

Highly Erodible Soil Map Unit List - PINE COUNTY, MN

C=.09

R=120

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

musym	muname	HEL	T	K	I	slope_%	slope_I	LS
	The soil legend below is the previous Pine County Legend							
12AC	Emmert gravelly sandy loam, 1 to12 percent slopes	PHEL	2	0.17	0	6.0	80	0.60
12B	Emmert gravelly sandy loam, 2 to6 percent slopes	NHEL	2	0.17	0	4.0	80	0.37
12C	Emmert gravelly sandy loam, 6 to12 percent slopes	PHEL	2	0.17	0	6.0	80	0.60
12D	Emmert gravelly sandy loam, 12 to18 percent slopes	HEL	2	0.17	0	18.0	80	3.00
12DE	Emmert gravelly sandy loam, 12 to25 percent slopes	HEL	2	0.17	0	18.0	80	3.00
12E	Emmert gravelly sandy loam, 18 to25 percent slopes	HEL	2	0.17	0	18.0	80	3.00
12F	Emmert gravelly sandy loam, 25 to40 percent slopes	HEL	2	0.17	0	30.0	80	7.00
14	Adolph silty clay loam	NHEL	4	0.28	38	1.0	80	0.12
218	Ahmeek fine sandy loam, 2 to6 percent slopes	NHEL	3	0.28	86	4.0	80	0.37
21BC	Ahmeek fine sandy loam, 2 to12 percent slopes	PHEL	4	0.24	86	8.0	80	0.89
21C	Ahmeek fine sandy loam, 6 to12 percent slopes	HEL	3	0.37	56	8.0	80	0.89
21D	Ahmeek fine sandy loam, 12 to18 percent slopes	HEL	3	0.37	56	16.0	80	2.60
21DE	Ahmeek fine sandy loam, 12 to25 percent slopes	HEL	3	0.37	56	16.0	80	2.60
21E	Ahmeek fine sandy loam, 18 to25 percent slopes	HEL	3	0.37	56	20.0	80	3.50
21F	Ahmeek fine sandy loam, 25 to40 percent slopes	HEL	4	0.24	56	30.0	80	7.00
43B	Automba loam, 2 to6 percent slopes	NHEL	4	0.28	56	4.0	80	0.37
43BC	Automba loam, 2 to12 percent slopes	PHEL	5	0.28	56	8.0	80	0.89
43C	Automba loam, 6 to12 percent slopes	PHEL	5	0.28	56	8.0	80	0.89
49A	Antigo silt loam, 0 to2 percent slopes	NHEL	4	0.37	56	1.0	80	0.12
49B	Antigo silt loam, 2 to6 percent slopes	NHEL	4	0.37	56	4.0	80	0.37
49BC	Antigo silt loam, 2 to12 percent slopes	PHEL	4	0.37	56	8.0	80	0.89
49C	Antigo silt loam, 6 to12 percent slopes	PHEL	4	0.37	56	8.0	80	0.89
72	Shooker loam	NHEL	5	0.32	56	1.0	80	0.12
75	Bluffton loam	NHEL	5	0.28	56	1.0	80	0.12
119B	Pomroy fine sand, 2 to6 percent slopes	NHEL	4	0.15	250	4.0	80	0.37
119BC	Pomroy fine sand, 2 to12 percent slopes	NHEL	4	0.15	250	8.0	80	0.89
119C	Pomroy fine sand, 6 to12 percent slopes	NHEL	4	0.15	250	8.0	80	0.89

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musym	muname	HEL	T	K	I	slope_%	slope_I	LS
119D	Pomroy fine sand, 12 to18 percent slopes	PHL	4	0.15	250	16.0	80	2.60
124	Brickton silt loam	NHEL	5	0.43	48	1.0	100	0.13
133A	Dalbo silt loam, 0 to2 percent slopes	NHEL	3	0.43	48	1.0	100	0.13
133B	Dalbo silt loam, 2 to6 percent slopes	PHL	3	0.43	48	4.0	100	0.40
133BC	Dalbo silt loam, 2 to12 percent slopes	PHL	3	0.43	48	4.0	100	0.40
133C	Dalbo silt loam, 6 to12 percent slopes	HEL	3	0.43	48	8.0	100	0.99
133D	Dalbo silt loam, 12 to18 percent slopes	HEL	4	0.24	86	16.0	80	2.60
152B	Milaca fine sandy loam, 2 to6 percent slopes	NHEL	4	0.24	86	4.0	80	0.40
152BC	Milaca fine sandy loam. 2 to12 percent slopes	PHL	4	0.24	86	8.0	80	0.89
152C	Milaca fine sandy loam, 6 to12 percent slopes	PHL	4	0.24	86	8.0	80	0.89
152D	Milaca fine sandy loam, 12 to18 percent slopes	HEL	4	0.24	86	16.0	80	2.60
152DE	Milaca fine sandy loam, 12 to25 percent slopes	HEL	4	0.24	86	20.0	80	3.50
152E	Milaca fine sandy loam, 18 to25 percent slopes	HEL	4	0.24	86	20.0	80	3.50
152F	Milaca fine sandy loam, 25 to40 percent slopes	HEL	4	0.24	86	30.0	80	7.00
153B	Santiago silt loam, 2 to6 percent slopes	NHEL	5	0.37	56	4.0	80	0.37
153C	Santiago silt loam, 6 to12 percent slopes	PHL	5	0.37	56	8.0	80	0.89
155A	Chetek sandy loam, 0 to2 percent slopes	NHEL	3	0.24	86	1.0	80	0.12
155B	Chetek sandy loam, 2 to6 percent slopes	NHEL	3	0.24	86	4.0	80	0.37
155BC	Chetek sandy loam, 2 to12 percent slopes	PHL	3	0.24	86	8.0	80	0.89
155C	Chetek sandy loam, 6 to12 percent slopes	PHL	3	0.24	86	8.0	80	0.89
155D	Chetek sandy loam, 12 to18 percent slopes	HEL	3	0.24	86	16.0	80	2.60
155DE	Chetek sandy loam, 12 to25 percent slopes	HEL	3	0.24	86	20.0	80	3.50
155E	Chetek sandy loam, 18 to25 percent slopes	HEL	3	0.24	86	20.0	80	3.50
158A	Zimmerman loamy fine sand, 0 to2 percent slopes	NHEL	5	0.17	134	1.0	80	0.12
158B	Zimmerman loamy fine sand, 2 to6 percent slopes	NHEL	5	0.17	134	4.0	80	0.37
158C	Zimmerman loamy fine sand, 6 to12 percent slopes	NHEL	5	0.17	134	8.0	80	0.89
159A	Anoka loam very fine sand, 0 to2 percent slopes	NHEL	5	0.17	134	1.0	80	0.12
159B	Anoka loam very fine sand, 2 to6 percent slopes	NHEL	5	0.17	134	4.0	80	0.37
159C	Anoka loam very fine sand, 6 to12 percent slopes	NHEL	5	0.17	134	8.0	80	0.89

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musym	muname	HEL	T	K	I	slope_%	slope_l	LS
161	Isanti loamy fine sand	NHEL	5	0.17	134	1.0	80	0.12
161	Lino loamy fine sand	NHEL	4	0.17	134	1.0	80	0.12
164A	Mora loam, 0 to 2 percent slopes	NHEL	4	0.28	56	1.0	80	0.12
161B	Mora loam, 2 to 6 percent slopes	NHEL	4	0.28	56	4.0	80	0.37
165	Parent loam	NHEL	4	0.32	48	1.0	80	0.12
166	Ronneby loam	NHEL	5	0.32	56	1.0	80	0.12
167B	Baudette very fine sandy loam, 1 to6 percent slopes	NHEL	5	0.28	86	4.0	100	0.37
169B	Braham loamy fine sand, 2 to6 percent slopes	NHEL	5	0.17	134	4.0	80	0.37
169BC	Braham loamy fine sand, 2 to12 percent slopes	NHEL	5	0.17	134	7.0	80	0.75
169C	Braham loamy fine sand, 6 to12 percent slopes	NHEL	5	0.17	134	8.0	80	0.89
170	Blomford loamy fine sand	NHEL	4	0.17	134	1.0	80	0.12
182	Halder loam	NHEL	5	0.32	56	1.0	80	0.12
186	Nemadji loamy fine sand	NHEL	5	0.17	134	1.0	80	0.12
188A	Omega loamy fine sand, 0 to2 percent slopes	NHEL	5	0.17	134	1.0	80	0.12
188B	Omega loamy fine sand, 2 to6 percent slopes	NHEL	5	0.17	134	4.0	80	0.37
188BC	Omega loamy fine sand, 2 to12 percent slopes	NHEL	5	0.17	134	7.0	80	0.75
188C	Omega loamy fine sand, 6 to12 percent slopes	NHEL	5	0.17	134	8.0	80	0.89
188D	Omega loamy fine sand, 12 to18 percent slopes	PHEL	5	0.17	134	16.0	80	2.60
188DE	Omega loamy fine sand, 12 to25 percent slopes	PHEL	5	0.17	134	16.0	80	2.60
188E	Omega loamy fine sand, 18 to25 percent slopes	HEL	5	0.17	134	20.0	80	3.50
202	Meehan loamy sand	NHEL	5	0.17	134	1.0	80	0.12
204B	Cushing loam, 2 to6 percent slopes	NHEL	5	0.32	56	4.0	80	0.37
204BC	Cushing loam 2 to12 percent slopes	PHEL	5	0.32	56	8.0	80	0.89
204C	Cushing loam. 6 to12 percent slopes	PHEL	5	0.32	56	8.0	80	0.89
204D	Cushing loam, 12 to18 percent slopes	HEL	5	0.32	56	16.0	80	2.60
204DE	Cushing loam, 12 to25 percent slopes	HEL	5	0.32	56	20.0	80	3.50
204E	Cushing loam, 18 to25 percent slopes	HEL	5	0.32	56	20.0	80	3.50
204F	Cushing loam, 25 to35 percent slopes	HEL	5	0.32	56	30.0	80	7.00
207B	Nymore loamy sand, 1 to6 percent slopes	NHEL	5	0.17	134	4.0	80	0.37

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207C	Nymore loamy sand, 6 to12 percent slopes	NHEL	5	0.17	134	8.0	80	0.89
117	Nokasippi mucky loamy fine sand	NHEL	4	0.17	134	1.0	80	0.12
218	Watab loamy fine sand	NHEL	4	0.17	134	1.0	80	0.12
254B	Hibbing loam, 2 to6 percent slopes	NHEL	3	0.32	48	4.0	80	0.37
254BC	Hibbing loam, 2 to12 percent slopes	PHEL	3	0.32	48	8.0	80	0.89
254C	Hibbing loam, 6 to12 percent slopes	PHEL	3	0.32	48	8.0	80	0.89
254D	Hibbing loam, 12 to18 percent slopes	HEL	3	0.32	48	16.0	80	2.60
254DE	Hibbing loam, 12 to25 percent slopes	HEL	5	0.32	48	20.0	80	3.50
254E	Hibbing loam, 18 to25 percent slopes	HEL	5	0.32	48	20.0	80	3.50
264A	Freeon silt loam, 0 to2 percent slopes	NHEL	5	0.37	56	1.0	80	0.12
264B	Freeon silt loam, 2 to6 percent slopes	NHEL	5	0.37	56	4.0	80	0.37
265	Soderville loamy fine sand	NHEL	5	0.15	134	1.0	80	0.12
266	Freer silt loam	NHEL	4	0.37	56	1.0	80	0.12
268A	Cromwell sandy loam, 0 to2 percent slopes	NHEL	3	0.20	86	1.0	80	0.12
268B	Cromwell sandy loam, 2 to6 percent slopes	NHEL	3	0.20	86	4.0	80	0.37
268BC	Cromwell sandy loam, 2 to12 percent slopes	PHEL	3	0.20	86	8.0	80	0.89
268C	Cromwell sandy loam, 6 to12 percent slopes	PHEL	3	0.20	86	8.0	80	0.89
268D	Cromwell sandy loam, 12 to18 percent slopes	HEL	3	0.20	86	16.0	80	2.60
274	Newson loamy sand	NHEL	5	0.17	134	1.0	80	0.12
292	Alstad silt loam	NHEL	5	0.32	56	1.0	80	0.12
302A	Rosholt sandy loam, 0 to2 percent slopes	NHEL	4	0.24	86	1.0	80	0.12
302B	Rosholt sandy, loam, 2 to6 percent slopes	NHEL	4	0.24	86	4.0	80	0.37
302BC	Rosholt sandy loam, 2 to12 percent slopes	PHEL	4	0.24	86	8.0	80	0.89
302C	Rosholt sandy loam, 6 to12 percent slopes	PHEL	4	0.24	86	8.0	80	0.89
325	Prebish fine sandy loam	NHEL	4	0.20	86	1.0	80	0.12
326	Hillet loam	NHEL	4	0.28	56	1.0	80	0.12
328A	Sartell fine sand, 0 to2 percent slopes	NHEL	5	0.15	250	1.0	80	0.12
328B	Sartell fine sand, 2 to6 percent slopes	NHEL	5	0.15	250	4.0	80	0.37
328C	Sartell fine sand, 6 to12 percent slopes	NHEL	5	0.15	250	8.0	80	0.89

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musym	muname	HELC	T	K	I	slope_%	slope_l	LS
328D	Sartell fine sand, 12 to18 percent slopes	PHEL	5	0.15	250	16.0	80	2.60
328E	Sartell fine sand, 18 to25 percent slopes	HEL	5	0.15	250	20.0	80	3.50
337	Warman mucky loam	NHEL	4	0.24	56	1.0	80	0.12
346	Talmoon loam	NHEL	5	0.28	56	1.0	80	0.12
355A	Cloquet fine sandy loam, 0 to2 percent slopes	NHEL	3	0.24	86	1.0	80	0.12
355B	Cloquet fine sandy loam, 2 to6 percent slopes	NHEL	3	0.24	86	4.0	80	0.37
355BC	Cloquet fine sandy loam, 2 to12 percent slopes	PHEL	3	0.24	86	8.0	80	0.89
355C	Cloquet fine sandy loam, 6 to12 percent slopes	PHEL	3	0.24	86	8.0	80	0.89
355D	Cloquet fine sandy loam, 12 to18 percent slopes	HEL	3	0.24	86	16.0	80	2.60
355DE	Cloquet fine sandy loam, 12 to25 percent slopes	HEL	3	0.24	86	20.0	80	3.50
355E	Cloquet fine sandy loam, 18 to25 percent slopes	HEL	3	0.24	86	20.0	80	3.50
420	Twig muck	NHEL	4	0.00	134	1.0	80	0.12
428	Hassman silty clay loam	NHEL	5	0.28	38	1.0	100	0.13
454A	Mahtomedi loamy sand, 0 to2 percent slopes	NHEL	5	0.15	134	1.0	80	0.12
454BC	Mahtomedi loamy sand, 2 to12 percent slopes	NHEL	5	0.15	134	6.0	80	0.60
454DE	Mahtomedi loamy sand, 12 to25 percent slopes	PHEL	5	0.15	134	18.0	80	3.00
454F	Mahtomedi loamy sand, 25 to40 percent slopes	HEL	5	0.15	134	30.0	80	7.00
458A	Menahga loamy coarse sand, 0 to2 percent slopes	NHEL	5	0.15	134	1.0	80	0.12
458B	Menahga loamy coarse sand, 2 to6 percent slopes	NHEL	5	0.15	134	4.0	80	0.37
458BC	Menahga loamy coarse sand, 2 to12 percent slopes	NHEL	5	0.15	134	7.0	80	0.75
458C	Menahga loamy coarse sand, 6 to12 percent slopes	NHEL	5	0.15	134	8.0	80	0.89
458D	Menahga loamy coarse sand, 12 to18 percent slopes	PHEL	5	0.15	134	16.0	80	2.60
458DE	Menahga loamy coarse sand, 12 to25 percent slopes	PHEL	5	0.15	134	16.0	80	2.60
458E	Menahga loamy coarse sand, 18 to25 percent slopes	HEL	5	0.15	134	20.0	80	3.50
458F	Menahga loamy coarse sand, 25 to40 percent slopes	HEL	5	0.15	134	30.0	80	7.00
466	Ogilvie silt loam	NHEL	4	0.28	56	1.0	80	0.12
481	Kratka fine sandy loam	NHEL	5	0.20	86	1.0	80	0.12
502	Dusler silt loam	NHEL	5	0.37	48	1.0	80	0.12
504A	Dusler very fine sandy loam, 0 to2 percent slopes	NHEL	5	0.37	86	1.0	80	0.12

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504B	Duluth very fine sandy loam, 2 to6 percent slopes	NHEL	5	0.37	86	4.0	80	0.37
504BC	Duluth very fine sandy loam, 2 to12 percent slopes	PHEL	5	0.37	86	8.0	80	0.89
504C	Duluth very fine sandy loam, 6 to12 percent slopes	PHEL	5	0.37	86	8.0	80	0.89
504D	Duluth very fine sandy loam, 12 to18 percent slopes	HEL	5	0.37	86	16.0	80	2.60
504DE	Duluth very fine sandy loam, 12 to25 percent slopes	HEL	5	0.37	86	16.0	80	2.60
504E	Duluth very fine sandy loam, 18 to25 percent slopes	HEL	5	0.37	86	20.0	80	3.50
504F	Duluth very fine sandy loam, 25 to35 percent slopes	HEL	5	0.37	86	30.0	80	7.00
530	Greenwood mucky peat	NHEL	5	0.00	56	0.2	80	0.08
531	Beseman muck	NHEL	5	0.00	134	0.2	80	0.08
533	Loxley muck	NHEL	5	0.00	134	0.2	80	0.08
534	Mooselake mucky peat	NHEL	5	0.00	56	0.2	80	0.08
536	Dawson peat	NHEL	4	0.00	38	0.2	80	0.08
537	Lobo peat	NHEL	5	0.00	56	0.2	80	0.08
540	Seelyville muck	NHEL	5	0.00	134	0.2	80	0.08
541	Rifle mucky peat	NHEL	5	0.00	56	0.2	80	0.08
543	Markey muck	NHEL	4	0.00	134	0.2	80	0.08
544	Cathro muck	NHEL	5	0.00	134	0.2	80	0.08
565	Eckvoll loamy sand, 0 to3 percent slopes	NHEL	5	0.17	134	0.2	80	0.08
614	Blackhoof muck	NHEL	3	0.00	134	1.0	80	0.12
682B	Milaca fine sandy loam, 2 to6 percent slopes, very stony	NHEL	4	0.20	0	4.0	80	0.37
682C	Milaca fine sandy loam, 6 to12 percent slopes, very stony	PHEL	4	0.20	0	8.0	80	0.89
682D	Milaca fine sandy loam, 12 to18 percent slopes, very stony	HEL	4	0.20	0	16.0	80	2.60
685	Oesterle fine sandy loam	NHEL	4	0.24	86	1.0	80	0.12
696	Hermantown silt loam	NHEL	4	0.32	56	1.0	80	0.12
714	Buhl loam	NHEL	3	0.37	56	1.0	80	0.12
732	Bushville fine sand	NHEL	4	0.15	220	1.0	80	0.12
766	Kratka fine sandy loam	NHEL	3	0.17	86	1.0	80	0.12
792	Fordum fine sandy loam	NHEL	4	0.20	0	1.0	80	0.12
872	Pengilly and Winterfield soils	NHEL	5	0.24	86	1.0	80	0.12

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928B	Cushing-Mahtomedi complex, 2 to6 percent slopes	NHEL	5	0.32	56	4.0	80	0.37
928C	Cushing-Mahtomedi complex, 6 to12 percent slopes	PHEL	5	0.32	56	8.0	80	0.89
928D	Cushing-Mahtomedi complex, 12 to18 percent slopes	HEL	5	0.32	56	16.0	80	2.60
949B	Milaca-Chetek complex, 3 to6 percent slopes	NHEL	3	0.24	86	4.0	80	0.37
949C	Milaca-Chetek complex, 6 to12 percent slopes	PHEL	3	0.24	86	8.0	80	0.89
949D	Milaca-Chetek complex, 12 to18 percent slopes	HEL	3	0.24	86	16.0	80	2.60
949E	Milaca-Chetek complex, 18 to25 percent slopes	HEL	3	0.24	86	20.0	80	3.50
949F	Milaca-Chetek complex, 25 to40 percent slopes	HEL	3	0.24	86	30.0	80	7.00
975B	Ahmeek and Omega soils, 2 to6 percent slopes	NHEL	3	0.28	86	4.0	80	0.37
975C	Ahmeek and Omega soils, 6 to12 percent slopes	HEL	3	0.37	56	8.0	80	0.89
975D	Ahmeek and Omega soils, 12 to18 percent slopes	HEL	3	0.37	56	16.0	80	2.60
975E	Ahmeek and Omega soils, 18 to25 percent slopes	HEL	3	0.37	56	20.0	80	3.50
980	Blackhoof and Mahtowa soils	NHEL	5	0.28	48	0.2	80	0.08
990	Twig and Parent soils	NHEL	4	0.32	48	1.0	80	0.12
995	Borosaprists undifferentiated	NHEL	5	0.00	134	0.2	80	0.08
1001	Alluvial Land, occasionally flooded	NHEL	5	0.28	86	1.0	80	0.12
1002	Alluvial Land, frequently flooded	NHEL	5	0.28	56	1.0	80	0.12
1030	Udipsamments, pits, gravel complex	PHEL				10.0	80	1.20
1022	Dumps	PHEL				10.0	80	1.20
1033	Udipsamments, lake beaches, sandy	NHEL	5	0.02	134	1.0	80	0.12
1068	Caryville sandy loam	NHEL	5	0.20	86	1.0	80	0.12
1069B	Fairport-Rock outcrop complex, 1 to6 percent slopes	NHEL	4	0.37	56	4.0	80	0.37
1069C	Fairport-Rock outcrop complex, 6 to15 percent slopes	PHEL	4	0.37	56	10.0	80	1.20
1070B	Plainbo-Rock outcrop complex, 1 to6 percent slopes	NHEL	4	0.17	134	4.0	125	0.44
1070C	Plainbo-Rock outcrop complex, 6 to15 percent slopes	PHEL	4	0.17	134	10.0	125	1.60
1070E	Plainbo-Rock outcrop complex, 15 to35 percent slopes	HEL	4	0.17	134	20.0	125	4.50
1076	Bowstring and Fordum soils, frequently flooded	NHEL	4	0.28	0	1.0	80	0.12
1376	Moquah fine sandy loam	NHEL	5	0.24	86	1.0	80	0.12
1943	Roscommon loamy sand	NHEL	5	0.17	134	1.0	80	0.12

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1977A	Mora loam, 0 to2 percent slopes, very stony	NHEL	4	0.28	0	1.0	80	0.12
1977B	Mora loam, 2 to6 percent slopes, very stony	NHEL	4	0.28	0	4.0	80	0.37
1980	Ronneby loam, extremely stony	NHEL	4	0.24	0	1.0	80	0.12