

Highly Erodible Soil Map Unit List - Douglas County, MN

C= 0.20

R= 110

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	Slope Length	LS
258B	Sandberg sandy loam, 1 to 6 percent slopes	NHEL	5	0.17	134	3.00	100	0.29
258C	Sandberg sandy loam, 2 to 12 percent slopes	NHEL	5	0.10	86	7.00	100	0.78
258E	Sandberg gravelly sandy loam, 6 to 30 percent slopes	PHEL	5	0.10	86	24.00	100	5.60
1113	Haslie, Seelyeville, and Cathro soils, frequently ponded, 0 to 1 percent slopes	NHEL	5	0.00	0	1.00	100	0.13
AaA	Aastad clay loam, 1 to 3 percent slopes	NHEL	5	0.24	48	2.00	100	0.20
Ad	Alluvial land	NHEL	5	0.24	86	1.00	100	0.13
Ao	Arveson sandy clay loam	NHEL	4	0.17	86	1.00	100	0.13
AsA	Arvilla sandy loam, 0 to 2 percent slopes	NHEL	3	0.20	86	1.00	100	0.13
AsB	Arvilla sandy loam, 2 to 6 percent slopes	NHEL	3	0.20	86	4.00	100	0.40
AsC	Arvilla sandy loam, 6 to 12 percent slopes	PHEL	3	0.20	86	9.00	100	1.25
AtA	Arvilla sandy loam, thick solum, 0 to 3 percent slopes	NHEL	3	0.20	86	2.00	100	0.20

Mapunit Symbol	Mapunit Name	HELIC	T	K	I	Slope Percent	Slope Length	LS
BaB2	Hokans-Buse complex, 2 to 6 percent slopes	NHEL	5	0.28	48	4.00	125	0.44
BaC2	Barnes-Buse complex, 6 to 12 percent slopes, moderately eroded	PHEL	5	0.28	48	9.00	125	1.35
BmA	Beltrami loam, 1 to 3 percent slopes	NHEL	5	0.32	56	2.00	100	0.20
Bp	Brophy peat	NHEL	5	0.00	38	1.00	100	0.13
Ca	Carlos muck	HEL	1	0.00	134	1.00	100	0.13
Cc	Cathro muck, occasionally ponded, 0 to 1 percent slopes	NHEL	5	0.00	134	1.00	100	0.13
Ch	Cathro muck, sandy subsoil variant	NHEL	5	0.00	134	1.00	100	0.13
CmA	Clontarf sandy loam, 0 to 2 percent slopes	NHEL	4	0.20	86	1.00	100	0.13
Co	Colvin silt loam	NHEL	5	0.32	86	1.00	100	0.13
Cp	Colvin silt loam, depressional	NHEL	5	0.32	86	1.00	100	0.13
D8B	Sandberg loamy sand, 1 to 6 percent slopes	NHEL	5	0.17	134	3.00	100	0.29
D8C	Sandberg loamy sand, 2 to 12 percent slopes	NHEL	5	0.10	86	7.00	100	0.78
D8E	Sandberg loamy coarse sand, 6 to 30 percent slopes	PHEL	5	0.10	86	24.00	100	5.60
DaA	Darnen loam, 1 to 6 percent slopes	NHEL	5	0.28	48	2.00	100	0.20
DoA	Dorset sandy loam, 0 to 2 percent slopes	NHEL	3	0.20	86	1.00	100	0.13

Mapunit Symbol	Mapunit Name	HELC	T	K	I	Slope Percent	Slope Length	LS
DoB	Dorset sandy loam, 2 to 6 percent slopes	NHEL	3	0.20	86	4.00	100	0.40
DoC	Dorset sandy loam, 6 to 12 percent slopes	PHEL	3	0.20	86	9.00	100	1.25
DpA	Dorset sandy loam, thick solum, 0 to 2 percent slopes	NHEL	3	0.20	86	1.00	100	0.13
DpB	Dorset sandy loam, thick solum, 2 to 6 percent slopes	NHEL	3	0.20	86	4.00	100	0.40
DpC	Dorset sandy loam, thick solum, 6 to 12 percent slopes	PHEL	3	0.20	86	9.00	100	1.25
Dv	Dovray mucky silty clay	NHEL	5	0.28	86	1.00	100	0.13
Fa	Lakepark-Parnell, occasionally ponded, complex, 0 to 2 percent slopes	NHEL	5	0.28	38	1.00	100	0.13
Fd	Forada sandy loam, 0 to 2 percent slopes	NHEL	4	0.20	86	1.00	100	0.13
Fe	Forada loam, occasionally ponded, 0 to 1 percent	NHEL	4	0.28	56	1.00	100	0.13
FmC2	Forman-Buse complex, 6 to 12 percent slopes, moderately eroded	PHEL	5	0.28	48	9.00	125	1.35
FoB	Hokans-Svea complex, 1 to 4 percent slopes	NHEL	5	0.28	48	3.00	125	0.30
Fu	Fulda silty clay	NHEL	5	0.28	86	1.00	100	0.13
GoA	Gonvick loam, 1 to 4 percent slopes	NHEL	5	0.24	48	2.00	100	0.20
Ha	Hangaard sandy loam	HEL	2	0.20	86	1.00	100	0.13
HhA	Hantho silt loam, 1 to 3 percent slopes	NHEL	5	0.28	56	2.00	100	0.20

Mapunit Symbol	Mapunit Name	HELC	T	K	I	Slope Percent	Slope Length	LS
J105A	Arvilla sandy loam, Till Prairie, 0 to 2 percent slopes	NHEL	3	0.20	86	1.00	100	0.13
J105B	Arvilla sandy loam, Till Prairie, 2 to 6 percent slopes	NHEL	3	0.20	86	4.00	100	0.40
J105C	Arvilla sandy loam, Till Prairie, 6 to 12 percent slopes	PHEL	3	0.20	86	9.00	100	1.25
J110B	Aazdahl-Formdale-Balaton clay loams, 0 to 4 percent slopes	NHEL						
J118C	Hokans-Svea-Buse complex, 2 to 12 percent slopes	PHEL	5	0.28	48	9.00	125	1.35
La	Lake beaches, sandy	NHEL	5	0.17	134	1.00	100	0.13
Lb	Lake beaches, loamy	NHEL	5	0.20	86	1.00	100	0.13
Lef	Langhei loam, 12 to 40 percent slopes	HEL	5	0.32	86	29.00	100	7.60
LgD2	Langhei-Barnes, moderately eroded, complex, 12 to 20 percent slopes	HEL	5	0.32	86	15.00	100	2.50
LkE	Langhei-Waukon loams, 18 to 24 percent slopes	HEL	5	0.32	86	21.00	100	4.40
LwD	Langhei-Waukon-Sioux complex, 12 to 25 percent slopes	HEL	5	0.32	86	18.00	100	3.50
MaA	Maddock fine sand, 0 to 2 percent slopes	HEL	5	0.15	250	1.00	100	0.13
MaB	Maddock fine sand, 2 to 6 percent slopes	HEL	5	0.15	250	4.00	100	0.40
MaC	Maddock fine sand, 6 to 12 percent slopes	HEL	5	0.15	250	9.00	100	1.25
Mh	Quam, Cathro, and Urness soils, frequently ponded, 0 to 1 percent slopes	NHEL	5	0.00	0	1.00	100	0.13

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Mm	Marysland loam, 0 to 2 percent slopes	NHEL	4	0.28	86	1.00	100	0.13
Mo	Marysland loam, occasionally ponded, 0 to 1 percent slopes	NHEL	4	0.28	86	1.00	100	0.13
Mp	Millerville mucky peat	NHEL	4	0.00	56	1.00	100	0.13
NeB	Nebish loam, 1 to 8 percent slopes	NHEL	5	0.32	56	4.00	125	0.44
NeC	Nebish loam, 3 to 15 percent slopes	PHEL	5	0.32	56	9.00	125	1.35
NeD	Nebish loam, 8 to 30 percent slopes	HEL	5	0.32	56	15.00	100	2.50
NhB	Nebish-Dorset complex, 2 to 6 percent slopes	NHEL	5	0.32	56	4.00	125	0.44
NhC	Nebish-Dorset complex, 6 to 12 percent slopes	PHEL	3	0.20	86	9.00	125	1.35
NyB	Nymore loamy sand, 1 to 6 percent slopes	NHEL	5	0.17	134	4.00	100	0.40
NyC	Nymore loamy sand, 6 to 18 percent slopes	PHEL	5	0.17	134	12.00	100	1.80
OsA	Osakis loam, 0 to 2 percent slopes	NHEL	3	0.28	56	2.00	100	0.20
Qu	Quam silty clay loam, occasionally ponded, 0 to 1 percent slopes	NHEL	5	0.28	38	1.00	100	0.13
Rm	Rifle-Rifle, ponded, complex, 0 to 1 percent slopes	NHEL	5	0.00	56	1.00	100	0.13
RoB	Eckman silt loam, 1 to 6 percent slopes	NHEL	5	0.32	56	4.00	125	0.44
Se	Seelyeville-Seelyeville, ponded, complex, 0 to 1 percent slopes	NHEL	5	0.00	134	1.00	100	0.13

Mapunit Symbol	Mapunit Name	HELK	T	K	I	Slope Percent	Slope Length	LS
Sh	Shooker loam	NHEL	5	0.32	56	1.00	100	0.13
SIA	Sinai clay, 0 to 2 percent slopes	NHEL	5	0.28	86	1.00	100	0.13
SIB	Sinai clay, 2 to 6 percent slopes	NHEL	5	0.28	86	4.00	150	0.47
SpA	Sverdrup sandy loam, 0 to 2 percent slopes	NHEL	4	0.20	86	1.00	100	0.13
SpB	Sverdrup sandy loam, 2 to 6 percent slopes	NHEL	4	0.20	86	4.00	100	0.40
SpC	Sverdrup sandy loam, 6 to 12 percent slopes	PHEL	4	0.20	86	9.00	100	1.25
SvA	Sverdrup loam, thick solum, 0 to 3 percent slopes	NHEL	4	0.28	56	2.00	100	0.20
To	Tonka loam	NHEL	5	0.32	48	1.00	100	0.13
Up	Urness mucky silty clay loam, occasionally ponded, 0 to 1 percent slopes	NHEL	5	0.28	86	1.00	100	0.13
Us	Urness mucky silt loam, peaty subsoil variant	NHEL	5	0.00	86	1.00	100	0.13
VaA	Vallers clay loam, 0 to 2 percent slopes	NHEL	5	0.28	86	2.00	100	0.20
WaB	Waukon loam, 2 to 6 percent slopes	NHEL	5	0.24	48	4.00	125	0.44
WaC	Waukon loam, 6 to 12 percent slopes	PHEL	5	0.24	48	9.00	125	1.35
WaD	Waukon loam, 12 to 18 percent slopes	HEL	5	0.24	48	15.00	100	2.50
WaD2	Waukon loam, 12 to 18 percent slopes, eroded	HEL	5	0.24	48	15.00	100	2.50

Mapunit Symbol	Mapunit Name	HELC	T	K	I	Slope Percent	Slope Length	LS
WaE	Waukon loam, 18 to 24 percent slopes	HEL	5	0.24	48	21.00	100	4.40
WIB2	Waukon-Langhei complex, 2 to 6 percent slopes	NHEL	5	0.32	86	4.00	125	0.44
WIC2	Waukon, moderately eroded-Langhei complex, 6 to 12 percent slopes	PHEL	5	0.32	86	9.00	125	1.35
WsB2	Waukon-Langhei-Sioux complex, 2 to 6 percent slopes, eroded	NHEL	5	0.32	86	4.00	125	0.44
WsC2	Waukon-Langhei-Sioux complex, 6 to 12 percent slopes, eroded	PHEL	5	0.32	86	9.00	125	1.35
ZoC2	Zell-Rothsay silt loams, 6 to 12 percent slopes, eroded	PHEL	5	0.32	86	9.00	125	1.35
GP	Pits, gravel-Udipsamments complex							
M-W	Water, miscellaneous							
Ud	Udipsamments (cut and fill land)							
W	Water							