

Wisconsin Soil and Land Evaluation
Form #601WI-1

Team #			
0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

Code	
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

[illegible][illegible]

Part I - Surface Soil

D. TEXTURE (5 PTS)		1	2	3	4
1	Coarse Sands and Loamy Sands	1	2	3	4
2	Moderately Coarse Sandy Loam	1	2	3	4
3	Medium Loam, Silt, Silt Loam	1	2	3	4
4	Moderately Fine Clay loam, Sandy clay loam, Silty clay loam	1	2	3	4
5	Fine Sandy clay, Silty clay, Clay	1	2	3	4
6	Organic Peat and Muck	1	2	3	4

E. STRUCTURE (5 PTS)

		1	2	3	4	
1	Loose	Single Grained	1	2	3	4
2	Granular	Units small, mostly rounded	1	2	3	4
3	Blocky	Units irregular, some sharp corners	1	2	3	4
4	Platy	Units flat and thin	1	2	3	4
5	Cloddy	Units large and irregular	1	2	3	4

Part I - Subsoil

Thickest or most prominent layer below surface soil. Answer regardless of soil depth

F. TEXTURE (5 PTS)		1	2	3	4
1 Coarse	Sands and Loamy Sands	1	2	3	4
2 Moderately Coarse	Sandy Loam	1	2	3	4
3 Medium	Loam, Silt, Silt Loam	1	2	3	4
4 Moderately Fine	Clay loam, Sandy clay loam, Silty clay loam	1	2	3	4
5 Fine	Sandy clay, Silty clay, Clay	1	2	3	4
6 Organic	Peat and Muck	1	2	3	4

G. STRUCTURE (5 PTS)

		1	2	3	4	
1	Loose	Single Grained	1	2	3	4
2	Granular	Units small, mostly rounded	1	2	3	4
3	Blocky	Units irregular, some sharp corners	1	2	3	4
4	Platy	Units flat and thin	1	2	3	4
5	Prismatic, Columnar, or Massive	Large Units	1	2	3	4

Part I - Soil Profile

H. NATURAL DRAINAGE (5 PTS)		1	2	3	4
1 Very Poorly	Organic	1	2	3	4
2 Poorly	Mottling/Redox above 12"	1	2	3	4
3 Somewhat Poorly	Mottles/Redox between 12" and 36"	1	2	3	4
4 Moderately Well or Well	No mottles/Redox above 36"	1	2	3	4

I. DEPTH OF SOIL

FAVORABLE FOR ROOTS (5 PTS)		1	2	3	4
1	Over 40 inches	1	2	3	4
2	20-40 inches	1	2	3	4
3	12-20 inches	1	2	3	4
4	Less than 12 inches	1	2	3	4

Part I - Soil Test Report

J. SOIL FERTILITY & NUTRIENT MANAGEMENT (5 PTS)		More than 1 selection is possible.			
	1	2	3	4	
1 pH adjustment	(Y) (N)	(Y) (N)	(Y) (N)	(Y) (N)	
2 Nitrogen	(Y) (N)	(Y) (N)	(Y) (N)	(Y) (N)	
3 Phosphorus	(Y) (N)	(Y) (N)	(Y) (N)	(Y) (N)	
4 Potassium	(Y) (N)	(Y) (N)	(Y) (N)	(Y) (N)	

Part I - Site

A. POSITION IN LANDSCAPE (5 PTS)		1	2	3	4
1 Upland:	Hilltop or Plain	(1)	(2)	(3)	(4)
2	Sloping Hillside	(1)	(2)	(3)	(4)
3	Depression and/or drainage way	(1)	(2)	(3)	(4)
4 Stream Bottom or Bench:	Nearly level	(1)	(2)	(3)	(4)
5	Sloping	(1)	(2)	(3)	(4)
6	Depressional	(1)	(2)	(3)	(4)

B. SLOPE (5 PTS)

1 Nearly Level (0-2%)	1	2	3	4
2 Gently Sloping (2-6%)	1	2	3	4
3 Moderately Sloping (6-12%)	1	2	3	4
4 Strongly Sloping (12-20%)	1	2	3	4
5 Steep (20-30%)	1	2	3	4
6 Very Steep (30% or greater)	1	2	3	4

C. TYPE AND DEGREE OF EROSION OR DEPOSITION (5 PTS)

Wind Speed (km/h)		1	2	3	4	
1 None to slight	Over 75% of the original surface soil remains	water	1	2	3	4
2		wind	1	2	3	4
3 Moderate	25% to 75% of the original surface soil remains	water	1	2	3	4
4		wind	1	2	3	4
5 Severe	Less than 25% of the original surface soil remains	water	1	2	3	4
6		wind	1	2	3	4
7 Deposition	By wind or water		1	2	3	4

Part II - Soil Limitations

Y=LIMITING N=NOT LIMITING (2PTS EA)

	1	2	3	4
1 Soil Subject to sheet, rill, or wind erosion	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
2 Subject to occasional overflow or flooding	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
3 Surface Drainage Restricted	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
4 Subsoil drainage restricted from high water table	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
5 Low available water capacity	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
6 Stoniness	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
7 No major limitations	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N

Answer all factors all sites
7 marks per site!

Part III - Land Capability Classes

(7 PTS, 3 PTS IF ANSWER IS ONE CLASS OFF)

	1	2	3	4
1 CLASS I. May be safely used for intensive production, such as continuous row crops, pasture, woodland, and wildlife habitat.	☐ 1	☐ 2	☐ 3	☐ 4
2 CLASS II. Requires general conservation systems and can be used for crop production, pasture, woodland, and wildlife habitat.	☐ 1	☐ 2	☐ 3	☐ 4
3 CLASS III. Requires specific practices and conservation systems and can be used for crop production, pasture, woodland, and wildlife habitat.	☐ 1	☐ 2	☐ 3	☐ 4
4 CLASS IV. Requires intensive conservation systems and practices and can be used for crop production, pasture, woodland, and wildlife habitat.	☐ 1	☐ 2	☐ 3	☐ 4
5 CLASS V. NOT USED IN WISCONSIN	☐ 1	☐ 2	☐ 3	☐ 4
6 CLASS VI. Generally ill-suited for cropland. Recommend permanent pasture, woodland, or wildlife habitat. Use conservation practices for all land use.	☐ 1	☐ 2	☐ 3	☐ 4
7 CLASS VII. Use very carefully for pasture. Improve for woodland or wildlife. Needs careful conservation.	☐ 1	☐ 2	☐ 3	☐ 4
8 CLASS VIII. Reserve for wildlife habitat. Not suitable for agricultural or commercial plant production.	☐ 1	☐ 2	☐ 3	☐ 4

One answer per site!

Part IV - Conservation Practices for Long Term Land Use

Y=NEEDED N=NOT NEEDED (2PTS EA)

FOR MOST-INTENSIVE LAND USE, UNLESS OTHERWISE INDICATED ON PIT INFORMATION CARD

	1	2	3	4
1 Develop and implement a nutrient management plan	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
2 Use residue management and/or plant cover crop	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
3 Contour farming, contour buffer strips, contour strip cropping, or terraces	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
4 Maintain existing terraces, diversions or erosion control structures	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
5 Construct or maintain grassed waterways	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
6 Renovate or otherwise improve pasture	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
7 Eliminate or manage grazing	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
8 Improve timber stand or plant adapted trees in woodland	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
9 Establish or maintain windbreaks	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
10 Protect stream banks or lake shore	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
11 Improve fish and wildlife habitat	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
12 Establish/maintain riparian forest buffer or grass filter strip	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
13 Control invasive species that are present	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N

Answer all factors all sites
13 marks per site!

Part V - Non-Ag Use Limitations

Y=LIMITATIONS ARE PRESENT

N=NO LIMITATIONS ARE PRESENT (1PT EA)

	1	2	3	4
1 Houses with Basements	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
2 Septic Tank Absorption Fields	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
3 Local Roads, Streets and Driveways	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N

Answer all factors all sites
3 marks per site!