

Use of Soil Survey Information in Undergraduate Education



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UNIVERSITY OF WISCONSIN

PLATTEVILLE

Courses at UW-Platteville Using NRCS Soils Information

- SCSCI 2230 – Soils
- SCSCI 3330 – Soil Morphology and Classification
- SCSCI 3340 – Nutrient Management
- SCSCI 4350 – Soil and Water Conservation
- SCSCI 3380 – Special Problems in Soil Science (Soils Team)



SCSCI 2230 - Soils

- Introduce students to soil survey information and soil interpretations
 - Available water calculations
 - USLE
 - Printed soil surveys and map unit interpretation
 - Introduction to Web Soil Survey

Physical Soil Properties
Grant County, Wisconsin

[Entries under "Erosion Factors--T" apply to the entire profile. Entries under "Wind Erodibility Group" and "Wind Erodibility Index" apply only to the surface layer. Absence of an entry indicates that data were not estimated.]

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
<i>Ar</i>	<i>In</i>	<i>Pct</i>	<i>Pct</i>	<i>Pct</i>	<i>g/cc</i>	<i>micro m/sec</i>	<i>In/in</i>	<i>Pct</i>	<i>Pct</i>					
Arenzville	0-15	---	---	10-18	1.20-1.55	4.00-14.00	0.20-0.24	0.0-2.9	1.0-3.0	.37	.37	5	5	56
	15-40	---	---	10-30	1.25-1.45	4.00-14.00	0.18-0.22	3.0-5.9	---	.37	.37			
	40-60	---	---	10-20	1.20-1.40	4.00-14.00	0.20-0.22	0.0-2.9	---	.37	.37			
<i>DvC2</i>														
Dubuque	0-5	---	---	27-35	1.30-1.40	4.00-14.00	0.14-0.23	3.0-5.9	0.5-1.0	.43	.43	3	7	38
	5-21	---	---	27-35	1.30-1.45	4.00-14.00	0.13-0.20	3.0-5.9	0.5-1.0	.43	.43			
	21-60	---	---	40-80	1.25-1.55	0.00-1.00	0.04-0.13	6.0-8.9	0.5	.28	.28			
<i>FaB2</i>														
Fayette	0-14	---	---	25-27	1.35-1.45	4.00-14.00	0.18-0.20	3.0-5.9	1.0-2.0	.43	.43	5	6	48
	14-40	---	---	25-35	1.30-1.45	4.00-14.00	0.18-0.20	3.0-5.9	0.0-0.5	.43	.43			
	40-60	---	---	22-28	1.45-1.50	4.00-14.00	0.18-0.20	3.0-5.9	0.0-0.5	.43	.43			
<i>SaA</i>														
Sparta	0-16	---	---	3-10	1.20-1.40	14.00-42.00	0.09-0.12	0.0-2.9	1.0-2.0	.10	.10	5	2	134
	16-24	---	---	1-8	1.40-1.60	42.00-141.00	0.05-0.11	0.0-2.9	0.1-1.0	.15	.15			
	24-60	---	---	0-5	1.50-1.70	42.00-141.00	0.04-0.07	0.0-2.9	0.5	.15	.15			
<i>TaA</i>														
Tama	0-20	---	---	24-27	1.25-1.30	4.00-14.00	0.22-0.24	3.0-5.9	3.0-4.0	.28	.28	5	6	48
	20-36	---	---	27-35	1.30-1.35	4.00-14.00	0.18-0.20	3.0-5.9	1.0-2.0	.43	.43			
	36-60	---	---	22-28	1.35-1.40	4.00-14.00	0.18-0.20	3.0-5.9	0.0-0.5	.43	.43			

USDA Natural Resources Conservation Service

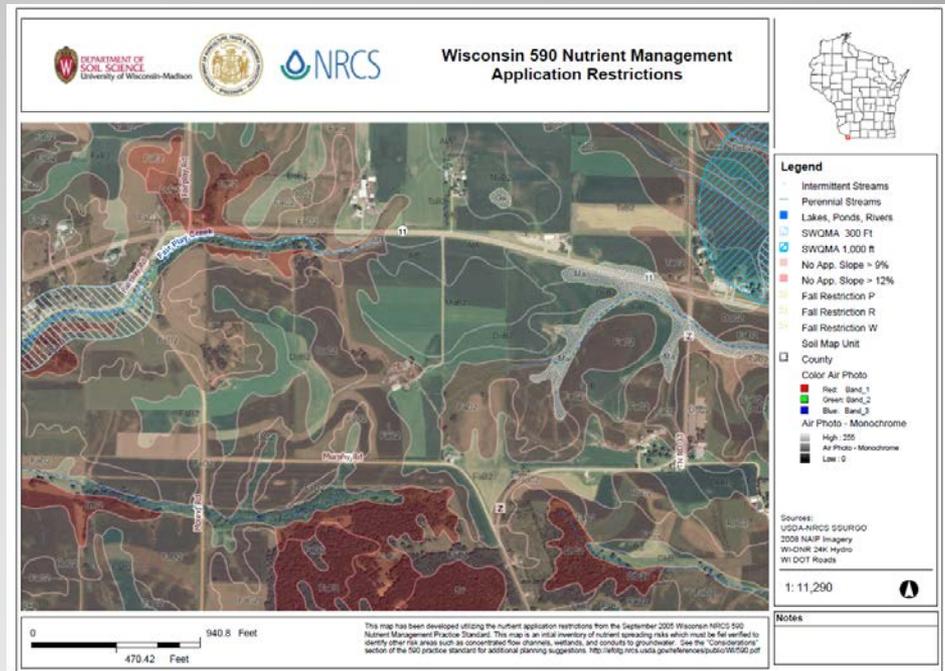
Tabular Data Version: 2
Tabular Data Version Date: 09/22/2005

This report shows only the major soils in each map unit. Others may exist.
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SCSCI 3340 Nutrient Management

- Soil map units and interpretation for nutrient management planning
- Predominant and critical Soil Map Units (SNAPplus)
- Slope restrictions and N restricted soils



SCSCI 4350 – Soil and Water Conservation

- Historical context of Soil and Water Conservation
- Conservation practices
- RUSLE2
- Conservation planning



SCSCI 3380 – Special Problems in Soil Science (Soils Team)

- Regional study of pedology and geomorphology
- Soil survey information is used to prepare students for contests
- Students work together to describe and classify soils
- OSD's an web soil survey



Other Cooperative Efforts With County, State and Federal Agencies

- Local Nutrient Management Training
- High School Land Judging contests
- Regional and National Collegiate Soil Judging Contests
- Guest speakers
- Sponsored research (Pioneer Farm)

