

Highly Erodible Soil Map Unit List - Clay County, MN

C= 0.30

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
33B	Hokans-Svea complex, 1 to 4 percent slopes	NHEL	5	0.28	48	2	125	0.14
33C2	Barnes-Buse complex, 6 to 12 percent slopes, moderately eroded	NHEL	5	0.28	48	9	125	1.35
36	Lakepark-Parnell, occasionally ponded, complex, 0 to 2 percent slopes	NHEL	5	0.28	48	1	100	0.13
38B	Waukon loam, 2 to 6 percent slopes	NHEL	5	0.24	86	3	125	0.31
38C	Waukon loam, 6 to 12 percent slopes	NHEL	5	0.24	86	9	125	1.35
38C2	Waukon, moderately eroded-Langhei complex, 6 to 12 percent slopes	NHEL	5	0.24	48	9	125	1.35
38D	Waukon loam, 12 to 20 percent slopes	PHEL	5	0.24	86	15	100	2.6
38D2	Waukon, moderately eroded-Langhei complex, 12 to 20 percent slopes	PHEL	5	0.24	48	15	100	2.6
38E	Waukon fine sandy loam, 18 to 30 percent slopes	HEL	5	0.24	86	24	100	5.6
45B	Maddock fine sand, 0 to 4 percent slopes	HEL	5	0.17	250	2	100	0.14
45C	Maddock fine sand, 4 to 12 percent slopes	HEL	5	0.17	250	8	100	0.99
46	Borup loam	NHEL	4	0.28	86	1	100	0.13
58B	Kittson loam, 1 to 5 percent slopes	NHEL	5	0.24	56	3	100	0.29

60A	Glyndon loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1	100	0.13
60B2	Glyndon loam, 2 to 6 percent slopes, eroded	NHEL	5	0.28	86	4	100	0.4
66	Flaming fine sand	HEL	5	0.17	250	1	100	0.13
127B	Sverdrup sandy loam, 2 to 6 percent slopes	NHEL	4	0.2	86	3	100	0.29
127C	Sverdrup sandy loam, 6 to 12 percent slopes	NHEL	4	0.2	86	8	100	0.99
148	Poppleton fine sand	HEL	5	0.15	250	1	100	0.13
180B	Gonvick loam, 1 to 4 percent slopes	NHEL	5	0.24	48	2	100	0.2
184B	Balaton-Hamerly complex, 1 to 4 percent slopes	NHEL	5	0.28	86	2	100	0.2
236	Vallers clay loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1	100	0.13
258B	Sandberg sandy loam, 1 to 6 percent slopes	HEL	2	0.2	86	4	100	0.4
258C	Sandberg sandy loam, 2 to 12 percent slopes	HEL	2	0.2	86	9	100	1.2
258E	Sandberg gravelly sandy loam, 6 to 30 percent slopes	HEL	2	0.17	134	15	100	2.4
335	Urness mucky silty clay loam, occasionally ponded, 0 to 1 percent slopes	NHEL	5	0.28	86	1	100	0.13
344	Quam silty clay loam, occasionally ponded, 0 to 1 percent slopes	NHEL	5	0.28	38	1	100	0.13
402E	Sioux bouldery loamy coarse sand, 12 to 30 percent slopes	HEL	2	0.15	134	21	100	4.4
413	Osakis loam, 0 to 2 percent slopes	NHEL	3	0.28	56	1	100	0.13
494	Darnen loam, 1 to 6 percent slopes	NHEL	5	0.28	48	1	100	0.13

509	Vallers bouldery loam	NHEL	5	0.28	134	1	100	0.13
540	Seelyeville-Seelyeville, ponded, complex, 0 to 1 percent slopes	HEL	5	0	134	1	100	0.13
543	Markey muck, occasionally ponded, 0 to 1 percent slopes	HEL	4	0	134	1	100	0.13
544	Cathro muck, occasionally ponded, 0 to 1 percent slopes	HEL	5	0	134	1	100	0.13
545	Rondeau muck	HEL	5	0	134	1	100	0.13
892B	Sioux-Sverdrup complex, 1 to 6 percent slopes	HEL	2	0.2	86	4	100	0.4
892C	Sioux-Sverdrup complex, 6 to 18 percent slopes	HEL	2	0.2	86	12	100	1.8
893E	Lohnes-Waukon complex, 12 to 30 percent slopes	PHEL	5	0.24	86	21	100	4.4
903B	Hokans-Buse complex, 2 to 6 percent slopes	NHEL	5	0.32	86	4	100	0.4
942C2	Langhei-Barnes, moderately eroded, complex, 6 to 12 percent slopes	NHEL	5	0.32	86	9	125	1.35
942D2	Langhei-Barnes, moderately eroded, complex, 12 to 20 percent slopes	HEL	5	0.32	86	15	100	2.5
966C	Waukon-Sioux sandy loams, 4 to 12 percent slopes	HEL	2	0.2	86	8	100	0.99
966D	Waukon-Sioux sandy loams, 12 to 18 percent slopes	HEL	2	0.2	86	15	100	2.4
967B2	Waukon-Langhei complex, 2 to 6 percent slopes	NHEL	5	0.32	86	4	125	0.44
1001	Haplaquolls and Udifluvents, level	NHEL	5	0.24	86	1	100	0.13
1005	Fluvaquents, loamy	NHEL	5	0.24	86	1	100	0.13
1006	Fluvaquents-Haploborolls complex	PHEL	5	0.24	86	12	100	1.8

1029	Pits, gravel	NHEL	5	0.15	134	1	100	0.13
1055	Quam, Cathro, and Urness soils, frequently ponded, 0 to 1 percent slopes	NHEL	5	0	0.001	1	100	0.13
1872	Fargo silty clay, silty substratum	NHEL	5	0.32	86	1	100	0.13
1876	Divide loam, loamy substratum	NHEL	4	0.28	86	1	100	0.13
D8B	Sandberg loamy sand, 1 to 6 percent slopes	NHEL	5	0.24	86	4	100	0.4
D8C	Sandberg loamy sand, 2 to 12 percent slopes	HEL	2	0.2	86	9	100	1.2
D8E	Sandberg loamy coarse sand, 6 to 30 percent slopes	HEL	2	0.17	134	15	100	2.4
I5A	Borup loam, 0 to 1 percent slopes	NHEL	4	0.28	86	1	100	0.13
I8A	Cathro muck, 0 to 1 percent slopes	HEL	5	0	134	1	100	0.13
I15A	Hecla loamy fine sand, 0 to 2 percent slopes	HEL	5	0.17	250	1	100	0.13
I16F	Fluvaquents, frequently flooded-Hapludolls complex, 0 to 30 percent slopes	PHEL	5	0.24	86	12	100	1.8
I18A	Foldahl loamy fine sand, loamy till substratum, 0 to 3 percent slopes	HEL	5	0.2	134	1	100	0.13
I19A	Foxhome sandy loam, 0 to 2 percent slopes	HEL	3	0.2	86	1	100	0.13
I24A	Grimstad fine sandy loam, 0 to 2 percent slopes, aspen parkland	NHEL	5	0.2	86	1	100	0.13
I36B	Kittson loam, 2 to 6 percent slopes	NHEL	5	0.24	56	3	100	0.29
I40B	Maddock loamy fine sand, 2 to 6 percent slopes	HEL	5	0.17	250	2	100	0.14
I41A	Markey muck, 0 to 1 percent slopes	HEL	4	0	134	1	100	0.13

I43A	Mavie fine sandy loam, 0 to 1 percent slopes	HEL	3	0.2	86			
I47A	Poppleton fine sand, 0 to 2 percent slopes	HEL	5	0.15	250	1	100	0.13
I49A	Rauville silty clay loam, 0 to 2 percent slopes, frequently flooded	NHEL	5	0.24	86	1	100	0.13
I54A	Roliss loam, very poorly drained, 0 to 1 percent slopes	HEL	3	0.24	86	1	100	0.13
I58A	Seelyeville muck, 0 to 1 percent slopes	HEL	5	0	134	1	100	0.13
I62A	Syrene sandy loam, 0 to 2 percent slopes	NHEL	3	0.24	56	1	100	0.13
I112A	Augsburg very fine sandy loam, 0 to 1 percent slopes	NHEL	4	0.28	86	1	100	0.13
I119A	Bearden silty clay loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1	100	0.13
I129A	Croke very fine sandy loam, 0 to 2 percent slopes	NHEL	4	0.24	86	1	100	0.13
I130A	Hegne-Fargo silty clays, 0 to 1 percent slopes	NHEL	5	0.32	86	1	100	0.13
I132A	Northcote-Eaglepoint clays, 0 to 1 percent slopes	NHEL	5	0.28	86	1	100	0.13
I150B	Zell, fine-silty-LaDelle silt loams, 2 to 6 percent slopes	NHEL	5	0.28	86	4	100	0.4
I170A	Swenoda loam, 0 to 3 percent slopes	NHEL	5	0.2	86	2	100	0.2
I185A	Viking clay, 0 to 1 percent slopes	NHEL	5	0.32	56	1	100	0.13
I229A	Fargo silty clay, 0 to 1 percent slopes	NHEL	5	0.32	38	1	100	0.13
I233A	Fargo silty clay loam, 0 to 1 percent slopes	NHEL	5	0.32	38	1	100	0.13
I235A	Fargo silty clay, depressional, 0 to 1 percent slopes	NHEL	5	0.32	38	1	100	0.13

I248A	Wahpeton silty clay, 0 to 2 percent slopes, occasionally flooded	NHEL	5	0.28	86	1	100	0.13
I248B	Wahpeton silty clay, 2 to 6 percent slopes, occasionally flooded	NHEL	5	0.28	86	4	100	0.4
I248C	Wahpeton silty clay, 6 to 9 percent slopes, occasionally flooded	NHEL	5	0.28	86	9	100	1.2
I293B	Cashel silty clay, 0 to 6 percent slopes, occasionally flooded	NHEL	5	0.32	86	1	100	0.13
I309A	Arveson loam, 0 to 1 percent slopes	NHEL	4	0.24	86	1	100	0.13
I312A	Wyndmere fine sandy loam, 0 to 2 percent slopes	NHEL	5	0.2	86	1	100	0.13
I356A	Ulen fine sandy loam, 0 to 2 percent slopes	NHEL	5	0.2	86	1	100	0.13
I362D	Maddock loamy fine sand, 6 to 15 percent slopes	HEL	5	0.17	250	8	100	0.99
I376A	Colvin silty clay loam, 0 to 1 percent slopes	NHEL	5	0.32	86	1	100	0.13
I377A	Wheatville silt loam, 0 to 2 percent slopes	NHEL	4	0.28	86	1	100	0.13
I377B	Wheatville loam, dry, 2 to 6 percent slopes	NHEL	4	0.28	86	4	100	0.4
I383A	Overly silty clay loam, 0 to 2 percent slopes	NHEL	5	0.32	38	1	100	0.13
I400A	Gilby loam, 0 to 2 percent slopes	NHEL	5	0.28	86	2	100	0.2
I467A	Bearden silt loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1	100	0.13
I468A	Divide loam, 0 to 2 percent slopes	NHEL	4	0.28	86	1	100	0.13
I475B	Sinai silty clay, levees, 0 to 6 percent slopes	NHEL	5	0.32	86	4	100	0.4
I507A	Glyndon loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1	100	0.13

I507B	Glyndon loam, dry, 2 to 6 percent slopes	NHEL	5	0.28	86	4	100	0.4
I625C	Zell, fine-silty-LaDelle silty clay loams, 1 to 9 percent slopes	NHEL	5	0.28	86	4	100	0.4
I627A	Bearden-Fargo complex, 0 to 2 percent slopes	NHEL	5	0.32	86	1	100	0.13
I633A	Augsburg and Wheatville soils, 0 to 2 percent slopes	NHEL	4	0.28	86	1	100	0.13
I634A	Augsburg silt loam, 0 to 1 percent slopes	NHEL	4	0.28	86	1	100	0.13
I641A	Fargo silty clay, silty substratum, 0 to 1 percent slopes	NHEL	5	0.32	86	1	100	0.13
I642A	Fargo silty clay, silty substratum, depressional, 0 to 1 percent slopes	NHEL	5	0.32	86	1	100	0.13
I646A	Viking clay loam, 0 to 1 percent slopes	NHEL	5	0.32	56	1	100	0.13
I655A	Wheatville loam, 0 to 2 percent slopes	NHEL	4	0.28	86	1	100	0.13
I669A	Borup-Glyndon loams, 0 to 2 percent slopes	NHEL	4	0.28	86	1	100	0.13
I672A	Sioux sandy loam, 0 to 2 percent slopes	HEL	2	0.2	86	4	100	0.4
I672B	Sioux sandy loam, 2 to 6 percent slopes	HEL	2	0.2	86	4	100	0.4
I672C	Sioux sandy loam, 6 to 15 percent slopes	HEL	2	0.2	86	9	100	1.2
I673B	Lohnes coarse sandy loam, 2 to 6 percent slopes	NHEL	5	0.24	86	4	100	0.4
I674A	Lohnes sandy loam, 0 to 2 percent slopes	NHEL	5	0.24	86	1	100	0.13
I675B	Lohnes loamy sand, 2 to 6 percent slopes	NHEL	5	0.24	86	4	100	0.4
I676A	Syrene sandy clay loam, 0 to 2 percent slopes	NHEL	3	0.24	56	1	100	0.13

I678A	Osakis sandy loam, 0 to 2 percent slopes	NHEL	3	0.28	56	1	100	0.13
I683A	Flom clay loam, 0 to 1 percent slopes	NHEL	5	0.28	48	1	100	0.13
I684A	Flom clay loam, very poorly drained, 0 to 1 percent slopes	NHEL	5	0.28	48	1	100	0.13
I699A	Rockwell loam, 0 to 1 percent slopes	HEL	3	0.24	86	1	100	0.13
I700A	Rockwell loam, very poorly drained, 0 to 1 percent slopes	HEL	3	0.24	86	1	100	0.13
I712A	Glyndon silty clay loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1	100	0.13
I716A	Arveson clay loam, 0 to 1 percent slopes	NHEL	4	0.24	86	1	100	0.4
I717A	Arveson clay loam, very poorly drained, 0 to 1 percent slopes	NHEL	4	0.24	86	1	100	0.13
I724A	Elmville fine sandy loam, 0 to 2 percent slopes	NHEL	4	0.24	86	1	100	0.13
I729A	Wyndmere, moderately saline-Wyndmere fine sandy loams, 0 to 2 percent slopes	NHEL	5	0.2	86	1	100	0.13
I753A	Rosewood loamy fine sand, 0 to 1 percent slopes	HEL	5	0.17	134	1	100	0.13
I759A	Towner loamy fine sand, 0 to 3 percent slopes	HEL	5	0.17	134	1	100	0.13
I762A	Vallers loam, lake plain, 0 to 1 percent slopes	NHEL	5	0.28	86	1	100	0.13
I773E	Hapludolls-Fluvaquents, occasionally flooded complex, 0 to 30 percent slopes	PHEL	5	0.24	86	12	100	1.8
I794A	Haplaquolls and Histosols, ponded, 0 to 1 percent slopes	NHEL	5	0	0.001	1	100	0.13
I795A	Lamoure silt loam, 0 to 2 percent slopes, frequently flooded	NHEL	5	0.24	86	1	100	0.13
I823A	Rockwell and Kratka soils, 0 to 1 percent slopes	HEL	3	0.24	86	1	100	0.13

I837A	Urness mucky silt loam, 0 to 1 percent slopes	NHEL	5	0.28	86	1	100	0.13
I849A	Kittson fine sandy loam, wet, 0 to 2 percent slopes	NHEL	5	0.24	86	1	100	0.13
I900A	Urban Land, 0 to 2 percent slopes	NHEL	5	0.32	86	1	100	0.13
I901A	Urban Land-Aquerts complex, 0 to 2 percent slopes	NHEL	5	0.32	86	1	100	0.13
I906F	Orthents-Aquents-Urban Land, highway complex, 0 to 35 percent slopes	NHEL	5	0.28	86	1	100	0.13
IGp	Pits, gravel and sand	NHEL	5	0.15	134	1	100	0.13
IM-W	Miscellaneous water							
IWa	Water							
M-W	Water, miscellaneous							
W	Water							