

CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form



Project Label: _____

PCAP

Plot No: 1059Date Sampled: 07/22/15Lead: LANCE

Comment required if item answer is NO

Parking/Access outside of Park Boundaries:	<input checked="" type="radio"/> Y <input type="radio"/> N	If yes, write details in Comments section below
Field journals completed	<input checked="" type="radio"/> Y <input type="radio"/> N	
Site sketch made on 1:3000 map?	<input checked="" type="radio"/> Y <input type="radio"/> N	
Check cover page	<input checked="" type="radio"/> Y <input type="radio"/> N	
X-axis Bearing of plot recorded	<input checked="" type="radio"/> Y <input type="radio"/> N	
GPS coords. Recorded	<input checked="" type="radio"/> Y <input type="radio"/> N	
North direction recorded	<input checked="" type="radio"/> Y <input type="radio"/> N	
Photographs taken?	<input checked="" type="radio"/> Y <input type="radio"/> N	
Relocated Pins Mapped	<input checked="" type="radio"/> Y <input type="radio"/> N	
Plot No., Date agreement on all pages?	<input checked="" type="radio"/> Y <input type="radio"/> N	
Header data completed all pages?	<input checked="" type="radio"/> Y <input type="radio"/> N	
Cover classes recorded in all Intensive modules	<input checked="" type="radio"/> Y <input type="radio"/> N	
Browse Level By Species	<input checked="" type="radio"/> Y <input type="radio"/> N	
Woody stem quality control check	<input checked="" type="radio"/> Y <input type="radio"/> N	Check every line and cross check with the Tree Cover Sheet
Invasive plant quality control check	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>N/A</u>
Ash trees mapped	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>N/A</u>
Completed Forest Pest/Pathogen Datasheet	<input checked="" type="radio"/> Y <input type="radio"/> N	
Cover by Strata? (confirm cover type)	<input checked="" type="radio"/> Y <input type="radio"/> N	
Soil samples collected with matching plot #.	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>N/A</u>
Cross check 2010 information	<input checked="" type="radio"/> Y <input type="radio"/> N	Highlight any changes from 2010 information
Vouchers labeled on datasheet with initials and number	<input checked="" type="radio"/> Y <input type="radio"/> N	
Vouchers labeled on collection bag	<input checked="" type="radio"/> Y <input type="radio"/> N	
Pink flags removed	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>FLAGS LEFT</u>
Data sheet QA before leaving site?	<input checked="" type="radio"/> Y <input type="radio"/> N	
Common equipment returned to tub.	<input checked="" type="radio"/> Y <input type="radio"/> N	
Data sheets scanned?		Enter date to left
Final data sheets scanned?		Enter date to left
Buffer Widths measured?	<input checked="" type="radio"/> Y <input type="radio"/> N	
Web Soil Survey	<input checked="" type="radio"/> Y <input type="radio"/> N	
Voucher Location	Refrigerator <input checked="" type="radio"/> Y <input type="radio"/> N	
(# vouchers collected)	Press (#)	Enter number to left
<u>ALL</u>	Drier	<input checked="" type="radio"/> Y <input type="radio"/> N
<u>388-</u>	Identified	<input checked="" type="radio"/> Y <input type="radio"/> N
<u>391</u>	Mounted	<input checked="" type="radio"/> Y <input type="radio"/> N
	Thrown away	<input checked="" type="radio"/> Y <input type="radio"/> N

GRTS point verification: Is plot sampleable?

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

Additional Comments:

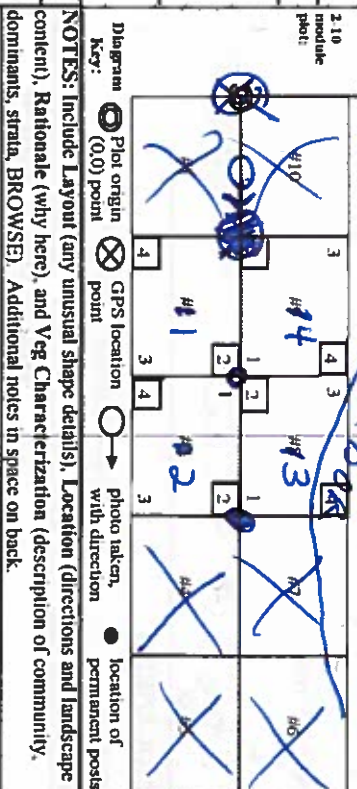
<u>PARK AT DOMINION POWER STATION</u> <u>OFF SAGAMORE RD.</u>
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GENERAL INFORMATION		LOCATION	
Project Label: PCAP	State: OH County: Cuyahoga	Local Place Names:	
Project Name: Q&B 2015	Quadrangle: Northfield	Landowner: Domion Gas Utility Area	
Plot Name:		Data Confidentiality:	
Plot No.: 1059		Check one: <input checked="" type="checkbox"/> Public data <input type="checkbox"/> Private Data	
<input type="checkbox"/> Level 4 (no nested corners sampled)		<input type="checkbox"/> Fuzz 100m <input type="checkbox"/> Fuzz 250m <input type="checkbox"/> Fuzz 500m	
<input checked="" type="checkbox"/> Level 5 (nested corners sampled)		Reason:	
Date (mm/dd/yyyy): 07/27/2015		If data not public why?	
End date (if > 1 day):		Source of coordinates: <input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS	
Party:	Role**	Coordinate system:	
A. Lance	Plot leader	<input checked="" type="checkbox"/> Lat/Long <input type="checkbox"/> UTM <input type="checkbox"/> StatePlane <input type="checkbox"/> deg <input type="checkbox"/> deg min	
D. Sweet	Bot. Asst.	<input type="checkbox"/> Other (specify)	
M. Busam	Crew	Datum: <input checked="" type="checkbox"/> NAD83/WGS84 <input type="checkbox"/> NAD27	
R. Eagle	Crew		
** Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc.		GPS location in plot x=0 to 5, y=-1.0, +1):	
PLOT NOT SAMPLED: <input type="checkbox"/> Other		x = -1 y = 0 (base of plot x=0, y=0)	
<input type="checkbox"/> Perm. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety		Latitude: 41.35205	
SAMPLING QUALITY*		Longitude: 81.57111	
Effort Level:	subjective evaluation of how much effort put into sampling. Hurried plots may still provide good data.	Coord. Accuracy: 0 m <input type="checkbox"/> ft + - 2	
<input checked="" type="checkbox"/> Very thorough		GPS File Name: 1059A	
<input type="checkbox"/> Accurate		Plot size for cover data: .04 (hectares)	
<input type="checkbox"/> Hurried		X-axis Bearing of plot: [354] °	
TAXONOMIC ACCURACY		Depth: (1-5): 4	
<input type="checkbox"/> high	<input type="checkbox"/> modera.	Intensive modules: 2, 3, 4, 9, 12, 34 (EDIT IF MODIFIED)	
<input checked="" type="checkbox"/> vascul.	<input type="checkbox"/> low	Camera No.: 3	
<input type="checkbox"/> bryo	<input checked="" type="checkbox"/> not simpl	Photo Nos.: 0416	
<input type="checkbox"/> lichen	<input type="checkbox"/> n/a	Plot placement: <input checked="" type="checkbox"/> RRTS <input type="checkbox"/> Representative	
TAXONOMIC STANDARD		<input type="checkbox"/> Random <input type="checkbox"/> Stratified Random <input type="checkbox"/> Transect component	
Authority: G&C	Pub Date: 1998	<input type="checkbox"/> Systematic (grid) <input type="checkbox"/> Capture specific feature <input type="checkbox"/> Other	

Minimum required fields in Bold and Underlined

*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide

OVER



Layout → 2x2

Location → Park at the Dominion power area across Sagamore Rd. from Northeast Behavioral Healthcare.

Plot is approx. 125 m into the field.

Rationale → GETS, PCAP re-sample

Veg. Characteristics → Plot is located in a large meadow complex.

Dogwood dominates shrub layer.

Canada goldenrod dominates herb layer.

GPS is 10 m behind baseline.

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet				Page 2 of 2																																			
Project Label: <u>PCAP</u>		Project Name: <u>02Be2015</u>		Plot No.: <u>1051</u>																																			
<div style="display: flex; justify-content: space-between;"> <div> MODIFIED NATURESERVE CLASS* CODE (on separate form): <u>W-02(a)</u> COMMUNITY NAME: <u>Dogwood Thicket</u> </div> <div> Fit= <u>---</u> Conf= <u>---</u> </div> </div>																																							
<div style="display: flex; justify-content: space-between;"> <div> HOMOGENEITY <input checked="" type="checkbox"/> Homogeneous <input type="checkbox"/> Conspicuous inclusions </div> <div> <input type="checkbox"/> Compositional trend across the plot <input type="checkbox"/> Irregular/pattern mosaic </div> </div>																																							
<div style="display: flex; justify-content: space-between;"> <div> DISTURBANCES <table border="1" style="width:100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>type*</th> <th>severity**</th> <th>hrs ago</th> <th>% of plot</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>Human</td> <td>L</td> <td>0</td> <td>100%</td> <td>Influence from adjacent corridor</td> </tr> <tr> <td>Natural</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Fire</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Cut</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Animal</td> <td>M</td> <td>0</td> <td>100%</td> <td>browse</td> </tr> <tr> <td>Other</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> </div> <div> **L=low, ML=med low, M=med, MH=med high, H=high, VH=very high Current Land Use: <u>PARK</u> Former Land Use: <u>UNKNOWN</u> </div> </div>					type*	severity**	hrs ago	% of plot	description	Human	L	0	100%	Influence from adjacent corridor	Natural					Fire					Cut					Animal	M	0	100%	browse	Other				
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Other																																							
<div style="display: flex; justify-content: space-between;"> <div> SALINITY* <input type="checkbox"/> Saltwater <input type="checkbox"/> Brackish <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Upland (n/a) <small>(by default unless plot is a wetland)</small> </div> <div> HYDROLOGIC REGIME* <input checked="" type="checkbox"/> Upland (seldom flooded) <input type="checkbox"/> Intermittently/seasonally saturated (seldom flooded) <input type="checkbox"/> Permanently/Semipermanent, saturated (dry <1/yr, seldom flooded) <input type="checkbox"/> Occasionally flooded (<1/yr) <input type="checkbox"/> Temporarily flooded <input type="checkbox"/> Intermittently flooded <input type="checkbox"/> Semipermanently flooded <input type="checkbox"/> Permanently flooded <input type="checkbox"/> Tidal/Seiche flooded daily <input type="checkbox"/> Tidal/Seiche flooded monthly <input type="checkbox"/> Tidal/Seiche flooded irregular (e.g. wind, storms) <input type="checkbox"/> Unknown </div> </div>																																							
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.) <div style="border: 1px solid black; padding: 10px; min-height: 150px; margin-top: 10px;"> <p style="font-size: large; color: blue;">Several Rubus sp. and dogbane are also components of herbaceous community</p> <p style="font-size: large; color: blue;">Several grasses/sedges present.</p> </div>																																							

Page 1 of 2

H

Plot area (ha): 0.04



**Cleveland
Metroparks**

Br = Browse level. Use cover classes to describe amount of browse per species over entire plot

Strata - Cov. entire plot

Cleveland
Metroparks

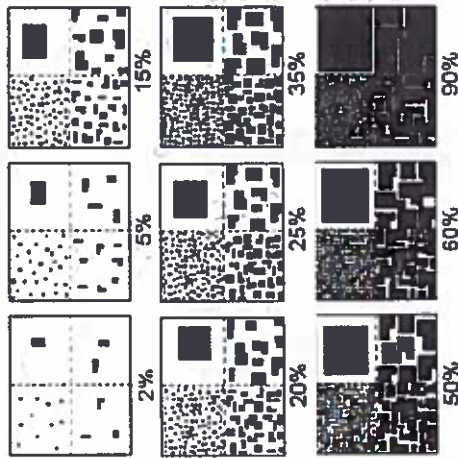
Br = Browse Level Use cover classes to
describe amount of browse per species over
entire plot

Strata - Cov. entire plot

S	H	(F)	(A)	Br	Species	C	Voucher #	Estimate for each intensive module:				%open water				%unvegetated open water				%unveg. (ground (bare soil))				%unveg. litter (bare litter)			
								mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner
6	3				<i>Solidago canadensis</i>			1	4	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
2	3				<i>Apocynum cannabinum</i>			4	3	3	4	4	3	3	4	4	3	3	4	4	3	3	4	4	3	3	4
2	2				<i>Fragaria virginiana</i>			4	2	2	3	3	2	2	3	2	3	2	3	2	3	2	3	2	3	2	3
2	2				<i>Pod sp.</i>			4	5	4	3	4	3	3	4	4	3	3	4	4	3	3	4	4	3	3	4
8	5				<i>Cornus racemosa</i>			3	2	2	3	3	2	2	3	3	2	2	3	3	2	2	3	3	2	2	3
2	2				<i>Aster sp.</i>			3	2	2	3	3	2	2	3	3	2	2	3	3	2	2	3	3	2	2	3
2	2				<i>Juncus tenuis</i>			2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	2	2	3	2
2	2				<i>Geum sp. laciniatum</i>			2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	2	2	3	2
6	3				<i>Crateogeomys sp.</i>			2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	2	2	3	2
2	2				<i>Erigeron sp.</i>			2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	2	2	3	2
2	2				<i>Toxicodendron radicans</i>			2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	2	2	3	2
2	2				<i>Junco effusus</i>			2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	2	2	3	2
2	2				<i>Rosa multiflora</i>			2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	2	2	3	2
2	2				<i>Anthoxanthum odoratum</i>			2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	2	2	3	2
2	2				<i>Urtica dioica</i>			2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	2	2	3	2
2	2				<i>Rubus pensilvanicus</i>			2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	2	2	3	2
2	2				<i>Aster novae-angliae</i>			2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	2	2	3	2
2	2				<i>Vitis riparia</i>			2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	2	2	3	2
2	2				<i>Agrostis gigantea</i>			2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	2	2	3	2
2	2				<i>Carex sp.</i>			2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	2	2	3	2
2	2				<i>Carex sp. - cephalophora</i>			2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	2	2	3	2
2	2				<i>Dactylis glomerata</i>			1	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	2	2	3	2
2	2				<i>Eleocharis acicularis</i>			1	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	2	2	3	2
2	2				<i>Carex sp.</i>			1	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	2	2	3	2
2	2				<i>Rubus occidentalis</i>			1	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	2	2	3	2
2	2				<i>Aster latifolius</i>			1	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	2	2	3	2

EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used for various data elements to convey "Amount" or "Quantity". NOTE: Within any given box, each quadrant contains the same total area covered, just different sized objects.



COVER class	% cover	midpoint
1	solitary or few	0.0001
2	0-1%	0.005
3	1-2%	0.015
4	2-5%	0.035
5	5-10%	0.075
6	10-25%	0.175
7	25-50%	0.375
8	50-75%	0.625
9	75-85%	0.850
10	85-100%	0.975

BROWSE RATING NARRATIVE DESCRIPTION

LOW OR NONE: there is no measurable browse line AND there are very few or no plants 1-m nested quadrat and intensive module. In general, low values relate to less than 10 percent, by numbers of stems browsed.

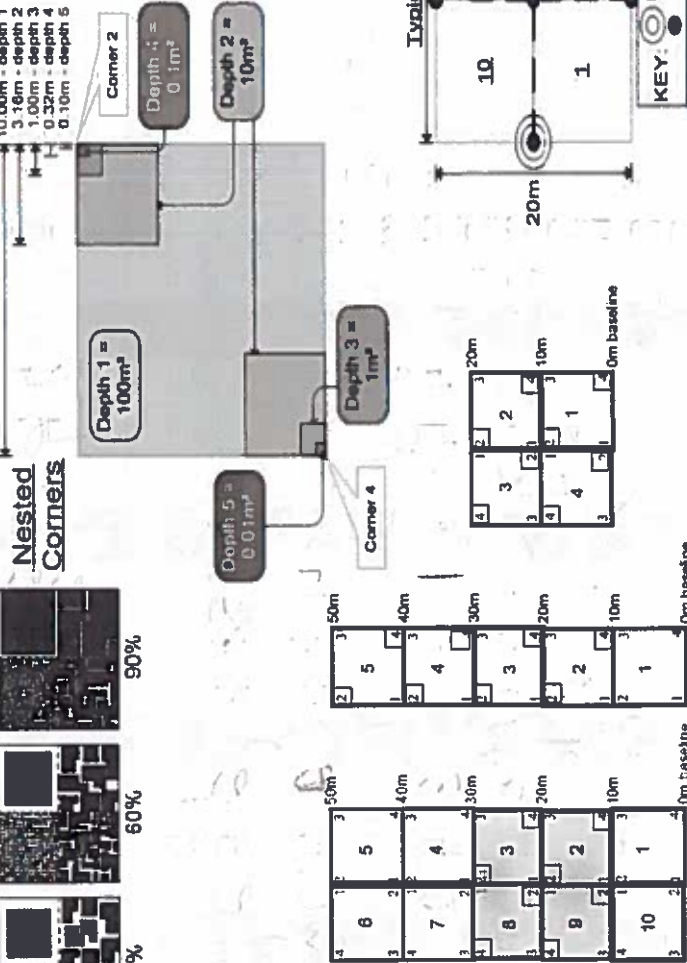
MEDIUM LOW values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse areas. For example, trilliums may flower and fruit, but jewelweed and arrowwood viburnum exhibit browse.

MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m2 nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some species of plants.

MEDIUM HIGH values include evidence of a browse line and 25 percent of stems browsed with very little vegetation regeneration evident. In this rating, for some species of plants, reproduction does not appear to occur or it is very severely limited.

HIGH: greater than 25 percent of the stems of plants in the 1 m2 nested quadrat and intensive module AND a browse line is evident.

VERY HIGH values include extensive browse conditions, where the browse line is very evident AND almost all seedlings and herbs are severely browsed or missing. Browse line may be 5 to 6 feet in height with no or little green growth beneath.



Page 7 of 7

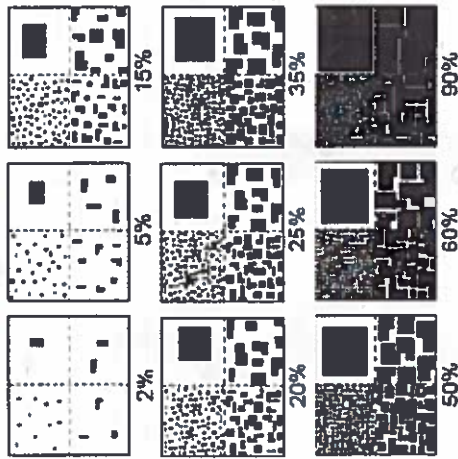
04

very tough

Natural Resource Management FORM NR/2010-02a

EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used to convert data elements to canopy "Amount" or "Quantity". NOTE: Within any given box, each quadrant contains the same total area covered, but different sized objects.



cover class	% cover	midpoint
1	solitary or few	0.0001
2	0-1%	0.005
3	1-2%	0.015
4	2-5%	0.035
5	5-10%	0.075
6	10-25%	0.175
7	25-50%	0.375
8	50-75%	0.625
9	75-85%	0.850
10	85-100%	0.975

BROWSE RATING NARRATIVE DESCRIPTION

LOW OR NONE: there is no measurable browse line AND there are very few or no plants 1-m nested quadrat and intensive module. In general, low values relate to less than 10 percent, by numbers of stems browsed.

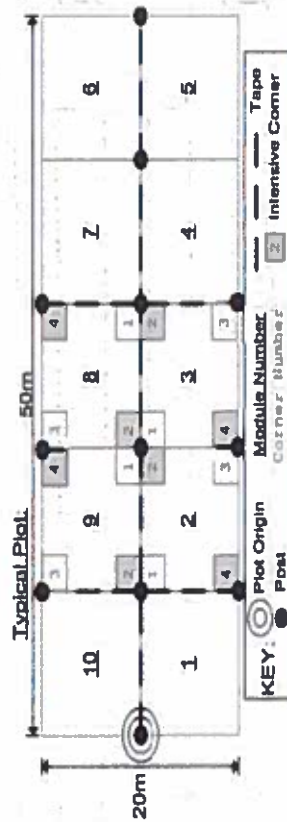
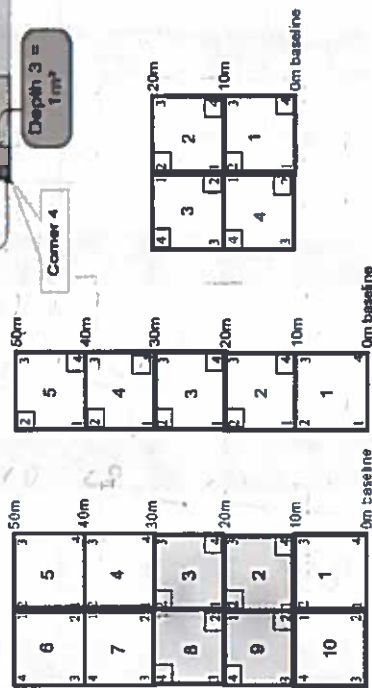
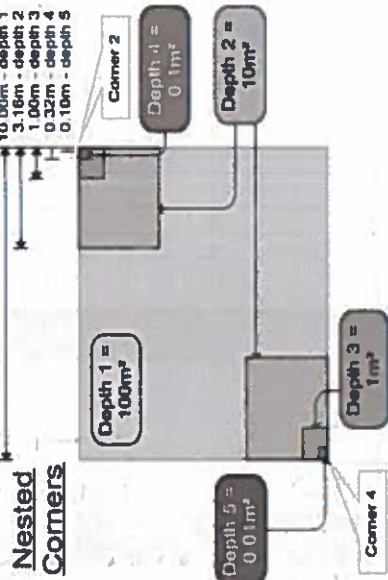
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KEY: Plot Origin, Corner Number, Tape, Intensive Corner

Page 1 of 1

Plot no.: 1659

Page of

Plot no.: _____

SRE_CM PCAP TREE Species Cover Data sheet.xls last revised 6/10/2015 ijm

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: OZBZ05

Plot No.: 105A

Page: 1

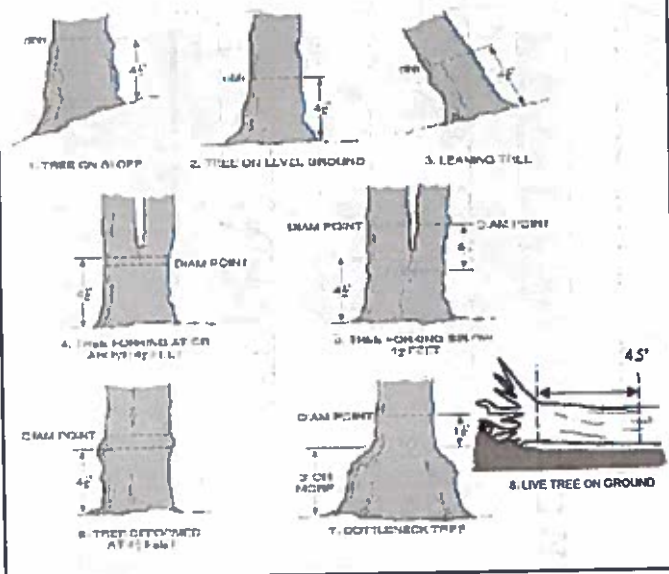
of

 Cleveland Metroparks

Explain subsample (additional room on back):

mod #	species	c	voucher#	# stems 0-1.4m browed	% sub or super sample	# shrub clumps	size class (cm) woody stems > 1.4m										
							1 0-1	2 1-2.5	3 2.5-5	4 5-10	5 10-15	6 15-20	7 20-25	8 25-30	9 30-35	10 35-40	11 >40 (record each tree)
RUBUS SP.																	
1	ONOSYDEMONSA			::		1											
1	NHS RIPARIA					1											
1	CRATAEGUS SP.			"		1											
1	STANDING DEAD					1											
2	CRATAEGUS SP. CRATAEGUS			::		1											
2	RUBUS SP.					1											
2	ONOSYDEMONSA			1		1											
2	CRATAEGUS SP.			::		1											
2	STANDING DEAD					1											
3	ONOSYDEMONSA			"		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											
3	RUBUS SP.			"		1											
3	ONOSYDEMONSA			::		1											
3	CRATAEGUS SP.			::		1											
3	STANDING DEAD					1											

DBH Measurement Rules



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.

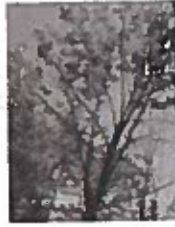
Record using the tally system from 1 to 10



1



2



3



4



5

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 (lowest branch) on the trunk.



A

B

C

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 below)

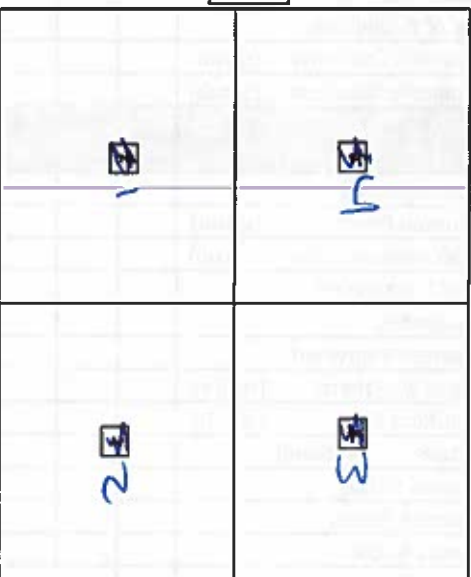
- A:** All main branches contain fine twigs (newly dead).
- B:** Over 50% of main branches have fine twigs.
- C:** Less than 50% of main branches have fine twigs.
- D:** Stem still standing and tertiary main branches present.
- E:** Central stem still standing.

ASH ONLY

Module ID	Tree ID	Species	Dead	Condition	Voucher #	DBH (cm)	HT @ DBH	Ash condition	Dead condition	# Exit holes	Epicormic present	Woodpecker holes
1		none present										
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												

* If Ash Condition scores 5 (dead) provide breakup score (A-E)
 Count EAB exit holes 1.25m² x 21.5m
 Woodpecker and epicormic marked present (1) or absent (0)

Baseline



*** Change intensive module numbers when necessary

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

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey


Tier 1: Early detection/ Rapid response		Presence				GPS	Presence X: yes
		NE	SE	SW	NW		
Microstegium vimineum	Japanese stiltgrass						
Ranunculus ficaria	Lesser Celandine						
Cynanchum louiseae (vine)	Black Swallow-wort						
Butomus umbellatus (wetland)	Flowering Rush						
Heracleum mantegazzianum	Giant Hogweed						
Tier 2: Assess as Needed		# of Plants				comments	# of Plants 1: 1-10 2: 11-50. 3: 51-100 4: 101-1,000 5: >1,000
		NE	SE	SW	NW		
Acer platanoides	Norway Maple						
Ailanthus altissima	Tree of Heaven						
Lonicera japonica (vine)	Japanese Honeysuckle						
Lythrum salicaria (wetland)	Purple Loosestrife						
Aegopodium podagraria (G-cover)	Bishop's Goutweed						
Celastrus orbiculatus (vine)	Asian Bittersweet						
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	# of Plants 1: 1-10 2: 11-50. 3: 51-100 4: 101-1,000 5: >1,000
		NE	SE	SW	NW		
Convallaria majalis (G-cover)	Lily of the Valley						
Coronilla varia (G-cover)	Crown Vetch						
Eleutherococcus pentaphyllus	Five-leaf Aralia (shrub)						
Pachysandra terminalis (G-cover)	Japanese Pachysandra						
Philadelphus coronarius	Mock Orange (shrub)						
Pulmonaria officinalis (G-cover)	Lungwort						
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	# of Plants 1: 1-10 2: 11-50. 3: 51-100 4: 101-1,000 5: >1,000
		NE	SE	SW	NW		
Alliaria petiolata	Garlic Mustard						
Ligustrum vulgare	Common Privet (shrub)						
L. morrowii, L. tatarica	Bush Honeysuckles (shrub)						
Phalaris arundinacea	Reed Canarygrass						
Phragmites australis (wetland)	Phragmites						
Polygonum cuspidatum	Japanese Knotweed						
Frangula alnus	Glossy Buckthorn (shrub)						
Rosa multiflora	Multiflora Rose (shrub)						
Typha angustifolia, T. x.glauca	Cattails (wetland)						
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 Forest Pest and Pathogens Data Sheet

Project Label: PCAP

Project Name: 02SE2015

Plot No.: 105A

Page: 1 of 1

mod #	Species	voucher#	# shrub clumps	size class (cm) woody stems > 1m										
				1 0-<1	2 1-<2.5	3 2.5-<5	4 5-<10	5 10-<15	6 15-<20	7 20-<25	8 25-<30	9 30-<35	10 35-<40	11 >40 (record each time)
1	<u>NOE PEST</u>													
2														
3														
4														
5														
6														
7														
8														
9														
10														

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

Strata	# of stems infected	Severity (H,M, or L)
Tree (size class 3 or above)		
Shrub (size class 2 or below including shrub clumps)		

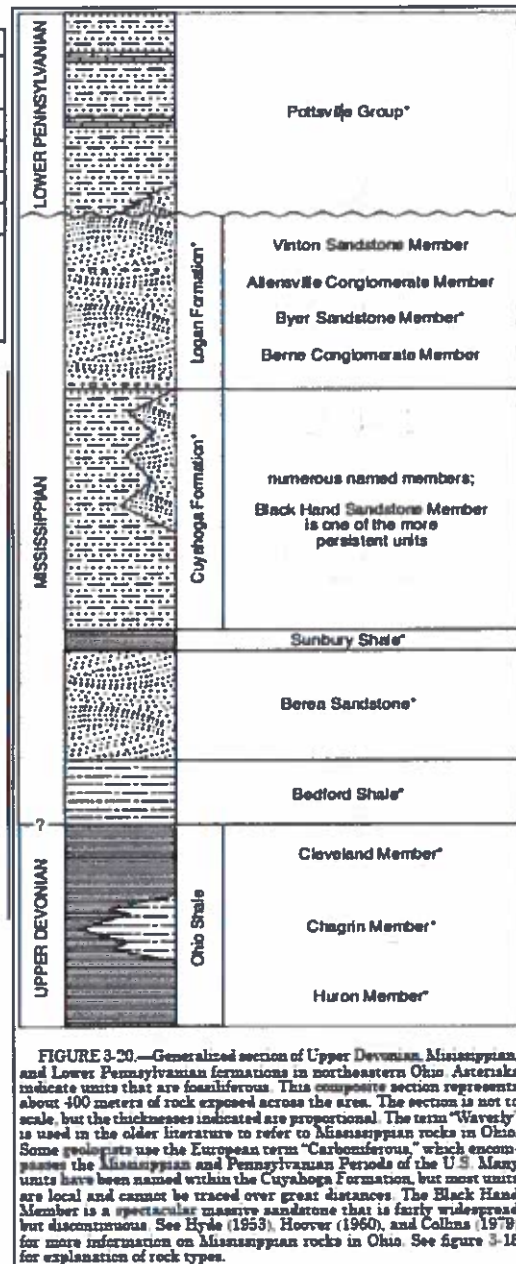
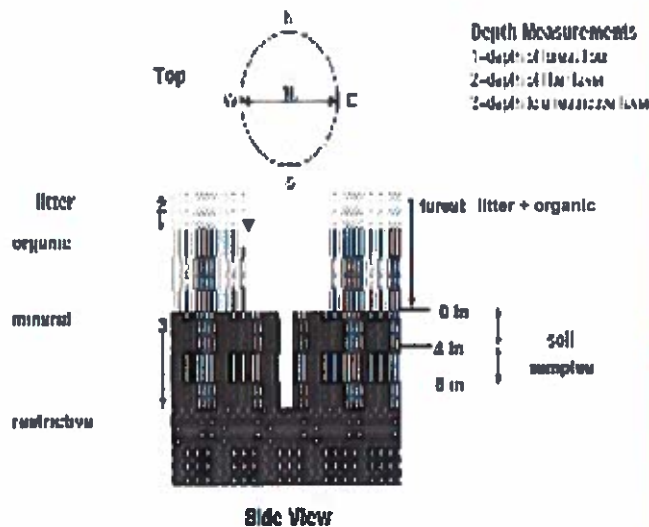
* Write None Present if no evidence:	
<u>NOE</u> Beech (Fungus)	Asian Longhorned Beetle
Hemlock (HWA)	Other Pest or Pathogen
Walnut (Thousand Canker)	

Severity
High = more than 50% of leaf/needle cover exhibiting symptoms
Medium = Less than 50% of leaf/needle cover exhibiting symptoms
Low = Only a few leaves or branches are exhibiting symptoms

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.



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

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 pit module # (one per entire plot)

6 cm	matrix color	
	mottle color	
	%mottle	
	oxid roots	Y N
	texture*	
	redox features**	Y N
	hydr. cond.***	I S M D
20 cm	matrix color	
	mottle color	
	%mottle	
	oxid roots	Y N
	texture*	
	redox features**	Y N
	hydr. cond.***	I S M D

Soil Collection Method: Horizon (A, B, C)

2.3.8.9 compaction

Web Soil Survey Information:

Soil Series/Type:

Soil Series Source: Ohio Soil Survey

Landform type:

Depth to root layer:

Parent Material:

Drainage*

- ☐ Excessively dr. ☐ Somewhat excessively
☐ Well drained ☐ Moderately well dr.
☐ Somewhat poorly dr. ☐ Very poorly dr.
☐ Impervious surface

SOIL DEPTH MEASUREMENT: Measure to the nearest 0.1 cm in center of intensive modules. If >30.3 cm, record as >30

	1 liter+ organic depth (cm)	2 liter depth (cm)	water depth (cm)	depth sat soil (cm)
1	0	0	-	-
2	0	0	-	-
3	0	0	-	-
4	0	0	-	-

EARTH SURFACE & GROUND COVER

Underlying Earth Surface*	Ground Cover	percent
Bare - 100%	percent	(each ≤ 100%)
Hiscrool	Coarse Woody Debris***	0
Mineral Soil	Fine Woody Debris****	0
Gravel-Cobble*	Litter	0
Boulder**	Duff (Ferm. + Humus)	0
Bedrock	Bryophyte-Lichen	0
Gravel-Cobble - 1/16-10"	Water	0
Boulder - > 10 in	Bare Soil	0
> 5 cm in diameter	Root/Trail	5
< 5 cm in diameter	Other	0

COVER BY STRATA

estimate using midpoints of 5, 6, 7, 8, 13

Strata	Height Range (m)	Total Cover (%)
Tree	5-7	0
Shrub	0.5-5.0	63
Herb	0-0.5	98
(Floating)*	-	-
(Aquatic)*	-	-

* rooted and floating or slightly emergent
 ** submerged, most plant mass below surface

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

TRAIL INFORMATION:

record type and cover for each	%Cover
Type	
Trail Purpose	5
Bridle	5
Hiking sanctioned	5
Bicycle unsanctioned	5
Gravel	5
Deer	5

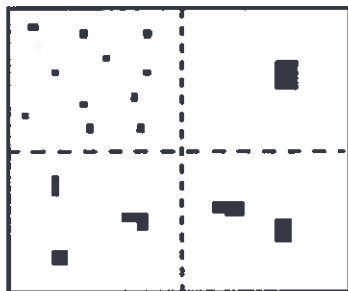
Nat
 APT
 Imp 67
 SET
 9-30-15

STAND SIZE

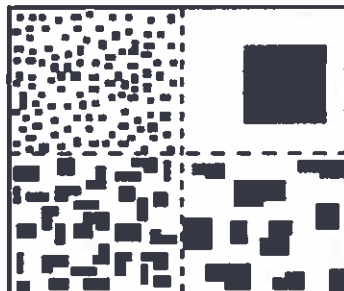
- ☒ 600 x plot size
☐ > 100 x plot size
☐ 10-100 x plot size
☐ 3-10 x plot size
☐ 1-3 x plot size
☐ < plot size

PERCENT MOTTLES (USE CLASS CODES):

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



2%



20%

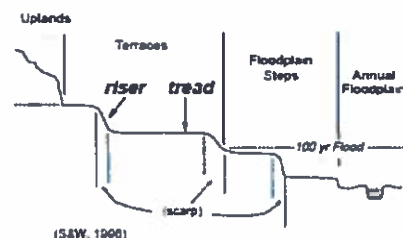
Geomorphic Component - Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains; e.g., (for Hills) nose slope or NS.

Hills	Code	NASIS
interfluvial	IF	IF
head slope	HS	HS
nose slope	NS	NS
side slope	SS	SS
base slope	—	BS



(P.J.S. 1990; adapted from Ruess, 1975)

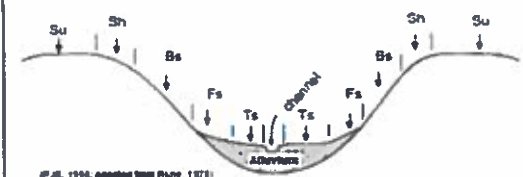
Terraces	Code
riser	RI
tread	TR



(S&W, 1966)

Hillslope - Profile Position (Hillslope Position in PDP) - Two-dimensional descriptors of parts of line segments (i.e., slope position) along a transect that runs up and down the slope; e.g., *backslope* or *BS*. This is best applied to transects or points, not areas.

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



(P.J.S. 1990; adapted from Ruess, 1975)

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/SEMI-PERMANENTLY 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.

SEMI-PERMANENTLY 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.