Highly Erodible Soil Map Unit List - East Marshall County, MN

C= 0.25

R= 80

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	Т	К	I	Slope Percent	Slope Length	LS
58	Kittson loam	NHEL	5		56			
59	Grimstad fine sandy loam	NHEL	5		86			
65	Foxhome sandy loam	NHEL	3		86			
66	Flaming loamy fine sand	NHEL	5		134			
77	Garnes fine sandy loam	NHEL	5		48			
111	Hangaard sandy loam	HEL	2		86			
116	Redby loamy fine sand, 0 to 3 percent slopes	NHEL	5		134			
117	Cormant loamy fine sand, 0 to 2 percent slopes	NHEL	5		134			
145	Enstrom loamy fine sand	NHEL	5		134			
148	Poppleton fine sand	NHEL	5		134			
184A	Hamerly loam, 0 to 3 percent slopes	NHEL	5		86			
187	Haug muck	NHEL	5		134			
205	Karlstad loamy sand, 0 to 3 percent slopes	HEL	3		134			

	T	ī			ī	T	1
Marquette loamy sand, 1 to 6 percent slopes	HEL	2		134			
Pelan sandy loam	HEL	3		86			
Hamar loamy fine sand	NHEL	5		134			
Percy loam	NHEL	5		86			
	NHEL	5		134			
	NHEL	5		48			
	NHEL	3		86			
	NHEL	5		134			
	NHEL	3		86			
	NHEL	5		86			
	NHEL	5		86			
	NHEL	5		134			
	NHEL	5		56			
	NHEL	5		134			
	NHEL	5		56			
	HEL	4		134			
	NHEL	5		134			
	Pelan sandy loam Hamar loamy fine sand	Marquette loamy sand, 1 to 6 percent slopes Pelan sandy loam HEL Hamar loamy fine sand Percy loam NHEL Percy mucky loam, depressional Roliss loam, depressional Mavie fine sandy loam Foldahl loamy fine sand Strandquist loam Strathcona fine sandy loam Kratka fine sandy loam NHEL MHEL MHEL Strathcona fine sandy loam Kratka fine sandy loam NHEL Kratka fine sandy loam NHEL Rifle-Rifle, ponded, complex, 0 to 1 percent slopes NHEL Markey muck, occasionally ponded, 0 to 1 percent slopes	Marquette loamy sand, 1 to 6 percent slopes Pelan sandy loam HEL 3 Hamar loamy fine sand Percy loam NHEL 5 Percy loam NHEL 5 Roliss loam, depressional NHEL 5 Mavie fine sandy loam Foldahl loamy fine sand Strandquist loam Strathcona fine sandy loam NHEL 3 Stratka fine sandy loam NHEL 5 Kratka fine sandy loam NHEL 5 NHEL 5	Marquette loamy sand, 1 to 6 percent slopes Pelan sandy loam HEL 3 Hamar loamy fine sand Percy loam NHEL 5 Percy mucky loam, depressional Roliss loam, depressional Mavie fine sandy loam Foldahl loamy fine sand Strandquist loam NHEL 3 Strathcona fine sandy loam NHEL 5 Kratka fine sandy loam NHEL 5 NHEL 5 Strathcona fine sandy loam NHEL 5 Kratka fine sandy loam NHEL 5 NHEL 5 NHEL 5 Rifle-Rifle, ponded, complex, 0 to 1 percent slopes NHEL 5 NHEL 5 NHEL 5 NHEL 5 NHEL 5 NHEL 5 NHEL 5	Pelan sandy loam Pelan sandy loam HEL 3 86 Hamar loamy fine sand Percy loam NHEL 5 86 Percy mucky loam, depressional Roliss loam, depressional Mavie fine sandy loam NHEL 5 48 Mavie fine sandy loam NHEL 5 134 Strandquist loam NHEL 5 134 Strathcona fine sandy loam NHEL 5 134 Strathcona fine sandy loam NHEL 5 86 Kratka fine sandy loam NHEL 5 86 Kratka fine sandy loam NHEL 5 86 Kratka fine sandy loam NHEL 5 134 Tacoosh muck NHEL 5 134 Rifle-Rifle, ponded, complex, 0 to 1 percent slopes NHEL 5 56 Markey muck, occasionally ponded, 0 to 1 percent slopes NHEL 5 56 Markey muck, occasionally ponded, 0 to 1 percent slopes	Pelan sandy loam HEL 3 86 Hamar loamy fine sand Percy loam Percy loam NHEL 5 86 Percy mucky loam, depressional Roliss loam, depressional NHEL 5 48 Mavie fine sandy loam NHEL 5 48 Foldahl loamy fine sand Strandquist loam NHEL 5 134 Stratka fine sandy loam NHEL 5 86 NHEL 5 134 Stratka fine sandy loam NHEL 5 86 Kratka fine sandy loam NHEL 5 134 Rifle-Rifle, ponded, complex, 0 to 1 percent slopes NHEL 5 56 Markey muck, occasionally ponded, 0 to 1 percent slopes NHEL 4 134 NHEL 5 134	Pelan sandy loam HEL 3 86 Hamar loamy fine sand Percy loam NHEL 5 134 Percy mucky loam, depressional Roliss loam, depressional Mavie fine sandy loam NHEL 5 134 Strandquist loam Strathcona fine sandy loam NHEL 5 366 Kratka fine sandy loam NHEL 5 5 366 Seelyeville-Seelyeville, ponded, complex, 0 to 1 percent slopes NHEL 5 56 Markey muck, occasionally ponded, 0 to 1 percent slopes NHEL 4 134

	ī	1	Ti .	1	1		
Deerwood muck	HEL	3		134			
Northwood muck	NHEL	5		134			
Eckvoll loamy fine sand	NHEL	5		134			
Roliss loam	NHEL	5		48			
Reiner loamy fine sand	NHEL	5		134			
	NHEL	5		86			
	NHEL	5		56			
	NHEL	3		86			
	NHEL	5		134			
	NHEL	5		56			
	NHEL	5		134			
	NHEL	5		134			
Berner-Markey complex	HEL	4		134			
	NHEL	5		86			
	NHEL	5					
Epoufette sandy loam, 0 to 2 percent slopes	NHEL	5		86			
Ulen loamy fine sand	NHEL	5		134			
	Northwood muck Eckvoll loamy fine sand Roliss loam Reiner loamy fine sand Reiner fine sandy loam Smiley mucky loam, depressional Rosewood fine sandy loam Linveldt fine sandy loam Smiley loam Clearriver loamy fine sand Pits, gravel-Udipsamments complex Berner-Markey complex Strathcona and Kratka soils, depressional Northwood muck, ponded Epoufette sandy loam, 0 to 2 percent slopes	Deerwood muck Northwood muck Eckvoll loamy fine sand Roliss loam Reiner loamy fine sand Reiner fine sandy loam Smiley mucky loam, depressional Rosewood fine sandy loam Linveldt fine sandy loam Clearriver loamy fine sand Pits, gravel-Udipsamments complex Berner-Markey complex Strathcona and Kratka soils, depressional NHEL Northwood muck, ponded Epoufette sandy loam, 0 to 2 percent slopes	Northwood muck	Deerwood muck Northwood muck Eckvoll loamy fine sand Roliss loam Reiner loamy fine sand Reiner fine sandy loam Smiley mucky loam, depressional Rosewood fine sandy loam Linveldt fine sandy loam Smiley loam Clearriver loamy fine sand Pits, gravel-Udipsamments complex Berner-Markey complex Strathcona and Kratka soils, depressional NHEL STATE AND STATE OF THE STATE OF	Northwood muck NHEL 5 134	Northwood muck	Northwood muck Northwood muck Eckvoll loamy fine sand Roliss loam Reiner loamy fine sand Reiner fine sandy loam Smiley mucky loam, depressional Linveldt fine sandy loam NHEL Smiley loam NHEL S

<u>T</u>	1	I	ı	ı	1	I	ı
Hamre muck, ponded	NHEL	5					
Cathro muck, ponded	NHEL	5					
Markey muck, ponded	NHEL	4					
	NHEL	5		134			
Hamre muck	NHEL	5		134			
Rosewood, Strathcona, and Berner soils, seepy	NHEL	3		86			
	NHEL	3		86			
	NHEL	4		86			
	NHEL	5		134			
	NHEL	5		86			
	NHEL	5		134			
	HEL	3		134			
	NHEL	5		134			
Espelie fine sandy loam, clayey till substratum, 0 to 1 percent	NHEL	4		86			
	NHEL	5		134			
Fluvaquents, frequently flooded-Hapludolls complex, 0 to 30	NHEL	5		86			
Foldahl fine sandy loam, loamy till substratum, 0 to 3 percent	NHEL	5		134			
	Cathro muck, ponded Markey muck, ponded Radium loamy sand Hamre muck Rosewood, Strathcona, and Berner soils, seepy Rosewood-Hamar complex Borup very fine sandy loam, 0 to 1 percent slopes Cathro muck, 0 to 1 percent slopes Clearwater clay, 0 to 2 percent slopes Clearwater mucky clay loam, 0 to 1 percent slopes Deerwood muck, 0 to 1 percent slopes Eckvoll loamy fine sand, 0 to 2 percent slopes Espelie fine sandy loam, clayey till substratum, 0 to 1 percent slopes Hecla loamy fine sand, 0 to 2 percent slopes Fluvaquents, frequently flooded-Hapludolls complex, 0 to 30 percent slopes	Cathro muck, ponded NHEL Markey muck, ponded Radium loamy sand Hamre muck Rosewood, Strathcona, and Berner soils, seepy Rosewood-Hamar complex Borup very fine sandy loam, 0 to 1 percent slopes Cathro muck, 0 to 1 percent slopes Clearwater clay, 0 to 2 percent slopes Clearwater mucky clay loam, 0 to 1 percent slopes NHEL Deerwood muck, 0 to 1 percent slopes HEL Eckvoll loamy fine sand, 0 to 2 percent slopes Espelie fine sandy loam, clayey till substratum, 0 to 1 percent slopes Hecla loamy fine sand, 0 to 2 percent slopes Fluvaquents, frequently flooded-Hapludolls complex, 0 to 30 percent slopes Foldahl fine sandy loam, loamy till substratum, 0 to 3 percent NHEL	Cathro muck, ponded Cathro muck, ponded NHEL 5 Markey muck, ponded Radium loamy sand NHEL 5 Hamre muck Rosewood, Strathcona, and Berner soils, seepy NHEL 3 Rosewood-Hamar complex Borup very fine sandy loam, 0 to 1 percent slopes Cathro muck, 0 to 1 percent slopes NHEL 5 Clearwater clay, 0 to 2 percent slopes NHEL 5 Clearwater mucky clay loam, 0 to 1 percent slopes NHEL 5 Deerwood muck, 0 to 1 percent slopes Eckvoll loamy fine sand, 0 to 2 percent slopes Eckvoll loamy fine sand, 0 to 2 percent slopes HEL 3 Hecla loamy fine sand, 0 to 2 percent slopes Fluvaquents, frequently flooded-Hapludolls complex, 0 to 30 percent slopes Fluvaquents, frequently flooded-Hapludolls complex, 0 to 30 percent slopes Foldahl fine sandy loam, loamy till substratum, 0 to 3 percent NHEL 5	Cathro muck, ponded NHEL 5 Markey muck, ponded Radium loamy sand NHEL 5 Hamre muck Rosewood, Strathcona, and Berner soils, seepy NHEL 3 Rosewood-Hamar complex NHEL 3 Borup very fine sandy loam, 0 to 1 percent slopes Cathro muck, 0 to 1 percent slopes NHEL 5 Clearwater clay, 0 to 2 percent slopes NHEL 5 Clearwater mucky clay loam, 0 to 1 percent slopes NHEL 5 Deerwood muck, 0 to 1 percent slopes Eckvoll loamy fine sand, 0 to 2 percent slopes Espelie fine sandy loam, clayey till substratum, 0 to 1 percent slopes Hecla loamy fine sand, 0 to 2 percent slopes Hecla loamy fine sand, 0 to 2 percent slopes Fluvaquents, frequently flooded-Hapludolls complex, 0 to 30 percent slopes Foldahl fine sandy loam, loamy till substratum, 0 to 3 percent NHEL 5 NHEL 5 NHEL 5 Fluvaquents, frequently flooded-Hapludolls complex, 0 to 30 percent NHEL 5	Cathro muck, ponded Markey muck, ponded Radium loamy sand Hamre muck Rosewood, Strathcona, and Berner soils, seepy NHEL Rosewood-Hamar complex Rosewood-Hamar complex NHEL Borup very fine sandy loam, 0 to 1 percent slopes Cathro muck, 0 to 1 percent slopes NHEL Clearwater clay, 0 to 2 percent slopes NHEL Deerwood muck, 0 to 1 percent slopes NHEL Deerwood muck, 0 to 1 percent slopes NHEL Deerwood muck, 0 to 2 percent slopes NHEL Deerwood muck, 0 to 2 percent slopes NHEL NHE	Cathro muck, ponded Markey muck, ponded Markey muck, ponded Radium loamy sand Hamre muck Rosewood, Strathcona, and Berner soils, seepy Rosewood-Hamar complex Borup very fine sandy loam, 0 to 1 percent slopes Cathro muck, 0 to 1 percent slopes Cathro muck, 0 to 2 percent slopes Clearwater clay, 0 to 2 percent slopes Deerwood muck, 0 to 1 percent slopes Eckvoll loamy fine sand, 0 to 2 percent slopes HEL Borup very fine sandy loam, 0 to 1 percent slopes NHEL MHEL MHEL	Cathro muck, ponded Markey muck, ponded NHEL 5 NHEL 4 Radium loamy sand NHEL 5 134 Hamre muck NHEL 5 134 Rosewood, Strathcona, and Berner soils, seepy NHEL 3 86 Rosewood-Hamar complex NHEL 3 86 Borup very fine sandy loam, 0 to 1 percent slopes Cathro muck, 0 to 1 percent slopes NHEL 5 134 Clearwater clay, 0 to 2 percent slopes NHEL 5 36 Clearwater mucky clay loam, 0 to 1 percent slopes NHEL 5 134 Clearwater mucky clay loam, 0 to 1 percent slopes NHEL 5 134 Clearwater mucky clay loam, 0 to 1 percent slopes NHEL 5 134 Deerwood muck, 0 to 1 percent slopes NHEL 5 134 Eckvoll loamy fine sand, 0 to 2 percent slopes Espelie fine sandy loam, clayey till substratum, 0 to 1 percent slopes NHEL 5 134 Fluvaquents, frequently flooded-Hapludolls complex, 0 to 30 percent slopes Fluvaquents, frequently flooded-Hapludolls complex, 0 to 30 percent slopes Floldahl fine sandy loam, loamy till substratum, 0 to 3 percent NHEL 5 86 Floldahl fine sandy loam, loamy till substratum, 0 to 3 percent NHEL 5 86

	Foldahl loamy fine sand, loamy till substratum, 0 to 3 percent	NHEL	5	134		
I18A	slopes	INITEL	,	134		
I19A	Foxhome sandy loam, 0 to 2 percent slopes	NHEL	3	86		
120A	Foxlake loam, 0 to 1 percent slopes	NHEL	5	56		
123A	Glyndon very fine sandy loam, 0 to 2 percent slopes	NHEL	5	86		
124A	Grimstad fine sandy loam, 0 to 3 percent slopes	NHEL	5	86		
125A	Hamar loamy fine sand, Aspen Parkland, 0 to 1 percent slopes	NHEL	5	134		
126A	Hamerly loam, 0 to 2 percent slopes	NHEL	5	86		
127A	Hamre muck, 0 to 1 percent slopes	NHEL	5	134		
128A	Hangaard sandy loam, 0 to 2 percent slopes	HEL	2	86		
133A	Hilaire loamy fine sand, 0 to 2 percent slopes	HEL	4	134		
134A	Huot fine sandy loam, clayey till substratum, 0 to 2 percent slopes	NHEL	4	86		
137A	Kratka and Strathcona soils, 0 to 1 percent slopes	NHEL	5	86		
138A	Kratka fine sandy loam, loamy till substratum, 0 to 1 percent slopes	NHEL	5	86		
139A	Linveldt fine sandy loam, 0 to 2 percent slopes	NHEL	5	134		
I41A	Markey muck, 0 to 1 percent slopes	HEL	4	134		
142A	Markey muck, ponded, 0 to 1 percent slopes	NHEL	4			
143A	Mavie fine sandy loam, 0 to 1 percent slopes	NHEL	3	86		

		ı	ı	ī	ı	ı	1	1
144A	Newfolden loam, 0 to 2 percent slopes	NHEL	5		56			
145A	Northwood muck, 0 to 1 percent slopes	NHEL	5		134			
147A	Poppleton fine sand, 0 to 2 percent slopes	NHEL	5		134			
148A	Radium loamy sand, 0 to 2 percent slopes	NHEL	5		134			
150A	Reiner fine sandy loam, 0 to 2 percent slopes	NHEL	5		86			
I51A	Reiner loamy fine sand, 0 to 3 percent slopes	NHEL	5		134			
152A	Reis-Clearwater complex, 0 to 1 percent slopes	NHEL	5		86			
153A	Roliss loam, 0 to 2 percent slopes	NHEL	5		48			
I54A	Roliss loam, very poorly drained, 0 to 1 percent slopes	NHEL	5		48			
155A	Rosewood fine sandy loam, Aspen Parkland, 0 to 1 percent slopes	NHEL	3		86			
157B	Sandberg-Radium complex, 0 to 6 percent slopes	NHEL	5		134			
158A	Seelyeville muck, 0 to 1 percent slopes	NHEL	5		134			
159A	Smiley loam, 0 to 1 percent slopes	NHEL	5		56			
160A	Smiley mucky loam, 0 to 1 percent slopes	NHEL	5		56			
I61A	Strandquist loam, 0 to 1 percent slopes	NHEL	3		86			
162A	Syrene sandy loam, 0 to 2 percent slopes	NHEL	3		86			
163A	Thiefriver fine sandy loam, clayey till substratum, 0 to 1 percent slopes	NHEL	3		86			

	_					
164A	Ulen fine sandy loam, Aspen Parkland, 0 to 2 percent slopes	NHEL	5	134		
165A	Ulen loamy fine sand, 0 to 2 percent slopes	NHEL	5	134		
166A	Vallers loam, 0 to 2 percent slopes	NHEL	5	86		
169A	Wyandotte clay loam, 0 to 1 percent slopes	NHEL	3	86		
170A	Strathcona fine sandy loam, 0 to 1 percent slopes	NHEL	5	86		
171A	Berner and Cathro soils, ponded, 0 to 1 percent slopes	NHEL	5			
172A	Pelan sandy loam, 0 to 2 percent slopes	HEL	3	86		
173A	Boash clay loam, 0 to 2 percent slopes	NHEL	5	86		
175A	Radium-Sandberg-Garborg complex, 0 to 2 percent slopes	NHEL	5	134		
176A	Karlstad loamy sand, 0 to 2 percent slopes	HEL	3	134		
177A	Deerwood muck, dense till, 0 to 1 percent slopes	HEL	3	134		
178B	Marquette loamy sand, 2 to 9 percent slopes	HEL	2	134		
179A	Berner, Cathro and Haug soils, ponded, 0 to 1 percent slopes	NHEL	5			
181A	Northwood muck, dense till, 0 to 1 percent slopes	NHEL	5	134		
182A	Cathro muck, dense till, 0 to 1 percent slopes	NHEL	5			
184A	Percy loam, 0 to 1 percent slopes, very cobbly	NHEL	5			
186A	Percy mucky loam, 0 to 1 percent slopes	NHEL	5	134		

			ī	Г	ī	ı	1
187A	Pelan sandy loam, dense till, 0 to 2 percent slopes	HEL	3		86		
188A	Haug muck, 0 to 1 percent slopes	NHEL	5		134		
189A	Nereson fine sandy loam, 0 to 2 percent slopes, very cobbly	NHEL	5		86		
190A	Redby loamy fine sand, dense till, 0 to 3 percent slopes	NHEL	5		134		
I91A	Rosewood fine sandy loam, dense till, 0 to 1 percent slopes	NHEL	3		86		
194A	Strathcona fine sandy loam, dense till, 0 to 1 percent slopes	NHEL	5		86		
195A	Kratka and Strathcona soils, dense till, 0 to 1 percent slopes	NHEL	5		86		
197A	Cormant loamy fine sand, dense till, 0 to 2 percent slopes	NHEL	5		134		
198A	Ulen fine sandy loam, dense till, 0 to 2 percent slopes	NHEL	5		134		
199A	Berner muck, dense till, 0 to 1 percent slopes	HEL	4		134		
I101A	Foxhome sandy loam, dense till, 0 to 2 percent slopes	NHEL	3		86		
I102A	Mavie fine sandy loam, dense till, 0 to 1 percent slopes	NHEL	3		86		
I103A	Kratka fine sandy loam, dense till, 0 to 1 percent slopes	NHEL	5		86		
I104A	Strandquist loam, dense till, 0 to 1 percent slopes	NHEL	3		86		
I105A	Hangaard sandy loam, dense till, 0 to 2 percent slopes	HEL	2		86		
I106A	Enstrom loamy fine sand, dense till, 0 to 2 percent slopes	NHEL	5		134		
I108A	Syrene sandy loam, dense till, 0 to 2 percent slopes	NHEL	3		86		

				1			
I109A	Fluvaquents, 0 to 2 percent slopes, frequently flooded	NHEL	5		86		
I110A	Augsburg, Borup and Colvin soils, very poorly drained, 0 to 1 percent slopes	NHEL	4		86		
I111A	Wheatville very fine sandy loam, 0 to 2 percent slopes	NHEL	4		86		
I112A	Augsburg very fine sandy loam, 0 to 1 percent slopes	NHEL	4		86		
I113A	Grimstad fine sandy loam, dense till, 0 to 2 percent slopes	NHEL	5		86		
I114A	Foldahl fine sandy loam, dense till, 0 to 2 percent slopes	NHEL	5		134		
I116A	Grygla loamy fine sand, dense till, 0 to 1 percent slopes	NHEL	5		134		
I117A	Skagen loam, dense till, 0 to 2 percent slopes, very cobbly	NHEL	5		86		
I118A	Poppleton fine sand, dense till, 0 to 2 percent slopes	NHEL	5		134		
I119A	Bearden silty clay loam, 0 to 2 percent slopes	NHEL	5		86		
I121A	Glyndon-Ulen complex, 0 to 2 percent slopes	NHEL	5		86		
I123A	Bearden-Colvin silty clay loams, 0 to 2 percent slopes	NHEL	5		86		
I124A	Colvin-Fargo complex, 0 to 1 percent slopes	NHEL	5		86		
I125A	Skagen loam, dense till, 0 to 2 percent slopes	NHEL	5		86		
I126A	Nereson fine sandy loam, 0 to 2 percent slopes	NHEL	5		86		
I127A	Percy loam, 0 to 1 percent slopes	NHEL	5		86		
I130A	Hegne-Fargo silty clays, 0 to 1 percent slopes	NHEL	5		86		

					ı	
I132A	Northcote-Eaglepoint clays, 0 to 1 percent slopes	NHEL	5	86		
I133A	Northcote clay, 0 to 1 percent slopes	NHEL	5	86		
l135B	Wahpeton-Ludden silty clays, 0 to 6 percent slopes, flooded	NHEL	5	86		
I150B	Zell, fine-silty-LaDelle silt loams, 2 to 6 percent slopes	NHEL	5	86		
I171A	Rockwell fine sandy loam, 0 to 1 percent slopes	NHEL	5	86		
1229A	Fargo silty clay, 0 to 1 percent slopes	NHEL	5	86		
1248A	Wahpeton silty clay, 0 to 2 percent slopes, occasionally flooded	NHEL	5	86		
1248B	Wahpeton silty clay, 2 to 6 percent slopes, occasionally flooded	NHEL	5	86		
1260A	Rifle mucky peat, 0 to 1 percent slopes	NHEL	5	56		
1376A	Colvin silty clay loam, 0 to 1 percent slopes	NHEL	5	86		
1467A	Bearden silt loam, 0 to 2 percent slopes	NHEL	5	86		
1475B	Sinai silty clay, levees, 0 to 6 percent slopes	NHEL	5	86		
1478A	Lamoure silty clay loam, 0 to 1 percent slopes, occasionally flooded	NHEL	5	86		
1507B	Glyndon loam, dry, 2 to 6 percent slopes	NHEL	5	86		
1573A	Cormant loamy sand, 0 to 1 percent slopes	NHEL	5	134		
1620A	Clearwater-Reis clay loams, 0 to 1 percent slopes	NHEL	5	86		
1690A	Kittson loam, wet, 0 to 2 percent slopes	NHEL	5	56		

						1	T 1
Garnes fine sandy loam, 0 to 2 percent slopes	NHEL	5		48			
Roliss loam, dense till, 0 to 1 percent slopes	NHEL	5		48			
Roliss loam, very poorly drained, dense till, 0 to 1 percent slopes	NHEL	5		48			
Roliss-Vallers loams, 0 to 1 percent slopes	NHEL	5		86			
Corliss loamy sand, 2 to 6 percent slopes	NHEL	5		134			
Dora muck, 0 to 1 percent slopes	HEL	4		134			
Dora muck, ponded, 0 to 1 percent slopes	NHEL	4					
Enstrom loamy fine sand, 0 to 2 percent slopes	NHEL	5		134			
Grygla loamy fine sand, 0 to 1 percent slopes	NHEL	5		134			
Hilaire fine sandy loam, 0 to 2 percent slopes	HEL	4		134			
Rosewood, Strathcona, and Berner soils, 0 to 1 percent slopes	NHEL	3		86			
Eckvoll loamy fine sand, dense till, 0 to 2 percent slopes	NHEL	5		134			
Linveldt fine sandy loam, dense till, 0 to 2 percent slopes	NHEL	5		134			
	HEL	4		134			
	NHEL	5		134			
Rushlake loamy sand, 0 to 2 percent slopes	NHEL	5		134			
Wildwood muck, 0 to 1 percent slopes	HEL	3		134			
	Roliss loam, dense till, 0 to 1 percent slopes Roliss-Vallers loams, 0 to 1 percent slopes Corliss loamy sand, 2 to 6 percent slopes Dora muck, 0 to 1 percent slopes Dora muck, ponded, 0 to 1 percent slopes Enstrom loamy fine sand, 0 to 2 percent slopes Grygla loamy fine sand, 0 to 1 percent slopes Hilaire fine sandy loam, 0 to 2 percent slopes Rosewood, Strathcona, and Berner soils, 0 to 1 percent slopes Eckvoll loamy fine sand, dense till, 0 to 2 percent slopes Linveldt fine sandy loam, dense till, 0 to 2 percent slopes Reiner loamy fine sand, dense till, 0 to 2 percent slopes Reiner loamy fine sand, dense till, 0 to 2 percent slopes	Roliss loam, dense till, 0 to 1 percent slopes Roliss loam, very poorly drained, dense till, 0 to 1 percent slopes Roliss-Vallers loams, 0 to 1 percent slopes NHEL Corliss loamy sand, 2 to 6 percent slopes Dora muck, 0 to 1 percent slopes Dora muck, 0 to 1 percent slopes NHEL Enstrom loamy fine sand, 0 to 2 percent slopes HEL Grygla loamy fine sand, 0 to 1 percent slopes HEL Rosewood, Strathcona, and Berner soils, 0 to 1 percent slopes Eckvoll loamy fine sand, dense till, 0 to 2 percent slopes NHEL Linveldt fine sandy loam, dense till, 0 to 2 percent slopes Reiner loamy fine sand, dense till, 0 to 2 percent slopes Reiner loamy fine sand, dense till, 0 to 2 percent slopes Reiner loamy fine sand, dense till, 0 to 2 percent slopes Rushlake loamy sand, 0 to 2 percent slopes NHEL Rushlake loamy sand, 0 to 2 percent slopes	Roliss loam, dense till, 0 to 1 percent slopes Roliss loam, very poorly drained, dense till, 0 to 1 percent slopes Roliss-Vallers loams, 0 to 1 percent slopes Roliss-Vallers loams, 0 to 1 percent slopes Corliss loamy sand, 2 to 6 percent slopes NHEL 5 Dora muck, 0 to 1 percent slopes Dora muck, 0 to 1 percent slopes NHEL 4 Dora muck, ponded, 0 to 1 percent slopes Rosewood, price sand, 0 to 2 percent slopes HEL 4 Rosewood, Strathcona, and Berner soils, 0 to 1 percent slopes Rosewood, Strathcona, dense till, 0 to 2 percent slopes Linveldt fine sandy loam, dense till, 0 to 2 percent slopes Reiner loamy fine sand, dense till, 0 to 2 percent slopes Reiner loamy fine sand, dense till, 0 to 2 percent slopes Rushlake loamy sand, 0 to 2 percent slopes NHEL 5 Rushlake loamy sand, 0 to 2 percent slopes NHEL 5 Rushlake loamy sand, 0 to 2 percent slopes NHEL 5 HEL 5 Rushlake loamy sand, 0 to 2 percent slopes NHEL 5 Rushlake loamy sand, 0 to 2 percent slopes	Roliss loam, dense till, 0 to 1 percent slopes Roliss loam, dense till, 0 to 1 percent slopes Roliss loam, very poorly drained, dense till, 0 to 1 percent slopes Roliss-Vallers loams, 0 to 1 percent slopes NHEL 5 Corliss loamy sand, 2 to 6 percent slopes NHEL 5 Dora muck, 0 to 1 percent slopes NHEL 4 Dora muck, ponded, 0 to 1 percent slopes NHEL 5 Grygla loamy fine sand, 0 to 2 percent slopes HEL 4 Rosewood, Strathcona, and Berner soils, 0 to 1 percent slopes Rosewood, Strathcona, and Berner soils, 0 to 1 percent slopes Linveldt fine sandy loam, dense till, 0 to 2 percent slopes Reiner loamy fine sand, dense till, 0 to 2 percent slopes Reiner loamy fine sand, dense till, 0 to 2 percent slopes Rushlake loamy sand, 0 to 2 percent slopes NHEL 5 Rushlake loamy sand, 0 to 2 percent slopes NHEL 5 Rushlake loamy sand, 0 to 2 percent slopes	Roliss loam, dense till, 0 to 1 percent slopes Roliss loam, very poorly drained, dense till, 0 to 1 percent slopes Roliss-Vallers loams, 0 to 1 percent slopes Roliss-Vallers loams, 0 to 1 percent slopes Roliss-Vallers loams, 0 to 1 percent slopes NHEL 5 86 Corliss loamy sand, 2 to 6 percent slopes NHEL 5 134 Dora muck, 0 to 1 percent slopes NHEL 4 134 Dora muck, ponded, 0 to 1 percent slopes Rosewood, 0 to 1 percent slopes HEL 4 134 Hilaire fine sandy loam, 0 to 2 percent slopes Rosewood, Strathcona, and Berner soils, 0 to 1 percent slopes Eckvoll loamy fine sand, dense till, 0 to 2 percent slopes NHEL 5 134 Rosewood, Strathcona, and Berner soils, 0 to 1 percent slopes Linveldt fine sandy loam, dense till, 0 to 2 percent slopes Reiner loamy fine sand, dense till, 0 to 2 percent slopes Reiner loamy fine sand, dense till, 0 to 2 percent slopes NHEL 5 134 Reiner loamy fine sand, dense till, 0 to 2 percent slopes NHEL 5 134 Reiner loamy fine sand, dense till, 0 to 2 percent slopes NHEL 5 134 Rushlake loamy sand, 0 to 2 percent slopes NHEL 5 134	Roliss loam, dense till, 0 to 1 percent slopes Roliss loam, very poorly drained, dense till, 0 to 1 percent slopes Roliss-Vallers loams, 0 to 1 percent slopes Roliss-Vallers loams, 0 to 1 percent slopes Roliss-Vallers loams, 0 to 1 percent slopes Corliss loamy sand, 2 to 6 percent slopes NHEL 5 86 Corliss loamy sand, 2 to 6 percent slopes NHEL 5 134 Dora muck, 0 to 1 percent slopes NHEL 4 134 Dora muck, ponded, 0 to 1 percent slopes Rorsemon loamy fine sand, 0 to 2 percent slopes NHEL 5 134 Grygla loamy fine sand, 0 to 2 percent slopes HEL 4 134 Rosewood, Strathcona, and Berner soils, 0 to 1 percent slopes Rosewood, Strathcona, and dense till, 0 to 2 percent slopes Linveldt fine sandy loam, dense till, 0 to 2 percent slopes Reiner loamy fine sand, dense till, 0 to 2 percent slopes Reiner loamy fine sand, dense till, 0 to 2 percent slopes Reiner loamy fine sand, dense till, 0 to 2 percent slopes NHEL 5 134 Reiner loamy fine sand, dense till, 0 to 2 percent slopes NHEL 5 134 Reiner loamy fine sand, dense till, 0 to 2 percent slopes NHEL 5 134 Reiner loamy fine sand, dense till, 0 to 2 percent slopes NHEL 5 134 Reiner loamy sand, 0 to 2 percent slopes NHEL 5 134	Roliss loam, dense till, 0 to 1 percent slopes Roliss loam, very poorly drained, dense till, 0 to 1 percent slopes Roliss-Vallers loams, 0 to 1 percent slopes NHEL 5 48 Roliss-Vallers loams, 0 to 1 percent slopes NHEL 5 48 Roliss-Vallers loams, 0 to 1 percent slopes NHEL 5 134 Dora muck, 0 to 1 percent slopes NHEL 4 134 Dora muck, 0 to 1 percent slopes NHEL 5 134 Benstrom loamy fine sand, 0 to 2 percent slopes NHEL 5 134 Rosewood, Strathcona, and Berner soils, 0 to 1 percent slopes Rosewood, Strathcona, and Berner soils, 0 to 2 percent slopes Berner-Markey mucks, 0 to 1 percent slopes Rosewood, Strathcona, dense till, 0 to 2 percent slopes Reiner loamy fine sand, dense till, 0 to 2 percent slopes Rosewood, Strathcona, and Berner soils, 0 to 1 percent slopes Rosewood, Strathcona, and Berner soils, 0 to 1 percent slopes NHEL 5 134 Berner-Markey mucks, 0 to 1 percent slopes NHEL 5 134 Reiner loamy fine sand, dense till, 0 to 2 percent slopes NHEL 5 134 Rushlake loamy sand, 0 to 2 percent slopes NHEL 5 134 Rushlake loamy sand, 0 to 2 percent slopes

1850A	Thiefriver fine sandy loam, 0 to 1 percent slopes	NHEL	3	86		
lGp	Pits, gravel and sand	NHEL	5	134		
IM-W	Miscellaneous water					
IWa	Water					
W	Water					