

Highly erodible soil mapunit list - Freeborn County, MN

This data is only to be used for HEL determinations

C=1.00 R=150

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Mapunit

Symbol	Mapunit Name	HELC	T	K	I	slope %	slope l	LS
L13A	Klossner muck, 0 to 1 percent slopes	NHEL	2	0.10	134	1.00	200	0.16
L83A	Webster clay loam, 0 to 2 percent slopes	NHEL	5	.24	48	1.00	200	0.20
L84A	Glencoe clay loam, 0 to 1 percent slopes	NHEL	5	.28	48	1.00	200	0.16
L85A	Nicollet clay loam, 1 to 3 percent slopes	NHEL	5	.24	48	2.00	200	0.25
5	Dakota loam, 0 to 2 percent slopes	NHEL	4	.24	56	1.00	150	0.15
5B	Dakota loam, 2 to 6 percent slopes	NHEL	4	.24	56	3.00	150	0.35
5C	Dakota loam, 6 to 14 percent slopes	PHEL	4	.24	56	10.00	125	1.53
23	Skyberg silt loam	NHEL	5	.37	48	1.00	200	0.16
24B	Kasson silt loam, 1 to 4 percent slopes	NHEL	5	.32	56	3.00	200	0.39
27	Dickinson fine sandy loam, 0 to 2 percent slopes	NHEL	4	.20	86	1.00	100	0.13
27B	Dickinson fine sandy loam, 2 to 6 percent slopes	NHEL	4	.20	86	3.00	150	0.35
27C	Dickinson fine sandy loam, 6 to 16 percent slopes	PHEL	4	.20	86	8.00	125	1.11
35	Blue Earth mucky silt loam, 0 to 1 percent slopes	NHEL	5	.28	86	1.00	400	0.20
41	Estherville sandy loam, 0 to 2 percent slopes	NHEL	3	.20	86	1.00	300	0.18
41B	Estherville sandy loam, 2 to 6 percent slopes	NHEL	3	.20	86	4.00	150	0.47
41C	Estherville sandy loam, 6 to 12 percent slopes	HEL	3	.20	86	8.00	125	1.11
41D	Estherville sandy loam, 12 to 18 percent slopes	HEL	3	.20	86	14.00	125	1.11
42D	Hawick gravelly sandy loam, 12 to 20 percent slopes	HEL	3	0.10	0	20.00	100	4.08
62	Barrington silt loam, 1 to 3 percent slopes	NHEL	5	.32	48	2.00	200	0.25
83	Maxcreek silty clay loam, swales	NHEL	5	.28	38	1.00	200	0.16
84	Brownton silty clay loam, 0 to 2 percent slopes	NHEL	5	.28	86	1.00	400	0.20
86	Canisteo clay loam, 0 to 2 percent slopes	NHEL	5	.24	86	1.00	150	0.15
87B	Chelsea loamy fine sand, 4 to 10 percent slopes	NHEL	5	.17	134	8.00	200	1.40
94B	Terril loam, 2 to 6 percent slopes	NHEL	5	.24	48	6.00	150	0.82
102B	Clarion loam, 2 to 6 percent slopes	NHEL	5	.24	48	4.00	125	0.44
102C	Clarion loam, 6 to 10 percent slopes	PHEL	5	.24	48	8.00	125	1.11
102D	Clarion loam, 12 to 18 percent slopes	HEL	5	.24	48	14.00	125	2.57
104B	Hayden loam, 2 to 6 percent slopes	NHEL	5	.32	56	5.00	130	0.58
104C	Hayden loam, 6 to 10 percent slopes	HEL	5	.32	56	8.00	130	1.13
104D	Hayden loam, 10 to 22 percent slopes	HEL	5	.32	56	14.00	125	2.57
106B	Lester loam, 2 to 6 percent slopes	NHEL	5	0.28	48	4.00	125	0.44
106C2	Lester loam, 6 to 10 percent slopes, moderately eroded	PHEL	5	0.28	48	8.00	130	1.13

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106D2	Lester loam, 10 to 16 percent slopes, moderately eroded	HEL	5	0.28	48	14.00	100	2.29
106E	Lester loam, 16 to 22 percent slopes	HEL	5	0.28	48	22.00	100	4.77
110	Marna silty clay loam, 0 to 2 percent slopes	NHEL	5	.28	86	1.00	200	0.16
112	Harps clay loam, 0 to 2 percent slopes	NHEL	5	.24	86	1.00	100	0.13
114	Glencoe clay loam, 0 to 1 percent slopes	NHEL	5	.28	48	1.00	200	0.16
123	Dundas silt loam, 0 to 2 percent slopes	NHEL	5	.28	48	1.00	100	0.13
129	Cylinder loam, 0 to 2 percent slopes	NHEL	4	.24	48	1.00	400	0.20
134	Okoboji silty clay loam, 0 to 1 percent slopes	NHEL	5	.32	86	1.00	200	0.16
136	Madelia silty clay loam, 0 to 2 percent slopes	NHEL	5	.28	38	1.00	400	0.20
138B	Lerdal silty clay loam, 2 to 6 percent slopes	NHEL	3	.37	38	4.00	125	0.44
138C2	Lerdal silty clay loam, 6 to 15 percent slopes, eroded	HEL	3	.37	38	8.00	150	1.21
140	Spicer silty clay loam, 0 to 2 percent slopes	NHEL	5	.28	86	1.00	400	0.20
154	Blue Earth muck	NHEL	5	0.28	134	1.00	400	0.20
156	Fairhaven loam, 0 to 2 percent slopes	NHEL	4	.32	48	1.00	150	0.15
156B	Fairhaven loam, 2 to 6 percent slopes	NHEL	4	.32	48	4.00	150	0.47
160	Fieldon loam, 0 to 2 percent slopes	NHEL	4	.28	86	1.00	400	0.20
183	Dassel loam	NHEL	4	.20	56	1.00	100	0.13
190	Hayfield silt loam, 1 to 3 percent slopes	NHEL	4	.32	48	2.00	150	0.23
216B	Lamont fine sandy loam, 2 to 6 percent slopes	NHEL	4	.24	86	4.00	150	0.47
216C	Lamont fine sandy loam, 6 to 12 percent slopes	PHEL	4	.24	86	8.00	150	1.21
227	Lemond loam, 0 to 2 percent slopes	NHEL	4	.24	86	1.00	400	0.20
229	Waldorf silty clay loam, 0 to 2 percent slopes	NHEL	5	.28	86	1.00	200	0.20
238B	Kilkenny clay loam, 2 to 6 percent slopes	NHEL	5	.28	48	4.00	125	0.44
238C2	Kilkenny clay loam, 6 to 10 percent slopes, moderately eroded	HEL	5	.28	48	8.00	100	0.99
238D2	Kilkenny clay loam, 10 to 16 percent slopes, moderately eroded	HEL	5	.28	48	14.00	150	2.81
238E	Kilkenny clay loam, 16 to 30 percent slopes	HEL	5	.28	48	20.00	130	4.65
239	Le Sueur loam, 1 to 3 percent slopes	NHEL	5	.24	48	2.00	200	0.25
247	Linder sandy loam, 0 to 3 percent slopes	NHEL	4	.20	86	2.00	100	0.20
252	Marshan silt loam	NHEL	4	.28	48	1.00	200	0.16
253	Maxcreek silty clay loam	NHEL	5	.28	38	1.00	250	0.17
255	Mayer loam, 0 to 2 percent slopes	NHEL	4	.24	86	1.00	400	0.20

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259B	Grays silt loam, 1 to 6 percent slopes	NHEL	5	.32	48	4.00	150	0.48
259C	Grays silt loam, 6 to 12 percent slopes	HEL	5	.32	48	8.00	125	1.11
282	Hanska loam, 0 to 2 percent slopes	NHEL	4	.28	56	1.00	125	0.15
286B	Shorewood silty clay loam, 1 to 6 percent slopes	NHEL	5	0.37	38	4.00	150	0.47
286C2	Shorewood silty clay loam, 6 to 12 percent slopes, eroded	HEL	5	0.37	38	8.00	100	0.99
287	Minnetonka silty clay loam	NHEL	5	.28	38	1.00	150	0.15
300	Dassel mucky loam	NHEL	4	.20	56	1.00	200	0.16
318	Mayer loam, swales	NHEL	4	.24	86	1.00	400	0.20
350	Canisteo clay loam, depressional, 0 to 1 percent slopes	NHEL	5	.24	86	1.00	300	0.18
376B	Moland silt loam, 2 to 6 percent slopes	NHEL	5	.32	48	4.00	150	0.47
377	Merton silt loam, 1 to 3 percent slopes	NHEL	5	.32	48	2.00	200	0.25
378	Maxfield silty clay loam, 0 to 2 percent slopes	NHEL	5	.28	38	1.00	250	0.17
380	Havana silt loam	NHEL	5	.32	48	1.00	200	0.16
381	Newry silt loam, 1 to 3 percent slopes	NHEL	5	.32	48	2.00	200	0.16
382B	Blooming silt loam, 2 to 6 percent slopes	NHEL	5	.32	48	4.00	200	0.53
382C	Blooming silt loam, 6 to 12 percent slopes	HEL	5	.32	48	8.00	150	1.21
386	Wacousta mucky silt loam	NHEL	5	.28	48	1.00	400	0.20
391	Spicer silt loam, depressional	NHEL	5	.28	86	1.00	400	0.20
392	Biscay clay loam, 0 to 2 percent slopes	NHEL	4	.28	48	1.00	300	0.18
393	Udolpho silt loam	NHEL	4	.32	48	1.00	200	0.16
400	Wacousta silt loam	NHEL	5	.28	48	1.00	400	0.20
414	Hamel loam, 0 to 2 percent slopes	NHEL	5	.28	48	3.00	200	0.39
444	Canisteo clay loam, 0 to 2 percent slopes	NHEL	5	.24	86	1.00	150	0.15
447	Harpster silty clay loam	NHEL	5	.28	86	1.00	150	0.15
465	Kalmarville loam, frequently flooded	NHEL	5	0.28	56	1.00	200	0.16
517	Shandep loam	NHEL	5	.24	48	1.00	200	0.16
518	Kalmarville loam, occasionally flooded	NHEL	5	0.28	56	1.00	100	0.13
519	Klossner muck, calcareous	NHEL	5	0.10	134	1.00	200	0.16
521	Adrian muck	NHEL	4	0.10	134	1.00	200	0.16
524	Caron muck	NHEL	5	0.10	134	1.00	200	0.16
525	Muskego soils, 0 to 1 percent slopes	NHEL	4	0.10	134	1.00	200	0.16

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920B	Clarion-Estherville complex, 2 to 6 percent slopes	NHEL	5	0.28	86	5.00	125	0.57
920C	Clarion-Storden-Pilot Grove complex, 6 to 10 percent slopes, moderately eroded	HEL	5	.28	86	8.00	125	1.11
920D	Omsrud-Storden-Pilot Grove complex, 10 to 16 percent slopes, moderately eroded	HEL	5	.28	86	14.00	125	2.57
921B	Clarion-Swanlake complex, 2 to 6 percent slopes	NHEL	5	.28	86	5.00	100	0.52
921C	Clarion-Storden complex, 6 to 10 percent slopes, moderately eroded	PHEL	5	.28	86	8.00	125	1.11
921D	Omsrud-Storden complex, 10 to 16 percent slopes, moderately eroded	HEL	5	.28	86	14.00	125	2.57
921E	Omsrud-Storden complex, 10 to 22 percent slopes, moderately eroded	HEL	5	.28	86	20.00	100	4.08
925	Cordova-Barbert complex	NHEL	5	.28	48	1.00	200	0.16
940	Maxcreek-Barbert complex	NHEL	5	.28	38	1.00	200	0.16
944B	Lester-Estherville complex, 2 to 6 percent slopes	NHEL	3	.20	86	4.00	125	0.44
944C2	Lester-Estherville complex, 6 to 12 percent slopes, eroded	HEL	3	.20	86	8.00	130	1.13
944D2	Lester-Estherville complex, 12 to 18 percent slopes, eroded	HEL	3	.20	86	14.00	100	2.29
944E	Lester-Estherville complex, 18 to 24 percent slopes	HEL	3	.20	86	22.00	100	4.77
1003	Anthropotic Udorthents-Pits-Dumps complex, abandoned, 2 to 45 percent slopes	NHEL	5	0.10	134	5.00	125	0.57
1027	Udorthents, wet substratum	NHEL	5	0.24	48	1.00	200	0.16
1030	Pits, sand and Gravel	NHEL	5	0.10	134	5.00	125	0.57
1033	Udipsamments	NHEL	5	0.20	134	4.00	200	0.53
1034	Fluvaquents, loamy	NHEL	5	0.20		1.00	200	0.16
1055	Aquents and Histosols, ponded	NHEL	5	0.20	0	1.00	200	0.16
1078	Udorthents	NHEL	5	0.24	48	1.00	200	0.16
1805	Blue Earth variant silt loam	NHEL	5	.28	86	1.00	400	0.20
1806	Lerdal silty clay loam, silty substratum, 0 to 2 percent slopes	NHEL	3	.37	38	1.00	150	0.15
1806B	Lerdal silty clay loam, silty substratum, 2 to 10 percent slopes	PHEL	3	.37	38	7.00	150	1.01
1818	Adrian muck, deep	NHEL	4	0.10	134	1.00	200	0.16
W	Water							
WL	Water, waste lagoon							