

Highly Erodible Soil Map Unit List - West Roseau County, MN

C= 0.25

R= 70

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
48B	Hiwood loamy fine sand, 0 to 6 percent slopes	HEL	5	0.15	250			
52	Augsburg loam, 0 to 2 percent slopes	NHEL	4	0.28	86	1	150	0.15
64	Ulen fine sandy loam, 0 to 3 percent slopes	NHEL	5	0.2	86	1	150	0.15
65	Foxhome sandy loam, 0 to 3 percent slopes	NHEL	3	0.2	86	1	150	0.15
77	Garnes fine sandy loam, 0 to 3 percent slopes	NHEL	5	0.32	86	1	150	0.15
111	Hangaard sandy loam, 0 to 2 percent slopes	HEL	2	0.2	86	1	150	0.15
116	Redby loamy fine sand, 0 to 3 percent slopes	NHEL	5	0.17	134	1	150	0.15
117	Cormant loamy fine sand, 0 to 2 percent slopes	NHEL	5	0.17	134	1	150	0.15
133	Dalbo loam, 0 to 3 percent slopes	NHEL	5	0.37	48	1	150	0.15
145	Enstrom loamy fine sand, 0 to 3 percent slopes	NHEL	5	0.17	134	1	150	0.15
158B	Zimmerman fine sand, 1 to 6 percent slopes	HEL	5	0.17	250			
187	Haug muck, 0 to 1 percent slopes	NHEL	5		134	0.5	150	0.11
191	Epoufette sandy loam, 0 to 2 percent slopes	NHEL	4	0.2	86	1	150	0.15

202	Meehan loamy sand, 0 to 3 percent slopes	NHEL	5	0.17	134	1	150	0.15
205	Karlstad loamy sand, 0 to 3 percent slopes	NHEL	3	0.17	86	1	150	0.15
242B	Marquette loamy sand, 1 to 6 percent slopes	HEL	2	0.17	134			
280	Pelan sandy loam, 0 to 3 percent slopes	NHEL	3	0.24	86	1	150	0.15
379	Percy loam, 0 to 2 percent slopes, very cobbly	NHEL	5	0.28	0	1	150	0.15
383	Percy loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1	150	0.15
384	Percy mucky loam, depressional, 0 to 1 percent slopes	NHEL	5	0.24	48	0.5	150	0.11
387	Roliss loam, depressional, 0 to 1 percent slopes	NHEL	5	0.24	48	0.5	150	0.15
404	Chilgren fine sandy loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1	150	0.15
432	Strandquist loam, 0 to 2 percent slopes	NHEL	3	0.2	86	1	150	0.15
439	Strathcona fine sandy loam, 0 to 2 percent slopes	NHEL	5	0.2	86	1	150	0.15
481	Kratka fine sandy loam, 0 to 2 percent slopes	NHEL	5	0.17	86	1	150	0.15
482	Grygla loamy fine sand, 0 to 2 percent slopes	NHEL	5	0.15	134	1	150	0.15
532	Sago muck, 0 to 1 percent slopes	NHEL	5		134	0.5	150	0.11
534	Mooselake mucky peat, 0 to 1 percent slopes	NHEL	5		56	0.5	150	0.11
540	Seelyeville-Seelyeville, ponded, complex, 0 to 1 percent slopes	NHEL	5		134	0.5	150	0.11
541	Rifle-Rifle, ponded, complex, 0 to 1 percent slopes	NHEL	5		56	0.5	150	0.11

543	Markey muck, occasionally ponded, 0 to 1 percent slopes	NHEL	4		134	0.5	150	0.11
544	Cathro muck, occasionally ponded, 0 to 1 percent slopes	NHEL	5		134	0.5	150	0.11
546	Lupton-Lupton, ponded, complex, 0 to 1 percent slopes	NHEL	5		134	0.5	150	0.11
547	Deerwood muck, 0 to 1 percent slopes	HEL	3		134	0.5	150	0.11
550	Dora muck, 0 to 1 percent slopes	NHEL	4		134	0.5	150	0.11
561	Bullwinkle muck, 0 to 1 percent slopes	NHEL	5		134	0.5	150	0.11
563	Northwood muck, 0 to 1 percent slopes	NHEL	5		134	0.5	150	0.11
565	Eckvoll loamy fine sand, 0 to 3 percent slopes	NHEL	5	0.17	134	1	150	0.15
568	Zippel very fine sandy loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1	150	0.15
569	Wabanica silt loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1	150	0.15
570	Faunce loamy fine sand, 0 to 3 percent slopes	NHEL	5	0.15	134	1	150	0.15
581	Percy fine sandy loam, 0 to 1 percent slopes	NHEL	5	0.28	86	1	150	0.15
582	Roliss loam, 0 to 2 percent slopes	NHEL	5	0.28	48	1	150	0.15
627	Tawas muck, map 22-30, 0 to 1 percent slopes	NHEL	4		134	0.5	150	0.11
630	Wildwood muck, 0 to 1 percent slopes	HEL	3		134	0.5	150	0.11
644	Boash clay loam, 0 to 2 percent slopes	NHEL	5	0.32	86	1	150	0.15
708	Rushlake loamy sand, 0 to 3 percent slopes	NHEL	5	0.17	134	1	150	0.15

712	Rosewood fine sandy loam, 0 to 2 percent slopes	NHEL	3	0.24	86	1	150	0.15
733	Berner muck, 0 to 1 percent slopes	HEL	2		134	0.5	150	0.11
737	Mahkonce fine sandy loam, 0 to 3 percent slopes	NHEL	3	0.28	86	1	150	0.15
755	Woodslake clay, 0 to 1 percent slopes	NHEL	5	0.28	86	1	150	0.15
767	Auganaush loam, 0 to 2 percent slopes	NHEL	3	0.32	48	1	150	0.15
794	Clearriver loamy fine sand, 0 to 3 percent slopes	NHEL	5	0.17	134	1	150	0.15
1002	Fluvaquents, 0 to 2 percent slopes, frequently flooded	NHEL	5	0.24	56	1	150	0.15
1030	Pits, gravel-Udipsammments complex, 1 to 50 percent slopes	PHEL	5	0.15	134	1	150	0.15
1067	Fluvaquents, frequently flooded-Hapludalfs complex, 0 to 60 percent slopes	PHEL	5	0.2	86	3	150	0.15
1133B	Skime loamy fine sand, 0 to 4 percent slopes	NHEL	5	0.17	134	2	150	0.23
1144	Strathcona and Kratka soils, depressional, 0 to 1 percent slopes	NHEL	5	0.2	86	0.5	150	0.11
1158	Skagen loam, 0 to 3 percent slopes	NHEL	5	0.2	86	1	150	0.15
1170	Skagen loam, 0 to 3 percent slopes, very cobbly	NHEL	5	0.28	0	1	150	0.15
1179B	Moranville loamy fine sand, 0 to 4 percent slopes	NHEL	5	0.17	134	2	150	0.23
1181	Rosewood-Ulen complex, 0 to 2 percent slopes	NHEL	3	0.24	86	1	150	0.15
1182	Warroad fine sandy loam, 0 to 2 percent slopes	NHEL	3	0.24	86	1	150	0.15
1187	Dora muck, ponded, 0 to 1 percent slopes	NHEL	5		0	0.5	150	0.11

1206	Cormant-Redby complex, 0 to 2 percent slopes	NHEL	5	0.17	134	1	150	0.15
1274B	Redby-Hiwood-Leafriver complex, 0 to 6 percent slopes	HEL	2		134	0.5	150	0.11
1302	Foldahl fine sandy loam, 0 to 3 percent slopes	NHEL	5	0.2	86	1	150	0.15
1314	Tacoosh mucky peat, map 22-30, 0 to 1 percent slopes	NHEL	2		56	0.5	150	0.11
1316	Wheatville loam, 0 to 2 percent slopes	NHEL	4	0.28	86	1	150	0.15
1326	Augsburg and Wabanica soils, depressional, 0 to 1 percent slopes	NHEL	4	0.28	86	0.5	150	0.11
1327B	Karlstad-Marquette complex, 0 to 8 percent slopes	HEL	2	0.17	134	3	150	0.32
1328	Northwood muck, wooded, 0 to 1 percent slopes	NHEL	5		134	0.5	150	0.11
1333	Dora muck, wooded, 0 to 1 percent slopes	NHEL	4		134	0.5	150	0.11
1356	Water, miscellaneous							
1399B	Two Inlets loamy sand, noncalcareous substratum, 0 to 6 percent slopes	NHEL	5	0.15	134	2	150	0.23
1401	Grygla mucky loamy fine sand, depressional, 0 to 1 percent slopes	NHEL	5	0.15	134	0.5	150	0.11
1402	Leafriver muck, wooded, 0 to 1 percent slopes	HEL	2		134	0.5	150	0.11
1404	Berner muck, wooded, 0 to 1 percent slopes	HEL	2		134	0.5	150	0.11
1405	Lallie mucky silt loam, map 18-22, 0 to 1 percent slopes	NHEL	5	0.37	0	0.5	150	0.11
1444	Wurtsmith loamy sand, map 22-30, 0 to 3 percent slopes	NHEL	5	0.17	134	1	150	0.15
1448	Grano clay, map 18-22, 0 to 2 percent slopes	NHEL	5	0.28	86	1	150	0.15

1449	Grano loam, map 18-22, 0 to 2 percent slopes	NHEL	5	0.24	56	1	150	0.15
1807	Cathro muck, ponded, map 22-30, 0 to 1 percent slopes	NHEL	5		0	0.5	150	0.11
1808	Markey muck, ponded, map 22-30, 0 to 1 percent slopes	NHEL	4		0	0.5	150	0.11
1923B	Garnes loam, 1 to 4 percent slopes, very stony	NHEL	5	0.32	0	2	150	0.23
1984	Leafriver muck, 0 to 1 percent slopes	HEL	2		134	0.5	150	0.11
B54A	Spooner-Littleswan complex, 0 to 2 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						
B57B	Baudette-Littleswan complex, 0 to 6 percent slopes	NHEL						
I11A	Deerwood muck, 0 to 1 percent slopes	HEL	3		134	0.5	150	0.11
I16F	Fluvaquents,frequently flooded-Hapludolls complex, 0 to 30 percent slopes	PHEL	5	0.2	86	3	150	0.15
I28A	Hangaard sandy loam, 0 to 2 percent slopes	HEL	2	0.2	86	1	150	0.15
I35A	Karlsruhe sandy loam, 0 to 2 percent slopes	NHEL	5	0.2	86	1	150	0.15
I41A	Markey muck, 0 to 1 percent slopes	NHEL	4		134	0.5	150	0.11
I42A	Markey muck, ponded, 0 to 1 percent slopes	NHEL	4		0	0.5	150	0.11
I47A	Poppleton fine sand, 0 to 2 percent slopes	HEL	5	0.15	250			
I55A	Rosewood fine sandy loam, Aspen Parkland, 0 to 1 percent slopes	NHEL	3	0.24	86	1	150	0.15

I58A	Seelyeville muck, 0 to 1 percent slopes	NHEL	5		134	0.5	150	0.11
I62A	Syrene sandy loam, 0 to 2 percent slopes	NHEL	3	0.2	86	1	150	0.15
I74A	Urban land-Endoaquents complex, 0 to 3 percent slopes	NHEL	5	0.17	134	1	150	0.15
I75A	Radium-Sandberg-Garborg complex, 0 to 3 percent slopes	PHL	5	0.2	86	3	150	0.15
I76A	Karlstad loamy sand, 0 to 3 percent slopes	NHEL	3	0.17	86	1	150	0.15
I77A	Deerwood muck, dense till, 0 to 1 percent slopes	HEL	3		134	0.5	150	0.11
I78B	Marquette loamy sand, 2 to 9 percent slopes	HEL	2	0.17	134			
I79A	Berner, Cathro and Haug soils, ponded, 0 to 1 percent slopes	NHEL	5		0	0.5	150	0.11
I80B	Karlstad-Marquette loamy sands, 0 to 8 percent slopes	HEL	2	0.17	134	3	150	0.32
I81A	Northwood muck, dense till, 0 to 1 percent slopes	NHEL	5		134	0.5	150	0.11
I82A	Cathro muck, dense till, 0 to 1 percent slopes	NHEL	5		134	0.5	150	0.11
I83A	Wildwood muck, dense till, 0 to 1 percent slopes	HEL	3		134	0.5	150	0.11
I84A	Percy loam, 0 to 1 percent slopes, very cobbly	NHEL	5	0.28	0	1	150	0.15
I85A	Percy loam, 0 to 1 percent slopes, bouldery	NHEL	5	0.28	0	1	150	0.15
I86A	Percy mucky loam, 0 to 1 percent slopes	NHEL	5	0.24	48	0.5	150	0.11
I87A	Pelan sandy loam, dense till, 0 to 2 percent slopes	NHEL	3	0.24	86	1	150	0.15
I88A	Haug muck, 0 to 1 percent slopes	NHEL	5		134	0.5	150	0.11

I89A	Nereson fine sandy loam, 0 to 2 percent slopes, very cobbly	NHEL	5	0.17	86	1	150	0.15
I90A	Redby loamy fine sand, dense till, 0 to 3 percent slopes	NHEL	5	0.17	134	1	150	0.15
I91A	Rosewood fine sandy loam, dense till, 0 to 1 percent slopes	NHEL	3	0.24	86	1	150	0.15
I92A	Grano clay, 0 to 1 percent slopes	NHEL	5	0.28	86	1	150	0.15
I94A	Strathcona fine sandy loam, dense till, 0 to 1 percent slopes	NHEL	5	0.2	86	1	150	0.15
I95A	Kratka and Strathcona soils, dense till, 0 to 1 percent slopes	NHEL	5	0.2	86	0.5	150	0.11
I97A	Cormant loamy fine sand, dense till, 0 to 2 percent slopes	NHEL	5	0.17	134	1	150	0.15
I98A	Ulen fine sandy loam, dense till, 0 to 2 percent slopes	NHEL	5	0.2	86	1	150	0.15
I99A	Berner muck, dense till, 0 to 1 percent slopes	HEL	2		134	0.5	150	0.11
I101A	Foxhome sandy loam, dense till, 0 to 2 percent slopes	NHEL	3	0.2	86	1	150	0.15
I102A	Mavie fine sandy loam, dense till, 0 to 1 percent slopes	NHEL	3	0.24	86	1	150	0.15
I103A	Kratka fine sandy loam, dense till, 0 to 1 percent slopes	NHEL	5	0.17	86	1	150	0.15
I104A	Strandquist loam, dense till, 0 to 1 percent slopes	NHEL	3	0.2	86	1	150	0.15
I106A	Enstrom loamy fine sand, dense till, 0 to 2 percent slopes	NHEL	5	0.17	134	1	150	0.15
I107A	Syrene mucky sandy loam, 0 to 1 percent slopes	NHEL	3	0.2	86	1	150	0.15
I108A	Syrene sandy loam, dense till, 0 to 2 percent slopes	NHEL	3	0.2	86	1	150	0.15
I109A	Fluvaquents, 0 to 2 percent slopes, frequently flooded	NHEL	5	0.24	56	1	150	0.15



I110A	Augsburg, Borup and Colvin soils, very poorly drained, 0 to 1 percent slopes	NHEL	4	0.28	86	0.5	150	0.11
I113A	Grimstad fine sandy loam, dense till, 0 to 2 percent slopes	NHEL	5	0.2	86	1	150	0.15
I114A	Foldahl fine sandy loam, dense till, 0 to 2 percent slopes	NHEL	5	0.2	86	1	150	0.15
I115A	Garnes fine sandy loam, dense till, 0 to 2 percent slopes, very stony	NHEL	5	0.32	86	1	150	0.15
I116A	Grygla loamy fine sand, dense till, 0 to 1 percent slopes	NHEL	5	0.15	134	1	150	0.15
I117A	Skagen loam, dense till, 0 to 2 percent slopes, very cobbly	NHEL	5	0.28	0	1	150	0.15
I118A	Poppleton fine sand, dense till, 0 to 2 percent slopes	HEL	5	0.15	250			
I125A	Skagen loam, dense till, 0 to 2 percent slopes	NHEL	5	0.2	86	1	150	0.15
I126A	Nereson fine sandy loam, 0 to 2 percent slopes	NHEL	5	0.2	86	1	150	0.15
I127A	Percy loam, 0 to 1 percent slopes	NHEL	5	0.28	86	1	150	0.15
I260A	Rifle mucky peat, 0 to 1 percent slopes	NHEL	5		56	0.5	150	0.11
I467A	Bearden silt loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1	150	0.15
I629A	Colvin silty clay loam, Aspen Parkland, 0 to 1 percent slopes	NHEL	5	0.32	86	1	150	0.15
I640A	Augsburg loam, dense till, 0 to 1 percent slopes	NHEL	4	0.28	86	1	150	0.15
I647A	Wheatville loam, dense till, 0 to 2 percent slopes	NHEL	4	0.28	86	1	150	0.15
I682A	Borup-Glyndon complex, 0 to 2 percent slopes	NHEL	4	0.28	86	1	150	0.15
I693A	Garnes fine sandy loam, 0 to 2 percent slopes	NHEL	5	0.32	86	1	150	0.15

I704A	Glyndon very fine sandy loam, Aspen Parkland, 0 to 2 percent slopes	NHEL	5	0.28	86	1	150	0.15
I705A	Roliss loam, dense till, 0 to 1 percent slopes	NHEL	5	0.28	48	1	150	0.15
I727B	Corliss loamy sand, 2 to 6 percent slopes	NHEL	5	0.15	134			
I739A	Dora muck, 0 to 1 percent slopes	NHEL	4		134	0.5	150	0.11
I740A	Dora muck, ponded, 0 to 1 percent slopes	NHEL	5		0	0.5	150	0.11
I741A	Boash clay loam, dense till, 0 to 1 percent slopes	NHEL	5	0.32	86	1	150	0.15
I744A	Grano loam, 0 to 1 percent slopes	NHEL	5	0.24	56	1	150	0.15
I745A	Espelie fine sandy loam, 0 to 2 percent slopes	NHEL	4	0.2	86	1	150	0.15
I763A	Hilaire fine sandy loam, 0 to 2 percent slopes	NHEL	4	0.2	86	1	150	0.15
I765A	Huot fine sandy loam, 0 to 3 percent slopes	NHEL	4	0.2	86	1	150	0.15
I785A	Rosewood-Ulen fine sandy loams, 0 to 2 percent slopes	NHEL	3	0.24	86	1	150	0.15
I789A	Skime loamy fine sand, 0 to 4 percent slopes	NHEL	5	0.17	134	2	150	0.23
I804A	Eckvoll loamy fine sand, dense till, 0 to 2 percent slopes	NHEL	5	0.17	134	1	150	0.15
I813A	Moranville loamy fine sand, 0 to 4 percent slopes	NHEL	5	0.17	134	2	150	0.23
I824A	Rushlake loamy sand, 0 to 2 percent slopes	NHEL	5	0.17	134	1	150	0.15
I830A	Woodslake clay, 0 to 1 percent slopes	NHEL	5	0.28	86	1	150	0.15
I833A	Wildwood muck, 0 to 1 percent slopes	HEL	3		134	0.5	150	0.11

I846A	Borup silt loam, Aspen Parkland, 0 to 1 percent slopes	NHEL	4	0.28	86	1	150	0.15
I850A	Thief river fine sandy loam, 0 to 1 percent slopes	NHEL	3	0.24	86	1	150	0.15
I852A	Mustinka clay loam, 0 to 1 percent slopes	NHEL	5	0.28	38	0.5	150	0.11
I858A	Croke very fine sandy loam, aspen parkland, 0 to 2 percent slopes	NHEL	4	0.28	86	1	150	0.15
IGp	Pits, gravel and sand	PHEL	5	0.15	134	1	150	0.15
IM-W	Miscellaneous water							
IWa	Water							
W	Water							