#FROZEN# HIGHLY ERODIBLE SOIL MAP UNIT LIST FOR
RENVILLE COUNTY
C = .18 R = 120

MARCH 29, 1993

RECORD NUMBER	MAP UNIT SYMBOL	MAP UNIT NAME	T	K	I	TYPICAL SLOPE PERCENT	TYPICAL SLOPE LENGTH	LS FACTOR	HELC CATEGORY
IA0078	27A	DICKINSON LOAM, 0 TO 2 PERCENT SLOPES	4	.20	56	1.0	100	0.129	NHEL
IA0078	27B	DICKINSON LOAM, 2 TO 6 PERCENT SLOPES	4	.20	56	4.0	125	0.430	NHEL
MN0064	35	BLUE EARTH MUCKY SILT LOAM	5	.28	86	0.5	100	0.096	NHEL
MN0038	39A	WADENA LOAM, 0 TO 2 PERCENT SLOPES	4	.24	48	2.0	100	0.201	NHEL
MN0038	39B	WADENA LOAM, 2 TO 6 PERCENT SLOPES	4	.24	48	4.0	125	0.430	NHEL
MN0025	41A	ESTHERVILLE LOAM, 0 TO 2 PERCENT SLOPES	3	.20	56	2.0	100	0.200	NHEL
MN0025	41B	ESTHERVILLE LOAM, 2 TO 6 PERCENT SLOPES	3	.20	56	4.0	125	0.430	NHEL
IA0075	85	CALCO SILTY CLAY LOAM, OCCASIONALLY FLOODED	5	.28	86	1.0	150	0.146	NHEL
MN0059	86	CANISTEO CLAY LOAM	5	.24	86	1.0	100	0.130	NHEL
IA0165	94B	TERRIL LOAM, 2 TO 6 PERCENT SLOPES	5	.24	48	5.0	150	0.660	NHEL
IA0165	94C	TERRIL LOAM, 6 TO 12 PERCENT SLOPES	5	.24	48	10.0	150	1.680	PHEL*
MN0058	100B	COPASTON LOAM, 2 TO 6 PERCENT SLOPES	2	.28	56	4.0	125	0.430	NHEL
IA0074	102B	CLARION LOAM, 2 TO 6 PERCENT SLOPES	5	.24	48	4.0	125	0.434	NHEL
MN0285	107	WINGER SILTY CLAY LOAM	5	.28	86	1.0	100	0.130	NHEL
MN0074	108	MCINTOSH SILT LOAM	5	.28	86	2.0	100	0.200	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	0.130	NHEL
IA0177	118	CRIPPIN LOAM	5	.24	86	1.0	100	0.129	NHEL
MN0012	128B	GROGAN SILT LOAM, 1 TO 4 PERCENT SLOPES	5	.32	56	4.0	150	0.470	NHEL
MN0034	130	NICOLLET CLAY LOAM	5	.24	48	2.0	150	0.227	NHEL
IA0131	134	OKOBOJI SILTY CLAY LOAM	5	.32	86	0.5	100	0.100	NHEL
MN0033	136	MADELIA SILTY CLAY LOAM	5	.28	38	1.0	100	0.130	NHEL
MN0093	140	SPICER SILTY CLAY LOAM	5	.28	86	1.0	100	0.130	NHEL
MN0194	156	FAIRHAVEN SILT LOAM	4	.32	48	1.0	200	0.159	NHEL
MN0032	211	LURA SILTY CLAY	5	.28	86	0.5	100	0.096	NHEL
MN0029	227	LEMOND LOAM	4	.24	86	1.0	150	0.146	NHEL
IA0176	247	LINDER LOAM	4	.24	56	1.0	150	0.146	NHEL
MN0197	255	MAYER LOAM	4	.24	86	1.0	160	0.149	NHEL
IL0222	269	MILLINGTON CLAY LOAM, OCCASIONALLY FLOODED	5	.28	86	1.0	150	0.146	NHEL
MN0028	282	HANSKA LOAM	4	.28	56	1.0	150	0.146	NHEL
IA0212	321	TILFER SILTY CLAY LOAM, OCCASIONALLY FLOODED	4	.28	86	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	150	0.470	NHEL
MN0105	327C	DICKMAN SANDY LOAM, 6 TO 12 PERCENT SLOPES	3	.20	86	9.0	125	1.310	PHEL*
MN0295	336	DELFT LOAM	5	.24	48	2.0	100	0.201	NHEL
MN0075	344	QUAM SILTY CLAY LOAM	5	.28	38	0.5	100	0.096	NHEL
IL0222	362	MILLINGTON SILT LOAM, FREQUENTLY FLOODED	5	.28	86	1.0	100	0.129	NHEL
IA0131	386	OKOBOJI MUCKY SILTY CLAY LOAM	5	.32	48	0.5	100	0.096	NHEL
MN0110	392	BISCAY LOAM	4	.28	48	2.0	150	0.227	NHEL
MN0156	421B	VES LOAM, 2 TO 6 PERCENT SLOPES	5	.24	48	4.0	200	0.528	NHEL
MN0154	423	SEAFORTH LOAM	5	.28	86	2.0	100	0.200	NHEL
MN0059	444	CANISTEO SILTY CLAY LOAM	5	.24	86	1.0	100	0.130	NHEL
MN0155	446	NORMANIA LOAM	5	.24	48	2.0	125	0.214	NHEL
MN0288	463A	MINNEISKA SILT LOAM, OCCASIONALLY FLOODED	5	.28	86	1.0	150	0.146	NHEL
MN0288	463B	MINNEISKA LOAM, 1 TO 4 PERCENT SLOPES, RARELY FLOODED	5	.28	86	2.5	150	0.260	NHEL
MN0599	519	KLOSSNER MUCK, CALCAREOUS	5	-	134	0.5	100	0.096	NHEL
WI0046	525	MUSKEGO MUCK	4	-	134	0.5	100	0.096	NHEL
MN0597	539	KLOSSNER MUCK	5	-	134	0.5	100	0.096	NHEL
IL0206	574	DU PAGE LOAM, OCCASIONALLY FLOODED	5	.28	48	1.0	150	0.146	NHEL
IA0155	575	NISHNA SILTY CLAY, OCCASIONALLY FLOODED	5	.37	86	1.0	100	0.096	NHEL

RECORD NUMBER	MAP UNIT SYMBOL	MAP UNIT NAME	T	K	I	TYPICAL SLOPE PERCENT	TYPICAL SLOPE LENGTH	LS FACTOR	HELC CATEGORY
MN0218	591B	DOLAND SILT LOAM, 2 TO 6 PERCENT SLOPES	5	.32	48	4.0	200	0.528	NHEL
MN0300	595F	SWANLAKE LOAM, 18 TO 50 PERCENT SLOPES	5	.28	86	35.0	125	11.500	HEL
MN0282	597	TARA SILT LOAM	5	.28	48	2.0	150	0.227	NHEL
IA0099	603	HANLON LOAM, RARELY FLOODED	5	.28	48	1.0	150	0.146	NHEL
IA0075	610	CALCO SILTY CLAY LOAM, FREQUENTLY FLOODED	5	.28	86	1.0	100	0.129	NHEL
MN0354	611B	HAWICK SANDY LOAM, 2 TO 6 PERCENT SLOPES	5	.10	86	4.0	125	0.430	NHEL
MN0288	745	MINNEISKA-CHASKA COMPLEX, FREQUENTLY FLOODED	5	.28	86	1.0	100	0.129	NHEL
MN0156	770C	VES-TERRIL COMPLEX, 6 TO 15 PERCENT SLOPES	5	.24	48	12.0	125	2.020	PHEL*
MN0059	817	CANISTEO-SEAFORTH COMPLEX	5	.28	86	1.0	100	0.130	NHEL
MN0285	847	WINGER-QUAM COMPLEX	5	.28	86	1.0	100	0.130	NHEL
MN0025	875C	HAWICK-ESTHERVILLE COMPLEX, 6 TO 12 PERCENT SLOPES	3	.20	86	9.0	125	1.310	PHEL*
MN0300	887B	CLARION-SWANLAKE COMPLEX, 2 TO 6 PERCENT SLOPES	5	.28	86	4.0	150	0.470	NHEL
MN0218	891B	DOLAND-SWANLAKE COMPLEX, 2 TO 6 PERCENT SLOPES	5	.32	48	4.0	150	0.470	NHEL
MN0154	897B	SEAFORTH-SWANLAKE COMPLEX, 2 TO 6 PERCENT SLOPES	5	.28	86	4.0	125	0.430	NHEL
IA0131	899	HARPS-OKOBOJI COMPLEX	5	.32	86	1.0	100	0.130	NHEL
IA0074	920B	CLARION-STORDEN-HAWICK COMPLEX, 2 TO 6 PERCENT SLOPES	5	.24	48	4.0	125	0.430	NHEL
IA0521	920C2	CLARION-STORDEN-HAWICK COMPLEX, 6 TO 12 PERCENT SLOPES, ERODED	5	.28	48	9.0	125	1.310	PHEL*
IA0521	921C2	CLARION-STORDEN COMPLEX, 6 TO 12 PERCENT SLOPES, ERODED	5	.28	48	9.0	125	1.310	PHEL*
MN0058	923E	COPASTON-ROCK OUTCROP COMPLEX, 0 TO 40 PERCENT SLOPES	2	.28	56	20.0	100	4.000	PHEL*
MN0154	927	HARPS-SEAFORTH-OKOBOJI COMLEX	5	.28	86	1.0	100	0.130	NHEL
MN0063	954C2	VES-STORDEN COMPLEX, 6 TO 12 PERCENT SLOPES, ERODED	5	.28	86	9.0	150	1.440	PHEL*
MN00063	954D2	STORDEN-VES COMPLEX, 12 TO 18 PERCENT SLOPES, ERODED	5	.28	86	14.0	125	2.560	HEL
MN0300	954B	VES-SWANLAKE COMPLEX, 2 TO 6 PERCENT SLOPES	5	.28	86	4.0	125	0.430	NHEL
MN0059	956	CANISTEO-GLENCOE COMPLEX	5	.24	86	1.0	100	0.130	NHEL
MN0063	960D2	STORDEN-CLARION COMPLEX, 12 TO 18 PERCENT SLOPES, ERODED	5	.28	86	14.0	125	2.560	HEL
MN0024	978	CORDOVA-ROLFE COMPLEX	5	.28	48	1.0	100	0.129	NHEL
MN0063	999C2	VES-STORDEN-HAWICK COMPLEX, 6 TO 12 PERCENT SLOPES, ERODED	5	.28	86	9.0	150	1.440	PHEL*
MN0300	999B	VES-SWANLAKE-HAWICK COMPLEX, 2 TO 6 PERCENT SLOPES	5	.28	86	4.0	150	0.470	NHEL
NE0520	1030	UDORTHENTS-PITS, GRAVEL COMPLEX	5	.10	134	10.0	25	0.685	NHEL
MN0600	1080	KLOSSNER-OKOBOJI-GLENCOE COMPLEX, PONDED	5	.37	-	0.5	100	0.096	NHEL
	1162A	KANDIYOHI SLITY CLAY LOAM	5	.28	86	2.0	120	0.211	NHEL
	1169	CORVUSO-LURA COMPLEX	5	.28	86	1.0	100	0.129	NHEL
	1184	CORVUSO SILTY CLAY LOAM	5	.28	86	1.0	100	0.130	NHEL
MN0676	1193	COSMOS SILTY CLAY	5	.28	86	1.0	100	0.130	NHEL
IA0312	1802	CALCOUSTA-QUAM COMPLEX	5	.28	86	1.0	100	0.129	NHEL
IA0079	1833	COLAND CLAY LOAM, OCCASIONALLY FLOODED	5	.24	48	1.0	150	0.146	NHEL
IA0079	1834	COLAND CLAY LOAM, FREQUENTLY FLOODED	5	.24	48	1.0	100	0.129	NHEL
MN0300	1852F	SWANLAKE-TERRIL COMPLEX, 18 TO 50 PERCENT SLOPES	5	.28	86	35.0	125	11.500	HEL
IA0131	1900	OKOBOJI-CANISTEO COMPLEX	5	.37	48	1.0	100	0.129	NHEL
IA0326	1917	NISHNA SILTY CLAY LOAM, FREQUENTLY FLOODED	5	.37	86	1.0	100	0.129	NHEL
MN0694	1958	DANUBE SILTY CLAY	5	.32	48	1.0	200	0.159	NHEL
MN0288	1999	MINNEISKA-KALMARVILLE COMPLEX, FREQUENTLY FLOODED	5	.20	86	1.0	100	0.130	NHEL

- FOR NEW MAP UNIT NAMES AND SYMBOLS ADDED SINCE THE ABOVE LIST WAS FROZEN, SEE THE ADDENDUM BELOW!!

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HIGHLY ERODIBLE SOIL MAP UNIT LIST FOR
RENVILLE COUNTY, MN [ADDENDUM]
D. E. MILLER
APPROVED BY J. W. MCCLOSKEY
C = .18 R = 120
(A)APPENDED 5/97 DATE 6-97

RECORD NUMBER	MAP UNIT SYMBOL	MAP UNIT NAME	T	K	I	TYPICAL SLOPE PERCENT	TYPICAL SLOPE LENGTH	LS FACTOR	HELC + CATEGORY
MN0064	35	BLUE EARTH MUCKY SILT LOAM, 0 TO 1 PERCENT SLOPES	5	.28	86	0.5	100	0.096	NHEL
IA0075	85	CALCO SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES, OCC. FL.	5	.28	86	1.0	150	0.146	NHEL
MN0059	86	CANISTEO CLAY LOAM, MOD. FINE SUB., 0 TO 2 PERCENT SLOPES	5	.24	86	1.0	100	0.130	NHEL
IA0688	102B	CLARION LOAM, MOD. FINE SUB., 2 TO 5 PERCENT SLOPES	5	.24	48	4.0	125	0.434	NHEL
IA0692	112	HARPS CLAY LOAM, 0 TO 2 PERCENT SLOPES	5	.24	86	1.0	100	0.130	NHEL
IA0691	113	WEBSTER CLAY LOAM, 0 TO 2 PERCENT SLOPES	5	.24	48	1.0	100	0.130	NHEL
IA0690	118	CRIPPIN LOAM, MOD. FINE SUB., 1 TO 3 PERCENT SLOPES	5	.24	86	1.0	100	0.129	NHEL
MN0012	128C2	GROGAN SILT LOAM, 6 TO 15 PERCENT SLOPES, ERODED	5	.32	56	9.0	125	1.310	PHEL*
MN0034	130	NICOLLET CLAY LOAM, 1 TO 3 PERCENT SLOPES	5	.24	48	2.0	150	0.227	NHEL
IA0131	134	OKOBOJI SILTY CLAY LOAM, DEP., 0 TO 1 PERCENT SLOPES	5	.32	86	0.5	100	0.100	NHEL
MN0194	156	FAIRHAVEN SILT LOAM, 0 TO 2 PERCENT SLOPES	4	.32	48	1.0	200	0.159	NHEL
MN0032	211	LURA SILTY CLAY, DEP., 0 TO 1 PERCENT SLOPES	5	.28	86	0.5	100	0.096	NHEL
MN0029	227	LEMOND LOAM, 0 TO 2 PERCENT SLOPES	4	.24	86	1.0	150	0.146	NHEL
IA0176	247	LINDER LOAM, 0 TO 2 PERCENT SLOPES	4	.24	56	1.0	150	0.146	NHEL
MN0197	255	MAYER LOAM, 0 TO 2 PERCENT SLOPES	4	.24	86	1.0	160	0.149	NHEL
MN0028	282	HANSKA LOAM, 0 TO 2 PERCENT SLOPES	4	.28	56	1.0	150	0.146	NHEL
MN0314	318	MAYER CLAY LOAM, DEP., 0 TO 1 PERCENT SLOPES	4	.24	86	1.0	50	0.105	NHEL
MN0295	336	DELFT LOAM, 1 TO 3 PERCENT SLOPES	5	.24	48	2.0	100	0.201	NHEL
IA0131	386	OKOBOJI MUCKY SILTY CLAY LOAM, DEP., 0 TO 1 PERCENT SLOPES	5	.32	48	0.5	100	0.096	NHEL
MN0110	392	BISCAY LOAM, 0 TO 2 PERCENT SLOPES	4	.28	48	2.0	150	0.227	NHEL
MN0154	423	SEAFORTH LOAM, 1 TO 3 PERCENT SLOPES	5	.28	86	2.0	100	0.200	NHEL
MN0155	446	NORMANIA LOAM, 1 TO 3 PERCENT SLOPES	5	.24	48	2.0	125	0.214	NHEL
MN0288	463A	MINNEISKA SILT LOAM, 0 TO 2 PERCENT SLOPES, OCC. FL.	5	.28	86	1.0	150	0.146	NHEL
MN0599	519	KLOSSNER MUCK, DEP., CAL., 0 TO 1 PERCENT SLOPES	5	-	134	0.5	100	0.096	NHEL
WI0046	525	MUSKEGO MUCK, DEP., 0 TO 1 PERCENT SLOPES	4	-	134	0.5	100	0.096	NHEL
MN0597	539	KLOSSNER MUCK, DEP., 0 TO 1 PERCENT SLOPES	5	-	134	0.5	100	0.096	NHEL
IL0206	574	DU PAGE LOAM, 0 TO 2 PERCENT SLOPES, OCC. FLOODED	5	.28	48	1.0	150	0.146	NHEL
IA0155	575	NISHNA SILTY CLAY, 0 TO 2 PERCENT SLOPES, OCC. FLOODED	5	.37	86	1.0	100	0.096	NHEL
IA0075	610	CALCO SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES, FREQ. FLOODED	5	.28	86	1.0	100	0.129	NHEL
MN0156	770C2	VES-TERRIL COMPLEX, 6 TO 15 PERCENT SLOPES, ERODED	5	.24	48	12.0	125	2.020	PHEL*
MN0393	810	CORIFF-FIELDON COMPLEX, 0 TO 2 PERCENT SLOPES	5	.28	86	1.0	100	0.129	NHEL
MN0059	817	CANISTEO-SEAFORTH COMPLEX, 0 TO 3 PERCENT SLOPES	5	.28	86	1.0	100	0.130	NHEL
IA0131	899	HARPS-OKOBOJI, DEP. COMPLEX, 0 TO 2 PERCENT SLOPES	5	.32	86	1.0	100	0.130	NHEL
MN0131	927	HARPS-SEAFORTH-OKOBOJI, DEP. COMPLEX, 0 TO 3 PERCENT SLOPES	5	.28	86	1.0	100	0.130	NHEL
MN0026	956	CANISTEO-GLENCOE, DEP. COMPLEX, 0 TO 2 PERCENT SLOPES	5	.24	86	1.0	100	0.130	NHEL
MN0063	960D2	STORDEN-OMSRUD COMPLEX, 12 TO 18 PERCENT SLOPES, ERODED	5	.28	86	14.0	125	2.560	HEL
MN0063	960F	STORDEN-OMSRUD COMPLEX, 18 TO 50 PERCENT SLOPES	5	.28	86	25.0	100	6.000	HEL
IA0159	978	CORDOVA-ROLFE, DEP. COMPLEX, 0 TO 2 PERCENT SLOPES	5	.28	48	1.0	100	0.129	NHEL
MN0712	1030	PITS, GRAVEL-UDIPSAMMENTS COMPLEX	5	.10	134	10.0	25	0.685	NHEL
MN0600	1080	KLOSSNER, OKOBOJI, AND GLENCOE SOILS, PD, 0 TO 1 PERCENT SLOPES	5	.37	-	0.5	100	0.096	NHEL
MN0034	1100	NICOLLET SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES	5	.24	38	2.0	100	0.201	NHEL
IA0072	1101	WEBSTER SILTY CLAY LOAM, MOD. FINE SUB., 0 TO 2 PERCENT SLOPES	5	.28	38	2.0	100	0.201	NHEL
MN0675	1159B	STROUT-ARKTON COMPLEX, 2 TO 6 PERCENT SLOPES	5	.28	86	4.0	150	0.471	NHEL
MN0686	1162A	KANDIYOHI CLAY, 0 TO 2 PERCENT SLOPES	5	.28	86	2.0	120	0.211	NHEL
MN0032	1169	CORVUSO-LURA, DEP. COMPLEX, 0 TO 2 PERCENT SLOPES	5	.28	86	1.0	100	0.129	NHEL
MN0676	1193	COSMOS SILTY CLAY, 0 TO 2 PERCENT SLOPES	5	.28	86	1.0	100	0.130	NHEL
MN0828	1205	LEEN-OKOBOJI, DEP. COMPLEX, 0 TO 2 PERCENT SLOPES	5	.28	86	1.0	100	0.130	NHEL
MN0300	1242F	SWANLAKE-TERRIL COMPLEX, 18 TO 50 PERCENT SLOPES	5	.28	86	35.0	125	11.500	HEL

RECORD NUMBER	MAP UNIT SYMBOL	MAP UNIT NAME	T	K	I	TYPICAL SLOPE PERCENT	TYPICAL SLOPE LENGTH	LS FACTOR	HELC + CATEGORY
MN0751	1261B	BECHYN LOAM, 2 TO 6 PERCENT SLOPES	2	.28	56	4.0	125	0.430	NHEL
MN0154	1262	SEAFORTH SILT LOAM, 1 TO 3 PERCENT SLOPES	5	.28	86	2.0	100	0.200	NHEL
MN0752	1267	CEDARROCK SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES, FREQ. FL.	4	.28	86	1.0	150	0.146	NHEL
IA0099	1268	HANLON LOAM, 1 TO 3 PERCENT SLOPES, RARELY FLOODED	5	.28	48	1.0	150	0.146	NHEL
MN0392	1269	LOWLEIN SILT LOAM, 0 TO 2 PERCENT SLOPES	5	.28	56	1.0	100	0.129	NHEL
MN0751	1270D	BECHYN-ROCK OUTCROP COMPLEX, 0 TO 40 PERCENT SLOPES	2	.28	56	20.0	100	4.000	PHEL*
MN0748	1285	CHETOMBA SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES	5	.28	38	1.0	100	0.130	NHEL
MN0749	1286	PRINSBURG SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES	5	.28	86	1.0	100	0.130	NHEL
IA0075	1287	CALCO SILTY CLAY LOAM, PONDED, 0 TO 1 PERCENT SLOPES FREQ. FL.	5	.28	86	1.0	100	0.129	NHEL
MN0300	1355B	AMIRET-SWANLAKE COMPLEX, 2 TO 6 PERCENT SLOPES	5	.24	86	4.0	125	0.430	NHEL
MN0827	1369A	CROOKSFORD SILT LOAM, 1 TO 3 PERCENT SLOPES	5	.28	48	2.0	150	0.227	NHEL
MN0827	1369B	CROOKSFORD SILT LOAM, 3 TO 5 PERCENT SLOPES	5	.28	48	4.0	200	0.528	NHEL
MN0809	1370B	AMIRET LOAM, 2 TO 5 PERCENT SLOPES	5	.24	48	4.0	200	0.528	NHEL
MN0827	1371B	CROOKSFORD-SWANLAKE COMPLEX, 3 TO 6 PERCENT SLOPES	5	.28	48	4.0	150	0.470	NHEL
MN0063	1373C	OMSRUD-STORDEN-HAWICK COMPLEX, 6 TO 12 PERCENT SLOPES, ER.	5	.28	48	9.0	125	1.310	PHEL*
IA0313	1374	HAVELOCK CLAY LOAM, 0 TO 2 PERCENT SLOPES, OCC. FL.	5	.28	86	1.0	150	0.146	NHEL
MN0063	1375D	STORDEN-VES COMPLEX, 12 TO 18 PERCENT SLOPES, ERODED	5	.28	86	14.0	125	2.560	HEL
MN0063	1376C	OMSRUD-STORDEN COMPLEX, 6 TO 12 PERCENT SLOPES, ERODED	5	.28	48	9.0	125	1.310	PHEL*
MN0829	1382	LOURIS SILT LOAM, 1 TO 3 PERCENT SLOPES	5	.28	86	2.0	100	0.200	NHEL
MN0300	1386B	AMIRET-SWANLAKE-HAWICK COMPLEX, 2 TO 6 PERCENT SLOPES	5	.24	86	4.0	150	0.470	NHEL
IA0694	1388B	TERRIL LOAM, MODERATELY WET, 2 TO 6 PERCENT SLOPES	5	.24	48	5.0	150	0.660	NHEL
IA0313	1389	HAVELOCK SILT LOAM, 0 TO 2 PERCENT SLOPES, FREQ. FL.	5	.28	86	1.0	100	0.129	NHEL
MN0828	1390	LEEN SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES	5	.28	86	1.0	100	0.130	NHEL
MN0471	1392B	GROGAN SILT LOAM, MOD. WET, 1 TO 4 PERCENT SLOPES	5	.32	56	4.0	150	0.470	NHEL
IA0312	1802	CALCOUSTA-OKOBOJI, DEP. COMPLEX, 0 TO 1 PERCENT SLOPES	5	.28	86	1.0	100	0.129	NHEL
IA0079	1833	COLAND CLAY LOAM, 0 TO 2 PERCENT SLOPES, OCC. FL.	5	.24	48	1.0	150	0.146	NHEL
IA0079	1834	COLAND CLAY LOAM, 0 TO 2 PERCENT SLOPES, FREQ. FL.	5	.24	48	1.0	100	0.129	NHEL
MN0025	1845A	ESTHERVILLE LOAM, 0 TO 2 PERCENT SLOPES	3	.20	56	2.0	100	0.200	NHEL
MN0025	1845B	ESTHERVILLE LOAM, 2 TO 6 PERCENT SLOPES	3	.20	56	4.0	125	0.430	NHEL
IA0131	1900	OKOBOJI-CANISTEO COMPLEX, DEP., 0 TO 1 PERCENT SLOPES	5	.37	48	1.0	100	0.129	NHEL
IA0326	1917	NISHNA SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES, FREQ. FL.	5	.37	86	1.0	100	0.129	NHEL
MN0694	1958	DANUBE SILTY CLAY, 0 TO 2 PERCENT SLOPES	5	.32	48	1.0	200	0.159	NHEL
MN0750	1999	MINNEISKA-RUSHRIVER COMPLEX, 0 TO 2 PERCENT SLOPES, FREQ. FL.	5	.20	86	1.0	100	0.130	NHEL

THE ABOVE LIST IS APPENDED TO THE FROZEN HEL LIST DATED MARCH 29, 1993 WHICH USED TECHNOLOGY [USLE -T'S, K'S, & I'S] IN EFFECT ON JANUARY 1, 1990. THE T'S, K'S, AND I'S ON THIS LIST MAY NOT MATCH CURRENT TECHNOLOGY.

UNDER NO CIRCUMSTANCES WILL THE SOIL MAP UNITS FROM THE FROZEN LIST HAVE THEIR CLASSIFICATION CHANGED. ONCE A FIELD HAS BEEN DETERMINED HEL, IT REMAINS HEL UNTIL CONGRESS THAWS (UNFREEZES) THESE LISTS.

+ HIGHLY ERODIBLE LAND CLASSIFICATION

(A) HEL LIST APPENDED 5/97 AS PER CLASSIFICATION AND CORRELATION OF THE SOILS OF RENVILLE COUNTY, MN. NOVEMBER 1995

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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.