HIGHLY ERODIBLE SOIL MAP UNIT LIST FOR
WATONWAN COUNTY
C = .15 R = 130

MARCH 29, 1993

RECORD NUMBER	MAP UNIT SYMBOL	MAP UNIT NAME	T	K	I	TYPICAL SLOPE PERCENT	TYPICAL SLOPE LENGTH	LS FACTOR	HELC CATEGORY
WI0041	8B	SPARTA LOAMY SAND, 1 TO 6 PERCENT SLOPES	5	.17	134	3.5	150	0.400	NHEL
IA0078	27A	DICKINSON FINE SANDY LOAM, 0 TO 2 PERCENT SLOPES	4	.20	86	1.0	200	0.159	NHEL
IA0078	27B	DICKINSON FINE SANDY LOAM, 2 TO 6 PERCENT SLOPES	4	.20	86	4.0	150	0.470	NHEL
MN0063	31F	STORDEN LOAM, 20 TO 35 PERCENT SLOPES	5	.28	86	25.0	150	7.000	HEL
MN0064	35	BLUE EARTH MUCKY SILT LOAM	5	.28	86	0.5	100	0.096	NHEL
MN0025	41B	ESTHERVILLE SANDY LOAM, 1 TO 6 PERCENT SLOPES	3	.20	86	3.5	150	0.400	NHEL
MN0010	69B	FEDJI LOAMY FINE SAND, 1 TO 6 PERCENT SLOPES	5	.17	134	3.5	150	0.400	NHEL
MN0008	84	BROWNTON SILTY CLAY LOAM	5	.28	86	1.0	100	0.129	NHEL
MN0059	86	CANISTEO CLAY LOAM	5	.24	86	1.0	100	0.130	NHEL
MN0036	101B	TRUMAN SILT LOAM, 1 TO 4 PERCENT SLOPES	5	.32	48	2.5	200	0.300	NHEL
IA0157	112	HARPS CLAY LOAM	5	.24	86	1.0	100	0.130	NHEL
IA0072	113	WEBSTER CLAY LOAM	5	.24	48	1.0	100	0.129	NHEL
MN0026	114	GLENCOE CLAY LOAM	5	.28	48	0.5	100	0.096	NHEL
IA0177	118	CRIPPIN LOAM	5	.24	86	2.0	125	0.214	NHEL
MN0012	128B	GROGAN SILT LOAM, 2 TO 6 PERCENT SLOPES	5	.32	56	4.0	150	0.470	NHEL
MN0471	128A	GROGAN SILT LOAM, 0 TO 2 PERCENT SLOPES	5	.32	56	1.0	125	0.138	NHEL
MN0034	130	NICOLLET LOAM	5	.24	48	2.0	150	0.227	NHEL
IA0131	134	OKOBOJI SILTY CLAY LOAM	5	.32	86	0.5	125	0.100	NHEL
MN0033	136	MADELIA SILTY CLAY LOAM	5	.28	38	1.0	125	0.138	NHEL
MN0093	140	SPICER SILTY CLAY LOAM	5	.28	86	1.0	125	0.138	NHEL
MN0011	160	FIELDON LOAM	4	.28	86	1.0	125	0.138	NHEL
MI0029	178	GRANBY LOAMY SAND	5	.17	134	1.0	125	0.138	NHEL
MN0031	181	LITCHFIELD LOAMY FINE SAND	5	.17	134	2.0	150	0.227	NHEL
MN0386	183	DASSEL FINE SANDY LOAM	4	.20	86	0.5	125	0.100	NHEL
MN0085	197	KINGSTON SILTY CLAY LOAM	5	.28	38	1.0	125	0.138	NHEL
MN0014	222B	LASA LOAMY FINE SAND, 1 TO 6 PERCENT SLOPES	5	.17	134	3.0	180	0.340	NHEL
MN0029	227	LEMOND LOAM	4	.24	86	1.0	150	0.146	NHEL
MN0094	229	WALDORF SILTY CLAY LOAM	5	.28	86	1.0	150	0.146	NHEL
IA0176	247	LINDER SANDY LOAM	4	.20	86	2.0	150	0.227	NHEL
MN0197	255	MAYER LOAM	4	.24	86	1.0	150	0.146	NHEL
IL0222	269	MILLINGTON CLAY LOAM, OCCASIONALLY FLOODED	5	.28	86	1.0	200	0.159	NHEL
MN0009	281	DARFUR FINE SANDY LOAM	5	.20	86	1.0	100	0.129	NHEL
MN0028	282	HANSKA LOAM	4	.28	56	1.0	150	0.146	NHEL
MN0105	327A	DICKMAN SANDY LOAM, 0 TO 2 PERCENT SLOPES	3	.20	86	1.0	200	0.159	NHEL
MN0105	327B	DICKMAN SANDY LOAM, 2 TO 6 PERCENT SLOPES	3	.20	86	4.0	200	0.530	NHEL
MN0295	336	DELFT LOAM	5	.24	48	1.0	100	0.129	NHEL
IL0222	362	MILLINGTON CLAY LOAM, FREQUENTLY FLOODED	5	.28	-	1.0	100	0.129	NHEL
MN0110	392	BISCAY LOAM	4	.28	48	1.0	150	0.146	NHEL
MN0156	421B	VES LOAM, 1 TO 4 PERCENT SLOPES	5	.24	48	3.0	125	0.310	NHEL
MN0154	423	SEAFORTH LOAM	5	.28	86	2.0	100	0.200	NHEL
MN0155	446	NORMANIA LOAM	5	.24	48	2.0	125	0.214	NHEL
IL0080	487	HOOPESTON FINE SANDY LOAM	4	.20	86	2.0	125	0.214	NHEL
IA0226	517	SHANDEP CLAY LOAM	5	.24	48	0.5	125	0.100	NHEL
MN0597	539	PALMS MUCK	5	-	134	0.5	100	0.096	NHEL
IA0256	562	KNOKE SILTY CLAY LOAM	5	.32	86	1.0	125	0.138	NHEL
IA0155	575	NISHNA SILTY CLAY LOAM	5	.37	86	1.0	125	0.138	NHEL
IA0231	639B	RIDGEPORT SANDY LOAM, 1 TO 6 PERCENT SLOPES	4	.24	86	4.0	150	0.470	NHEL
MN0433	654	REVERE CLAY LOAM	5	.24	86	1.0	150	0.146	NHEL
IA0295	668	CORWITH SILT LOAM	5	.28	48	2.0	150	0.227	NHEL
MN0012	789B2	GROGAN-LASA VARIANT COMPLEX, 2 TO 6 PERCENT SLOPES, ERODED	5	.32	56	4.0	150	0.470	NHEL

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MN0012	789C2	LASA VARIANT-GROGAN COMPLEX, 6 TO 12 PERCENT SLOPES, ERODED	5	.32	56	9.0	150	1.440	PHEL*
MN0012	790B	GROGAN-DICKINSON COMPLEX, 1 TO 4 PERCENT SLOPES	5	.32	56	2.5	150	0.280	NHEL
MN0300	887B	CLARION-SWANLAKE LOAMS, 1 TO 4 PERCENT SLOPES	5	.28	86	3.0	125	0.310	NHEL
IL0131	909C2	BOLD-TRUMAN SILT LOAMS, 5 TO 12 PERCENT SLOPES, ERODED	5	.43	86	9.0	125	1.310	PHEL*
IA0521	920B2	CLARION-ESTHERVILLE COMPLEX, 2 TO 6 PERCENT SLOPES, ERODED	5	.28	48	4.0	125	0.430	NHEL
IA0521	920C2	CLARION-ESTHERVILLE COMPLEX, 6 TO 12 PERCENT SLOPES, ERODED	5	.28	48	9.0	125	1.310	PHEL*
IA0521	921B2	CLARION-STORDEN LOAMS, 3 TO 6 PERCENT SLOPES, ERODED	5	.28	48	5.0	125	0.600	NHEL
IA0521	921C2	CLARION-STORDEN LOAMS, 6 TO 12 PERCENT SLOPES, ERODED	5	.28	48	9.0	125	1.310	PHEL*
MN0011	929	FIELDON-CANISTEO COMPLEX	4	.28	86	1.0	125	0.138	NHEL
MN0063	954B2	VES-STORDEN LOAMS, 3 TO 6 PERCENT SLOPES, ERODED	5	.28	86	5.0	125	0.600	NHEL
MN0063	954C2	STORDEN-VES LOAMS, 6 TO 15 PERCENT SLOPES, ERODED	5	.28	86	9.0	125	1.310	PHEL*
MN0059	956	CANISTEO-GLENCOE CLAY LOAMS	5	.24	86	1.0	100	0.129	NHEL
MN0063	960D2	STORDEN-CLARION LOAMS, 12 TO 18 PERCENT SLOPES, ERODED	5	.28	86	15.0	125	2.860	HEL
MN0025	999B2	VES-ESTHERVILLE COMPLEX, 2 TO 8 PERCENT SLOPES, ERODED	3	.20	86	5.0	125	0.600	PHEL**
NE0524	1016	UDORTHENTS, LOAMY	5	.28	86	2.0	100	0.201	NHEL
NE0520	1030	UDORTHENTS-PITS, GRAVEL COMPLEX	5	.10	134	10.0	25	0.685	NHEL
MN0444	1055	PALMS-GLENCOE COMPLEX, PONDED	5	-	-	0.5	100	0.100	NHEL
IA0079	1833	COLAND CLAY LOAM, OCCASIONALLY FLOODED	5	.24	48	1.0	125	0.138	NHEL
IA0079	1834	COLAND CLAY LOAM, FREQUENTLY FLOODED	5	.24	48	1.0	125	0.138	NHEL
MN0465	1907	LAKEFIELD SILTY CLAY LOAM	5	.32	38	1.0	150	0.146	NHEL
MI0421	1931	ESSEXVILLE SANDY LOAM	5	.20	86	1.0	100	0.130	NHEL
IA0099	1981	HANLON-KALMARVILLE COMPLEX, 0 TO 4 PERCENT SLOPES	5	.20	86	2.0	100	0.201	NHEL

HIGHLY ERODIBLE LAND CLASSIFICATION

NHEL = NOT HIGHLY ERODIBLE LAND
PHEL = POTENTIALLY HIGHLY ERODIBLE LAND AND REQUIRES A FIELD VISIT TO DETERMINE A REPRESENTATIVE SLOPE PERCENT AND LENGTH FOR FSA PURPOSES.
HEL = HIGHLY ERODIBLE LAND

* THESE PHEL MAP UNITS ARE CONSIDERED HEL BASED ON TYPICAL SLOPE PERCENTAGE AND LENGTH FOR DETERMINATIONS MADE IN THE OFFICE.
** THESE PHEL MAP UNITS ARE CONSIDERED NHEL BASED ON TYPICAL SLOPE PERCENTAGES AND LENGTH FOR DETERMINATIONS MADE IN THE OFFICE.
*** USE THE MOST LIMITING SOIL IN THE COMPLEX TO DETERMINE THE RATING. ONLY ONE RATING IS GIVEN FOR A COMPLEX.

HELC FOR WIND EROSION IS BASED ON THE C X I DIVIDED BY T IS EQUAL TO OR GREATER THAN 8.

HELC FOR WATER EROSION IS BASED ON THE R X K X LS DIVIDED BY T IS EQUAL TO OR GREATER THAN 8.