

Highly Erodible Soil Map Unit List - East Otter Tail, MN

C= 0.20

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

| |
|-----------|
| LS |
| 0.14 |
| 0.44 |
| 1.30 |
| 0.14 |
| 0.44 |
| 1.35 |
| 2.80 |
| 6.00 |
| 0.14 |
| 0.44 |
| 1.35 |
| 2.80 |

| |
|------|
| 0.22 |
| 0.14 |
| 0.14 |
| 0.14 |
| 0.19 |
| 0.14 |
| 0.14 |
| 0.14 |
| 0.22 |
| 0.14 |
| 0.14 |
| 0.44 |
| 1.35 |
| 0.44 |
| 1.35 |
| 2.80 |
| 0.44 |

| |
|-------|
| 0.31 |
| 0.22 |
| 0.14 |
| 0.14 |
| 0.22 |
| 0.44 |
| 1.35 |
| 6.30 |
| 0.14 |
| 0.44 |
| 1.80 |
| 5.80 |
| 13.00 |
| 0.22 |
| 0.22 |
| 0.14 |
| 0.22 |

| |
|------|
| 0.14 |
| 0.44 |
| 0.22 |
| 0.14 |
| 0.14 |
| 0.44 |
| 0.14 |
| 0.44 |
| 2.00 |
| 0.14 |
| 0.14 |
| 0.44 |
| 1.35 |
| 0.14 |
| 0.21 |
| 0.22 |
| 0.14 |

| |
|------|
| 0.14 |
| 0.14 |
| 0.14 |
| 0.14 |
| 0.44 |
| 0.29 |
| 0.14 |
| 1.45 |
| 2.80 |
| 0.22 |
| 0.22 |
| 0.14 |
| 0.44 |
| 1.30 |
| 0.44 |
| 1.30 |
| 2.57 |

| |
|------|
| 0.14 |
| 0.44 |
| 1.35 |
| 0.21 |
| 0.44 |
| 1.30 |
| 2.57 |
| 5.80 |
| 0.44 |
| 1.35 |
| 2.80 |
| 7.13 |
| 0.14 |
| 0.14 |
| 1.35 |
| 2.50 |
| 0.21 |

| |
|------|
| 0.65 |
| 2.00 |
| 4.00 |
| 1.35 |
| 2.80 |
| 6.00 |
| 0.44 |
| 1.35 |
| 0.44 |
| 0.44 |
| 1.35 |
| 1.40 |
| 2.80 |
| 2.80 |
| 0.44 |
| 1.35 |
| 2.50 |

| |
|------|
| 0.48 |
| 0.48 |
| 0.48 |
| 0.13 |
| 0.14 |
| 0.44 |
| 1.35 |
| 0.21 |
| 0.44 |
| 1.35 |
| 2.80 |
| 0.44 |
| 0.14 |
| 0.14 |
| 2.80 |
| 6.00 |
| 0.14 |

| |
|-------|
| 0.13 |
| 0.13 |
| 0.14 |
| 0.44 |
| 0.14 |
| 0.13 |
| 0.59 |
| 1.76 |
| 4.79 |
| 0.44 |
| 1.80 |
| 4.79 |
| 12.70 |
| 0.14 |
| 0.66 |
| 1.80 |
| 0.22 |

| |
|-------|
| 0.14 |
| 0.14 |
| 0.32 |
| 8.00 |
| 0.44 |
| 1.76 |
| 4.80 |
| 12.70 |
| 1.35 |
| 0.44 |
| 3.45 |
| 0.14 |
| 0.44 |
| 5.91 |
| 0.14 |
| 0.14 |
| 0.14 |

| |
|------|
| 2.57 |
| 1.30 |
| 0.14 |
| 0.44 |
| 1.10 |
| 0.14 |
| 2.85 |
| 0.21 |
| 0.14 |
| 0.14 |
| 0.14 |
| 0.14 |
| 0.21 |
| 0.14 |
| 0.53 |
| 1.66 |
| 4.03 |

| |
|------|
| 0.32 |
| 0.21 |
| 0.14 |
| 0.44 |
| 0.21 |
| 0.14 |
| 0.21 |
| 0.21 |
| 0.14 |
| 1.30 |
| 0.44 |
| 0.21 |
| 0.14 |
| 0.44 |
| 0.21 |
| 0.21 |
| 0.14 |

| |
|------|
| 0.14 |
| |
| 0.14 |
| 0.14 |
| 0.14 |
| 0.54 |
| 0.22 |
| 0.14 |
| 0.14 |
| 0.44 |
| 1.35 |
| 6.30 |
| 0.14 |
| 0.14 |
| 0.14 |
| 0.14 |
| 0.14 |

| |
|------|
| 0.14 |
| 0.44 |
| 0.44 |
| 0.22 |
| 0.14 |
| 0.14 |
| 0.22 |
| 0.14 |
| 0.14 |
| 0.14 |
| 0.14 |
| 0.14 |
| 0.14 |
| |
| |
| 0.14 |
| 0.44 |

| |
|------|
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| 1.35 |
| 1.35 |
| 2.50 |
| |
| |
| |

