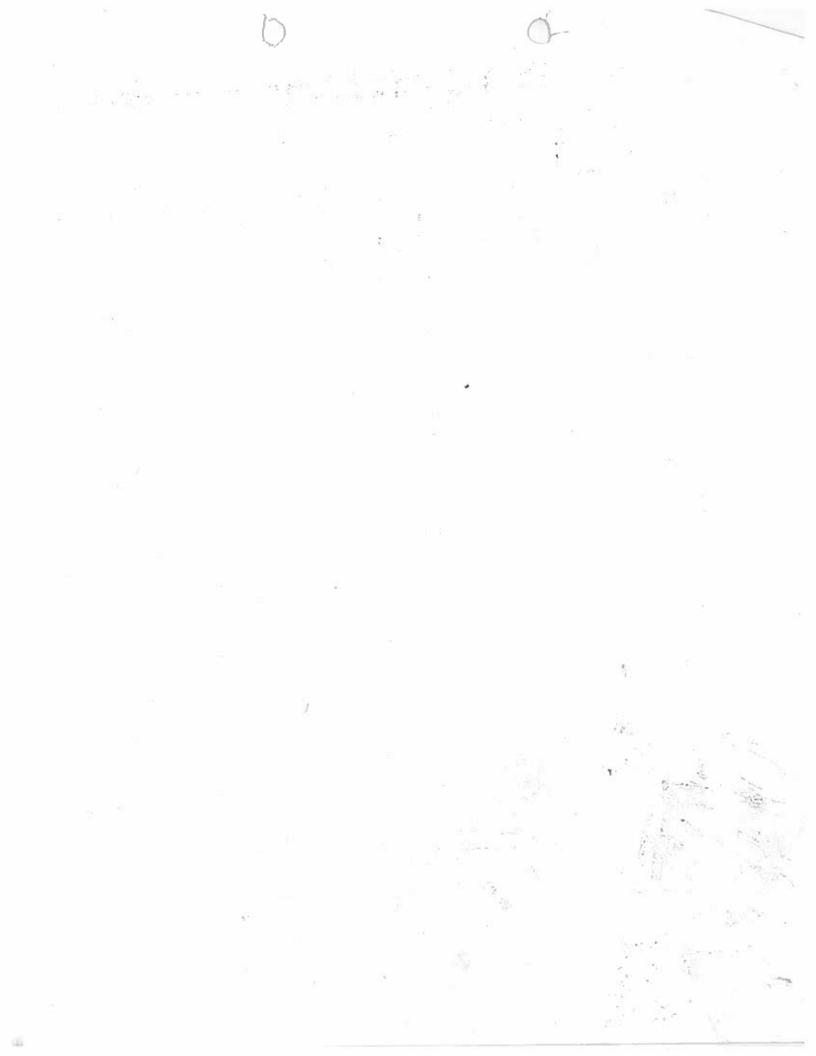
				: 1045 Date Sampled: 67/15/15 Lead: CK/
			7	Comment required if item answer is NO
	side of Park Boundaries:	Y	(N)	If yes, write details in Comments section below
Field journals comp		0	N	
Site sketch made on		(Q)	N	
Check cover page	X-axis Bearing of plot recorded	1 V	N	
	GPS coords. Recorded	(Y)	N	
	North direction recorded	10	N	2 N
	Photographs taken?	4	N	
	Relocated Pins Mapped	Q	N	
Plot No., Date agree	ment on all pages?	(3)	N	
Header data comple	ted all pages?	Q	N	Egglitz.
Cover classes record	led in all Intensive modules	0	N	
Browse Level By Sp	ecies	(3)	N	
Woody stem quality	control check	(मे	N	Check every line and cross check with the Tree Cover Sheet
Invasive plant qualit	y control check	Y	N	NA
Ash trees mapped		Y	N	N/A
Completed Forest Pe	st/Pathogen Datasheet	0	N	
Cover by Strata? (co		R	N	
Name and the second	ed with matching plot #.	(2)	N	
Cross check 2010 in	formation	(4)	N	Highlight any changes from 2010 information
Vouchers labeled on	datasheet with initials and number	(7)	N	The state of the s
Vouchers labeled on		N	N	
Pink flags removed		(1)	N	
Data sheet QA befor	e leaving site?	(W	N	
Common equipment		Y	N	
Data sheets scanned			Y.	Enter date to left
Final data sheets sca				Enter date to left
Buffer Widths meas		Y	N	with Este to let
Web Soil Survey		Y	N	
Voucher Location	Refrigerator	Y	N	
# vouchers collected)	Press (#)	1		Enter number to left
CKM 173.	Drier	Y	N	CONSIDER OF THE PARTY OF THE PA
187	Identified	Y	N	
101	Mounted	Y	N	
	Thrown away	Y	N IA	

□ Yes	Original GRTS point is sampleable
□ No	Original GRTS point lands in a non-sampleable area (fill in category below)
	Point falls in a water (i.e. river, lake)
	Managed mowed area (i.e. golf course, picnic area, right-of-way)
	Paved area (i.e. parkinglot, road)
	Unsafe to sample (i.e. steep slope)
	Other

Additional Comments:



Minimum required fields in Bold and Underlined TAXONOMIC STANDARD ichen o Humed TAXONOMIC ACCURACY 3 Accurate Effort Level: SAMPLING QUALITY* Very thorough PLOT NOT SAMPLED: er.n. water Roles: Co-leader, Asst., Guide, Owner, Taxon End date (if > 1 day): S. Eysenbach Date (mm/dd/yyyy): 07/15/2015 Plot No.: 1045 Plot Name: Pretty Plot GENERAL INFORMATION CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet roject Name: 02 BR 2015 盟 roject Label: OCH YOU Level 5 (nested corners sampled) Level 4 (no nested corners sampled) modera. a Paved a Slope a Safety may still provide good sampling. Hurried plots how much effort put into subjective evaluation of PCAP Pub Date: low Bot. Lead Plot leader Role** not smp o Other 7 © Systematic (grid) □ Capture specific feature □ Other *Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide Plot placement: XGRTS Photo Nas.: (4558 Camera No.: ntensive modules: 2, 3, 8, 9 Phot size for cover data: GPS File Name: Spth: (1-5): Coord. Accuracy: Xm a R GPS location in plot x=0 to 5, y=-1,0,+1): Datum: ■ NAD83/WGS84 □ NAD27 onstitude: 81.58578 Mude: 41, 29832 LavLong o UTM o StatePlane Other (specify) Coordinate system: Source of coordinates a MAP Reason: If data not public why? o Fuzz 100m o Fuzz 250m o Fuzz 500m Data Confidentiality: Buckeye Landowner Quadrangle Local Place Names: State X-axis Bearing of plot: LOCATION y = 0 (base of plot x=0, y=0) HO 1045A D Representative County: m oft o deg a deg min Coord. Units (EDIT IF MODIFIED (hectares) ■ GPS CHANG DOGO W and some graminoids by terns, ramps, with by sugar maples. Herb underneath. shrub layer thin dominated by tall Tulips with shorter sugar maples Rationale: GRTS eventually carling swacross creek. off on top of hill. Walk west along, ridgetop post NPS building . Take Buckeye content), Rationale (why here), and Veg Gharacterization (description of community, NOTES: include Layous (any unusual shape détails), Location (directions and landscape Location Park along Layout: 2×5 Diagram OPiot origin OPS location
Key: (0,0) point Open Hill 2:10 module piot: Ce Jane Contraction of the Contr #10 Additional holes in space on back. Ewer terraco Averview Rd. grave) pull uphill from corect layer rich wood species with direction #3 salder wables Aut is 100 m a dominated 1 17 OVER your 411 permanent posts (BClumium Muinpart Page 1 of 2 **35** 8 Buckeye

1aCM PCAP Background Data Sheat Page 1_ver 3.0.xls last revised 5/29/2012 cen

19.		12010-011
STURBANCES Apper Severity** vrs ago % of plot a description Apper Severity** vrs ago % of plot	that particular terrace the habitat is alonsity stand taller density as is the herb thy within a clear cut wheals water moves	Natural Resources Mangement FORM NR/2010-01
Project Name: O2 BR 2C) 5 Project Name: O2 BR 2C) 5 Human ML O 2 Human ML O 2 Animal MH O 100 Animal MH O 100 Animal MH O 100	CUTTEN LAND USE COmpositional trend across the plot Negeneous Occupositional trend across the plot Negeneous Occupositional trend across the plot Approach in the properties of the plant (seldom flooded) Approach in the plot is a well-and) Occasionally savinated of the particular	
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CLEVELAND METROPARKS Plar Robert Project CODE (on separate form): COMMUNITY NAME: COMMUNITY NAME:	HOMOGENEITY Conspicuous inclusions Conspicuous inclusions SALINITY* Brackish Brackish Fresh Additional notes & diagrams: (Recover) A p roodching for the bill of the stand the sta	along th

÷ **Cleveland Metroparks** Strata - Cov. entire plot Total modules: Project Label: S H (F)(A)Br S 6 0 Bunus Rubus allegheniensis Carex Hamametis virginiana roa alsodes Quercus sp. Vitis sp. Polystichum acrostichoides trenanthes so ACRE Saccharine Erechtites LONICERA MAACKII ALLIARIA Fraxinus sp. Allium Galium Parthenocissus quingheto Tiarella cordifolia Lipidendron tulipitera orpinus caroliniana agus granditolia loxicodendron radicans MOSS SP describe amount of browse per species over HER SO Br = Browse Level. Use cover classes to 10 serotina tri coccum Species entire plot seedling hieracitolia PETIOLATA Seedling (seed Ima) O %unveg. ground (bare soil) intensive modules: intensive module: Estimate for each %unvegetated open water %unveg. litter (bare litter) CKM174 CKW176 Project name: Voucher# %open water N N N N W £ N W V 1 N W 028R2015 1 2 2 V N N N N N ş ğ N mod comer v 1 N Plot configuration: W ş ş N γ dep (4) N 22 Plot no. 10 H Ē 2×5 ğ Mod C tr 7 V N 7 N F W 2 N N ş ş 9 N W mod COTTLET Plot area (ha): ş ş 4 N N 7 N N N N W N 98 O F N N 0 mod ğ ş depth

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

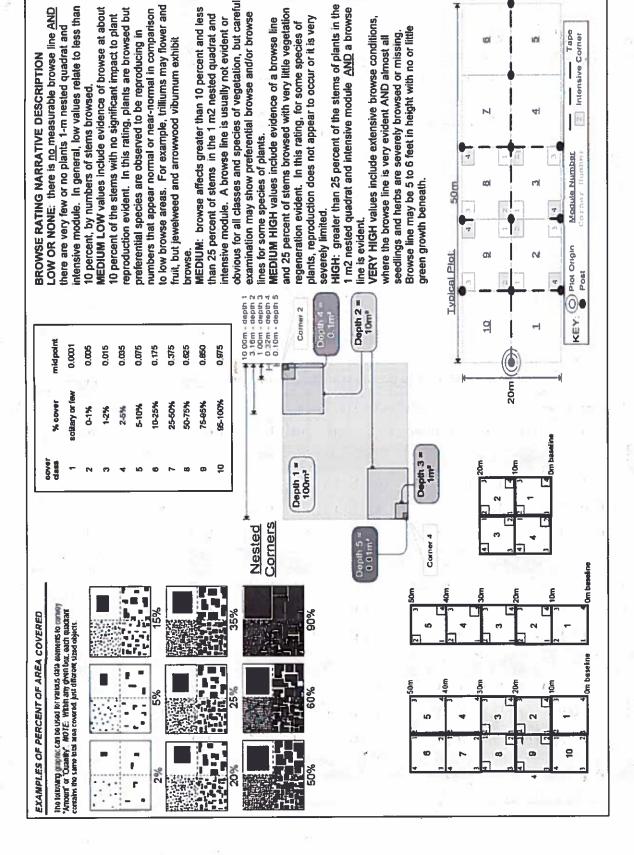
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Hanged Thomas -diff Sulme Apaged tail by 3 mark Star sedge **Cieveland Metroparks** CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Strata - Cov. entire plot Total modules: Project Label: S H (F)(A) Br 2 J · 17 Carrey to Cornus sp Genm sp. Correx & Sanguinaria canadensis Equisetum Aster polidago caesia Geranium maculatum Carex Aster Tola Polygonatum DE R BERIS Monotropa Ranunculus abortivus Ulmus sp. Rodophyllum peltatum senso canadense ATEX describe amount of browse per species over AKey rational sp Br = Browse Level. Use cover classes to 6 V anceolatum? atorit orus an pube scens Species SIM DICX entire plot seedling THUNBERGE gemale uniflora CKM CKM C Estimate for each intensive module: Intensive modules: Kunveg, ground (bare soil) %unvegetated open water %unveg. Riter (bare filter) CKMIBO 5KM178 CK W 181 CKM179 CKM1747 CH 264-E68 CH 560-563 CKM173 SPE 17-15-15 CKM 175 K Project name: 02BR ZOIS Voucher # %open wate 2 2 32 2 N 7 N comer mod comer VQ0 N O0V . N 7 Plot configuration: 2 × 5 N 7 2 N 2 N ş 8 N mod N depth 1 N Q Q 1 N N 2 1 COMMI N ş Plot no.: N mod ş 1045 depth 00 mod comer 72 1 N N N N cov depth Ş depth Plot area (ha): N Selection ş ş depar N W Page Z 19 7 Comer N N cov + depti 0 VOD N W 8 9 8 N compino Carer #

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total solitary Vew York atum of ve of alburs - Iciliat OT CT UTAS 5 Strata - Cov. entire plot Cleveland Metroparks Total modules: Project Label: S | H (F)(A)Br 1 9 9 ō 00 0 5 Rubus sp. Sec. 1 Carex Sanicula canadensis Rubus occidentalis Galium * RHAMMUS FRANGULA WISKSIG Grass MICROSTEGIUM VIMINEUM Amphicarpa Carex * trisacma troby llum var. ELAEAGNUS 35.00 ornus alternitolia Acer nigrum Thelypteris noveboracensis Lysimachia ciliata describe amount of browse per species over IGUSTRUM VULGARE - ect Sia Virginica ASTEX it's aestivatis Br = Browse Level. Use cover classes to ackelia virginiana ō #4 gracillima Species Lutetiana entire plot Iburs ma PCAP bracteata UMBELLA. SK / SONY IVAN n Intensive modules: 4 %unveg. ground (bare soll) Estimate for each intensive module: %unvegetated open water CKM187 %unveg. litter (bare litter DKW 184 CKM 183 C4569 KM187 Project name: 0ZBR 2015 Voucher # %open wate N cov i depth 8 Plot configuration: 7 ğ Ş × W W N I N N N N W Plot no .: 1045 W 2×5 Ą Ş W N U ş comer mod Nã N N 9 depth œ Plot area (ha): . / ğ ş N N N W N N ğ ş 8 ş Ν

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

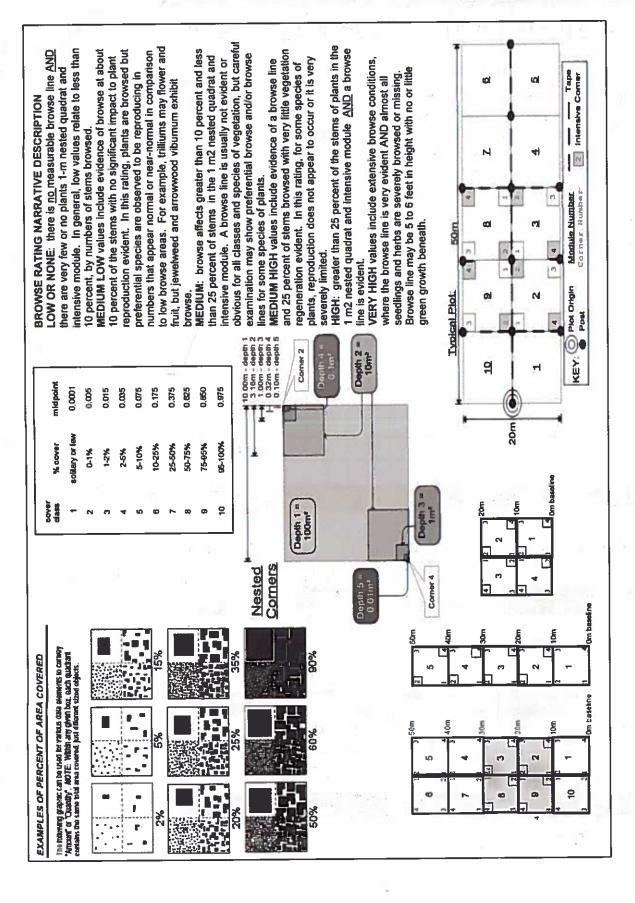
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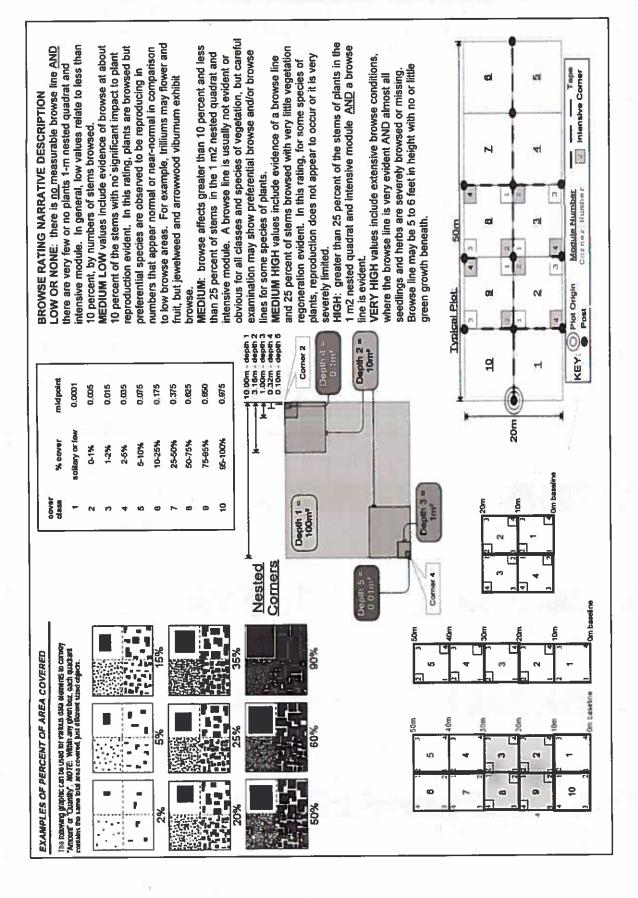
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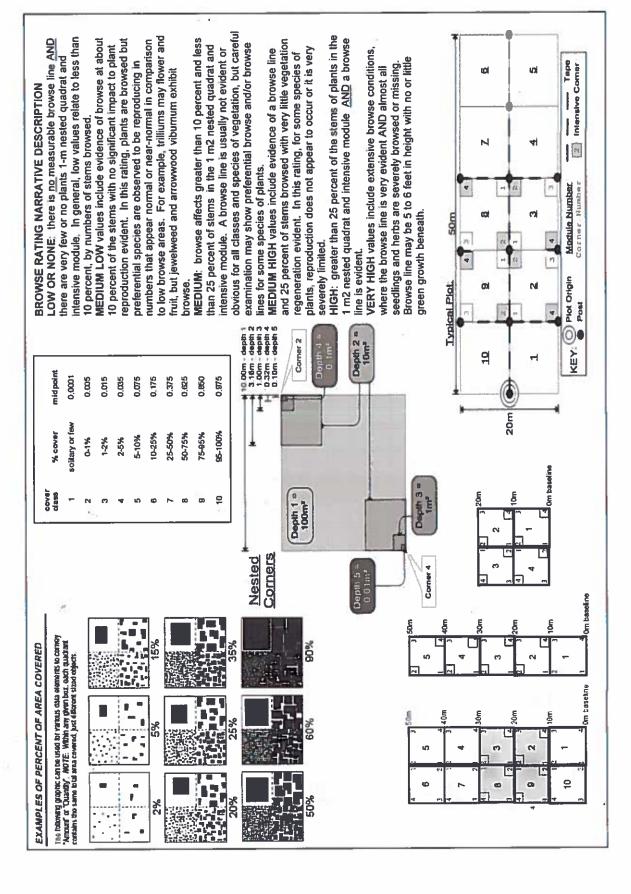
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CITEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

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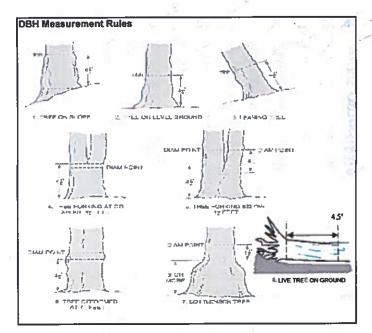
Explain subsample (additional room on back):

Species

Species MASIGOTO Page 5 Cornus Florida STANDING DEAD Parthenocisus quinqueta Berberis Thunbergin Rubis alleghaniensus Acer rubrum Exportations fortune Fraxinus So. Acer Digrum erbens thunbergu STANDING DEAD Buthern cissus quantuelos a Berberis Brightspirit STANDIAM DEAD How suchacum Acer Saccharum ficer tubrain Annus seration Carpinus Carolinion cornus alternitalia Rhannus franquia ragus grandifolia r Sdocharum N 2 4 6 8 K ø . X • Plot No.: 1045 10 - <15 15 - < 20 20-<25 25 - <30 30-<35 of Scienciand Metropains 35-40 6 >40 (record each tree) d *pages: 1 Q. rubra 71.3cm

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

Natural Resources Management FORM NR/2010-03a



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.
- Dieback: Canopy is thinning and some top branches exposed to sunlight are dead (have no leaves). Lower branches, not exposed to sunlight, die naturally and are not considered.
- 4. >50% Dieback: The canopy has less than half of the leaves that should be there and/or half of the top branches are dead.
- 5. Dead canopy: No leaves remain in the canopy portion of the tree. It still counts as a 5 even if there are epicormic sprouts below the canopy (lowest branch) on the trunk.



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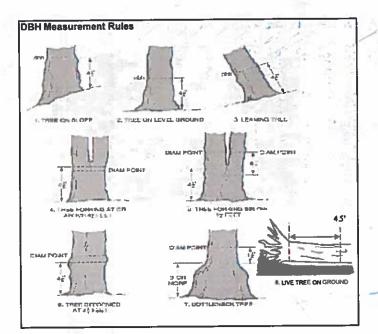
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ASH CANOPY BREAKUP CONDITION (for dead trees):

- 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 frunus Serotina Berbens thunbeau Fagus grandifolia Quercus rubra-Acer Sacchanim Rubils alleghenienses Parthenorissus quirques Tox\cadendroo fadican Compris Sp. Parthenocissus quinquestina Rosa multiflora Flans grandifalia Acer sachanina Rubbs accidentalis Parthenacissus quinquelolle Carpinus caminia DAZO SNICINALC Bechens thunbugu Toxicodendron rodi VITIS DESTIVATIVES AGOT FUIDOUM traxious Sp. Linodendron tulipitera Acer rubrum Project Label: PCAP S. â S W browsed 0-1,4m 16 × or super % sub Project Name: (2282-2015) ۲: size class (cm) woody stems >1.4m 2 1-<2.5 . : 25-<5 • Plot No.: 1045 5-<10 10-<15 15 - < 20 20 - <25 Page: 2 of Sometiand Metropains 25 - <30 30 - <35 35 - <40 50.6,62.3 >40 (record each tree) +



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

Record using the tally system from 1 to













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ASH CANOPY BREAKUP CONDITION (for dead tress):

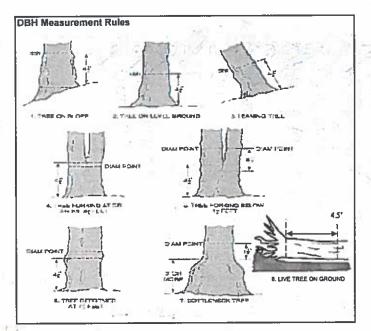
- A: All main branches contain fine twigs (newly dead).
- B: Over 50% of main branches have fine twigs.
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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Project Label: PCAP Project Name: 028k 2015 Plot No.: 1045

Page: 3 of Scienciand Metroparks

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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 1













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- Dieback: Canopy is thinning and some top branches exposed to sunlight are dead (have no leaves). Lower branches, not exposed to sunlight, die naturally and are not considered.
- 4. >50% Dieback: The canopy has less than half of the leaves that should be there and/or half of the top branches are dead.
- Dead canopy: No leaves remain in the canopy portion of the tree. It still counts as a 5 even if there are epicormic sprouts below the canopy (lowest branch) on the trunk.



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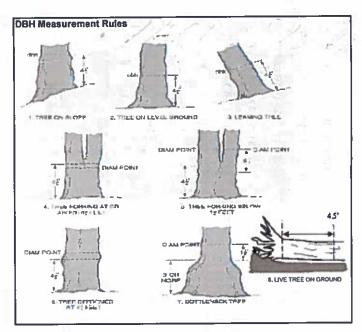
ASH CANOPY BREAKUP CONDITION (for dead trees):

- 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

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Pubus oileahenienses	Parthenocissus quinau effica	Rosa multiflora	Berbens thunbergin	Acer sacharum	Fagus arandifolia	Acer rubours	STANDING DEAL	Liniodendina tulipite	HICOT FUNDINITY		Cer Society	Fraxinus Sp.	The state of the state of	Para military	Parthenocions aninque tolice	Autous alleghanierses	Cornus Olternitolia	Foous grandifalia	STANDING DEAD	Acer pigrum	Linudendron tulipite	Acer Saccharum	Crataeaus Sp.	Fraxing Sp.	Rosa muttiflora	species		Expense emocampic (aggregational Logic City Carry)	Project Label: Explain subsample (additional room of
	No.	٥	era.	3	à		B	10			3		1	-	nau	SUL S	Ø.	ja	号		lipi	3			0				Label:
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	V-1								#				-			10.00										0-<1	class (c		be
	a, la	×														and the same of					L					1-<2.5	m) wood		2015
				•							Total A							•	°	•						2.5<5	size class (cm) woody stems >1.4m		
						•																				5-<10	1.4m		Plot No.:
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	1		-												7											35 - <40	6		
	.2							41.5.53.5													4.60 0.7h				4.	>40 (record each tree)	=		





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.
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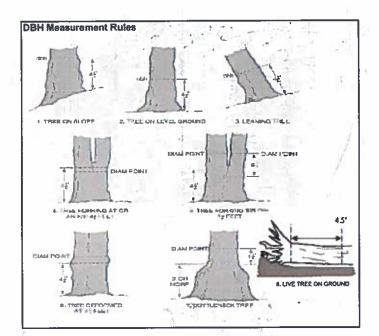
D

E

ASH CANOPY BREAKUP CONDITION (for dead trees):

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- E: Central stem still standing.

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet
Project Label: PCAP Project Name: 028k 2015 Plot No.: 1045 10 Berbers Chuntzun 10 Acer sacharum Rosa multiflora Explain subsample (additional room on back): Cornus Florida Quercus pubra-Berbens thubergin airiodendran bilipitera voucher# 0-1.4m or super % sub size class (cm) woody stems >1.4m 0-<1 1-<2.5 25-<5 5-<10 10 - <15 | 15 - <20 20 - <25 Page: 5 of Sperminns Metropanks 25 - <30 30-<35 35 - <40 ö >40 (record each tree) =



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

0 10













ASH CANOPY CONDITION

- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
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- E: Central stem still standing.

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



At a second seco						1
Rapid response				Harris	GPS	
la : .u.	NE	SE	SW	NW		Presence
	-	+	+-	┞		X: yes
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	-			\perp		Į
s Needed			_	_	comments	
	NE	SE	SW	NW		# of Plants
÷	4_					1: 1-10
				\sqcup		2: 11-50.
		1	1	\sqcup		3: 51-100
·						4: 101-1,000
Bishop's Goutweed				(*)		5: >1,000
Asian Bittersweet	0,7			\Box		
Hedgeparsley				\Box		
Poison Hemlock						
Common Buckthorn (shrub					<u> </u>	
Japanese Barberry (shrub						
European Alder					0.	
Cut-leaf Teasel					· · · · · · · · · · · · · · · · · · ·	
			1			1
 	_	1		\Box	2	1
				ш	1	-1
<u> </u>		# of	Plants		comments	1
	NE	SE	SW	NW		# of Plants
Lily of the Valley	\top	1				1: 1-10
Crown Vetch	\top			H	100	2: 11-50.
Five-leaf Aralia (shrub)						3: 51-100
						4: 101-1,000
*	7	1		1	- Land	5: >1,000
			—		/	
· · · · · · · · · · · · · · · · · · ·	1	1	1	\Box		1
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	\top			\vdash		
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, , ,	100	Pre	sence		comments	1
	NE	-	4	NW		# of Plants
Garlic Mustard	1		1			1: 1-10
· · · · · · · · · · · · · · · · · · ·	1	1	1-		2	2: 11-50.
		1	1			3: 51-100
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	+	+	+		-	5: >1,000
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Periwinkie	<u></u>			لـــل		J
	Hedgeparsley Poison Hemlock Common Buckthorn (shrub) Japanese Barberry (shrub) European Alder Cut-leaf Teasel Autumn Olive (shrub) Amur Honeysuckle (shrub) Wintercreeper of Interest Lily of the Valley 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)	Japanese stiltgrass Lesser Celandine Black Swallow-wort Flowering Rush Giant Hogweed NE Norway Maple Tree of Heaven Japanese Honeysuckle Purple Loosestrife Bishop's Goutweed Asian Bittersweet Hedgeparsley Poison Hemlock Common Buckthorn (shrub) Japanese Barberry (shrub) European Alder Cut-leaf Teasel Autumn Olive (shrub) Amur Honeysuckle (shrub) Wintercreeper of Interest NE Lily of the Valley 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 NE Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Reed Canarygrass Phragmites Japanese Knotweed Glossy Buckthorn (shrub) Multiflora Rose (shrub) Cattails (wetland) Canada thistle Common Teasel Dame's Rocket	Japanese stiltgrass Lesser Celandine Black Swallow-wort Flowering Rush Giant Hogweed NE SE Norway Maple Tree of Heaven Japanese Honeysuckle Purple Loosestrife Bishop's Goutweed Asian Bittersweet Hedgeparsley Poison Hemlock Common Buckthorn (shrub) Japanese Barberry (shrub) European Alder Cut-leaf Teasel Autumn Olive (shrub) Wintercreeper of Interest Lily of the Valley Crown Vetch Five-leaf Aralia (shrub) Japanese Pachysandra Mock Orange (shrub) Lungwort Wineberry Yellow Flag Iris Star of Bethlehem European Cranberry (shrub) Bush Honeysuckles (shrub) Cattails (wetland) Canada thistle Common Teasel Dame's Rocket	Japanese stiltgrass Lesser Celandine Black Swallow-wort Flowering Rush Giant Hogweed Sex Needed Sex	Japanese stiltgrass Lesser Celandine Black Swallow-wort Flowering Rush Giant Hogweed For Plants SE SW NW Norway Maple NE SE SW NW Japanese Honeysuckle Ne SE SW NW Lily of Heart Se SE SW NW Lily of the Valley SE	Japanese stiligrass Lesser Celandine Black Swallow-wort Flowering Rush Giant Hogweed S Needed NE SE SW NW Norway Maple Tree of Heaven Japanese Honeysuckle Purple Loosestrife Bishop's Goutweed Asian Bittersweet Hedgeparsley Polson Hemlock Common Buckthorn Japanese Barberry European Alder Cut-leaf Teasel Autumn Oilve Shrub) Mintercreeper of Interest NE SE SW NW NW NW Norway Maple Tree of Heaven Japanese Roneysuckle Purple Loosestrife Bishop's Goutweed Asian Bittersweet Hedgeparsley Polson Hemlock Common Buckthorn (shrub) Japanese Barberry European Alder Cut-leaf Teasel Autumn Oilve Shrub) Mintercreeper of Interest NE SE SW NW Lily of the Valley Crown Vetch Five-leaf Aralia Japanese Pachysandra Mock Orange (shrub) Japanese Pachysandra Mock Orange (shrub) Japanese Pachysandra Mock Orange (shrub) Doublefile Viburnum (shrub) and abundant Presence comments NE SE SW NW Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Bush Honey

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 Forest Pest and Pathogens Data Sheet Project Label: PCAP Project Name: 1728-2015 Piot No.: 1045

	5	_o	00	7	6	σ.	4	ω	2	_	mod #
187				li.		-	1		18		
					SR					-	species
* - TO - TO											voucher#
2)			4		4						shrub clumps
770											size class (cm) woody stems > 1m t 2 3 0-<1 1-<2.5 2.5-<5
H											cm) woody 1-<2.5
ノム							R.A.F				n) woody stems > 1 2 3 1-<2.5 2.5-<5
											54.0
						121	37				5 10 - <15
											5 6 10 - <15 15 - <20
2				-	7.1	5	8000			9-0	a 25 - <30
								-			9 30 - <35
				M							10 35 - <40
	256560000000000000000000000000000000000								S##		7 8 9 10 11 20 - <25 25 - <30 30 - <35 35 - <40 >40 (record each tree)

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

	Walnut (Thousand Canker)		
Other Pest or Pathogen	Hemlock (HWA)	CMC	(size class 2 or below including shrub clumps)
PRESENT Asian Longhormed Beetle	Nove Beech (Fungus) PRESSET		(size class 3 or above)
	* Write None Present if no evidence:	# of stem Severity infected (H,M, or L)	Strata infe

Severity

High = more than 50% of leaffneedle cover exhibiting symptoms

Medium = Less than 50% of leaf/needle cover exhibiting symptoms

Low = Only a few leaves or branches are exhibiting symptoms

- Jackson

1 24 E

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

CLASSIFICATION o SHRUB o shrub swamp to tall sh. bog to tall sh. fen a COASTAL (specify subclass) SLOPE (ground water hydrology or on a physical slope EMERGENT to marsh to wet meadow to open bog trifreetemerable class (WETLANDS ONLY): RIVERINE o Headwater o Mainstein o Channel IMPOUNDMENT a Beaver a Human No EPA VIBI Plant Community Class (WETTANDS ONLY): FOREST a swamp forest a bog forest a forest susp FRINGING to Reservoir to Natural Lake DEPRESSION III - excellent g Fit and Confidence BOG (strongly, moderately, weekly embrotrophic) T 7 1 Conf. Cont | Confe Conf-Conf Conf

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules onh

rets for microhabitat features. Select one or select two and average the score, NOTE; If mod falls on a slope sutomatically gets ranked besed on steepness (1-3) to begin + any features present Slope 2 = talls on slope -20" Slope 3 = maximum steepness that can be safely sampled ~45"

- feature is absent or functionally absent from the wetland
- testure 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 feeture is present in moderate or greater amounts and of highest quality

			0	S	9)	υ	mode					
2010	2000						corner					
	T		a	C	9	0	(count)	lxim	depth 3		hasocks	no. of
			0	0			(numb)	3.16x3.16m	depth 2	uplands (Tip-Ups)	harrmocks	no, of
			0	0			(count)	10x10m	depth 1		depressions	по листо.
J. 1			4	15	5		(orunt)	10x10m	depth 1		(2-12 cm)	cwd
			-	0	0	2	(count)	10x10m	depth 1		(12-40cm)	cw.d
			0	0	(Ò	(oound)	EN LOTE	aph 1		N CONTRACTOR	Carq
			W	w	w	W	(ræsk)	IOx LOzn	depth 1		interspers.	microhab.
	No.	8	-	ຄ	೩	_	(rank)	10x10m	SLOPE			microhab.

Conf

CROWN COVER (DENSIONATIER): Male 4 readings per module facing N. S. E. W. Place dol count in corresponding space. (4 data not and dension)

Terrain Shape Index (site microtopographic shape)

orm Index (position within tandscape)

Z.

+270 degrees +315 degraes

¥

+) 50 degrees +225 degrees

WS

angle from recorders eye to eye of person standing ~10 m

+135 degree

SE

145 dagnees 90 degree

H

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

At aspect

w-		φ-	n-	Medak	
S)		2	200	Z	
_	0		_	cn	
2	0	-	0	e	
-	0	Ò	0	ŧ	1

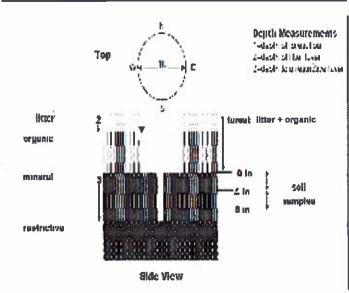
PROTE: fussock and humanooks are counted in BOTH nested quedral corners but counts are aggregated.

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.



LOWER PENNSYLVANIAN			Polisvije Graup*
		Logan Formation*	Vation Sædstone Member Allensville Constamente Member Byer Sædstone Member Berne Canglomente Member
MISSISSIPPAN		Cuyahoga Famuskan*	numerous named members; Black Hand Sandstone Member is and of the more persistent units
	SECRETARIA SECRETARIA PROPERTY.		Sunbury Shale*
			Berna Sundstone*
			Dedlard Shale*
-?-			Cleveland Member
UPPEH DEVONIAN	#	Oho Stule	Chagan Member*
3		100	Huron Member*

FIGURE 3-20.—Generalized section of Upper Devoman Mississippian, and Lewer Permaylvanian firmations in northeastern Ohio Asteriaks indicate units that are fossildsrous. This composite section represents about 430 meters of rock exposed across the area. The section is not to scale, but the chicknesses indicated are proportional. The section is not to scale in the close increases indicated are proportional. The section Waveriy is used in the close increases a term "Carboniferous," which entered Some geologists use the European term "Carboniferous," which entered scales the Alissingpian and Pennsylvanian Periods of the U.S. Many units have been named within the Cuyahoga Formation, our most units are local, and cannot be traced over great distances. Its Black Hand Member is a spectacular measure sanistone that is fairly widespread but discontinuous. See Hyde (1923, Horver 1980), and Colinas 1978; for more information on Mississippian rocks in Ohio. See Égure 3-16 for explanation of rock types.

Citcheland Metroparks

Page: 1 of 1

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a
Project label: PCAP Project Name: 048 6705

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

soil pit module # (one per entire piot)

20 cm 2 CM matrix color matrix color hydr. cond *** axid roots redox features** stoor bex extrare. edox features** mottle ottle color Attle color < SMD z

refer to texture classes on reverse pide rydro, cond *** SMD

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

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

MCD2: Warns

and cosmos dosing

MODQ: WORMS +

BEELIND

BECH PCAP Soils Constitution Sharing Biomass Data Sheet ver 3.xis last revised 8447012 cah

MODES: WORMS + PETSENT

stings, middens)

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

o Impermeable surface a Somewhat poorly dr. o Well drained to Excessively dr. Soil Series Source Ohio Soil Survey Soil Series/Type: Soil Collection ModuldHorizon (A. B. C) Web Sell Survey Information HAINAGE* andform type: 3.8.9 composited arent Material epth to rest. Layer: Moderately well dr. o Somewhat excessively a Very poorly dr.

	300
1	SOIL DEPTH MEASUREMENT: Measure to the nea 0.1 cm in center of intensive modules. If >30.5 cm, record as >30
1	플로모
٦	8 0 P
1	용물로
1	₹ ₹
1	٩ ١
4	i €
1	을 끊
1	Y E
1	3 3
4	8 2
1	e 6
1	° ₽
1	5 €
4	တို့ ဗို
1	5 6
1	음물
1	SOIL DEPTH MEASUREMENT: Measure to the nearest 0.1 cm in center of intensive modules. If >30.5 cm, record as >30
J	91

	-0	1. 3	9	2	-
2	9.	S	صو	mod#	
- 5	<u></u>	0).[1.8) litter+ organic depth (cm)	
1.(0	5.	9	1.8	2 litter depth (cm)	
0	0	0	0	water depth (cm)	
0	Q	0	O	depth sat soil (cm)	

Underlying Earth Surface*	h Surface*	Ground Cover	
(Sum - 100%)	percent	(Each ≤ 100%)	percen
Histosol	1	Coarse Woody Debris***	_
Mineral Soil	100	Fine Woody Debris****	W.
Gravel-Cobble*	١	Litter	83
Boulder**	l	Duff (Ferm. + Humus)	0
Bedrock	1	Bryophyte- Lichen	_
Gravel-Cobble = 1/16-10	=1/16-10°	Water	0
••Boulder = > 10 m	5	Bare Soil	7
*** >5 cm m diameter	neter	Road/Trail	2
**** <5 cm in diameter	meter	Other	

surface	** submerzed, most plant mass below surface	** submersed,
a.	nooted and floating or slightly emersed	noted and a
		(Aquatic)*
	-	(Floating)*
Ph.	05	Неф
53	.5.5,0	Shrub
93	5.1	ā
Total Cover (%)	Height Range (m)	Sicata
xi3, 8, 13	COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13	COVER BY STRATA

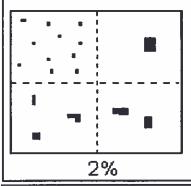
o Deer	o Gravel	Bootleg unsanctioned	liking sanctioned	o Bridle	All Purpose	Туре	scord type and cover for each	TRAIL INFORMATION:	
			2			%Cover	ach.	••	

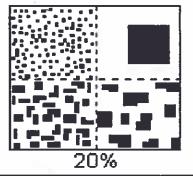
STAND SIZE 10 >600 x plot size 10-100 x plot size 2 10-100 x plot size 3-10 x plot size 1-3 x plot size 1 -5 x plot size 5 < plot size						
		a 3-10 x plot size	10-100 x plot size	a > 100 x plot size	STAND SIZE	

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

PERCENT MOTTLES (USE CLASS CODES):

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

Position

summit

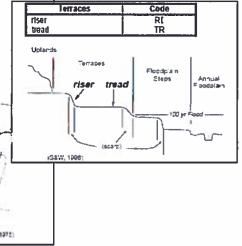
shoulder

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.

Interfluve IF IF IF head slope HS NS NS slde slope SS SS hase slope HS NS NS	11M2	Code		
nead slope HS HS nose slope NS NS slde slope SS SS	275	POP	NASIS	
nose slope NS NS side slope SS SS		IF		
side slope SS SS				
side slope SS SS BS BS BS				
base slope — BS		SS	SS	
	base slope		BS_	
	base slope	_	BS	
	/ /	slope	A Second	
1 800	/ 1/	1. 1. 1.	/ /	

order stee



Hillstope - Profile Position (Hillstope Position in PDP) - Twodimensional descriptors of parts of line segments (i.e., stope position) along a transect that runs up and down the stope; e.g., backstope or BS. This is best applied to transects or points, not areas.

Çode

footslope toeslope	BS FS TS		
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HYDROLOGIC REGIME Modified from Grossman et al 1998. (Frequency and duration of flooding.)

UPLAND: Not a wetland. Very rarely flooded.

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INTERMITTENTLY/SEASONALLY SATURATED: Dry at least once per year. Surface water is seldom present, but substrate is saturated to surface for extended periods during the growing season.

PERMANENTLY/SEMIPERMANENTLY SATURATED: Dry less than once per year. Surface water is seldom present, but substrate is saturated to surface for extended periods during the growing season. Equivalent to Cowardin's Saturated modifier.

OCCASIONALLY FLOODED: Surface water can be present for brief periods during growing season, but not in most years. Often characterizes flood-plain upper terraces.

TEMPORARILY FLOODED: Surface water present for brief periods during growing season, but water table usually lies well below soil surface. Often characterizes flood-plain levees and lower terraces. Equivalent to Cowardin's Temporary modifier.

INTERMITTENTLY FLOODED: Substrate is usually exposed, but surface water can be present for variable periods without detectable seasonal periodicity. Inundation is not predictable to a given season and is dependent upon highly localized rain storms. This modifier was developed for use in the arid West for water regimes of Playa lakes, intermittent streams, and dry washes but can be used in other parts of the U.S. where appropriate. This modifier can be applied to both wetland and non-wetland situations. Equivalent to Cowardin's Intermittently Flooded modifier.

SEMIPERMANENTLY FLOODED (exposed <1/year): Surface water persists throughout the growing season in most years. Land surface is normally saturated when water level drops below soil surface. Includes Cowardin's Intermittently Exposed and Semipermanently Flooded modifiers.

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

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