

Highly Erodible Soil Map Unit List - West Otter Tail 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 "HELC" should only be used for PHEL.

Mapunit Symbol	Mapunit Name	HELC	T	K	I	Slope Percent	Slope Length	LS
7A	Hubbard loamy sand, 0 to 2 percent slopes	NHEL	5	0.15	134	1.00	125	0.14
7B	Hubbard loamy sand, 1 to 6 percent slopes	NHEL	5	0.15	134	4.00	125	0.44
7C	Hubbard loamy sand, 2 to 12 percent slopes	NHEL	5	0.17	134	9.00	124	1.30
34	Parnell silty clay loam, occasionally ponded, 0 to 1 percent slopes	NHEL	5	0.28	38	1.00	125	0.14
38B	Waukon loam, 2 to 6 percent slopes	NHEL	5	0.24	48	4.00	125	0.44
38C2	Waukon, moderately eroded-Langhei complex, 6 to 12 percent slopes	NHEL	5	0.24	48	9.00	125	1.35
38D2	Waukon, moderately eroded-Langhei complex, 12 to 20 percent slopes	HEL	5	0.24	48	16.00	125	2.80
38E	Waukon loam, 20 to 30 percent slopes	HEL	5	0.24	48	25.00	100	6.00
46	Borup loam	NHEL	4	0.28	86	1.00	125	0.14
53B	Kandota sandy loam, 2 to 6 percent slopes	NHEL	5	0.20	86	4.00	125	0.44
53C	Kandota sandy loam, 6 to 12 percent slopes	NHEL	5	0.20	86	9.00	125	1.35
53D	Kandota sandy loam, 12 to 20 percent slopes	PHEL	5	0.20	86	16.00	100	2.80

58	Kittson loam	NHEL	5	0.24	56	2.00	125	0.22
59	Grimstad fine sandy loam	NHEL	5	0.20	86	1.00	125	0.14
61	Arveson loam	NHEL	4	0.24	86	1.00	125	0.14
63	Rockwell loam	NHEL	3	0.24	86	1.00	125	0.14
65	Foxhome sandy loam	NHEL	3	0.20	86	2.00	75	0.19
66	Flaming loamy fine sand	NHEL	5	0.17	134	1.00	125	0.14
68	Arveson loam, depressional	NHEL	4	0.24	86	1.00	125	0.14
107	Winger silt loam	NHEL	5	0.28	86	1.00	125	0.14
108	McIntosh silt loam, 1 to 3 percent slopes	NHEL	5	0.28	86	2.00	125	0.22
121	Wykeham fine sandy loam	NHEL	5	0.20	86	1.00	125	0.14
127A	Sverdrup sandy loam, 0 to 2 percent slopes	NHEL	4	0.20	86	1.00	125	0.14
127B	Sverdrup sandy loam, 2 to 6 percent slopes	NHEL	4	0.20	86	4.00	125	0.44
127C	Sverdrup sandy loam, 6 to 12 percent slopes	NHEL	4	0.20	86	9.00	125	1.35
141B	Egeland sandy loam, 2 to 6 percent slopes	NHEL	5	0.20	86	4.00	125	0.44
141C	Egeland fine sandy loam, 6 to 12 percent slopes	NHEL	5	0.20	86	9.00	125	1.35
141D	Egeland fine sandy loam, 12 to 20 percent slopes	PHEL	5	0.20	86	16.00	100	2.80
168B	Forman clay loam, 2 to 6 percent slopes	NHEL	5	0.28	48	4.00	125	0.44

180	Gonvick loam, 1 to 4 percent slopes	NHEL	5	0.24	48	3.00	125	0.31
184	Balaton-Hamerly complex, 1 to 4 percent slopes	NHEL	5	0.28	86	2.00	125	0.22
187	Haug muck	NHEL	5	0.00	134	1.00	125	0.14
191	Epoufette sandy loam	NHEL	4	0.20	86	1.00	125	0.14
202	Meehan loamy sand, 0 to 3 percent slopes	NHEL	5	0.17	134	2.00	125	0.22
258B	Sandberg loamy sand, 1 to 6 percent slopes	NHEL	5	0.17	134	4.00	124	0.44
258C	Sandberg loamy sand, 2 to 12 percent slopes	NHEL	5	0.15	134	9.00	125	1.35
258E	Sandberg gravelly sandy loam, 6 to 30 percent slopes	HEL	2	0.17	134	26.00	100	6.30
260	Duelm loamy sand, 0 to 2 percent slopes	NHEL	5	0.17	134	1.00	125	0.14
267B	Snellman sandy loam, 2 to 8 percent slopes	NHEL	5	0.20	86	4.00	125	0.44
267C	Snellman sandy loam, 8 to 15 percent slopes	PHL	5	0.20	86	11.00	125	1.80
267E	Snellman sandy loam, 15 to 30 percent slopes	HEL	5	0.20	86	22.00	125	5.80
267F	Snellman sandy loam, 30 to 45 percent slopes	HEL	5	0.20	86	40.00	100	13.00
290	Eckman silt loam, 1 to 6 percent slopes	NHEL	5	0.32	56	2.00	125	0.22
293B	Swenoda fine sandy loam, 1 to 4 percent slopes	NHEL	5	0.20	86	2.00	125	0.22
335	Urness mucky silty clay loam, occasionally ponded, 0 to 1 percent slopes	NHEL	5	0.28	86	1.00	124	0.14
339	Fordville loam, 0 to 2 percent slopes	NHEL	4	0.24	48	2.00	125	0.22

341A	Arvilla sandy loam, 0 to 2 percent slopes	NHEL	3	0.20	86	1.00	125	0.14
341B	Arvilla sandy loam, 2 to 6 percent slopes	NHEL	3	0.20	86	4.00	125	0.44
371	Clontarf sandy loam	NHEL	4	0.20	86	2.00	125	0.22
375	Forada loam, 0 to 2 percent slopes	NHEL	4	0.28	56	1.00	125	0.14
406A	Dorset sandy loam, 0 to 2 percent slopes	NHEL	3	0.20	86	1.00	125	0.14
406B	Dorset sandy loam, 2 to 6 percent slopes	NHEL	3	0.20	86	4.00	125	0.44
418	Lamoure silty clay loam, 0 to 2 percent slopes, occasionally flooded	NHEL	5	0.28	86	1.00	125	0.14
422B	Bygland silty clay loam, 1 to 6 percent slopes	NHEL	5	0.28	38	4.00	125	0.44
422C	Bygland silty clay loam, 6 to 15 percent slopes	PHEL	5	0.28	38	10.00	200	2.00
426	Foldahl loamy fine sand	NHEL	5	0.20	134	1.00	125	0.14
441A	Almora loam, 0 to 2 percent slopes	NHEL	4	0.24	56	1.00	125	0.14
441B	Almora loam, 2 to 6 percent slopes	NHEL	4	0.24	56	4.00	125	0.44
441C	Almora loam, 6 to 12 percent slopes	NHEL	4	0.24	56	9.00	125	1.35
481	Kratka fine sandy loam	NHEL	5	0.17	86	1.00	125	0.14
494	Darnen loam, 1 to 6 percent slopes	NHEL	5	0.24	48	2.00	124	0.21
497	Hantho silt loam	NHEL	5	0.28	56	2.00	125	0.22
508	Wyndmere fine sandy loam	NHEL	5	0.20	86	1.00	125	0.14

540	Seelyeville-Seelyeville, ponded, complex, 0 to 1 percent slopes	NHEL	5	0.00	134	1.00	125	0.14
541	Rifle-Rifle, ponded, complex, 0 to 1 percent slopes	NHEL	5	0.01	56	1.00	125	0.14
544	Cathro muck, occasionally ponded, 0 to 1 percent slopes	NHEL	5	0.00	134	1.00	125	0.14
567A	Verndale sandy loam, 0 to 2 percent slopes	NHEL	3	0.20	86	1.00	125	0.14
567B	Verndale sandy loam, 2 to 6 percent slopes	NHEL	3	0.20	86	4.00	125	0.44
609B	Dickey loamy fine sand, 1 to 5 percent slopes	NHEL	5	0.17	134	3.00	100	0.29
624	Rosy fine sandy loam, 0 to 6 percent slopes	NHEL	5	0.20	86	1.00	125	0.14
646C	Peever clay loam, 6 to 12 percent slopes	PHEL	5	0.28	48	9.00	150	1.45
646D	Peever clay loam, 12 to 18 percent slopes	HEL	5	0.28	48	15.00	125	2.80
670	Knute fine sandy loam	NHEL	5	0.20	86	2.00	125	0.22
698	Doran clay loam	NHEL	5	0.32	48	2.00	125	0.22
701	Runeberg mucky loam, depressional	NHEL	5	0.28	56	1.00	125	0.14
705B	Nitche-Kandota-Lida complex, 1 to 6 percent slopes	NHEL	4	0.20	86	4.00	125	0.44
705C	Nitche-Kandota-Lida complex, 6 to 12 percent slopes	NHEL	4	0.20	86	9.00	124	1.30
707B	Lizzie silt loam, 2 to 6 percent slopes	NHEL	5	0.32	56	4.00	125	0.44
707C2	Lizzie silt loam, 6 to 12 percent slopes, eroded	PHEL	5	0.28	56	9.00	124	1.30
707D2	Lizzie silt loam, 12 to 20 percent slopes, eroded	HEL	5	0.28	56	15.00	101	2.57

710	Friberg-Weetown complex	NHEL	5	0.24	56	1.00	124	0.14
711B	Arvilla-Sandberg complex, 2 to 6 percent slopes	NHEL	3	0.20	86	4.00	125	0.44
711C	Arvilla-Sandberg complex, 6 to 12 percent slopes	PHEL	3	0.20	86	9.00	125	1.35
715	Bluffcreek-Clearriver complex	NHEL	4	0.20	86	2.00	124	0.21
716B	Leaflake-Eagleview complex, 1 to 6 percent slopes	NHEL	5	0.17	134	4.00	124	0.44
716C	Leaflake-Eagleview complex, 6 to 12 percent slopes	NHEL	5	0.17	134	9.00	124	1.30
716D	Leaflake-Eagleview complex, 12 to 20 percent slopes	PHEL	5	0.17	134	15.00	101	2.57
718E	Naytahwaush loam, 8 to 30 percent slopes	HEL	5	0.28	48	22.00	125	5.80
721B	Corliss loamy sand, 2 to 6 percent slopes	NHEL	5	0.15	134	4.00	125	0.44
721C	Corliss loamy sand, 6 to 12 percent slopes	NHEL	5	0.15	134	9.00	125	1.35
721D	Corliss loamy sand, 12 to 20 percent slopes	PHEL	5	0.15	134	16.00	100	2.80
721E	Corliss loamy sand, 20 to 35 percent slopes	HEL	5	0.17	134	28.00	101	7.13
726	Kratka sandy loam, thick solum, depressional	NHEL	3	0.20	86	1.00	124	0.14
746	Haslie muck	NHEL	1	0.10	134	1.00	124	0.14
760C2	Chapett-Sisseton complex, 6 to 12 percent slopes, eroded	PHEL	5	0.32	86	9.00	125	1.35
760D2	Chapett-Sisseton complex, 12 to 20 percent slopes, eroded	HEL	5	0.32	86	15.00	100	2.50
769B	Mehurin clay loam, 1 to 4 percent slopes	NHEL	5	0.24	48	2.00	124	0.21

776B	Snellman-Sugarbush complex, 2 to 8 percent slopes	NHEL	5	0.20	86	5.00	150	0.65
776C	Snellman-Sugarbush complex, 8 to 15 percent slopes	PHEL	4	0.20	86	12.00	125	2.00
776E	Snellman-Sugarbush complex, 15 to 30 percent slopes	HEL	4	0.20	86	22.00	100	4.00
777C2	Esmond-Sisseton-Heimdal, complex, 2 to 12 percent slopes, moderately eroded	PHEL	5	0.32	86	9.00	125	1.35
777D2	Sisseton-Esmond-Heimdal, complex, 6 to 20 percent slopes, moderagely eroded	HEL	5	0.32	86	16.00	100	2.80
777E	Sisseton-Esmond complex, 12 to 40 percent slopes	HEL	5	0.32	86	25.00	100	6.00
778B	Dorset-Corliss complex, 1 to 6 percent slopes	NHEL	3	0.20	86	4.00	125	0.44
778C	Dorset-Corliss complex, 6 to 12 percent slopes	PHEL	3	0.20	86	9.00	125	1.35
779B	Peever-Mehurin complex, 2 to 6 percent slopes	NHEL	5	0.24	48	4.00	124	0.44
902B	Hokans-Buse complex, 2 to 6 percent slopes	NHEL	5	0.28	48	4.00	125	0.44
903C2	Barnes-Buse complex, 6 to 12 percent slopes, moderately eroded	PHEL	5	0.32	86	9.00	125	1.35
915C2	Forman-Buse complex, 6 to 12 percent slopes, moderately eroded	PHEL	5	0.28	86	9.00	150	1.40
915D2	Forman-Buse complex, 12 to 20 percent slopes, moderately eroded	HEL	5	0.28	86	15.00	125	2.80
942D2	Langhei-Barnes, moderately eroded, complex, 12 to 20 percent slopes	HEL	5	0.32	86	16.00	100	2.80
957B2	Rothsay-Zell complex, 2 to 6 percent slopes, eroded	NHEL	5	0.32	86	4.00	125	0.44
969C2	Zell-Rothsay complex, 6 to 12 percent slopes, eroded	PHEL	5	0.32	86	9.00	125	1.35
969D2	Zell-Rothsay complex, 12 to 20 percent slopes, eroded	HEL	5	0.32	86	15.00	100	2.50

1015	Udipsamments (cut and fill land)	NHEL	5	0.10	220	5.00	75	0.48
1016	Udorthents, loamy (cut and fill land)	NHEL	5	0.24	86	25.00	75	0.48
1027	Udorthents, wet substratum (fill land)	NHEL	5	0.24	134	5.00	75	0.48
1030	Pits, gravel-Udipsamments complex	NHEL	5	0.17	86	1.00	100	0.13
1077	Forada and Leafriver soils, frequently ponded, 0 to 1 percent slopes	NHEL	4	0.28	134	1.00	125	0.14
1102B	Chapett-Dorset complex, 1 to 6 percent slopes	NHEL	3	0.20	86	4.00	125	0.44
1102C	Chapett-Dorset complex, 6 to 12 percent slopes, eroded	PHEL	3	0.20	86	9.00	125	1.35
1103	Clitherall sandy loam	NHEL	4	0.20	86	2.00	124	0.21
1104B	Waukon-Dorset complex, 1 to 6 percent slopes	NHEL	3	0.20	86	4.00	125	0.44
1104C	Waukon-Dorset complex, 6 to 12 percent slopes, eroded	PHEL	3	0.20	86	9.00	125	1.35
1104D	Waukon-Dorset complex, 12 to 20 percent slopes, eroded	HEL	3	0.20	86	16.00	100	2.80
1105B	Dent silt loam, 1 to 6 percent slopes	NHEL	5	0.28	56	4.00	124	0.44
1110	Isan-Isan, frequently ponded, complex, 0 to 2 percent slopes	NHEL	3	0.20	86	1.00	124	0.14
1111	Nidaros muck, frequently flooded	NHEL	2	0.10	134	1.00	124	0.14
1112D	Chapett-Corliss complex, 12 to 20 percent slopes, eroded	HEL	5	0.20	86	16.00	100	2.80
1112E	Chapett-Corliss complex, 20 to 30 percent slopes	HEL	5	0.24	56	25.00	100	6.00
1113	Haslie, Seelyeville, and Cathro soils, frequently ponded, 0 to 1 percent slopes	NHEL	5	0.00	134	1.00	125	0.14

1114	Hangaard loamy sand, lake beaches	NHEL	5	0.17	134	1.00	101	0.13
1120	Rushlake-Hangaard complex	NHEL	5	0.17	134	1.00	101	0.13
1129	Lindaas silty clay loam, morainic	NHEL	5	0.28	38	1.00	125	0.14
1131B	Verndale-Abbeylake complex, 1 to 6 percent slopes	NHEL	3	0.20	86	4.00	125	0.44
1136	Nidaros muck	NHEL	2	0.10	134	1.00	124	0.14
1195A	Sybil-Eagleview complex, 0 to 2 percent slopes	NHEL	4	0.17	134	1.00	101	0.13
1195B	Sybil-Eagleview complex, 2 to 8 percent slopes	NHEL	4	0.17	134	5.00	124	0.59
1195C	Sybil-Eagleview complex, 8 to 15 percent slopes	NHEL	4	0.17	134	11.00	124	1.76
1195E	Sybil-Eagleview complex, 15 to 30 percent slopes	HEL	4	0.20	86	22.00	101	4.79
1196B	Lida-Two Inlets complex, 1 to 8 percent slopes	NHEL	4	0.20	86	4.00	124	0.44
1196C	Lida-Two Inlets complex, 8 to 15 percent slopes	PHEL	4	0.20	86	11.00	125	1.80
1196E	Lida-Two Inlets complex, 15 to 30 percent slopes	HEL	4	0.20	86	22.00	101	4.79
1196F	Lida-Two Inlets complex, 30 to 50 percent slopes	HEL	4	0.20	86	40.00	101	12.70
1200	Egglake loam	NHEL	5	0.20	86	1.00	125	0.14
1208B	Naytahwaush-Mahkonce complex, 1 to 8 percent slopes	NHEL	5	0.28	48	6.00	150	0.66
1209C	Naytahwaush loam, 3 to 15 percent slopes	PHEL	5	0.28	48	11.00	150	1.80
1212B	Mahkonce clay loam, 1 to 4 percent slopes	NHEL	5	0.28	48	2.00	125	0.22

1214	Mustinka silty clay loam	NHEL	5	0.28	86	1.00	125	0.14
1215	Pinelake sandy loam	NHEL	4	0.20	86	1.00	124	0.14
1216B	Egglake-Wykeham complex, 0 to 5 percent slopes	NHEL	5	0.20	86	3.00	124	0.32
1217E	Waukon-Lida complex, 20 to 35 percent slopes	HEL	4	0.20	86	30.00	100	8.00
1218B	Snellman-Lida complex, 1 to 8 percent slopes	NHEL	5	0.20	86	4.00	124	0.44
1218C	Snellman-Lida complex, 8 to 15 percent slopes	PHEL	5	0.20	86	11.00	124	1.76
1218E	Snellman-Lida complex, 15 to 30 percent slopes	HEL	4	0.20	86	22.00	100	4.80
1218F	Snellman-Lida complex, 30 to 45 percent slopes	HEL	5	0.20	86	40.00	101	12.70
1219C	Sandberg-Sverdrup complex, 6 to 12 percent slopes	NHEL	4	0.20	86	9.00	125	1.35
1221B	Sverdrup-Sandberg complex, 2 to 6 percent slopes	NHEL	4	0.20	86	4.00	125	0.44
1223D	Sandberg-Arvilla complex, 12 to 20 percent slopes	HEL	3	0.20	86	18.00	101	3.45
1227	Quam, Cathro, and Urness soils, frequently ponded, 0 to 1 percent slopes	NHEL	5	0.28	134	1.00	125	0.14
1232B	Chapett loam, 2 to 6 percent slopes	NHEL	5	0.24	56	4.00	124	0.44
1232E	Chapett loam, 20 to 30 percent slopes	HEL	5	0.24	56	25.00	101	5.91
1237	Lakepark-Parnell, occasionally ponded, complex, 0 to 2 percent slopes	NHEL	5	0.24	48	1.00	124	0.14
1239	Quam silty clay loam, occasionally ponded, 0 to 1 percent slopes	NHEL	5	0.28	48	1.00	124	0.14
1240	Roliss loam, 0 to 2 percent slopes	NHEL	5	0.24	86	1.00	124	0.14

1247D	Corliss-Dorset complex, 6 to 20 percent slopes	HEL	5	0.15	134	15.00	101	2.57
1250C	Abbeylake-Verndale complex, 6 to 12 percent slopes	NHEL	5	0.15	134	9.00	124	1.30
1259	Hamerly-Mustinka complex	NHEL	5	0.24	86	1.00	124	0.14
1275B	Kandota-Egglake, depressional, complex, 0 to 8 percent slopes	NHEL	5	0.20	86	4.00	124	0.44
1275C	Kandota-Egglake, depressional, complex, 0 to 15 percent slopes	NHEL	5	0.20	86	8.00	124	1.10
1276	Knute-Brandsvold complex, thick solum	NHEL	5	0.20	86	1.00	124	0.14
1277D	Corliss-Sverdrup complex, 12 to 20 percent slopes	PHEL	5	0.17	134	16.00	101	2.85
1289	Knute fine sandy loam, thick solum	NHEL	5	0.20	86	2.00	124	0.21
1290	Brandsvold fine sandy loam, thick solum	NHEL	5	0.20	86	1.00	124	0.14
1291	Sedgeville loam, frequently flooded	NHEL	4	0.20	86	1.00	124	0.14
1293	Sedgeville fine sandy loam, rarely flooded	NHEL	4	0.20	86	1.00	124	0.14
1304A	Glyndon very fine sandy loam	NHEL	5	0.28	86	1.00	124	0.14
1307	Rushlake sand	NHEL	5	0.15	180	2.00	124	0.21
1317	Vallers clay loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1.00	124	0.14
1319B	Rockwood sandy loam, 2 to 6 percent slopes, stony	NHEL	4	0.20	86	4.00	202	0.53
1319C	Rockwood sandy loam, 6 to 12 percent slopes, stony	PHEL	4	0.20	86	9.00	202	1.66
1319D	Rockwood sandy loam, 12 to 20 percent slopes, stony	HEL	4	0.20	86	16.00	202	4.03

1320B	Blowers sandy loam, 1 to 5 percent slopes, stony	NHEL	4	0.20	86	3.00	124	0.32
1321	Paddock-Becida complex, stony	NHEL	4	0.20	86	2.00	124	0.21
1322	Wolverton very fine sandy loam	NHEL	5	0.28	86	1.00	124	0.14
1324B	Esmond-Heimdal-Sisseton complex, 2 to 6 percent slopes	NHEL	5	0.24	56	4.00	124	0.44
1338	Oakcreek loam	NHEL	4	0.24	56	2.00	124	0.21
1339	Borup mucky silt loam, depressional	NHEL	5	0.28	86	1.00	124	0.14
1340	Bluffcreek-Epoufette complex	NHEL	4	0.20	86	2.00	124	0.21
1341	Clitherall-Wykeham complex	NHEL	4	0.17	86	2.00	124	0.21
1342	Pinelake, loamy substratum-Brandsvold complex	NHEL	4	0.17	86	1.00	124	0.14
1343C	Lida-Almora-Lizzie complex, 8 to 15 percent slopes	NHEL	4	0.20	86	9.00	124	1.30
1344B	Lida-Almora-Dent complex, 1 to 8 percent slopes	NHEL	4	0.20	86	4.00	124	0.44
1345	Bluffcreek-Rosy complex	NHEL	4	0.20	86	2.00	124	0.21
1346	Nidaros muck, calcareous	NHEL	2	0.10	134	1.00	124	0.14
1347B	Kandota loam, 1 to 6 percent slopes	NHEL	5	0.24	56	4.00	124	0.44
1348	Knute loam, thick solum	NHEL	5	0.24	56	2.00	124	0.21
1349	Clotho loam, moderately permeable	NHEL	5	0.24	86	2.00	124	0.21
1350	Brandsvold loam, thick solum	NHEL	5	0.24	56	1.00	124	0.14

1351	Bluffton loam, moderately permeable	NHEL	5	0.24	56	1.00	124	0.14
1356	Water, miscellaneous							
1365	Hillview fine sandy loam	NHEL	5	0.20	86	1.00	124	0.14
1396	Sedgeville, nidaros, and aquolls soils, channeled	NHEL	2	0.10	134	1.00	124	0.14
1397	Bemidji loamy sand, moderately permeable	NHEL	5	0.17	134	1.00	124	0.14
1825B	Seelyeville muck, seep, 1 to 10 percent slopes	NHEL	3	0.10	134	5.00	101	0.54
1874	Radium loamy sand	NHEL	5	0.17	134	2.00	125	0.22
1943	Roscommon loamy sand	NHEL	5	0.17	134	1.00	125	0.14
1975	Oylen sandy loam	NHEL	3	0.20	86	1.00	125	0.14
D8B	Sandberg loamy sand, 1 to 6 percent slopes	NHEL	5	0.17	134	4.00	124	0.44
D8C	Sandberg loamy sand, 2 to 12 percent slopes	NHEL	5	0.15	134	9.00	125	1.35
D8E	Sandberg loamy coarse sand, 6 to 30 percent slopes	HEL	2	0.17	134	26.00	100	6.30
I5A	Borup loam, 0 to 1 percent slopes	NHEL	5	0.17	134	1.00	125	0.14
I11A	Deerwood muck, 0 to 1 per	NHEL	5	0.00	134	1.00	125	0.14
I15A	Hecla loamy fine sand, 0 to 2 percent slopes	NHEL	5	0.17	134	1.00	125	0.14
I17A	Foldahl fine sandy loam, loamy till substratum, 0 to 3 percent slopes	NHEL	5	0.20	134	1.00	125	0.14
I18A	Foldahl loamy fine sand, loamy till substratum, 0 to 3 percent slopes	NHEL	5	0.20	134	1.00	125	0.14

I19A	Foxhome sandy loam, 0 to 2 percent slopes	NHEL	3	0.20	86	2.00	75	0.19
I23A	Glyndon very fine sandy loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1.00	124	0.14
I24A	Grimstad fine sandy loam, 0 to 2 percent slopes, aspen parkland	NHEL	5	0.20	86	1.00	125	0.14
I38A	Kratka fine sandy loam, loamy till substratum, 0 to 1 percent slopes	NHEL	5	0.17	86	1.00	125	0.14
I48A	Radium loamy sand, 0 to 2 percent slopes	NHEL	5	0.17	134	2.00	125	0.22
I57B	Sandberg-Radium complex, 0 to 6 percent slopes	NHEL	5	0.17	134	4.00	124	0.44
I209A	Swenoda fine sandy loam, 0 to 2 percent slopes	NHEL	5	0.20	86	2.00	125	0.22
I243A	Doran clay loam, 0 to 2 percent slopes	NHEL	5	0.32	48	2.00	125	0.22
I309A	Arveson loam, 0 to 1 percent slopes	NHEL	4	0.24	86	1.00	125	0.14
I311A	Arveson loam, 0 to 1 percent slopes, frequently ponded	NHEL	4	0.24	86	1.00	125	0.14
I312A	Wyndmere fine sandy loam, 0 to 2 percent slopes	NHEL	5	0.20	86	1.00	125	0.14
I326A	Towner fine sandy loam, 0 to 3 percent slopes	NHEL	5	0.28	86	1.00	124	0.14
I356A	Ulen fine sandy loam, 0 to 2 percent slopes	NHEL	5	0.20	86	1.00	125	0.14
I393A	Roliss clay loam, 0 to 1 percent slopes	NHEL	5	0.24	86	1.00	124	0.14
I397A	Antler-Mustinka complex, 0 to 2 percent slopes	NHEL	5	0.24	86	1.00	124	0.14
I405A	Antler clay loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1.00	125	0.14
I414A	Mustinka silty clay loam, 0 to 1 percent slopes	NHEL	5	0.28	86	1.00	125	0.14

I478A	Lamoure silty clay loam, 0 to 1 percent slopes, occasionally flooded	NHEL	5	0.28	86	1.00	125	0.14
I668B	Arvilla sandy loam, 2 to 6 percent slopes	NHEL	3	0.20	86	4.00	125	0.44
I675B	Lohnes loamy sand, 2 to 6 percent slopes	NHEL	5	0.17	134	4.00	124	0.44
I690A	Kittson loam, wet, 0 to 3 percent slopes	NHEL	5	0.24	56	2.00	125	0.22
I699A	Rockwell loam, 0 to 2 percent slopes	NHEL	3	0.24	86	1.00	125	0.14
I710A	Winger silt loam, 0 to 1 percent slopes	NHEL	5	0.28	86	1.00	125	0.14
I718A	McIntosh silt loam, 0 to 2 percent slopes	NHEL	5	0.28	86	2.00	125	0.22
I724A	Elmville fine sandy loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1.00	124	0.14
I734A	Aazadahl clay loam, 0 to 2 percent slopes	NHEL	5	0.24	48	1.00	125	0.14
I761A	Vallers clay loam, 0 to 1 percent slopes	NHEL	5	0.28	86	1.00	124	0.14
I821A	Haug muck, silty till, 0 to 1 percent slopes	NHEL	5	0.00	134	1.00	125	0.14
I831A	Wolverton very fine sandy loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1.00	124	0.14
I837A	Urness mucky silt loam, 0 to 1 percent slopes	NHEL	5	0.28	86	1.00	124	0.14
IGp	Pits, gravel and sand							
IWa	Water							
J105A	Arvilla sandy loam, Till Prairie, 0 to 2 percent slopes	NHEL	3	0.20	86	1.00	125	0.14
J105B	Arvilla sandy loam, Till Prairie, 2 to 6 percent slopes	NHEL	3	0.20	86	4.00	125	0.44

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	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	125	1.35
J119D	Barnes-Svea-Buse complex, 3 to 15 percent slopes	PHEL	5	0.32	86	9.00	125	1.35
J120E	Langhei-Barnes-Darnen complex, 5 to 30 percent slopes	HEL	5	0.32	86	15.00	100	2.50
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						
W	Water							