

Highly Erodible Soil Map Unit List - Koochiching County, MN

C= 0.10

R= 80

This data is only to be used for HEL determinations

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

Mapunit Symbol	Mapunit Name	HELC	T	K	I	Slope Percent	Slope Length	LS
2srqm	Quetico-Insula-Rock outcrop complex, 35 to 60 percent slopes, very bouldery	HEL	1	0.24		20	80	3.5
2srqn	Insula-Conic-Rock outcrop complex, 8 to 25 percent slopes, very bouldery	PHEL	2	0.17				
2srqr	Greenwood peat, 0 to 1 percent slopes	NHEL						
2srqs	Insula-Conic-Wahlsten complex, 0 to 12 percent slopes, very stony, very rocky	PHEL	2	0.17				
2srqv	Voyageurs, oxyaquic-Littleswan-Conic, very stony complex, 0 to 12 percent slopes, rocky	NHEL						
2srqw	Wahlsten, very stony-Spooner-Voyageurs complex, 0 to 8 percent slopes, rocky	PHEL	3	0.15		10	80	1.2
2srr3	Spooner-Sax complex, 0 to 2 percent slopes	NHEL						
2srr4	Littleswan-Spooner complex, 0 to 3 percent slopes	NHEL						
2srr8	Rifle mucky peat, 0 to 1 percent slopes	NHEL						
2srr9	Tacoosh and Sax soils, 0 to 1 percent slopes, frequently flooded	NHEL	5		134	0.5	150	0.11
2srrh	Greenwood peat, 0 to 1 percent slopes, seasonally ponded	NHEL						
2srrj	Rifle mucky peat, 0 to 1 percent slopes, seasonally ponded	NHEL						
2srrk	Insula-Conic-Wahlsten complex, 0 to 25 percent slopes, very stony, very rocky	PHEL	2	0.17				

2srrq	Cathro and Tacoosh soils, 0 to 1 percent slopes, ponded	NHEL						
2srtr	Bowstring and Fluvaquents soils, 0 to 2 percent slopes, frequently flooded	NHEL						
1007	Udorthents, shallow (sanitary landfill)	NHEL						
1020A	Bowstring and Fluvaquents, loamy, 0 to 2 percent slopes, frequently flooded	NHEL						
1057	Fluvaquents, frequently flooded-Hapludalfs complex, 0 to 35 percent slopes	HEL	5	0.32	56	16	80	2.6
A15A	Effie-Ashlake complex, mlra 57, 0 to 3 percent slopes	NHEL						
A16B	Ashlake-Suomi-Effie complex, mlra 57, 0 to 4 percent slopes	NHEL						
A17B	Suomi-Ashlake complex, mlra 57, 1 to 8 percent slopes	PHEL	3	0.43	56	4	80	0.37
A17C	Suomi-Ashlake complex, mlra 57, 1 to 15 percent slopes	PHEL	3	0.43	56	8	80	0.89
A17D	Suomi-Ashlake complex, mlra 57, 1 to 35 percent slopes	HEL	3	0.43	56	16	80	2.6
A18A	Effie, depressional-Hamre complex, mlra 57, 0 to 1 percent slopes	NHEL						
A19A	Talmoon, depressional-Hamre complex, 0 to 1 percent slopes	NHEL						
A20B	Kelliher-Beltrami complex, 1 to 6 percent slopes	NHEL						
A22A	Talmoon-Beltrami complex, 0 to 3 percent slopes	NHEL						
A25A	Beltrami-Talmoon complex, 0 to 3 percent slopes	NHEL						
A30C	Nebish loam, 3 to 15 percent slopes	PHEL	5	0.32	56	8	80	0.89
A31A	Northwood-Berner complex, mlra 57, 0 to 1 percent slopes	NHEL						

A33A	Blomford-Northwood complex, 0 to 2 percent slopes	NHEL						
A35A	Ricelake-Blomford complex, mlra 57, 0 to 3 percent slopes	NHEL						
A37B	Ricelake-Cutaway complex, mlra 57, 1 to 4 percent slopes	NHEL						
A38A	Cathro and Tacoosh soils, nebish catena, 0 to 1 percent slopes	NHEL						
A39B	Cutaway-Ricelake complex, mlra 57, 2 to 8 percent slopes	NHEL						
A40A	Beseman and Merwin soils, nebish catena, 0 to 1 percent slopes	NHEL						
B1C	Taylor silty clay loam, 4 to 12 percent slopes	PHEL	3	0.43	38	8	100	0.99
B1D	Taylor silty clay loam, 12 to 25 percent slopes	HEL	3	0.43	56	16	80	2.6
B2A	Indus-Woodslake, depressional, complex, 0 to 1 percent slopes	NHEL						
B3B	Alango-Indus complex, 1 to 4 percent slopes	NHEL						
B4A	Indus-Dora, depressional, complex, 0 to 2 percent slopes	NHEL						
B5B	Alango-Taylor-Woodslake, depressional, complex, 0 to 6 percent slopes	NHEL						
B6B	Morcom-Thistledew complex, 0 to 6 percent slopes	NHEL						
B12D	Taylor-Greaney, frequently flooded, complex, 0 to 25 percent slopes	HEL	3	0.43	56	16	80	2.6
B18A	Foglake-Hassman, depressional, complex, 0 to 2 percent slopes	NHEL						
B19B	Longsiding-Foglake-Grasston complex, 0 to 6 percent slopes	NHEL						
B23A	Effie-Ashlake complex, mlra 88, 0 to 2 percent slopes	NHEL						

B24B	Ashlake-Suomi-Effie complex, mlra 88, 1 to 4 percent slopes	NHEL						
B25B	Suomi-Ashlake complex, mlra 88, 1 to 8 percent slopes	PHEL	3	0.43	56	4	80	0.37
B25C	Suomi-Ashlake complex, mlra 88, 6 to 15 percent slopes	PHEL	3	0.43	56	8	80	0.89
B25D	Suomi-Ashlake complex, mlra 88, 6 to 35 percent slopes	HEL	3	0.43	56	20	80	3.5
B42B	Haystore-Kooch complex, 1 to 8 percent slopes	PHEL	3	0.43	38	4	100	0.4
B42C	Haystore-Kooch complex 1 to 15 percent slopes	HEL	3	0.43	38	8	100	0.99
B43A	Northwood-Berner complex, mlra 88, 0 to 1 percent slopes	NHEL						
B44B	Cutaway-Ricelake complex, mlra 88, 2 to 6 percent slopes	NHEL						
B46A	Dora mucky peat, taylor catena, 0 to 1 percent slopes	NHEL						
B49B	Kooch-Hapludalfs complex, 1 to 8 percent slopes	NHEL						
B50A	Ratroot-Dora complex, 0 to 1 percent slopes	NHEL						
B51A	Blomford-Northwood complex, mlra 88, 0 to 2 percent slopes	NHEL						
B54A	Spooner-Littleswan complex, 0 to 2 percent slopes	NHEL						
B55A	Kooch-Kab-Ratroot complex, 0 to 4 percent slopes	NHEL						
B56A	Sax, frequently ponded-Spooner complex, 0 to 1 percent slopes	NHEL						
B57A	Littleswan silt loam, 0 to 3 percent slopes	NHEL						
B57A	Littleswan silt loam, 0 to 3 percent slopes	NHEL						

B57B	Baudette-Littleswan complex, 0 to 6 percent slopes	NHEL						
B58B	Wurtsmith-Meehan complex, 0 to 4 percent slopes	NHEL						
B60B	Ricelake-Cutaway complex, mlra 88, 1 to 4 percent slopes	NHEL						
B70A	Ricelake-Blomford complex, mlra 88, 0 to 3 percent slopes	NHEL						
B71A	Leafriver-Deford, depressional-Markey complex, 0 to 1 percent slopes	NHEL						
B76A	Deford-Leafriver complex, 0 to 2 percent slopes	NHEL						
B77A	Meehan-Deford complex, 0 to 3 percent slopes	NHEL						
B78B	Graycalm-Grettum complex, 1 to 8 percent slopes	NHEL						
B79B	Sugarbush-Graycalm complex, 2 to 8 percent slopes	NHEL						
B79D	Sugarbush-Graycalm complex, 8 to 18 percent slopes	PHEL	2	0.17	134	8	80	0.89
B146A	Kab-Ratroot complex, 0 to 2 percent slopes	NHEL						
B151A	Kab-Kooch complex, 0 to 4 percent slopes	NHEL						
B242C	Haystore-Hapludalfs complex, 8 to 15 percent slopes	HEL	3	0.43	38	8	100	0.99
B243A	Effie-Hamre complex, mlra 88, 0 to 1 percent slopes	NHEL						
B247A	Leafriver-Cormant-Markey complex, 0 to 1 percent slopes	NHEL						
B248A	Soderville-Redby complex, 0 to 3 percent slopes	NHEL						
B249A	Cormant-Leafriver complex, 0 to 1 percent slopes	NHEL						

B250A	Redby-Cormant complex, 0 to 3 percent slopes	NHEL						
B251B	Zimmerman-Soderville complex, 2 to 8 percent slopes	NHEL						
B255A	Beseman and Merwin soils, suomi catena, 0 to 1 percent slopes	NHEL						
B256A	Cathro and Tacoosh soils, suomi catena, 0 to 1 percent slopes	NHEL						
B258A	Waskish peat, kab catena, 0 to 2 percent slopes	NHEL						
B261A	Daisybay and Terric Haplosaprist soils, kab catena, 0 to 1 percent slopes	NHEL						
B262A	Dora and Terric Haplohemist soils, kab catena, 0 to 1 percent slopes	NHEL						
B263A	Lindford-Littlefork complex, 0 to 3 percent slopes, flooded	NHEL						
B264B	Littlefork-Lindford complex, 0 to 8 percent slopes, flooded	NHEL						
B265B	Urban land-Kooch-Kab complex, 0 to 4 percent slopes	NHEL						
B273A	Waskish peat, suomi catena, 0 to 2 percent slopes	NHEL						
B275A	Rifle-Rifle, ponded, complex, 0 to 1 percent slopes	NHEL						
B276A	Cathro and Tacoosh soils, spooner catena, 0 to 1 percent slopes	NHEL						
B277A	Greenwood-Greenwood, ponded, complex, 0 to 1 percent slopes	NHEL						
B278A	Greenwood-Lobo complex, 0 to 1 percent slopes	NHEL						
B279A	Markey and Lougee soils, 0 to 1 percent slopes	NHEL						
B280A	Zippel silt loam, 0 to 2 percent slopes	NHEL						

F2B	Eaglesnest-Wahlsten complex, 2 to 8 percent slopes, bouldery	NHEL						
F3D	Eveleth-Eaglesnest-Conic complex, bouldery, 6 to 18 percent slopes, very rocky	PHEL	2	0.17	134	8	80	0.89
F7B	Biwabik-Graycalm complex, 1 to 8 percent slopes	NHEL						
F8D	Biwabik-Graycalm-Friendship complex, pitted, 0 to 18 percent slopes	PHEL	2	0.17	134	8	80	0.89
F21C	Quetico, bouldery-Insula, bouldery-Rock outcrop complex, 3 to 18 percent slopes	PHEL	1	0.24		10	80	1.2
F21D	Quetico, stony-Rock outcrop complex, 15 to 35 percent slopes	HEL	1	0.24		20	80	3.5
F36D	Conic, bouldery-Insula, bouldery-Rock outcrop complex, 8 to 25 percent slopes	PHEL	3	0.15		20	80	3.5
F41B	Wurtsmith-Friendship complex, mlra 93A, 1 to 4 percent slopes	NHEL						
F167B	Wahlsten, bouldery-Insula, bouldery-Rock outcrop complex, 1 to 10 percent slopes	PHEL	3	0.15		10	80	1.2
F168A	Foglake-Hassman, depressional, complex, mlra 93A, 0 to 2 percent slopes	NHEL						
F169B	Longsiding-Grasston complex, 1 to 6 percent slopes	NHEL						
F189B	Suomi-Ashlake complex, 1 to 8 percent slopes	PHEL	3	0.43	56	4	80	0.37
F190B	Ashlake-Effie complex, 0 to 4 percent slopes	NHEL						
F191A	Littleswan-Spooner complex, 0 to 3 percent slopes	NHEL						
F192B	Baudette-Littleswan complex, 1 to 8 percent slopes	NHEL						
F193A	Effie-Hamre complex, 0 to 2 percent slopes	NHEL						
F194D	Suomi loam, 8 to 18 percent slopes	HEL	3	0.43	56	20	80	3.5

F195B	Aquepts-Wahlsten-Rock outcrop complex, 1 to 8 percent slopes, very stony	NHEL						
F196A	Spooner-Sax complex, 0 to 1 percent slopes	NHEL						
F197B	Cutaway-Biwabik complex, 1 to 8 percent slopes	NHEL						
F198D	Cutaway-Suomi-Conic complex, 6 to 25 percent slopes	HEL	3	0.43	56	20	80	3.5
F199B	Cutaway-Suomi complex, 1 to 8 percent slopes	PHEL	3	0.43	56	4	80	0.37
F200A	Northwood-Hassman-Cathro soils, 0 to 1 percent slopes	NHEL						
F201B	Rollins-Biwabik-Friendship complex, 0 to 8 percent slopes	NHEL						
F202B	Ricelake-Cutaway complex, 1 to 4 percent slopes	NHEL						
GP	Pits, gravel-Udipsamments complex	NHEL						
I-W	Water, intermittent							
M-W	Water, miscellaneous							
W	Water							