimes included in the tree stratum

**Can also include seedlings of shrubs, i.e. all shrubs <0.5m

***Tree seedlings are often defined as up to 1.4 m height or as <2.5 cm DBH in which case they would span the herb and shrub layers.



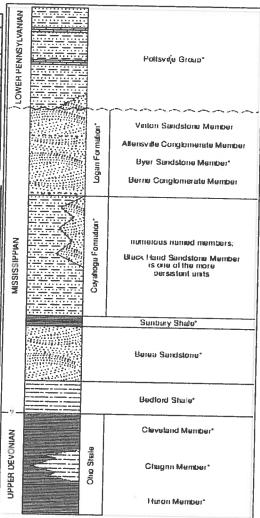


FIGURE 3-20.—Generalized section of Upper Devonian Misiasippian, and Lower Pennsylvanian firmations in non-heastern Onlo Asteriels, indicate units that are fossiliferous. Les composite section represents acout 400 meters of rock exposed across the area. The section is not to scale but the inclinesses indicated are propuritional. The term "Wavely is used in the older literature to refer to Missiasippian rocks in Onlo. Some geologists use the European term "Caroboniferous," which enough passes the Missiappian and Pennsylvanian Periods of the U.S. Many initia have been named within the Cuyahoga Formation, out most units are local and cannot be traced over great distances. The Black Hand Member is a spectacular massive sandstone that is fairly undespread but discontinuous. See Hyde 1853. Hoover 1960. and Colins. 1979 for more information on Mississippian rocks in Ohio. See figure 3-16 for explanation of rock types.

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a
Project label: PCAP Project Name: 0150 2013

(P) Obevious of Richards

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 # 8 (one per entire plot) 5 cm 20 cm matrix color OYP a/2 matrix color Q.5 texture* hydr. cond.*** redox features** oxid roots redox features** mottle exture* xid roots mottle ottle color none ottle color none I S M D Y ر ر \mathbf{z} z z

1=indundated S=saturated M=moist D=dry ** e.g. hydrogen sulfide odor, gleying; etc. refer to texture classes on reverse side hydro. cond *** I S M D

astings, middens) organic layer present (3 cm of i+) no evidence of worms

Notes: include evidence of earthworms (worms,

SOIL SAMPLES Standard procedure: collect a soil sample of the top 10 cm of soil from center of each miensive module and composite the sample

Soil Collection ModuldHorizon (A. B. C) Soil Series Type: WaA - Wadswork Sit loom Soil Series Source Ohio Soil Survey 2,3,8,9 composited Web Soil Survey Information: impermeable surface Depth to rest. Layer wore than & Din Somewhat poorly dr. Well drained Excessively dr. DRAINAGE* arent Material andform type Till plains 7:11 Somewhat excessively Moderately well dr. Very poorly dr. 10100

CL
1-8
6-13

SOIL DEPTH MEASUREMENT: Measure to the nearest 0.1 cm in center of intensive modules. If >30.5 cm, record as >30 رو organic depth 1 litter+ depth (cm) 2 litter water depth (cm) O 0.0 O 736 depth sat soil (cm) 730

EARTH SURFACE & GROUND COVER	E & GROUP	(D COVER	
Underlying Earth Surface*	Surface*	Ground Cover	
(Sunt - 100%)	percent	(Each \(\left\) 100%)	percent
Histosol	9	Coarse Woody Debris***	35
Mineral Soil	100	Fine Woody Debris****	00
Cravel-Cabble*	3	Litter	98
Bouldor**	>	Duff (Ferm. + Humus)	98
Bedrock	3	Bryophyte- Lichen	2
* Gravel-Cobble = 1/16-10"	=1/16-10"	Water	0
**Roulder = > 10 in	5	Bare Soil	-
*** >5 cm in diameter	neter	Road/Trail	0
		Other	C

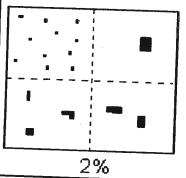
COVER BY STRATA estimate using midpoi	COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13	ex:3, 8, 13
Shrata	Height Range (m)	Total Cover [%]
		86
Ş	1	א
Shrub		
Herb		3
(Floating)*	\	0
(A and c)*	\	0
rooted and f	 rooted and floating or slightly emersed 	rsed
** submersed	" submersed, most plant mass below surface	ow surface
SEE BACK O	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.

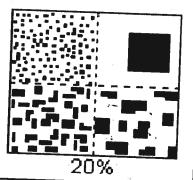
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PERCENT MOTTLES (USE CLASS CODES):

<u>`</u>		0).
C	ode	Criteria: % of
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f	# #	< 2
C	#	2 to < 20
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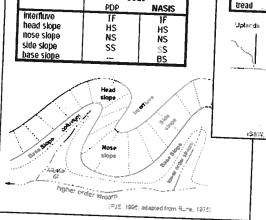


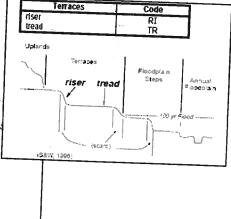
SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper, the sample should be wet enough that all of the particles are saturated but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

Hillis





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	٠.
summit shoulder backslope footslope toeslope	SU SH BS FS TS	
Su Sh	Fs Derivo	Bs Fs

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

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

PERMANENTLY FLOODED: Water covers the land surface at all times of the year in all years. Equivalent to Cowardin's "permanently

UNKNOWN: The hydrologic regime cannot be determined from the available information.

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Road - four lane		0	0	0		Water Level Cont	rol Sti	ucture	0	-	이		Row Cro	os eld (RECEN	T-DES	TING	10	90	00	
Parking Lot/Pavement		0	0	0		Excavation, Dred	ging		0	-	의		ROW CROP F		-		0	00	0	-
Golf Course		0	0	0		Fill/Spoil Banks	Cad	mont	10	0	의		SHRUBS, T				0	0	0	_
Lawn/Park		0	0	0		Freshly Deposited (UNVEGETATED)			임	의	9		Nursery				10	0	0	
Suburban Residential		0	0	0		Soil Loss/Root Ex	cposu	re	10	읬	의		Orchard			_	0	ō	o	
Urban/Multifamily		0	0	0		Wall/Riprap			0	의	의			Animal F	eedin	q	0	0	0	
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Yellow Floating Heart	0	0	0		Japanese Knotweed	0	0	0	-		0	0	0	
Giant Salvinia	0	0	0		Perennial Pepperweed	0	0	0		Multiflora Rose Common Buckthorn	0	0	0	
Garlic Mustard	0	0	0		Giant Reed	0	0	-			0	0	0	
Poison Hemlock	0	0	0		Cheatgrass	0	0	0		Himalayan Blackberry	0	0	0	
Mile-A-Minute Weed	0	0	0		Reed Canary Grass			0		Tamarisk	0	0	0	
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PLOT COORDINATES Divide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the ation of the plot coordinates by filling in the appropriate bubble. Juffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer plot, and describe where the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in er placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot. DO AA CENTER N3 O S3 O E3 O W3 O Nearest practicable location (flag and comment below) Latitude North L1 L3 L1 Longitude West O B1 L2321 Use Decimal Degrees; NAD83 ag Comments Short wall made 1 dead branches Surrounding boardwalk over look from an board with a plot of the plot of t							01	9	OI.	-		0	0	0	
wide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the ation of the plot coordinates by filling in the appropriate bubble. uffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer box, and describe where the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in er placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot. Ocation of coordinates (choose one): DAA CENTER N3 OS3 OE3 OW3 O Nearest practicable location (flag and comment below) Latitude North LLL LLJ LL Longitude West OSL L2321 Use Decimal Degrees; NAD83 ag Comments Shart wall made of dead branches Surrounding boardwalky even look from any or the plot of the											Other:	0	0	0	
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Residential and Urba					Hydrology Stress	ors				Agricultural a real				_
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iii bubble if present - Plot	0	0	0		Ditches, Channelization	0	0			Pasture/Hay	의	의	의	
Road - gravel	허	9	0		Dike/Dam/Road/RR Bed	0	0	0		Range	이	의	0	
Road - two lane	허	허	0		(IMPEDE FLOW) Water Level Control Structure	0	0	0		Row Crops	의	의	의	
Road - four lane Parking Lot/Pavement	0	ö	0		Excavation, Dredging	0	0	0		Fallow Field (RECENT-RESTING ROW CROP FIELD) Fallow Field (OLD - GRASS,	의	의	00	
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Gas Wells	-				Tree Plantation	0	0	0		Trails	0	6	-	-
Mine (surface)	10	-	-	-	Tree Canopy Herbivory	0	0	0		Soil Compaction (ANIMAL OR HUMAN)	0	C		1
Mine (underground)	0	-	+	-	(INSECT) Shrub Layer Browsed	0	0	0		Offroad vehicle damage	0	C	C	1
Military	C	100	-	-	(WILD OR DOMESTIC)	0	0	0		Soil erosion (FROM WIND, WATER, OR OVERUSE)	0	C) C	
Other:	C	_	_	+	(OVERALL <3" HIGH) Recently Burned Forest	0	0	0		Other: downed branch	6	0	0	
Other:	10	+-	+	+	Canopy Recently Burned Grassland	10	0	0	-	Other:	C	1	5	
	IC	olc	olo		(BLACKENED) Suspect measurement., F1,F2, et					Control of the second	_	_	_	-

alder? lig catails loosestrife

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Yellow Floating Heart	0	0	0		Japanese Knotweed	0	0	0		Kudzu	0	0	0
Glant Salvinia	0	0	0		Perennial Pepperweed	0	0	0		Multiflora Rose	0	0	0
Garlic Mustard	0	0	0	-	Giant Reed	0	0	0		Common Buckthorn	0	0	0
Poison Hemlock	0	0	0	-	Cheatgrass	0	0	0		Himalayan Blackberry	0	0	0
Mile-A-Minute Weed	0	0	0	\dashv	Reed Canary Grass	0	0	0		Tamarisk	0	0	0
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i bubbles for all that apply: Canop a Section: Fill in appropriate cove	rclas	s bubb	ole for	each st	rata type for each plot. 0 = Absent;	1 = Spai	rse(<10	1%); 2	_	T		Abse	nt	
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dy Shrubs, Saplings (0.5m-5m HIGH)		<u>) (</u>	2	1	Voody Shrubs, Saplings (0.5m-5m HIGH)	0		-		Woody Shrubs, Saplings	5 0		_	
dy Shrubs, Saplings (<0.5m HIGH)		-	의_		(<0.5m HIGH)	96		-	\dashv	Herbs, Forbs and	-	-	5	
Herbs, Forbs and Grasses			<u> </u>		Grasses O O	0 0			\dashv	Grasses	= + -		5	
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toad - two lane	0	0	0		(IMPEDE FLOW)	10	-	이		Row Crops	o	_	0	
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Landfill	00	0	0		Point Source/Pipe	0	0	0		Rural Residential	0	0	0	-
Dumping	0	0	0		(EFFLUENT OR STORMWATER) Impervious surface input	0	0	0		Gravel Pit	0	0	0	
Trash	0	0	0		(SHEETFLOW) Other:	0	0	0		Irrigation	0	0	0	_
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Gas Wells	10	10	0		Forest Selective Cut	-	-	0	-	Trails	0	0	C	
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Other:	to		0		Recently Burned Forest Canopy	0	0	0	-	Other:	10	+	+	
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0,4:00					В	uffer N	latu	ral C	over	Strat	a lle Lesi	f. Abs	sent: No tree	canopy.						
il in bubbles for all that apply: Cano trata Section: Fill in appropriate cov	py Typ er clas	e: D = s bub	Decible fo	iduous; r each s	E = Evergree trata type for	each plot.	0 = A	- Bioa Absent;	1 = Spai	rse(<10)%); 2=	Mod	erate(10-40%	6); 3 = Heav	y (40-7	(5%); 4	= Very	Heavy	(>/5	[%])
Buffer Canopy Type: ①	0	Abse		O		Canopy			_	Abser		2	Buffer	Canopy	Type:		<u>ن ان</u>	Abser	it: (띡
Plot 1 Leaf Type: ①	<u>তা</u>		F	lag	Plot 2	Leaf	Тур	e: 🌘	<u> </u>	7=	Fla	g	Plot 3	Leaf	$\stackrel{\sim}{\sim}$	$\overline{\Delta}$	Θ	\sqrt{c}		ag
Big Trees (>0.3m DBH)) (C	ग		Big Trees (>0).3m DBH)	0	0	<u> </u>		<u> </u>	\downarrow		(>0.3m DBH)	$\frac{\Theta}{\Theta}$) (c		_	\dashv
nall Trees (<0.3m DBH)	D (D (<u> </u>	s	mall Trees (<	0.3m DBH)		0	<u> </u>	-	1	\perp	Small Trees	(<0.3m DBH) ibs, Saplings	\rightarrow	_		1	-	\dashv
roody Shrubs, Saplings (0.5m-5m HIGH)	2) C	<u> </u>	1		5m HIGH)	\odot	0		+=		\downarrow	(0.5	im-5m HIGH)				-	_	\dashv
	2)() (C	3			.5m HIGH)	0	0	\odot		1	4	(-	(0.5m HIGH) Forbs and	\odot				_	\dashv
- 1: 1 E- 1: and 0 0 0	2	D	9		Herbs, F	orbs and Grasses	0	0)	\dashv		Grasses	\odot	-			-	닉
Glasses	3	3	3		Bare	ground	•	0	<u> </u>		-	_		re ground		_	0 (-	-
	3	ত্র	<u> </u>		Lit	ter, duff	0	0	0			\dashv		_itter, duff	9	 +	<u> </u>	-	-	\dashv
	<u> </u>	3 0	তা			Rock		0	0	<u> </u>		\dashv		Rock			- +		_	
	-+	=+	Ō			Water	9	0	0	<u> </u>			<u>.</u>	Water	(a)	\mapsto	_	<u> </u>	2	ᅴ
Submerged	<u>al</u>	ŏ	ਨੀ		•	ubmerged egetation	0	0		<u> </u>				Submerged Vegetation		0		\leq	기	
Vegetation Stressor Presence/Abs	ence) - C	onfin	m that	a filled data	bubble i	ndica	ates pr	esence	and a	an unfi	illed	bubble ind	icates abs	ence t	by fillin	g this	bubbl	e. ()
	1000	- T. 111 11 1				Hydrolo								Agricult	ural	& Rur	ral St	essc	rs	
Residential and Urba	- T	2		Fiag	Fill bubble		-	-	1	2	3 F	iag	Fill bubb	le if prese	nt - P	lot	1	2 :	3 5	Flag
Fill bubble If present - Piot	1	_	-	riag	Ditches, C				0	0	ol		Pasture/H	lay			0	0	2	
Road - gravel	의	읝	읭		Dike/Dam	/Road/RI			0		0		Range				0	0	의	
Road - two lane	의		히		(IMPEDE FLO		ol Sti	ructure	-	_	o		Row Crop				-		이	
Road - four lane	읝	0	0		Excavatio		_		0	0	0		ROW CROP FI	eld (RECENT		ING	0	-	이	
Parking Lot/Pavement		0	0		Fill/Spoil 6				0	0	0		Fallow Fig	eld (OLD - G REES)	RASS,		0	-	익	
Golf Course	0	0	0		Freshly D	eposited	Sed	iment	0	0	0		Nursery				0	-	이	
Lawn/Park	0	0	0		Soil Loss		posu	re	0	0	0		Dairy				0	-	이	
Suburban Residential	5		3	-	Wall/Ripr	ар			0	0	0		Orchard				0	-	이	
Urban/Multifamily	0	0	0		Inlets, Ou		11		0	0	0		Confined	Animal Fe	eding	9	0	_	이	
Landfill	6	0	0	-	Point Sou	rce/Pipe	MWAT	FR)	0	0	0		Rural Re	sidential			0	-	이	
Dumping	6	0	0	_	(EFFLUENT Impervious (SHEETFLO	us surfac	e inp	out	0	0	0		Gravel P	it	10		0		0	
Trash	0	0	lŏ		Other:	VIII. (1)			0	0	0		Irrigation				0		이	
Other:	0	0	tŏ		Other:				0	0	0		Other:		_	_	0	0	이	
Other:	_		_						ŀ	Habit	at/Ve	geta	ation Stre	ssors						
Industrial Developm			T		Fill bubb	le lé prod	cont	- Pint	1	2	3 1	Flag	Fill bu	bbie if pre	sent	- Plot	1	2	3	Flag
Fili bubble If present - Piot	1	+	3	Flag			JUIN	- FIO	0	0	0		Herbicld				0	0	0	
Oil Drilling	10	10	10	1	Forest Cl			_	-	0	0	_		Shrub Cut	lina		0	0	0	
Gas Wells	0	10	1	_	Forest Se	elective C	cut		0	_				J 20 Odi			0	0	0	
Mine (surface)	0	0	0	1	Tree Can		hlvon	v	0	0	의		Soil Con	npaction			0	0	0	
Mine (underground)	0	0	0		(INSECT)			,	0	0	0		(ANIMAL C	R HUMAN)			0	0	0	
Military	C	0	0		Shrub La (WILD OR D	OMESTIC))		0	0	0			vehicle da sion (FROM				0	0	
Other:	10	0	C		Highly G	<3" HIGH)			0	0	0		OR OVER				10	1	_	+-
Other:	C	+	-		Recently	Burned			0	0	0		Other:		_		.0	0	0	+
	10	10	10	1	Recently	EU/			0	0	0		Other:				- 0	0	0	
Other: Flag codes: K = No I	neasu	reme			2		nt., f	1,F2, e	tc. = mi	sc. flag	s assi	gnec	d by each fle	id crew.		24	2816	830	4	
Buffer Sample Plo				ADIGITI C	ili flags in co	mment se	cuor	on the	, Deck O	. 4110										

		20 10			8453	DA) .8	<u>3</u> ,	07/2013				
O Confirm	a fill	ed da	ata b	ubble i	ndicates presence and an un	filled	bubb	ie In	dicates	absence by filling in this bub	ble			
Fill bubble if present - Pio	1	2	3		Fill bubble if present - Plot		2	3	Flag		1	2	3	Flori
Eurasian Watermilfoil	0	0	0		Purple Loosestrife	0	0	0		Johnson Grass	0	+-		Flag
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	0	_	0	-
Garlic Mustard	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry	0	0		
Poison Hemlock	0	0	0		Cheatgrass	0	0	0		Tamarisk		0	0	
Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	0		Other:	0	0	의	
Birdsfoot Trefoil	0	0	0		Common Reed	0	0	0		Other	0	0	의	
Canada Thistle	0	0	0		Leafy Spurge	0	0	0		Other:	0	의	의	
										Other:	0	의	의	
					DI OT COOP					Other.	0	0	0	
Buffer Plot 3 can not be accorded an expensive and control on the Buffer box, and describe where their placed as close to the control of coordinate	essector Transition Tr	, take insec ordina of Plo	the the ts an ates of 3 a	coordin d the co were tal s possi	nates at the nearest practicable coordinates will indicate the locate of the locate and why in the comment so the or at the center of the last a	Buffer locati lion of ection ccess	Tran	ONG ranse v. The Buffer	THE 1 ect. Fill e coord Plot.	the Buffer Plot at the AA CENT TRANSECT. This is important be in the "nearest practicable locat linates of the nearest practicable and comment below)		e all l oubble tion c		r n the
Buffer Plot 3 can not be acclots are centered on the Buffag box, and describe where the placed as close to the control of the control of the Control of the Control of Coordinate O AA CENTER O N3	essector Tra he co enter	take insectordina of Plo	the ts an ates of 3 a	coording the cowere talks possion):	Plot (#3) at the far end of each briate bubble. lates at the nearest practicable coordinates will indicate the local ken and why in the comment so ble or at the center of the last at the will be wi	Buffer location of ection occessicable	Transion AL fithe to below sible E	ONC reanse w. The Buffer ation	G THE 1 ect. Fill e coord Plot.	TRANSECT. This is important be in the "nearest practicable locat linates of the nearest practicable	ecaus ion" t loca	e all l oubble tion c	Buffer e, fill i	r n the
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