

Highly erodible soil mapunit list - Washington County, MN

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C=0.09 R=140

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Mapunit

Symbol	Mapunit Name	HELC	T	K	I	slope %	slope I	LS
2B	Ostrander silt loam, 2 to 6 percent slopes	NHEL	5	0.28	48	4.00	200	0.53
2C	Ostrander silt loam, 6 to 12 percent slopes	PHEL	5	0.28	48	9.00	180	1.60
2	Ostrander silt loam, 0 to 2 percent slopes	NHEL	5	0.28	48	1.00	225	0.16
7B	Hubbard loamy sand, 1 to 6 percent slopes	NHEL	5	0.15	134	3.00	130	0.31
7C	Hubbard loamy sand, 6 to 12 percent slopes	NHEL	5	0.15	134	9.00	125	1.20
7D	Hubbard loamy sand, 12 to 18 percent slopes	PHEL	5	0.15	134	15.00	120	2.80
8	Sparta loamy sand, 0 to 2 percent slopes	NHEL	5	0.17	134	1.00	130	0.14
8B	Sparta loamy sand, 2 to 6 percent slopes	NHEL	5	0.17	134	3.00	125	0.30
8C	Sparta loamy sand, 6 to 15 percent slopes	NHEL	5	0.17	134	9.00	120	1.20
12C	Emmert gravelly loamy coarse sand, 3 to 12 percent slopes	NHEL	2	0.10	0	6.00	120	0.74
12D	Emmert gravelly loamy coarse sand, 15 to 25 percent slopes	HEL	2	0.10	0	18.00	110	3.50
49	Antigo silt loam, 0 to 2 percent slopes	NHEL	4	0.32	56	1.00	150	0.15
49B	Antigo silt loam, 2 to 6 percent slopes	NHEL	4	0.32	56	3.00	130	0.31
49C	Antigo silt loam, 6 to 15 percent slopes	PHEL	4	0.32	56	9.00	125	1.30
49D	Antigo silt loam, 15 to 35 percent slopes	HEL	4	0.32	56	15.00	120	2.80
75	Bluffton loam	NHEL	5	0.28	56	0.50	150	0.11
100B	Copaston loam, 0 to 6 percent slopes	NHEL	2	0.28	56	3.00	110	0.30
100C	Copaston loam, 6 to 12 percent slopes	HEL	2	0.28	56	9.00	100	1.20
113	Webster loam	NHEL	5	0.24	48	1.00	100	0.13
120	Brill silt loam	NHEL	4	0.37	56	1.00	100	0.13
123	Dundas fine sandy loam	NHEL	5	0.20	86	1.00	100	0.13
132B	Hayden fine sandy loam, 2 to 6 percent slopes	NHEL	5	0.24	86	3.00	110	0.31
132C	Hayden fine sandy loam, 6 to 12 percent slopes	PHEL	5	0.24	86	9.00	110	1.20
132D	Hayden fine sandy loam, 12 to 25 percent slopes	HEL	5	0.24	86	16.00	100	3.00
151	Burkhardt sandy loam, 0 to 3 percent slopes	NHEL	3	0.20	86	1.00	175	0.15
151B	Burkhardt sandy loam, 3 to 9 percent slopes	NHEL	3	0.20	86	4.00	130	0.44
153B	Santiago silt loam, 2 to 6 percent slopes	NHEL	5	0.32	56	3.00	124	0.30
153C	Santiago silt loam, 6 to 15 percent slopes	PHEL	5	0.32	56	9.00	120	1.20
155B	Chetek sandy loam, 0 to 6 percent slopes	NHEL	3	0.24	86	3.00	120	0.31
155C	Chetek sandy loam, 6 to 12 percent slopes	PHEL	3	0.24	86	9.00	120	1.20
155D	Chetek sandy loam, 12 to 25 percent slopes	HEL	3	0.24	86	16.00	110	3.00
158B	Zimmerman fine sand, 1 to 6 percent slopes	NHEL	5	0.17	134	3.00	120	0.30

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158C	Zimmerman fine sand, 6 to 12 percent slopes	NHEL	5	0.17	134	9.00	110	1.20
158D	Zimmerman loamy fine sand, 12 to 25 percent slopes	HEL	5	0.17	134	16.00	110	3.00
159	Anoka loamy fine sand, 0 to 3 percent slopes	NHEL	5	0.17	134	2.00	110	0.21
159B	Anoka loamy fine sand, 3 to 9 percent slopes	NHEL	5	0.17	134	5.00	100	0.54
161	Isanti loamy fine sand, depressional	NHEL	5	0.17	134	0.50	150	0.11
162	Lino loamy fine sand	NHEL	5	0.17	134	1.00	100	0.13
166	Ronneby fine sandy loam	NHEL	4	0.24	86	1.00	100	0.13
169B	Braham loamy fine sand, 1 to 6 percent slopes	NHEL	5	0.17	134	3.00	120	0.30
169C	Braham loamy fine sand, 6 to 15 percent slopes	PHEL	5	0.17	134	9.00	110	1.20
170	Blomford loamy fine sand	NHEL	5	0.17	134	1.00	100	0.13
174C	Gale silt loam, 6 to 15 percent slopes	HEL	4	0.37	56	9.00	125	1.30
174F	Gale silt loam, 25 to 50 percent slopes	HEL	4	0.37	56	30.00	120	9.00
177B	Gotham loamy sand, 1 to 6 percent slopes	NHEL	5	0.17	134	3.00	120	0.30
177C	Gotham loamy sand, 6 to 12 percent slopes	NHEL	5	0.17	134	9.00	110	1.20
177D	Gotham loamy sand, 12 to 20 percent slopes	HEL	5	0.17	134	15.00	100	2.40
189	Auburndale silt loam, 0 to 2 percent slopes	NHEL	5	0.37	56	1.00	100	0.13
225	Nessel fine sandy loam, 1 to 4 percent slopes	NHEL	5	0.24	86	2.00	120	0.21
259B	Grays silt loam, 2 to 6 percent slopes	NHEL	5	0.32	48	3.00	120	0.30
264	Freeon silt loam, 2 to 6 percent slopes	NHEL	4	0.37	56	2.00	130	0.22
265	Soderville loamy fine sand	NHEL	5	0.17	134	1.00	100	0.13
266	Freer silt loam	NHEL	4	0.37	56	1.00	100	0.13
298	Richwood silt loam, 0 to 2 percent slopes	NHEL	5	0.28	56	1.00	100	0.13
298B	Richwood silt loam, 2 to 6 percent slopes	NHEL	5	0.28	56	3.00	125	0.30
301B	Lindstrom silt loam, 2 to 4 percent slopes	NHEL	5	0.28	56	3.00	120	0.30
302B	Rosholt sandy loam, 2 to 6 percent slopes	NHEL	4	0.24	86	3.00	120	0.30
302C	Rosholt sandy loam, 6 to 15 percent slopes	PHEL	4	0.24	86	9.00	110	1.20
325	Prebish loam	NHEL	5	0.28	48	0.50	150	0.11
327	Dickman sandy loam, 0 to 2 percent slopes	NHEL	3	0.20	86	1.00	130	0.14
327B	Dickman sandy loam, 2 to 6 percent slopes	NHEL	3	0.20	86	3.00	120	0.30
327C	Dickman sandy loam, 6 to 12 percent slopes	PHEL	3	0.20	86	9.00	110	1.20
329	Chaska silt loam	NHEL	5	0.28	86	1.00	100	0.13
340B	Whalan silt loam, 1 to 6 percent slopes	NHEL	4	0.32	48	4.00	125	0.43

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340C	Whalan silt loam, 6 to 12 percent slopes	PHEL	4	0.32	48	9.00	120	1.30
342B	Kingsley sandy loam, 2 to 6 percent slopes	NHEL	5	0.20	86	4.00	110	0.42
342C	Kingsley sandy loam, 6 to 12 percent slopes	NHEL	5	0.20	86	9.00	100	1.20
342D	Kingsley sandy loam, 12 to 18 percent slopes	HEL	5	0.20	86	15.00	100	2.40
342E	Kingsley sandy loam, 18 to 30 percent slopes	HEL	5	0.20	86	21.00	90	3.80
367B	Campia silt loam, 0 to 8 percent slopes	NHEL	5	0.37	56	4.00	130	0.44
408	Faxon silt loam	NHEL	4	0.28	48	1.00	100	0.13
411	Waukegan silt loam, 0 to 2 percent slopes	NHEL	4	0.32	48	1.00	124	0.14
411B	Waukegan silt loam, 2 to 6 percent slopes	NHEL	4	0.32	48	3.00	120	0.30
411C	Waukegan silt loam, 6 to 12 percent slopes	PHEL	4	0.32	48	9.00	110	1.20
449	Crystal Lake silt loam, 1 to 3 percent slopes	NHEL	5	0.37	56	2.00	140	0.22
452	Comstock silt loam	NHEL	5	0.37	48	1.00	100	0.13
453B	DeMontreville loamy fine sand, 2 to 6 percent slopes	NHEL	5	0.17	134	3.00	110	0.30
453C	DeMontreville loamy fine sand, 6 to 12 percent slopes	NHEL	5	0.17	134	9.00	100	1.20
453D	DeMontreville loamy fine sand, 12 to 25 percent slopes	HEL	5	0.17	134	15.00	100	2.40
454B	Mahtomedi loamy sand, 0 to 6 percent slopes	NHEL	5	0.15	134	4.00	110	0.42
454C	Mahtomedi loamy sand, 6 to 12 percent slopes	NHEL	5	0.15	134	9.00	110	1.20
454D	Mahtomedi loamy sand, 12 to 25 percent slopes	PHEL	5	0.15	134	18.00	100	3.50
454F	Mahtomedi loamy sand, 25 to 40 percent slopes	HEL	5	0.15	134	30.00	90	7.50
456	Barronett silt loam	NHEL	5	0.28	56	1.00	100	0.13
460B	Baytown silt loam, 1 to 6 percent slopes	NHEL	4	0.32	48	3.00	130	0.31
460C	Baytown silt loam, 6 to 12 percent slopes	PHEL	4	0.32	48	9.00	120	1.30
468	Otter silt loam	NHEL	5	0.28	48	1.00	100	0.13
472B	Channahon silt loam, 1 to 6 percent slopes	NHEL	2	0.37	48	3.00	100	0.30
472C	Channahon silt loam, 6 to 12 percent slopes	HEL	2	0.37	48	9.00	100	1.20
472D	Channahon silt loam, 12 to 18 percent slopes	HEL	2	0.37	48	15.00	90	2.70
481	Kratka fine sandy loam	NHEL	5	0.20	86	1.00	150	0.15
488F	Brodale flaggy loam, 20 to 50 percent slopes	HEL	5	0.17	0	30.00	120	9.00
504B	Duluth silt loam, 1 to 6 percent slopes	NHEL	5	0.37	56	4.00	120	0.43
504C	Duluth silt loam, 6 to 12 percent slopes	PHEL	5	0.37	56	9.00	110	1.20
504D	Duluth silt loam, 12 to 25 percent slopes	HEL	5	0.37	56	18.00	100	3.50
507	Poskin silt loam	NHEL	4	0.37	56	1.00	100	0.13

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529	Ripon silt loam, 1 to 2 percent slopes	NHEL	4	0.28	56	1.00	120	0.14
529B	Ripon silt loam, 2 to 6 percent slopes	NHEL	4	0.28	56	3.00	110	0.30
529C	Ripon silt loam, 6 to 12 percent slopes	PHEL	4	0.28	56	9.00	100	1.20
540	Seelyeville muck	NHEL	5		134	0.50	200	0.12
541	Rifle muck	NHEL	5		134	0.50	200	0.12
543	Markey muck	NHEL	4		134	0.50	200	0.12
544	Cathro muck	NHEL	5		134	0.50	200	0.12
852B	Urban land-Copaston complex, 0 to 8 percent slopes	NHEL	2	0.28	56	3.00	110	0.30
857	Urban land-Waukegan complex, 0 to 3 percent slopes	NHEL	4	0.32	48	1.00	100	0.13
857C	Urban land-Waukegan complex, 3 to 15 percent slopes	NHEL	4	0.32	48	6.00	100	0.67
858	Urban land-Chetek complex, 0 to 3 percent slopes	NHEL	3	0.24	86	2.00	100	0.20
858C	Urban land-Chetek complex, 3 to 15 percent slopes	NHEL	3	0.24	86	6.00	100	0.67
859B	Urban land-Zimmerman complex, 1 to 8 percent slopes	NHEL	5	0.17	134	4.00	110	0.42
860C	Urban land-Hayden-Kingsley complex, 3 to 15 percent slopes	NHEL	5	0.24	86	7.00	100	0.85
860D	Urban land-Hayden-Kingsley complex, 15 to 25 percent slopes	HEL	5	0.24	86	18.00	100	3.50
861C	Urban land-Kingsley complex, 3 to 15 percent slopes	NHEL	5	0.20	86	6.00	110	0.71
861D	Urban land-Kingsley complex, 15 to 25 percent slopes	HEL	5	0.20	86	18.00	90	3.20
862	Urban land-Dundas complex, 1 to 4 percent slopes	NHEL	5	0.20	86	2.00	125	0.21
863	Urban land-Lino complex, 0 to 3 percent slopes	NHEL	5	0.17	134	2.00	90	0.20
896C	Mahtomedi-Kingsley complex, 3 to 12 percent slopes	NHEL	5	0.20	86	6.00	110	0.71
896D	Mahtomedi-Kingsley complex, 12 to 25 percent slopes	HEL	5	0.20	86	18.00	90	3.20
896F	Mahtomedi-Kingsley complex, 25 to 40 percent slopes	HEL	5	0.20	86	30.00	90	7.50
1013	Pits,quarry							
1027	Udorthents, wet substratum							
1029	Pits, gravel							
1033	Udifluvents	NHEL	5	0.02	0	1.00	200	0.16
1039	Urban land							
1040	Udorthents							
1055	Aquolls and histosols, ponded	NHEL	5	0.02	0	1.00	200	0.16
1813B	Lino variant loamy fine sand, 2 to 6 percent slopes	NHEL	5	0.17	134	3.00	90	0.29
1819F	Dorerton-Rock outcrop complex, 25 to 65 percent slopes	HEL	3	0.24	86	35.00	75	9.00
1820F	Mahtomedi variant-Rock outcrop complex, 25 to 60 percent slopes	HEL	5	0.20	86	35.00	75	9.00

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1821	Alganssee loamy sand	NHEL	5	0.17	134	1.00	100	0.13
1827B	Waukegan variant silt loam, 2 to 9 percent slopes	NHEL	4	0.32	48	5.00	110	0.56
1827	Waukegan variant silt loam, 0 to 2 percent slopes	NHEL	4	0.32	48	1.00	120	0.14
1847	Barronett silt loam, sandy substratum	NHEL	5	0.28	56	1.00	175	0.15
1848B	Sparta loamy sand, bedrock substratum, 0 to 6 percent slopes	NHEL	5	0.17	134	3.00	125	0.30
M-W	Water, miscellaneous							
W	Water							