

HIGHLY ERODIBLE SOIL MAP UNIT LIST FOR COTTONWOOD COUNTY, MN
C =.18, R = 130

This data is only to be used for HEL determinations. This is the "frozen data" based on 01/01/1990 information. Values other than "HEL" should only be used for PHEL.

musym	muname	HEL	T	K	I	slope %	slope_l	LS
L5A	Delft, overwash-Delft complex, 1 to 4 percent slopes	NHEL	5	0.24	48	1.0	200	0.16
L6A	Biscay clay loam, 0 to 2 percent slopes	NHEL	4	0.28	48	1.0	200	0.16
L7A	Biscay clay loam, depressional, 0 to 1 percent slopes	NHEL	4	0.28	86	1.0	200	0.16
L16A	Muskego, Blue Earth, and Houghton soils, ponded, 0 to 1 percent slopes	NHEL	3	0.28	38	1.0	200	0.16
L65B	Augusta Lake fine sandy loam, 1 to 6 percent slopes	NHEL	3	0.20	86	4.0	175	0.50
L66B	Bechyn-Germantown-Rock outcrop complex, 2 to 6 percent slopes	NHEL	4	0.28	48	4.0	175	0.50
L66C	Bechyn-Germantown-Rock outcrop complex, 6 to 12 percent slopes	NHEL	2	0.28	48	9.0	100	0.50
L67B	Crooksford silt loam, 1 to 5 percent slopes	NHEL	5	0.32	48	5.0	175	0.71
L68B	Germantown clay loam, 1 to 8 percent slopes	NHEL	2	0.28	48	4.0	100	0.50
L69B	Grogan silt loam, 1 to 6 percent slopes	NHEL	5	0.32	56	5.0	175	0.71
L73A	Blue Earth mucky silt loam, 0 to 1 percent slopes	NHEL	5	0.28	86	1.0	200	0.16
L74A	Estherville sandy loam, 0 to 2 percent slopes	NHEL	3	0.20	86	1.0	200	0.16
L76E	Dickinson fine sandy loam, 18 to 30 percent slopes	HEL	5	0.28	86	22.0	100	4.80
L78A	Canisteo clay loam, 0 to 2 percent slopes	NHEL	5	0.24	86	1.0	200	0.16

L79B	Clarion loam, 2 to 6 percent slopes	NHEL	5	0.24	48	3.0	175	0.34
L82A	Marna silty clay loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1.0	200	0.16
L83A	Webster clay loam, 0 to 2 percent slopes	NHEL	5	0.24	48	1.0	200	0.16
L84A	Glencoe clay loam, 0 to 1 percent slopes	NHEL	5	0.28	48	1.0	200	0.16
L85A	Nicollet clay loam, 1 to 3 percent slopes	NHEL	5	0.24	48	1.0	200	0.16
L86A	Madelia silty clay loam, 0 to 2 percent slopes	NHEL	5	0.28	38	1.0	200	0.16
L87A	Kingston silty clay loam, 1 to 3 percent slopes	NHEL	5	0.28	48	1.0	200	0.16
L88A	Lura silty clay, 0 to 1 percent slopes	NHEL	5	0.28	86	1.0	200	0.16
L89A	Guckeen silty clay loam, 1 to 3 percent slopes	NHEL	5	0.37	86	1.0	200	0.16
L94A	Lowlein fine sandy loam, terrace, 0 to 3 percent slopes	NHEL	3	0.20	86	1.0	200	0.16
L95E	Hawick gravelly coarse sandy loam, 12 to 20 percent slopes	HEL	3	0.20	86	19.0	100	3.75
L96B	Estherville-Hawick complex, 2 to 6 percent slopes	NHEL	3	0.20	86	4.0	175	0.50
L97C	Hawick-Estherville complex, 6 to 12 percent slopes	PHEL	3	0.20	86	9.0	150	1.40
L98A	Crippin-Nicollet complex, 1 to 3 percent slopes	NHEL	5	0.24	86	1.0	200	0.16
L99B	Clarion-Swanlake complex, 2 to 6 percent slopes	NHEL	5	0.28	86	4.0	175	0.50
L102C2	Clarion-Storden complex, 6 to 10 percent slopes, moderately eroded	PHEL	5	0.28	86	9.0	150	1.40
L102D2	Omsrud-Storden complex, 10 to 16 percent slopes, moderately eroded	HEL	5	0.28	86	15.0	100	2.50

L104A	Jeffers-Canisteo complex, 0 to 2 percent slopes	NHEL	5	0.24	86	1.0	200	0.16
L107A	Canisteo-Glencoe complex, 0 to 2 percent slopes	NHEL	5	0.28	48	1.0	200	0.16
L111A	Nicollet silty clay loam, 1 to 3 percent slopes	NHEL	5	0.32	38	1.0	200	0.16
L129B	Terril loam, 2 to 6 percent slopes	NHEL	5	0.24	48	4.0	175	0.50
L135A	Okabena silty clay loam, 1 to 3 percent slopes	NHEL	5	0.28	48	1.0	200	0.16
L141A	Spillville loam, 0 to 2 percent slopes, occasionally flooded	NHEL	5	0.24	48	1.0	200	0.16
L142A	Jeffers clay loam, 0 to 2 percent slopes	NHEL	5	0.24	48	1.0	200	0.16
L143A	Linder loam, 0 to 2 percent slopes	NHEL	5	0.24	56	1.0	200	0.16
L144A	Chetomba silty clay loam, 0 to 2 percent slopes	NHEL	5	0.28	38	1.0	200	0.16
L147A	Little Cottonwood clay loam, 0 to 3 percent slopes	NHEL	2	0.24	48	1.0	200	0.16
L148A	Lowlein sandy loam, 1 to 3 percent slopes	NHEL	4	0.24	56	1.0	200	0.16
L149A	Romnell clay loam, 0 to 3 percent slopes	NHEL	5	0.28	48	1.0	200	0.16
L150A	Prinsburg silty clay loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1.0	200	0.16
L151A	Glencoe mucky silty clay loam, ponded, 0 to 1 percent slopes	NHEL	5	0.28	48	1.0	200	0.16
L152B	Lowlein-Round Lake complex, 1 to 6 percent slopes	NHEL	3	0.20	86	4.0	175	0.50
L153A	Essexville sandy loam, 0 to 2 percent slopes	NHEL	4	0.24	56	1.0	200	0.16
L154E	Belview-Ridgeton complex, 15 to 45 percent slopes	HEL	5	0.28	86	22.0	100	4.80

L156C2	Clarion-Storden-Pilot Grove complex, 6 to 10 percent slopes, moderately eroded	PHEL	5	0.28	86	9.0	150	1.40
L156D2	Omsrud-Storden-Pilot Grove complex, 10 to 16 percent slopes, moderately eroded	HEL	5	0.28	86	19.0	100	3.75
L158B	Round Lake sandy loam, 1 to 6 percent slopes	NHEL	3	0.20	86	4.0	175	0.50
L159A	Knoke mucky silty clay loam, 0 to 1 percent slopes	NHEL	5	0.28	48	1.0	200	0.16
L160B	Dickinson sandy loam, loamy substratum, 1 to 6 percent slopes	NHEL	3	0.20	86	4.0	175	0.50
L161C	Estherville-Pilot Grove complex, 6 to 12 percent slopes	PHEL	3	0.20	86	9.0	150	1.40
L162B	Clarion-Round Lake complex, 2 to 6 percent slopes	NHEL	5	0.24	48	3.0	175	0.34
L163A	Okoboji silty clay loam, 0 to 1 percent slopes	NHEL	5	0.28	86	1.0	200	0.16
L165A	Mayer loam, 0 to 2 percent slopes	NHEL	4	0.24	86	1.0	200	0.16
L167A	Mayer clay loam, depressionnal , 0 to 1 percent slopes	NHEL	4	0.28	86	1.0	200	0.16
L168A	Minneopa sandy loam, 0 to 3 percent slopes	NHEL	3	0.20	86	1.0	200	0.16
L169A	Minneopa sandy loam, sandy substratum, 0 to 3 percent slopes	NHEL	3	0.20	86	1.0	200	0.16
L170B	Estherville-Round Lake complex, 2 to 6 percent slopes	NHEL	3	0.20	86	1.0	200	0.16
L172D2	Storden, firm till-Annton complex, 12 to 18 percent slopes, moderately eroded	HEL	5	0.28	86	15.0	100	2.50
L173A	Moines clay loam, 1 to 3 percent slopes	NHEL	5	0.24	86	3.0	175	0.34
L174A	Mound Creek clay loam, 0 to 2 percent slopes	NHEL	2	0.24	48	1.0	200	0.16
L175A	Rolfe silt loam, 0 to 1 percent slopes	NHEL	5	0.28	48	1.0	200	0.16

L176A	Shandep clay loam, 0 to 2 percent slopes, occasionally flooded	NHEL	5	0.24	48	1.0	200	0.16
L178A	Mayer mucky clay loam, ponded, 0 to 1 percent slopes	NHEL	5	0.28	48	1.0	200	0.16
L183A	Mayer, ponded-Mayer complex, 0 to 2 percent slopes, flooded	NHEL	5	0.28	48	1.0	200	0.16
L188A	Romnell clay loam, depressional, 0 to 1 percent slopes	NHEL	5	0.28	48	1.0	200	0.16
L189A	Mayer clay loam, ponded, 0 to 1 percent slopes, frequently flooded	NHEL	5	0.28	48	1.0	200	0.16
L193A	Shandep clay loam, 0 to 2 percent slopes, frequently flooded	NHEL	5	0.24	48	1.0	200	0.16
L194A	Southbrook silty clay loam, 0 to 2 percent slopes, occasionally flooded	NHEL	5	0.24	48	1.0	200	0.16
L196A	Spicer silty clay loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1.0	200	0.16
L197A	Mayer-Mayer, depressional, complex, 0 to 2 percent slopes	NHEL	5	0.28	48	1.0	200	0.16
L198A	North Twin-Walnut Grove complex, 0 to 2 percent slopes	NHEL	5	0.28	48	1.0	200	0.16
L198B	North Twin-Walnut Grove complex, 1 to 4 percent slopes	NHEL	5	0.28	48	4.0	175	0.50
L201A	Normania loam, 1 to 3 percent slopes	NHEL	5	0.24	48	1.0	200	0.16
L202A	Pell Creek-Romnell complex, 0 to 2 percent slopes	NHEL	5	0.28	48	1.0	200	0.16
L203A	Seaforth loam, 1 to 3 percent slopes	NHEL	5	0.24	48	1.0	200	0.16
L207F	Belview-Ridgeton complex, 18 to 40 percent slopes, firm till substratum	HEL	5	0.28	86	22.0	100	4.80
L208B	Swanlake-Round Lake complex, 2 to 6 percent slopes	NHEL	5	0.28	86	4.0	175	0.50
L209A	Walnut Grove-Pell Creek complex, 0 to 2 percent slopes	NHEL	5	0.28	48	1.0	200	0.16

L211B	Amiret-Swanlake-Round Lake complex, 2 to 6 percent slopes	NHEL	5	0.28	86	4.0	175	0.50
L213A	Calco silty clay loam, 0 to 2 percent slopes, frequently flooded	NHEL	5	0.24	48	1.0	200	0.16
L215A	Dickman sandy loam, 0 to 2 percent slopes	NHEL	3	0.20	86	1.0	200	0.16
L215B	Dickman sandy loam, 2 to 6 percent slopes	NHEL	3	0.20	86	4.0	175	0.50
L215C	Dickman sandy loam, 6 to 12 percent slopes	PHEL	3	0.20	86	9.0	150	1.40
L217C2	Storden-Ves complex, 6 to 10 percent slopes, moderately eroded	PHEL	5	0.28	86	9.0	150	1.40
L218B	Amiret loam, 2 to 6 percent slopes	NHEL	5	0.24	48	4.0	175	0.50
L219A	Coland clay loam, 0 to 2 percent slopes, occasionally flooded	NHEL	5	0.24	48	1.0	200	0.16
L222C2	Ves-Storden-Pilot Grove complex, 6 to 12 percent slopes, moderately eroded	PHEL	5	0.28	86	9.0	150	1.40
L223B	Amiret-Swanlake loams, 2 to 6 percent slopes	NHEL	5	0.28	86	5.0	175	0.71
L224A	Coland clay loam, 0 to 2 percent slopes, frequently flooded	NHEL	5	0.24	48	1.0	200	0.16
L225B	Annton-North Twin complex, 2 to 6 percent slopes	NHEL	5	0.24	48	4.0	175	0.50
L226C2	Annton-Storden, firm till, complex, 6 to 12 percent slopes, moderately eroded	PHEL	5	0.28	86	9.0	150	1.40
L227B	Truman silt loam, 2 to 6 percent slopes	NHEL	5	0.32	48	5.0	175	0.71
L228B	Clarion-Ocheyedan complex, 2 to 5 percent slopes	NHEL	5	0.28	48	4.0	175	0.50
L229A	Romnell silty clay loam, depressional, 0 to 1 percent slopes	NHEL	5	0.28	86	1.0	200	0.16
L230A	Biscay clay loam, loamy substratum, 0 to 2 percent slopes	NHEL	4	0.28	48	1.0	200	0.16

L231A	Mayer clay loam, loamy substratum, 0 to 2 percent slopes	NHEL	4	0.24	86	1.0	200	0.16
L232A	Havelock clay loam, sandy substratum, 0 to 2 percent slopes, rarely flooded	NHEL	5	0.28	86	1.0	200	0.16
L233A	Lakefield silty clay loam, 0 to 3 percent slopes	NHEL	5	0.28	48	1.0	200	0.16
L234A	Romnell silty clay loam, ponded, 0 to 1 percent slopes	NHEL	5	0.28	86	1.0	200	0.16
L235A	Riverston clay loam, 0 to 2 percent slopes, occasionally flooded	NHEL	5	0.28	86	1.0	200	0.16
L236A	Shandep clay loam, depressional, 0 to 1 percent slopes	NHEL	5	0.24	48	1.0	200	0.16
L238A	Webster-Delft complex, 0 to 2 percent slopes	NHEL	5	0.24	48	1.0	200	0.16
L239A	Revere clay loam, 0 to 2 percent slopes	NHEL	5	0.28	48	1.0	200	0.16
L240A	Shandep mucky loam, ponded, 0 to 1 percent slopes	NHEL	5	0.24	48	1.0	200	0.16
L241B	Dickinson fine sandy loam, firm till substratum, 1 to 6 percent slopes	NHEL	3	0.20	86	4.0	175	0.16
L242B	Terril loam, firm till substratum, 2 to 6 percent slopes	NHEL	5	0.24	48	4.0	175	0.50
L245A	Shandep loam, 0 to 2 percent slopes	NHEL	5	0.24	48	1.0	200	0.16
L248B	Annton-Swanlake, firm till, complex, 3 to 6 percent slopes	NHEL	5	0.24	48	4.0	175	0.50
L249A	Knoke silty clay loam, firm till substratum, depressional, 0 to 1 percent slopes	NHEL	5	0.28	48	1.0	200	0.16
L255D2	Storden-Ves complex, 10 to 16 percent slopes, moderately eroded	HEL	5	0.28	86	19.0	100	3.75
L256D2	Storden-Ves-Pilot Grove complex, 12 to 18 percent slopes, moderately eroded	HEL	5	0.28	86	19.0	100	3.75
L257A	Blue Earth mucky silt loam, sandy substratum, depressional, 0 to 1 percent slopes	NHEL	5	0.28	48	1.0	200	0.16

L46B	Tomall loam, 2 to 6 percent slopes	NHEL	5	0.24	48	4.0	175	0.50
1007	Udorthents, shallow (sanitary landfill)							
1010	Pits, quarry							
1024A	Havelock clay loam, 0 to 2 percent slopes, occasionally flooded	NHEL	5	0.28	86	1.0	200	0.16
1055	Aquents (distrubed land), ponded-Udorthents, loamy complex							
GP	Pits, gravel-Udipsamments complex							
M-W	Water, miscellaneous							
W	Water							