

Highly Erodible Soil Map Unit List - Kandiyohi County, MN

C= 0.18

R= 120

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.

Mapunit Symbol	Mapunit Name	HEL	T	K	I	Slope Percent	Slope Length	LS
17	Minneopa sandy loam	NHEL	3	0.28	86	1.00	100	0.13
27B	Sverdrup sandy loam, 2 to 6 percent slopes	NHEL	4	0.20	86	3.50	150	0.39
33B	Hokans-Svea complex, 1 to 4 percent slopes	NHEL	5	0.24	48	3.50	125	0.37
35	Blue Earth mucky silt loam, 0 to 1 percent slopes	NHEL	5	0.28	86	0.50	100	0.10
39	Renshaw loam, 0 to 2 percent slopes	NHEL	4	0.24	48	2.00	150	0.23
41A	ESTHERVILLE COARSE SANDY LOAM, 0 TO 3 PERCENT SLOPES	NHEL	3	0.20	86	1.50	150	0.19
84	BROWNTON SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES	NHEL	5	0.28	86	1.00	100	0.13
94	TERRIL LOAM	NHEL	5	0.24	48	2.00	100	0.20
106B	LESTER LOAM, 2 TO 6 PERCENT SLOPES	NHEL	5	0.28	48	5.00	125	0.60
110	Marna silty clay loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1.00	100	0.13
112	HARPS CLAY LOAM, 0 to 2 percent slopes	NHEL	5	0.24	86	2.00	100	0.20

Mapunit Symbol	Mapunit Name	HELK	T	K	I	Slope Percent	Slope Length	LS
114	Glencoe clay loam, 0 to 1 percent slopes	NHEL	5	0.28	48	1.00	100	0.13
130A	NICOLLET SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES	NHEL	5	0.24	38	2.00	125	0.21
130B	NICOLLET CLAY LOAM, 2 TO 5 PERCENT SLOPES	NHEL	5	0.24	48	3.50	125	0.37
140	Spicer silty clay loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1.00	100	0.13
230A	Guckeen silty clay loam, 1 to 3 percent slopes	NHEL	5	0.28	86	1.00	150	0.15
230B	Kamrar clay loam, 2 to 6 percent slopes	NHEL	5	0.28	86	4.00	125	0.43
238B	KILKENNY CLAY LOAM, 2 TO 6 PERCENT SLOPES	NHEL	5	0.28	48	4.00	125	0.43
238C	KILKENNY CLAY LOAM, 6 TO 12 PERCENT SLOPES	PHEL	5	0.28	48	9.00	125	1.31
258C	Sandberg gravelly sandy loam, 6 to 30 percent slopes	PHEL	5	0.10	134	16.00	150	3.75
392	BISCAY LOAM	NHEL	4	0.28	48	2.00	150	0.23
399	BISCAY CLAY LOAM, DEPRESSIONAL, 0 TO 1 PERCENT SLOPES	NHEL	4	0.28	48	1.00	100	0.13
413	OSAKIS SANDY LOAM, 0 to 2 PERCENT SLOPES	NHEL	3	0.28	86	1.00	100	0.13
423	Seaforth loam, 1 to 3 percent slopes	NHEL	5	0.28	86	2.00	100	0.20
444	Canisteo clay loam, 0 to 2 percent slopes	NHEL	5	0.24	86	1.00	100	0.13
446A	NORMANIA LOAM, 0 TO 2 PERCENT SLOPES	NHEL	5	0.24	48	2.00	125	0.21

Mapunit Symbol	Mapunit Name	HELK	T	K	I	Slope Percent	Slope Length	LS
446B	NORMANIA LOAM, 2 TO 5 PERCENT SLOPES	NHEL	5	0.24	48	3.50	125	0.37
447	HARPSTER SILTY CLAY LOAM	NHEL	5	0.28	86	2.00	100	0.20
462E	Sisseton-Esmond complex, 12 TO 40 percent slopes	HEL	5	0.24	86	21.00	125	4.60
523	Houghton muck, 0 to 1 percent slopes	NHEL	5		134	1.00	100	0.13
525	MUSKEGO MUCK	NHEL	4		134	5.00	100	0.54
539	Cathro muck, occasionally ponded, 0 to 1 percent slopes	NHEL	5		134	1.00	100	0.13
548	PALMS MUCK, SANDY SUBSTRATUM	NHEL	5		134	1.00	100	0.13
559	LENA MUCK	NHEL	5		134	1.00	100	0.13
566	REGAL LOAM	NHEL	3	0.24	86	1.00	100	0.13
613	GROVECITY LOAM	NHEL	5	0.20	56	2.00	100	0.20
804B	KORONIS-HAWICK COMPLEX, 2 TO 6 PERCENT SLOPES	NHEL	5	0.24	86	4.00	150	0.47
804C	KORONIS-HAWICK COMPLEX, 6 TO 12 PERCENT SLOPES	PHEL	5	0.24	86	10.00	175	1.81
804D	KORONIS-HAWICK COMPLEX, 12 TO 20 PERCENT SLOPES	HEL	5	0.24	86	16.00	150	3.48
804E	KORONIS-HAWICK COMPLEX, 20 TO 30 PERCENT SLOPES	HEL	5	0.24	86	25.00	150	7.00
805B	Esmond-Heimdal-Sisseton complex, 2 to 6 percent slopes	NHEL	5	0.24	56	4.00	125	0.43

Mapunit Symbol	Mapunit Name	HELIC	T	K	I	Slope Percent	Slope Length	LS
805C	Esmond-Sisseton-Heimdal complex, 2 to 12 percent slopes, moderately eroded	PHEL	5	0.24	86	10.00	125	1.53
805D	Sisseton-Esmond-Heimdal complex, 6 to 12 percent slopes, moderately eroded	HEL	5	0.24	86	15.00	150	3.13
806C	GUCKEEN-ARKTON COMPLEX, 4 TO 12 PERCENT SLOPES	PHEL	5	0.28	86	9.00	125	1.31
807B	Waukon-Langhei complex, 2 to 6 percent slopes	NHEL	5	0.24	86	4.00	150	0.47
807C	Waukon, moderately eroded-Langhei complex, 6 to 12 percent slopes	PHEL	5	0.24	86	10.00	125	1.53
807D	Waukon, moderately eroded-Langhei complex, 12 to 20 percent slopes	HEL	5	0.24	86	16.00	125	3.48
809	LOWLEIN-ESTHERVILLE SANDY LOAMS	NHEL	5	0.20	86	2.00	100	0.20
810	CORIFF-FIELDON COMPLEX	NHEL	5	0.28	86	1.00	100	0.13
817	Canisteo-Seaforth complex, 0 to 3 percent slopes	NHEL	5	0.24	86	2.00	100	0.20
819B	REGAL-HAWICK COMPLEX, 0 TO 4 PERCENT SLOPES	NHEL	3	0.24	86	2.00	125	0.21
833B	WADENILL-SUNBURG-HAWICK COMPLEX, 2 TO 6 PERCENT SLOPES	NHEL	5	0.24	56	4.00	125	0.43
833C	SUNBURG-WADENILL-HAWICK COMPLEX, 6 TO 12 PERCENT SLOPES	PHEL	5	0.24	86	10.00	125	1.53
833D	SUNBURG-WADENILL-HAWICK COMPLEX, 12 TO 18 PERCENT SLOPES	HEL	5	0.24	86	15.00	125	2.86
833E	SUNBURG-WADENILL-HAWICK COMPLEX, 18 TO 35 PERCENT SLOPES	HEL	5	0.24	86	25.00	150	7.00
842	URBANLAND-UDORTHENTS COMPLEX	NHEL	5	0.28	86	2.00	100	0.20

Mapunit Symbol	Mapunit Name	HELC	T	K	I	Slope Percent	Slope Length	LS
875B	ESTHERVILLE-HAWICK COMPLEX, 2 TO 6 PERCENT SLOPES	NHEL	3	0.20	86	4.00	125	0.43
875C	HAWICK-ESTHERVILLE COMPLEX, 6 TO 12 PERCENT SLOPES	NHEL	5	0.10	86	9.00	125	1.31
897B	SEAFORTH-SWANLAKE LOAMS, 2 TO 6 PERCENT SLOPES	NHEL	5	0.28	86	4.00	150	0.47
899	Harps-Okobojo complex, 0 to 2 percent slopes	NHEL	5	0.24	86	1.00	100	0.13
927	Harps-Glencoe-Seaforth complex, 0 to 3 percent slopes	NHEL	5	0.24	86	1.00	100	0.13
954B	Hokans-Buse complex, 2 to 6 percent slopes	NHEL	5	0.28	86	4.00	125	0.43
954C	SWANLAKE-VES LOAMS, 6 TO 12 PERCENT SLOPES	PHEL	5	0.28	86	9.00	150	1.44
954D	SWANLAKE-VES LOAMS, 12 TO 18 PERCENT SLOPES	HEL	5	0.28	86	15.00	150	3.13
981	CANISTEO-HARPS LOAMS	NHEL	5	0.32	86	1.00	100	0.13
999B	VES-SWANLAKE-HAWICK COMPLEX, 2 TO 6 PERCENT SLOPES	NHEL	5	0.28	86	4.00	125	0.43
999C	SWANLAKE-VES-HAWICK COMPLEX, 6 TO 12 PERCENT SLOPES	PHEL	5	0.28	86	9.00	125	1.31
1016	UDORTHENTS, LOAMY	NHEL	5	0.28	86	2.00	100	0.20
1029	PITS, GRAVEL	NHEL	5	0.10		10.00	25	0.69
1055	AQUOLLS AND HISTOSOLS, PONDED	NHEL	5	0.37	86	0.50	100	0.10
1065B	AQUOLLS AND HISTOSOLS, SLOPING	NHEL	5	0.37	86	3.50	100	0.36

Mapunit Symbol	Mapunit Name	HELIC	T	K	I	Slope Percent	Slope Length	LS
1356	WATER, MISC.							
1900	Okoboji-Canisteo depressional complex, 0 to 1 percent slopes	NHEL	5	0.32	86	1.00	100	0.13
1908	BISCAY-PALMS COMPLEX	NHEL	4	0.28	48	1.00	100	0.13
D8E	Sandberg loamy coarse sand, 6 to 30 percent slopes	HEL	5	0.10	134	27.50	150	8.50
D105	Arvilla sandy loam, 0 to 2 percent slopes	NHEL	3	0.20	86	1.50	150	0.19
D540	Seelyeville-Seelyeville, ponded, complex, 0 to 1 percent slopes	NHEL	5	0.00	134	1.00	100	0.13
J17A	Quam silty clay loam, occasionally ponded, 0 to 1 percent slopes	NHEL	5	0.28	38	1.00	100	0.13
J26B	Darnen loam, 1 to 6 percent slopes	NHEL	5	0.24	48	2.00	100	0.20
J36C2	Langhei-Barnes, moderately eroded, complex, 6 to 12 percent slopes	PHEL	5	0.32	48	9.00	150	1.40
J37D2	Langhei-Barnes, moderately eroded, complex, 12 to 20 percent slopes	HEL	5	0.32	86	15.00	100	2.50
J43A	Quam, Cathro, and Urness soils, frequently ponded, 0 to 1 percent slopes	NHEL	5	0.37	86	0.50	100	0.10
J49A	Lakepark-Parnell, occasionally ponded, complex, 0 to 2 percent slopes	NHEL	5	0.28	38	1.00	100	0.13
L6A	BISCAY CLAY LOAM, 0 TO 2 PERCENT SLOPES	NHEL	4	0.28	48	2.00	150	0.23
L13A	KLOSSNER MUCK, DEPRESSIONAL, 0 TO 1 PERCENT SLOPES	NHEL	5		134	1.00	100	0.13
L33A	KANDIYOHI CLAY, 0 TO 2 PERCENT SLOPES	NHEL	5	0.28	86	4.00	125	0.43

Mapunit Symbol	Mapunit Name	HELC	T	K	I	Slope Percent	Slope Length	LS
L33B	KANDIYOHI CLAY 2 TO 5 PERCENT SLOPES	NHEL	5	0.28	86	1.00	150	0.15
L34A	COSMOS SILTY CLAY, 0 TO 2 PERCENT SLOPES	NHEL	5	0.28	86	1.00	100	0.13
L83	WEBSTER CLAY LOAM, 0 TO 2 PERCENT SLOPES	NHEL	4	0.28	48	1.00	100	0.13
L163A	OKOBOJI SILTY CLAY LOAM, DEPRESSIONAL, 0 TO 1 PERCENT SLOPES	NHEL	5	0.32	86	0.50	100	0.10
L164A	LURA SILTY CLAY, DEPRESSIONAL, FIRM SUBSTRATUM, 0 TO 1 PERCENT SLOPES	NHEL	5	0.32	86	0.50	100	0.10
L166C2	NEWLONDON-STROUT COMPLEX, 6 TO 12 PERCENT SLOPES, MODERATELY ERODED	PHEL	5	0.28	86	9.00	125	1.31
L166D2	NEWLONDON-STROUT COMPLEX, 12 TO 18 PERCENT SLOPES, MODERATELY ERODED	HEL	5	0.28	86	15.00	150	3.13
L184A	CORVUSO SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES	NHEL	5	0.28	86	1.00	100	0.13
L185B	STROUT-ARKTON COMPLEX, 2 TO 6 PERCENT SLOPES	NHEL	5	0.28	86	4.00	125	0.43
L186A	DANIELSON-DANIELSON, OVERWASH COMPLEX, 1 TO 4 PERCENT SLOPES	NHEL	5	0.28	86	4.00	125	0.43
L187A	KLOSSNER FIRM SUBSTRATUM AND LURA SOILS, PONDED, FIRM SUBSTRATUM, 0 TO 1 PERCENT SLOPES	NHEL	5	0.32	86	0.50	100	0.10
L191A	BLUE EARTH, HOUGHTON AND KLOSSNER SOILS, PONDED, FIRM SUBSTRATUM, 0 TO 1 PERCENT SLOPES	NHEL	5	0.28	86	0.50	100	0.10
L192A	OKOBOJI MUCKY SILTY CLAY LOAM, DEPRESSIONAL, FIRM SUBSTRATUM, 0 TO 1 PERCENT SLOPES	NHEL	5	0.32	86	0.50	100	0.10
L195A	HOUGHTON-KLOSSNER, DEPRESSIONAL, FIRM SUBSTRATUM, COMPLEX, 0 TO 1 PERCENT SLOPES	NHEL	5		134	1.00	100	0.13
L199A	MUSKEGO-KLOSSNER, DEPRESSIONAL, FIRM SUBSTRATUM, COMPLEX, 0 TO 1 PERCENT SLOPES	NHEL	4		134	5.00	100	0.54

Mapunit Symbol	Mapunit Name	HELIC	T	K	I	Slope Percent	Slope Length	LS
L200A	KLOSSNER MUCK, DEPRESSIONAL, FIRM SUBSTRATUM, 0 TO 1 PERCENT SLOPES	NHEL	4		134	5.00	100	0.54
L201A	NORMANIA LOAM, 0 TO 3 PERCENT SLOPES	NHEL	5	0.24	48	2.00	125	0.21
L223B	AMIRET-SWANLAKE LOAMS, 0 TO 6 PERCENT SLOPES	NHEL	5	0.28	86	4.00	125	0.43
L307B	KORONIS LOAM, 2 TO 6 PERCENT SLOPES	NHEL	5	0.24	86	4.00	150	0.47
L307C2	Koronis loam, 6 to 10 percent slopes, moderately eroded	PHEL	5	0.24	86	10.00	125	1.53
L307E	KORONIS LOAM, 18 TO 40 PERCENT SLOPES	HEL	5	0.24	86	25.00	150	7.00
L315C2	SUNBURG-WADENILL-HAWICK COMPLEX, 6 TO 12 PERCENT SLOPES, MODERATELY ERODED	PHEL	5	0.24	86	10.00	125	1.53
L315D2	SUNBURG-WADENILL-HAWICK COMPLEX, 12 TO 18 PERCENT SLOPES, MODERATELY ERODED	HEL	5	0.24	86	15.00	125	2.86
L315E	SUNBURG-WADENILL-HAWICK COMPLEX, 18 TO 35 PERCENT SLOPES	HEL	5	0.24	86	25.00	150	7.00
L316B	HAPLOSAPRISTS, CALCAREOUS-AQUOLLS COMPLEX, 1 TO 6 PERCENT SLOPES	NHEL	5	0.37	86	3.50	100	0.36
L317A	BARRY LOAM, 0 TO 2 PERCENT SLOPES	NHEL	5	0.28	38	2.00	100	0.20
L318A	LUNDLAKE SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES	NHEL	5	0.28	48	1.00	100	0.13
L321A	SWEDEGROVE LOAM, 0 TO 2 PERCENT SLOPES	NHEL	5	0.32	86	1.00	100	0.13
L322A	UNIONGROVE LOAM, 0 TO 2 PERCENT SLOPES	NHEL	5	0.28	38	2.00	100	0.20
L323A	CROWRIVER LOAM, 0 TO 2 PERCENT SLOPES	NHEL	5	0.24	86	2.00	100	0.20



Mapunit Symbol	Mapunit Name	HELIC	T	K	I	Slope Percent	Slope Length	LS
L324A	FORESTCITY, OVERWASH-FORESTCITY COMPLEX, 1 to 4 PERCENT SLOPES	NHEL	5	0.24	48	2.00	100	0.20
L325A	CROWRIVER-LUNDLAKE COMPLEX, 0 TO 2 PERCENT SLOPES	NHEL	5	0.24	86	2.00	100	0.20
L330A	MUSKEGO, BLUE EARTH AND HOUGHTON SOILS, LUNDLAKE CATENA, 0 TO 1 PERCENT SLOPES, PONDED	NHEL	5		86	0.50	100	0.10
L331A	KLOSSNER MUCK, LUNDLAKE CATENA, 0 TO 1 PERCENT SLOPES	NHEL	5		134	1.00	100	0.13
L332A	BLUE EARTH MUCKY SILT LOAM, LUNDLAKE CATENA, 0 TO 1 PERCENT SLOPES	NHEL	5	0.28	86	0.50	100	0.10
L333A	BLUE EARTH SOILS, LUNDLAKE CATENA, 0 TO 1 PERCENT SLOPES	NHEL	5	0.28	86	0.50	100	0.10
L334A	HOUGHTON AND MUSKEGO SOILS, LUNDLAKE CATENA, 0 TO 1 PERCENT SLOPES	NHEL	5		134	1.00	100	0.13
L335A	KLOSSNER SOILS, LUNDLAKE CATENA, 0 TO 1 PERCENT SLOPES	NHEL	5		134	1.00	100	0.13
L336A	ARCTANDER, OVERWASH-ARCTANDER COMPLEX, 1 to 4 PERCENT SLOPES	NHEL	5	0.24	48	2.00	100	0.20
L337B	WADENILL-SUNBURG COMPLEX, 2 TO 6 PERCENT SLOPES	NHEL	5	0.24	56	4.00	125	0.43
L340B	WADENILL-SUNBURG-HAWICK COMPLEX, 2 TO 6 PERCENT SLOPES	NHEL	5	0.24	86	4.00	150	0.47
L347A	KLOSSNER AND LUNDLAKE SOILS, 0 TO 1 PERCENT SLOPES, PONDED	NHEL	5	0.37	86	0.50	100	0.10
L351A	HOUGHTON MUCK, LUNDLAKE CATENA, 0 TO 1 PERCENT SLOPES	NHEL	5		134	1.00	100	0.13
L352A	MUSKEGO MUCK, LUNDLAKE CATENA, 0 TO 1 PERCENT SLOPES	NHEL	4		134	5.00	100	0.54
L354A	GROVECITY LOAM, 1 TO 3 PERCENT SLOPES	NHEL	5	0.20	56	2.00	100	0.20

Mapunit Symbol	Mapunit Name	HELIC	T	K	I	Slope Percent	Slope Length	LS
L355B	KORONIS-SUNBURG-HAWICK COMPLEX, 2 TO 6 PERCENT SLOPES	NHEL	5	0.24	86	4.00	150	0.47
L355C2	KORONIS-SUNBURG-HAWICK COMPLEX, 6 TO 12 PERCENT SLOPES, MODERATELY ERODED	PHEL	5	0.24	86	10.00	175	1.81
L355D2	KORONIS-SUNBURG-HAWICK COMPLEX, 12 TO 18 PERCENT SLOPES, MODERATELY ERODED	HEL	5	0.24	86	16.00	150	3.48
L355E	KORONIS-SUNBURG-HAWICK COMPLEX, 18 TO 40 PERCENT SLOPES	HEL	5	0.24	86	25.00	150	7.00
L356C2	SUNBURG-WADENILL COMPLEX, 6 TO 12 PERCENT SLOPES, MODERATELY ERODED	PHEL	5	0.24	86	10.00	125	1.53
L356D2	SUNBURG-WADENILL COMPLEX, 12 TO 18 PERCENT SLOPES, MODERATELY ERODED	HEL	5	0.24	86	15.00	150	3.13
L357B	KORONIS-SUNBURG COMPLEX, 1 TO 6 PERCENT SLOPES	NHEL	5	0.24	86	4.00	150	0.47
L357C2	KORONIS-SUNBURG COMPLEX, 12 TO 18 PERCENT SLOPES, MODERATELY ERODED	PHEL	5	0.24	86	10.00	125	1.53
L357D2	KORONIS-SUNBURG COMPLEX, 12 TO 18 PERCENT SLOPES, MODERATELY ERODED	HEL	5	0.24	86	16.00	125	3.48
L505A	Delft clay loam, 0 to 2 percent slopes	NHEL	5	0.24	48	2.00	100	0.20
W	Water							