

Highly Erodible Soil Map Unit List - Grant County, MN

C= 0.25

R= 100

This data is only to be used for HEL determinations

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

Mapunit Symbol	Mapunit Name	HEL	T	K	I	Slope Percent
34	Parnell silty clay loam, occasionally ponded, 0 to 1 percent slopes	NHEL	5	0.28	38	1.00
36	Lakepark-Parnell, occasionally ponded, complex, 0 to 2 percent slopes	NHEL	5	0.28	38	1.00
38C	Waukon, moderately eroded-Langhei complex, 6 to 12 percent slopes	PHEL	5	0.24	48	8.00
38D	Waukon loam, 12 to 20 percent slopes	HEL	5	0.24	48	18.00
45B	Maddock loamy sand, 1 to 6 percent slopes	NHEL	5	0.17	134	4.00
45C	Maddock loamy sand, 6 to 18 percent slopes	PHEL	5	0.17	134	12.00
60	Glyndon sil loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1.00
61	Arveson fine sandy loam	NHEL	4	0.17	86	1.00
67	Bearden silt loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1.00
70	Svea loam, 1 to 3 percent slopes	NHEL	5	0.28	48	2.00
108	McIntosh silt loam, 1 to 3 percent slopes	NHEL	5	0.28	86	1.00
127B	Sverdrup sandy loam, 2 to 6 percent slopes	NHEL	4	0.20	86	4.00

Mapunit Symbol	Mapunit Name	HELC	T	K	I	Slope Percent
184	Balaton-Hamerly complex, 1 to 4 percent slopes	NHEL	5	0.28	86	2.00
212B	Sinai silty clay, 1 to 6 percent slopes	NHEL	5	0.28	86	4.00
212C	Sinai silty clay, 6 to 12 percent slopes	PHEL	5	0.28	86	9.00
220E	Langhei loam, 12 to 40 percent slopes	HEL	5	0.32	86	27.00
236	Vallers clay loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1.00
276	Oldham silty clay loam	NHEL	5	0.28	86	1.00
290B	Eckman silt loam, 1 to 6 percent slopes	NHEL	5	0.32	56	4.00
335	Urness mucky silty clay loam, occasionally ponded, 0 to 1 percent slopes	NHEL	5	0.28	86	1.00
339	Fordville loam, 0 to 2 percent slopes	NHEL	4	0.24	48	1.00
341	Arvilla sandy loam, Till Prairie, 0 to 2 percent slopes	NHEL	3	0.20	86	1.00
341B	Arvilla sandy loam, Till Prairie, 2 to 6 percent slopes	NHEL	3	0.20	86	4.00
344	Quam silty clay loam, occasionally ponded, 0 to 1 percent slopes	NHEL	5	0.28	38	1.00
359	Lamoure silt loam, 0 to 2 percent slopes, frequently flooded	NHEL	5	0.28	86	1.00
375	Forada sandy loam, 0 to 2 percent slopes	NHEL	4	0.20	86	1.00
402B	Sandberg sandy loam, 1 to 6 percent slopes	NHEL	5	0.17	134	1.00

Mapunit Symbol	Mapunit Name	HELC	T	K	I	Slope Percent
402C	Sandberg sandy loam, 2 to 12 percent slopes	NHEL	5	0.17	134	9.00
402D	Sandberg gravelly sandy loam, 6 to 30 percent slopes	PHEL	5	0.10	134	23.00
418	Lamoure silty clay loam, 0 to 2 percent slopes, occasionally flooded	NHEL	5	0.28	86	1.00
494B	Darnen loam, 1 to 6 percent slopes	NHEL	5	0.28	48	2.00
903B	Hokans-Buse complex, 2 to 6 percent slopes	NHEL	5	0.32	86	5.00
914	Grimstad-Towner complex, 0 to 2 percent slopes	NHEL	5	0.28	86	1.00
942C2	Langhei-Barnes loams, 6 to 12 percent slopes, eroded	PHEL	5	0.32	86	9.00
942D2	Langhei-Barnes, moderately eroded, complex, 12 to 20 percent slopes	HEL	5	0.32	86	15.00
962	Svea-Hamerly loams, 1 to 3 percent slopes	NHEL	5	0.28	86	2.00
1002	Alluvial land, frequently flooded	NHEL	5	0.24	86	1.00
1032	Lake beaches	NHEL	5	0.17	86	1.00
1053	Quam, Cathro, and Urness soils, frequently ponded, 0 to 1 percent slopes	NHEL				1.00
GP	Gravel pit					
I18A	Foldahl loamy fine sand, loamy till substratum, 0 to 3 percent slopes	NHEL	5	0.20	134	1.00
I23A	Glyndon very fine sandy loam, 0 to 3 percent slopes	NHEL	4	0.17	86	1.00

Mapunit Symbol	Mapunit Name	HELIC	T	K	I	Slope Percent
I24A	Grimstad fine sandy loam, 0 to 2 percent slopes	NHEL	5	0.20	86	1.00
I36A	Kittson loam, 0 to 3 percent slopes	NHEL	5	0.24	86	1.00
I49A	Rauville silty clay loam, 0 to 2 percent slopes, frequently flooded	NHEL	5	0.28	86	1.00
I53A	Roliss loam, 0 to 2 percent slopes	NHEL	5	0.28	48	1.00
I57B	Sandbert-Radium complex, 0 to 6 percent slopes	NHEL	5	0.17	134	1.00
I65A	Ulen loamy fine sand, 0 to 3 percent slopes	NHEL	5	0.17	134	1.00
I109A	Fluvaquents, 0 to 2 percent slopes, frequently flooded	NHEL	5	0.24	86	1.00
I111A	Wheatville very fine sandy loam, 0 to 2 percent slopes	NHEL	4	0.28	86	1.00
I112A	Augsburg very fine sandy loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1.00
I129A	Croke very fine sandy loam, 0 to 3 percent slopes	NHEL	5	0.20	86	1.00
I146B	Lamoure-Fluvaquents, channeled complex, 0 to 6 percent slopes, frequently flooded	NHEL	5	0.28	86	1.00
I209A	Swenoda fine sandy loam, 0 to 3 percent slopes	NHEL	5	0.28	48	1.00
I243A	Doran clay loam, 0 to 2 percent slopes	NHEL	5	0.28	48	1.00
I309A	Arveson loam, 0 to 1 percent slopes	NHEL	5	0.28	48	1.00
I310A	Arveson fine sandy loam, 0 to 1 percent slopes	NHEL	4	0.17	86	1.00

Mapunit Symbol	Mapunit Name	HELC	T	K	I	Slope Percent
I312A	Wyndmere fine sandy loam, 0 to 2 percent slopes	NHEL	5	0.20	86	1.00
I326A	Towner fine sandy loam, 0 to 3 percent slopes	NHEL	5	0.20	86	1.00
I352A	Espelie fine sandy loam, 0 to 1 percent slopes	NHEL	5	0.28	48	1.00
I363A	Hecla-Garborg loamy fine sands, 0 to 2 percent slopes	NHEL	5	0.17	134	1.00
I365A	Arvilla sandy loam, 0 to 2 percent slopes	NHEL	3	0.20	86	1.00
I377A	Wheatville loam, dry, 2 to 6 percent slopes	NHEL	5	0.28	86	1.00
I379A	Doran-Mustinka silty clay loams, 0 to 2 percent slopes	NHEL	5	0.28	48	1.00
I393A	Roliss clay loam, 0 to 1 percent slopes	NHEL	5	0.28	48	1.00
I394A	Lamoure silt loam, 0 to 1 percent slopes, occasionally flooded	NHEL	5	0.28	86	1.00
I397A	Antler-Mustinka complex, 0 to 2 percent slopes	NHEL	5	0.28	86	1.00
I405A	Antler clay loam, 0 to 2 percent slopes	NHEL	5	0.28	86	2.00
I478A	Lamoure silty clay loam, 0 to 1 percent slopes, occasionally flooded	NHEL	5	0.24	86	1.00
I507A	Glyndon loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1.00
I626A	Bearden-Mustinka complex, 0 to 2 percent slopes	NHEL	5	0.28	86	1.00
I639A	Fargo silty clay, till-floored lake plain, 0 to 1 percent slopes	NHEL	5	0.32	86	1.00

Mapunit Symbol	Mapunit Name	HELC	T	K	I	Slope Percent
I668B	Arvilla sandy loam, 2 to 6 percent slopes	NHEL	3	0.20	86	4.00
I672A	Sioux sandy loam, 0 to 2 percent slopes	NHEL	5	0.17	134	1.00
I687A	Flom fine sandy loam, 0 to 1 percent slopes	NHEL	5	0.24	86	1.00
I690A	Kittson loam, wet, 0 to 3 percent slopes	NHEL	5	0.24	86	1.00
I699A	Rockwell loam, 0 to 2 percent slopes	NHEL	3	0.24	86	1.00
I701A	Rockwell-Vallers complex, 0 to 1 percent slopes	NHEL	5	0.28	86	1.00
I707A	Roliss-Vallers loams, 0 to 1 percent slopes	NHEL	5	0.28	86	1.00
I708A	Roliss complex, 0 to 1 percent slopes	NHEL	5	0.28	48	1.00
I718A	McIntosh silt loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1.00
I724A	Elmville fine sandy loam, 0 to 2 percent slopes	NHEL	5	0.28	48	1.00
I734A	Aazadahl clay loam, 0 to 2 percent slopes	NHEL	5	0.28	48	1.00
I755A	Grimstad-towner fine sandy loams, 0 to 2 percent slopes	NHEL	5	0.28	86	1.00
I761A	Vallers clay loam, 0 to 1 percent slopes	NHEL	5	0.28	86	1.00
I838A	Udorthents, 0 to 25 percent slopes	PHEL	5	0.28	86	5
IGp	Pits, gravel and sand					

Mapunit Symbol	Mapunit Name	HELC	T	K	I	Slope Percent
IWa	Water					
J108A	Aazdahl-Balaton clay loams, 0 to 2 percent slopes	NHEL				
J109A	Aazdahl-Balaton-Flom complex, 0 to 3 percent slopes	NHEL				
J110B	Aazdahl-Formdale-Balaton clay loams, 0 to 4 percent slopes	NHEL				
J111B	Aazdahl-Lakepark complex, 0 to 4 percent slopes	NHEL				
J112B	Aazdahl-Quam-Lakepark complex, 0 to 4 percent slopes	NHEL				
J113A	Flom-Aazdahl-Hamerly complex, 0 to 2 percent slopes	NHEL				
J114B	Flom-Aazdahl-Quam complex, 0 to 4 percent slopes	NHEL				
J115A	Flom-Hamerly complex, 0 to 2 percent slopes	NHEL				
J116A	Flom-Quam silty clay loams, 0 to 1 percent slopes, occasionally ponded	NHEL				
J117B	Hokans-Svea complex, 2 to 6 percent slopes	NHEL				
J117C	Hokans-Svea complex, 2 to 9 percent slopes	NHEL				
J118C	Hokans-Svea-Buse complex, 2 to 12 percent slopes	PHEL	5	0.32	86	9.00
J119D	Barnes-Svea-Buse complex, 3 to 15 percent slopes	PHEL	5	0.32	86	9.00
J120E	Langhei-Barnes-Darnen complex, 5 to 30 percent slopes	HEL	5	0.32	86	15.00

Mapunit Symbol	Mapunit Name	HELIC	T	K	I	Slope Percent
J125C	Udorthents, loamy-Urban land complex, 0 to 6 percent slopes	NHEL				
J130A	Quam and Cathro soils, 0 to 1 percent slopes, frequently ponded	NHEL				
J131A	Quam silty clay loam, 0 to 1 percent slopes, occasionally ponded	NHEL				
J132A	Quam-Cathro-Lakepark complex, 0 to 2 percent slopes, frequently ponded	NHEL				
V58	Kittson fine sandy loam, gray subsoil variant	NHEL	5	0.24	86	1.00
W	Water					

Slope Length	LS
100	0.13
100	0.13
125	1.10
100	3.50
100	0.40
100	1.80
100	0.13
100	0.13
100	0.13
100	0.20
100	0.13
125	0.44

Slope Length	LS
100	0.20
100	0.40
150	1.40
100	6.80
100	0.13
100	0.13
125	0.44
100	0.13
100	0.13
100	0.13
100	0.40
100	0.13
100	0.13
100	0.13
100	0.13

Slope Length	LS
100	1.19
100	5.20
100	0.13
100	0.20
125	0.60
100	0.13
125	1.35
100	2.50
100	0.20
100	0.13
100	0.13
100	0.13
125	0.14
100	0.13

Slope Length	LS
100	0.13
100	0.13
100	0.13
100	0.13
100	0.13
100	0.13
100	0.13
100	0.13
100	0.13
100	0.13
100	0.13
100	0.20
100	0.13
100	0.13
100	0.13
100	0.13

Slope Length	LS
100	0.40
100	0.13
100	0.13
100	0.13
100	0.13
100	0.13
100	0.13
100	0.13
100	0.13
100	0.13
100	0.13
100	0.13
100	0.13
100	0.13
100	0.54

Slope Length	LS
100	0.13