

Highly Erodible Soil Map Unit List - Stearns County, MN

C= 0.15

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 "HELC" should only be used for PHEL.

Mapunit Symbol	Mapunit Name	HELC	T	K	I	Slope Percent	Slope Length	LS
5A	Dakota loam, 0 to 2 percent slopes	NHEL	4	0.24	56	1.00	125	0.13
5B	Dakota loam, 2 to 6 percent slopes	NHEL	4	0.24	56	3.00	150	0.32
25	Becker fine sandy loam	NHEL	4	0.20	86	1.00	100	0.13
32B	Nebish loam, 1 to 8 percent slopes	NHEL	5	0.24	86	4.00	175	0.50
32C	Nebish loam, 3 to 15 percent slopes	PHEL	5	0.24	86	11.00	150	1.90
32E	Nebish loam, 8 to 30 percent slopes	HEL	5	0.24	86	20.00	130	4.50
32F	Nebish sandy loam, 25 to 40 percent slopes	HEL	5	0.24	86	30.00	120	9.00
35	Urness mucky silty clay loam, occasionally ponded, 0 to 1 percent slopes	NHEL	5	0.28	86	0.50	200	0.12
36	Lakepark-Parnell, occasionally ponded, complex, 0 to 2 percent slopes	NHEL	5	0.28	48	1.00	75	0.12
38B	Waukon loam, 2 to 6 percent slopes	NHEL	5	0.24	48	4.00	175	0.50
38C	Waukon, moderately eroded-Langhei complex, 6 to 12 percent slopes	PHEL	5	0.24	48	9.00	150	1.40
38D	Waukon, moderately eroded-Langhei complex, 12 to 20 percent slopes	HEL	5	0.24	48	15.00	130	2.80

Mapunit Symbol	Mapunit Name	HELC	T	K	I	Slope Percent	Slope Length	LS
41A	Estherville sandy loam, 0 to 2 percent slopes	NHEL	3	0.20	86	1.00	200	0.16
41B	Estherville sandy loam, 2 to 6 percent slopes	NHEL	3	0.20	86	3.00	175	0.34
41C	Estherville sandy loam, 6 to 12 percent slopes	PHEL	3	0.20	86	9.00	150	1.40
69B	Fedji loamy sand, 2 to 6 percent slopes	NHEL	5	0.17	134	3.00	175	0.34
72	Shooker loam	NHEL	5	0.28	56	1.00	75	0.12
75	Bluffton loam	NHEL	5	0.28	56	0.50	100	0.10
109	Cordova loam	NHEL	5	0.28	48	1.00	75	0.12
114	Quam silty clay loam, occasionally ponded, 0 to 1 percent slopes	NHEL	5	0.28	48	0.50	150	0.11
119B	Pomroy fine sand, 1 to 6 percent slopes	NHEL	4	0.15	220	4.00	175	0.51
125	Beltrami loam, 1 to 3 percent slopes	NHEL	5	0.28	56	1.00	75	0.12
129	Cylinder loam	NHEL	4	0.24	48	1.00	100	0.13
133B	Dalbo loam, 2 to 8 percent slopes	NHEL	3	0.32	48	4.00	175	0.51
142	Nokay fine sandy loam	NHEL	4	0.24	86	1.00	100	0.13
144B	Flak sandy loam, 4 to 8 percent slopes	NHEL	4	0.28	86	5.00	200	0.76
144C	Flak sandy loam, 8 to 15 percent slopes	HEL	4	0.28	86	10.00	150	1.60

Mapunit Symbol	Mapunit Name	HEL	T	K	I	Slope Percent	Slope Length	LS
144E	Flak sandy loam, 15 to 25 percent slopes	HEL	4	0.28	86	20.00	125	4.50
155B	Chetek sandy loam, 1 to 6 percent slopes	NHEL	3	0.24	86	3.00	150	0.34
156A	Fairhaven loam, 0 to 2 percent slopes	NHEL	4	0.32	48	1.00	175	0.15
156B	Fairhaven loam, 2 to 6 percent slopes	NHEL	4	0.32	48	3.00	160	0.33
159B	Anoka loamy sand, 2 to 8 percent slopes	NHEL	5	0.17	134	4.00	150	0.47
163B	Brainerd fine sandy loam, 1 to 4 percent slopes	NHEL	4	0.28	86	3.00	250	0.37
179B	Langola loamy sand, 1 to 4 percent slopes	NHEL	4	0.17	134	3.00	200	0.35
180B	Gonvick loam, 1 to 4 percent slopes	NHEL	5	0.24	48	3.00	175	0.34
181	Litchfield loamy sand	NHEL	5	0.17	134	1.00	100	0.13
183	Forada sandy loam, 0 to 2 percent slopes	NHEL	4	0.20	86	1.00	100	0.13
200B	Holdingford sandy loam, 4 to 8 percent slopes	NHEL	5	0.24	86	6.00	175	0.90
200C	Holdingford sandy loam, 8 to 15 percent slopes	PHEL	5	0.24	86	11.00	130	1.80
204B	Cushing sandy loam, 2 to 8 percent slopes	NHEL	5	0.24	86	4.00	150	0.47
204C	Cushing sandy loam, 8 to 15 percent slopes	PHEL	5	0.24	86	10.00	130	1.60
204E	Cushing sandy loam, 15 to 25 percent slopes	HEL	5	0.24	86	18.00	110	3.50

Mapunit Symbol	Mapunit Name	HEL	T	K	I	Slope Percent	Slope Length	LS
207B	Nymore loamy sand, 1 to 6 percent slopes	NHEL	5	0.17	134	4.00	175	0.51
207C	Nymore loamy sand, 8 to 15 percent slopes	PHEL	5	0.17	134	9.00	125	1.30
207E	Nymore loamy sand, 15 to 25 percent slopes	HEL	5	0.17	134	20.00	120	4.50
218	Watab loamy fine sand	NHEL	4	0.17	134	1.00	75	0.12
233B	Growton sandy loam, 1 to 4 percent slopes	NHEL	5	0.24	86	2.00	175	0.24
236	Vallers clay loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1.00	75	0.12
255	Marysland loam, 0 to 2 percent slopes	NHEL	4	0.24	86	1.00	100	0.13
260	Duelm loamy sand, 0 to 2 percent slopes	NHEL	5	0.17	134	1.00	150	0.15
261	Isan-Isan, frequently ponded, complex, 0 to 2 percent slopes	NHEL	5	0.17	134	0.50	175	0.12
281	Darfur coarse sandy loam	NHEL	5	0.17	86	1.00	75	0.12
292B	Alstad sandy loam, 1 to 4 percent slopes	NHEL	5	0.24	86	2.00	175	0.24
318	Marysland loam, occasionally ponded, 0 to 1 percent slopes	NHEL	4	0.24	86	0.50	150	0.11
325	Prebish sandy loam, depressional	NHEL	5	0.20	86	0.50	150	0.11
327A	Sverdrup sandy loam, Sandy Outwash, 0 to 2 percent slopes	NHEL	3	0.20	86	1.00	200	0.25
327B	Sverdrup sandy loam, Sandy Outwash, 2 to 6 percent slopes	NHEL	3	0.20	86	3.00	175	0.34

Mapunit Symbol	Mapunit Name	HELC	T	K	I	Slope Percent	Slope Length	LS
392	Biscay loam	NHEL	4	0.28	48	1.00	75	0.12
399	Biscay loam, depressional	NHEL	4	0.28	48	0.50	150	0.11
406B	Dorset sandy loam, 2 to 6 percent slopes	NHEL	3	0.20	86	4.00	175	0.51
406C	Dorset sandy loam, 6 to 12 percent slopes	PHEL	3	0.20	86	11.00	150	2.00
406E	Dorset sandy loam, 15 to 25 percent slopes	HEL	3	0.20	86	18.00	125	4.00
413	Osakis loam, 0 to 2 percent slopes	NHEL	3	0.28	56	1.00	75	0.12
414	Hamel loam	NHEL	5	0.28	48	1.00	75	0.12
421C	Barnes-Buse complex, 6 to 12 percent slopes, moderately eroded	PHEL	5	0.24	48	9.00	150	1.40
446A	Normania loam, 1 to 3 percent slopes	NHEL	5	0.24	48	2.00	200	0.25
446B	Hokans-Svea complex, 1 to 4 percent slopes	NHEL	5	0.24	48	3.00	150	0.32
453B	DeMontreville loamy sand, 2 to 8 percent slopes	NHEL	5	0.17	134	4.00	130	0.44
453C	DeMontreville loamy sand, 8 to 15 percent slopes	PHEL	5	0.17	134	11.00	125	1.80
454B	Mahtomedi loamy coarse sand, 2 to 8 percent slopes	NHEL	5	0.15	134	4.00	130	0.44
454C	Mahtomedi loamy coarse sand, 8 to 15 percent slopes	PHEL	5	0.15	134	10.00	125	1.60
454E	Mahtomedi loamy coarse sand, 15 to 25 percent slopes	HEL	5	0.15	134	18.00	120	4.00

Mapunit Symbol	Mapunit Name	HELC	T	K	I	Slope Percent	Slope Length	LS
454F	Mahtomedi loamy coarse sand, 25 to 40 percent slopes	HEL	5	0.15	134	30.00	120	9.00
459	Corunna loam	NHEL	5	0.24	56	1.00	75	0.12
465	Kalmarville sandy loam, frequently flooded	NHEL	5	0.20	86	1.00	100	0.13
511	Marcellon loam	NHEL	5	0.24	56	1.00	75	0.12
525	Muskego muck	NHEL	4	0.10	134	0.50	200	0.12
540	Seelyeville-Seelyeville, ponded, complex, 0 to 1 percent slopes	NHEL	5	0.10	134	0.50	200	0.12
541	Rifle-Rifle, ponded, complex, 0 to 1 percent slopes	NHEL	5	0.10	56	0.50	200	0.12
543	Markey muck	NHEL	4	0.10	134	0.50	200	0.12
544	Cathro muck, occasionally ponded, 0 to 1 percent slopes	NHEL	5	0.10	134	0.50	200	0.12
565	Eckvoll loamy sand	NHEL	5	0.17	134	2.00	150	0.23
566	Regal loam	NHEL	3	0.24	86	1.00	100	0.13
571	Coriff loam	NHEL	5	0.28	86	1.00	75	0.12
572	Lowlein sandy loam	NHEL	5	0.20	86	1.00	75	0.12
582	Roliss loam, 0 to 2 percent slopes	NHEL	5	0.28	48	1.00	75	0.12
591B	Byrne silt loam, 1 to 6 percent slopes	NHEL	5	0.32	48	3.00	150	0.32

Mapunit Symbol	Mapunit Name	HELC	T	K	I	Slope Percent	Slope Length	LS
597	Tara silt loam	NHEL	5	0.28	48	1.00	90	0.12
611C	Sanbderg loamy sand, 2 to 12 percent slopes	NHEL	5	0.17	134	9.00	110	1.20
611D	Sandberg loamy coarse sand, 6 to 30 percent slopes	PHEL	5	0.17	134	18.00	100	3.50
639A	Ridgeport sandy loam, 0 to 2 percent slopes	NHEL	4	0.20	86	1.00	175	0.15
639B	Ridgeport sandy loam, 2 to 6 percent slopes	NHEL	4	0.20	86	3.00	150	0.32
804D	Koronis-Estherville complex, 12 to 25 percent slopes	HEL	5	0.28	56	18.00	125	4.00
848	Urban land-Osakis complex	NHEL	3	0.28	56	1.00	125	0.14
850	Urban land-Dassel complex	NHEL	4	0.20	86	1.00	75	0.12
873	Prebish-Nokay complex	NHEL	4	0.24	86	1.00	100	0.13
875B	Estherville-Hawick complex, 2 to 6 percent slopes	NHEL	3	0.20	86	3.00	150	0.32
954D	Langhei-Barnes, moderately eroded, complex, 12 to 20 percent slopes	HEL	5	0.28	86	15.00	130	2.80
999B	Ves-Estherville complex, 2 to 6 percent slopes	NHEL	5	0.24	48	3.00	130	0.31
999C	Ves-Estherville complex, 6 to 12 percent slopes	PHEL	5	0.24	48	9.00	130	1.30
999D	Ves-Estherville complex, 12 to 25 percent slopes	HEL	5	0.24	48	18.00	120	4.00
1015	Psamments, sloping	NHEL	5	0.10	180	3.00	150	0.32

Mapunit Symbol	Mapunit Name	HEL	T	K	I	Slope Percent	Slope Length	LS
1016	Udorthents, loamy	NHEL	5	0.24	86	2.00	100	0.20
1018	Udifluents, frequently flooded	NHEL	5	0.24	86	1.00	100	0.13
1055	Quam, Cathro, and Urness soils, frequently ponded, 0 to 1 percent slopes	NHEL	5	0.24	86	1.00	100	0.13
1064	Rock outcrop-lithic eutrocrepts complex	NHEL	2	0.24	0	2.00	100	0.20
1113	Haslie, Seelyeville, and Cathro soils, frequently ponded, 0 to 1 percent slopes	NHEL	5	0.24	86	1.00	100	0.13
1163	Cohoctah loam, 0 to 2 percent, frequently flooded	NHEL	5	0.28	86	1.00	100	0.13
1805	Blue Earth variant, mucky silt loam	NHEL	4	0.28	56	0.50	200	0.12
1825C	Seelyeville muck, seep, 1 to 10 percent slopes	NHEL	5	0.10	134	3.00	300	0.40
1828	Glencoe muck	NHEL	5	0.10	134	0.50	150	0.11
1842F	Cushing and Flak sandy loams, steep	HEL	4	0.28	86	20.00	130	4.50
1843C	Cushing-DeMontreville complex, 8 to 15 percent slopes	PHL	5	0.24	86	11.00	125	1.80
1843E	Cushing-DeMontreville complex, 15 to 25 percent slopes	HEL	5	0.24	86	20.00	120	4.50
1879	Seelyeville muck, calcareous	NHEL	5	0.10	134	0.50	200	0.12
1880	Martisco mucky silt loam	NHEL	3	0.10	134	0.50	200	0.12
1892	Prebish fine sandy loam	NHEL	5	0.20	86	0.50	150	0.11

Mapunit Symbol	Mapunit Name	HELK	T	K	I	Slope Percent	Slope Length	LS
1902B	Jewett silt loam, 2 to 8 percent slopes	NHEL	4	0.37	56	4.00	175	0.51
D64B	Urban land-Hubbard complex, Mississippi River Valley, 0 to 8 percent slopes	NHEL	5	0.15	134	4.00	150	0.47
D67A	Hubbard loamy sand, 0 to 2 percent slopes	NHEL	5	0.15	134	1.00	200	0.16
D67B	Hubbard loamy sand, 1 to 6 percent slopes	NHEL	5	0.15	134	3.00	175	0.34
D67C	Hubbard loamy sand, 2 to 12 percent slopes	NHEL	5	0.15	134	9.00	150	1.40
D105A	Arvilla sandy loam, 0 to 2 percent slopes	NHEL	3	0.20	86	1.00	200	0.16
D105B	Arvilla sandy loam, 2 to 6 percent slopes	NHEL	3	0.20	86	3.00	175	0.34
D105C	Arvilla sandy loam, 6 to 12 percent slopes	PHEL	3	0.20	86	9.00	150	1.40
J30A	Tara silt loam, 1 to 3 percent slopes	NHEL	5	0.28	48	1.00	90	0.12
J105A	Arvilla sandy loam, Till Prairie, 0 to 2 percent slopes	NHEL	3	0.20	86	1.00	200	0.16
L6A	Biscay clay loam, 0 to 2 percent slopes	NHEL	4	0.28	48	1.00	75	0.12
L307B	Koronis loam, 2 to 6 percent slopes	NHEL	5	0.28	56	3.00	150	0.32
L307C2	Koronis loam, 6 to 10 percent slopes, moderately eroded	PHEL	5	0.28	56	9.00	130	1.40
L307E	Koronis Loam, 18 to 40 percent slopes	HEL	5	0.24	86	20.00	130	4.50
L316B	Haplosaprists, calcareous-Aquolls complex, 1 to 6 percent slopes	NHEL	5	0.10	134	3.00	300	0.40

Mapunit Symbol	Mapunit Name	HEL	T	K	I	Slope Percent	Slope Length	LS
L317A	Barry Loam, 0 to 2 percent slopes	NHEL	5	0.28	48	1.00	75	0.12
L318A	Lundlake silty clay loam, 0 to 1 percent slopes	NHEL	5	0.28	48	0.50	150	0.11
L319A	Swedergrove-Lundlake complex, 0 to 2 percent slopes	NHEL	5	0.28	48	1.00	75	0.12
L320A	Muskego and Klossner soils, Lundlake catena, 0 to 1 percent slopes, frequently flooded	NHEL	5	0.24	86	1.00	100	0.13
L321A	Swedergrove 0 to 2 percent slopes	NHEL	5	0.28	48	1.00	75	0.12
L322A	Uniongrove loam, 0 to 2 percent slopes	NHEL	5	0.28	48	1.00	75	0.12
L323A	Crowriver loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1.00	75	0.12
L324A	Forestcity, overwash-Forestcity complex, 1 to 4 percent slopes	NHEL	5	0.28	48	1.00	75	0.12
L325A	Crowriver-Lundlake complex, 0 to 2 percent slopes	NHEL	5	0.28	86	1.00	75	0.12
L326B	Rohrbeck-Koronis complex, 1 to 6 percent slopes	NHEL	5	0.17	134	3.00	175	0.34
L330A	Muskego, Blue Earth and Houghton soils, lundlake catena, 0 to 1 percent slopes, ponded	NHEL	5	0.24	86	1.00	100	0.13
L331A	Klossner muck, lundlake catena, 0 to 1 percent, ponded	NHEL	5	0.10	134	0.50	200	0.12
L333A	Blue Earth soils, lundlake catena, 0 to 1 percent slopes	NHEL	5	0.28	86	0.50	200	0.12
L334A	Houghton and Muskego soils, lundlake catena, 0 to 1 percent slopes	NHEL	5	0.10	134	0.50	200	0.12
L335A	Klossner soils, lundlake catena, 0 to 1 percent slopes	NHEL	5	0.28	48	0.50	150	0.11

Mapunit Symbol	Mapunit Name	HEL	T	K	I	Slope Percent	Slope Length	LS
L337B	Wadenill-Sunburg complex, 2 to 6 percent slopes	NHEL	5	0.24	48	3.00	175	0.34
L347A	Klossner and Lundlake soils, 0 to 1 percent slopes, ponded	NHEL	5	0.28	48	0.50	150	0.11
L350A	Marcellon loam, 0 to 3 percent slopes	NHEL	5	0.24	56	1.00	75	0.12
L351A	Houghton muck, lundlake catena, 0 to 1 percent slopes	NHEL	5	0.10	56	0.50	200	0.12
L352A	Muskego muck, lundlake catena, 0 to 1 percent slopes	NHEL	5	0.10	134	0.50	200	0.12
L355B	Koronis-Sundburg-Hawick complex, 2 to 6 percent slopes	NHEL	5	0.24	48	3.00	130	0.31
L355C2	Koronis-Sundburg-Hawick complex, 6 to 12 percent slopes, moderately eroded	PHEL	5	0.24	48	9.00	130	1.30
L355D2	Koronis-Sundburg-Hawick complex, 12 to 18 percent slopes, moderately eroded	HEL	5	0.28	56	18.00	125	4.00
L355E	Koronis-Sundburg-Hawick complex, 18 to 40 percent slopes	HEL	5	0.28	56	18.00	125	4.00
L356C2	Sunburg-Wadenill complex, 6 to 12 percent slopes, moderately eroded	PHEL	5	0.24	48	9.00	150	1.40
L356D2	Sunburg-Wadenill complex, 12 to 18 percent slopes, moderately eroded	HEL	5	0.28	86	15.00	130	2.80
L357B	Koronis-Sunburg complex, 2 to 6 percent slopes	NHEL	5	0.28	56	3.00	150	0.32
L357C2	Koronis-Sunburg complex, 6 to 12 percent slopes, moderately eroded	PHEL	5	0.28	56	9.00	130	1.40
L357D2	Koronis-Sunburg complex, 12 to 18 percent slopes, moderately eroded	HEL	5	0.28	56	18.00	130	4.00
1013	Pits, quarry							

Mapunit Symbol	Mapunit Name	HELC	T	K	I	Slope Percent	Slope Length	LS
1029	Pits, gravel							
L611C	Hawick gravelly sandy loam, 6 to 12 percent slopes	PHEL	5	0.24	48	9.00	130	1.30
M-W	Water, miscellaneous							
W	Water							