

HIGHLY ERODIBLE SOIL MAP UNIT LIST-BENTON COUNTY, MN

C =.10

R = 120

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areasym	musym	muname	HELC	T	K	I	slope_%	slope_I	LS
MN009	1002A	Udorthents, wet substratum, 0 to 2 percent slopes	NHEL						
MN009	1010	Pits, quarry	NHEL						
MN009	1011A	Fordum-Winterfield complex, 0 to 2 percent slopes, frequently flooded	NHEL						
MN009	1013A	Seelyeville and Cathro soils, ponded, 0 to 1 percent slopes	NHEL						
MN009	1020A	Bowstring and Fluvaquents, loamy, 0 to 2 percent slopes, frequently flooded	NHEL						
MN009	1023A	Seelyeville and Markey soils, ponded, 0 to 1 percent slopes	NHEL						
MN009	1025A	Fluvaquents and Udifluvents, loamy, 0 to 2 percent slopes, frequently flooded	NHEL						
MN009	1052B	Udorthents, loamy-Rock outcrop complex, 1 to 6 percent slopes	NHEL						
MN009	C2A	Adolph mucky silty clay loam, depressionnal, 0 to 1 percent slopes, stony	NHEL						
MN009	C4A	Cebana silt loam, 0 to 1 percent slopes, stony	NHEL						
MN009	C5C	Milaca fine sandy loam, 8 to 15 percent slopes, stony	PHEL	4	0.28	86	9	125	1.3
MN009	C5E	Milaca fine sandy loam, 15 to 30 percent slopes, stony	HEL	4	0.28	86	16	120	3
MN009	C8A	Brennyville, wet-Cebana complex, 0 to 3 percent slopes, stony	NHEL						
MN009	C10B	Brennyville complex, 1 to 6 percent slopes, stony	NHEL						
MN009	C14A	Cathro, Twig, and Adolph soils, ponded, 0 to 1 percent slopes	NHEL						
MN009	C23B	Antigo-Chetek complex, 2 to 8 percent slopes	NHEL						
MN009	C26A	Foglake silt loam, 0 to 2 percent slopes	NHEL						
MN009	C28A	Cathro and Twig soils, depressionnal, 0 to 1 percent slopes	NHEL						
MN009	C36A	Nokasippi loamy fine sand, depressionnal, 0 to 1 percent slopes	NHEL						
MN009	C37C	Braham loamy fine sand, 6 to 12 percent slopes	NHEL						
MN009	C38B	Grasston fine sandy loam, terrace, 2 to 6 percent slopes	NHEL						
MN009	C39A	Foglake fine sandy loam, terrace, 0 to 2 percent slopes	NHEL						
MN009	C42B	Sartell, till substratum-Bushville complex, 1 to 6 percent slopes	NHEL						
MN009	C46A	Foglake loam, terrace, 0 to 2 percent slopes	NHEL						
MN009	C48A	Ronneby loam, 0 to 2 percent slopes, stony	NHEL						
MN009	C49A	Antigo silt loam, 0 to 2 percent slopes	NHEL						
MN009	C51D	Emmert-St. francis complex, 6 to 25 percent slopes	PHEL	2	0.1	0	12	75	1.6
MN009	C52B	Waukon fine sandy loam, dense substratum, 2 to 6 percent slopes	NHEL						
MN009	C53C	Pomroy loamy fine sand, 6 to 12 percent slopes	NHEL						
MN009	C54B	Chetek-Mahtomedi complex, 2 to 6 percent slopes	NHEL						
MN009	C54C	Chetek-Mahtomedi complex, 6 to 12 percent slopes	NHEL						
MN009	C55A	Watab loamy fine sand, 0 to 2 percent slopes	NHEL						
MN009	C56A	Langola loamy fine sand, 0 to 2 percent slopes	NHEL						
MN009	C57A	Warman loam, depressionnal, 0 to 1 percent slopes	NHEL						

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areasym	musym	muname	HELC	T	K	I	slope_%	slope_I	LS
MN009	C58A	Ogilvie loam, 0 to 2 percent slopes	NHEL						
MN009	C59A	Pierz sandy loam, 0 to 2 percent slopes	NHEL						
MN009	C60A	Bushville fine sand, 0 to 2 percent slopes	NHEL						
MN009	C62C	Sartell fine sand, till substratum, 6 to 12 percent slopes	NHEL						
MN009	C63B	Kost, till substratum-Langola complex, 1 to 6 percent slopes	NHEL						
MN009	C64A	Mora fine sandy loam, 1 to 3 percent slopes, stony	NHEL						
MN009	C64B	Mora fine sandy loam, 3 to 5 percent slopes, stony	NHEL						
MN009	C65A	Parent loam, 0 to 2 percent slopes, stony	NHEL						
MN009	C66A	St. francis fine sandy loam, 0 to 2 percent slopes	NHEL						
MN009	C67B	Bushville complex, 1 to 6 percent slopes	NHEL						
MN009	C68B	Milaca fine sandy loam, 3 to 6 percent slopes, stony	NHEL						
MN009	C68C	Milaca fine sandy loam, 6 to 12 percent slopes, stony	PHEL	4	0.28	86	9	125	1.3
MN009	C68E	Milaca fine sandy loam, 12 to 25 percent slopes, stony	HEL	4	0.28	86	16	120	3
MN009	C69B	Milaca, stony-St. francis complex, 3 to 8 percent slopes	NHEL						
MN009	C69C	Milaca, stony-St. francis complex, 8 to 15 percent slopes	PHEL	4	0.28	86	9	125	1.3
MN009	C70B	St. francis-Mahtomedi complex, 2 to 6 percent slopes	NHEL						
MN009	C70C	St. francis-Mahtomedi complex, 6 to 12 percent slopes	NHEL						
MN009	C71A	Blomford loamy fine sand, 0 to 2 percent slopes	NHEL						
MN009	C72B	Langola complex, 1 to 6 percent slopes	NHEL						
MN009	C73A	Mora loam, 1 to 3 percent slopes, stony	NHEL						
MN009	C74A	Parent loam, depressional, 0 to 1 percent slopes, stony	NHEL						
MN009	C75A	Seelyeville and Cathro soils, milaca catena, depressional, 0 to 1 percent slopes	NHEL						
MN009	C77A	Novak loam, 0 to 2 percent slopes	NHEL						
MN009	C77B	Novak loam, 2 to 6 percent slopes	NHEL						
MN009	C78A	Warman loam, 0 to 2 percent slopes	NHEL						
MN009	C79A	Mora loam, 1 to 3 percent slopes, very stony	NHEL						
MN009	C80A	Parent loam, depressional, 0 to 1 percent slopes, very stony	NHEL						
MN009	C82A	Ronneby loam, 0 to 2 percent slopes, very stony	NHEL						
MN009	C83A	Parent loam, 0 to 2 percent slopes, very stony	NHEL						
MN009	C84B	Brennyville complex, 1 to 6 percent slopes, very stony	NHEL						
MN009	C89A	Cathro and Seelyeville soils, grasston catena, depressional, 0 to 1 percent slopes	NHEL						
MN009	C89A	Cathro and Seelyeville soils, grasston catena, depressional, 0 to 1 percent slopes	NHEL						
MN009	C90A	Brennyville-Cebana complex, 0 to 3 percent slopes, very stony	NHEL						
MN009	C91B	Milaca, stony-Chetek complex, 3 to 8 percent slopes	NHEL						

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areasym	musym	muname	HELC	T	K	I	slope_%	slope_I	LS
MN009	C91C	Milaca, stony-Chetek complex, 8 to 15 percent slopes	PHEL	4	0.28	86	9	125	1.3
MN009	C122D	Emmert-Chetek complex, 8 to 25 percent slopes	PHEL	2	0.1	0	12	75	1.6
MN009	C125A	Hulligan loam, depressional, 0 to 1 percent slopes	NHEL						
MN009	C126B	Balmlake-Rosy complex, 1 to 6 percent slopes	NHEL						
MN009	C128A	Talmoon loam, 0 to 2 percent slopes	NHEL						
MN009	C129A	Longsiding fine sandy loam, terrace, 0 to 2 percent slopes	NHEL						
MN009	D1B	Anoka and Zimmerman soils, terrace, 2 to 6 percent slopes	NHEL						
MN009	D1C	Anoka and Zimmerman soils, terrace, 6 to 12 percent slopes	NHEL						
MN009	D2A	Elkriver fine sandy loam, 0 to 2 percent slopes, rarely flooded	NHEL						
MN009	D3A	Elkriver fine sandy loam, 0 to 2 percent slopes, occasionally flooded	NHEL						
MN009	D6A	Verndale sandy loam, acid substratum, 0 to 2 percent slopes	NHEL						
MN009	D7A	Hubbard loamy sand, 0 to 2 percent slopes	NHEL						
MN009	D7B	Hubbard loamy sand, 2 to 6 percent slopes	NHEL						
MN009	D7C	Hubbard loamy sand, 6 to 12 percent slopes	NHEL						
MN009	D7E	Hubbard loamy sand, 18 to 35 percent slopes	HEL	5	0.15	134	25	100	6
MN009	D8E	Sandberg loamy coarse sand, 18 to 35 percent slopes	HEL	5	0.1	134	25	100	6
MN009	D9B	Stonelake-Sanburn complex, 1 to 6 percent slopes	NHEL						
MN009	D9C	Stonelake-Sanburn complex, 6 to 15 percent slopes	NHEL						
MN009	D9E	Stonelake-Sanburn complex, 15 to 40 percent slopes	HEL	4	0.2	86	25	100	6
MN009	D14B	Elkriver-Mosford complex, 0 to 6 percent slopes, rarely flooded	NHEL						
MN009	D17A	Duelm loamy sand, 0 to 2 percent slopes	NHEL						
MN009	D20A	Isan sandy loam, 0 to 2 percent slopes	NHEL						
MN009	D21A	Isan sandy loam, depressional, 0 to 1 percent slopes	NHEL						
MN009	D22A	Hubbard-Mosford complex, 0 to 3 percent slopes	NHEL						
MN009	D30A	Seelyeville and Markey soils, depressional, 0 to 1 percent slopes	NHEL						
MN009	D32A	Mosford sandy loam, 0 to 2 percent slopes	NHEL						
MN009	D36B	Eagleview loamy sand, 2 to 6 percent slopes	NHEL						
MN009	D36C	Eagleview loamy sand, 6 to 12 percent slopes	NHEL						
MN009	D38A	Cantlin loamy fine sand, 0 to 3 percent slopes	NHEL						
MN009	D39A	Fordum loam, 0 to 2 percent slopes, occasionally flooded	NHEL						
MN009	D44A	Isanti loamy fine sand, 0 to 2 percent slopes	NHEL						
MN009	D46A	Lino loamy fine sand, 0 to 2 percent slopes	NHEL						
MN009	D47A	Kost loamy fine sand, 0 to 2 percent slopes	NHEL						
MN009	D47B	Kost loamy fine sand, 2 to 6 percent slopes	NHEL						

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<u>areasym</u>	<u>musym</u>	<u>muname</u>	<u>HELC</u>	<u>T</u>	<u>K</u>	<u>I</u>	<u>slope_%</u>	<u>slope_I</u>	<u>LS</u>
MN009	D47C	Kost loamy fine sand, 6 to 12 percent slopes	NHEL						
MN009	D48A	Cantlin loamy fine sand, thick surface, 0 to 2 percent slopes	NHEL						
MN009	D50A	Isanti fine sandy loam, depressional, 0 to 1 percent slopes	NHEL						
MN009	D51A	Kost loamy fine sand, banded substratum, 0 to 2 percent slopes	NHEL						
MN009	D51B	Kost loamy fine sand, banded substratum, 2 to 6 percent slopes	NHEL						
MN009	D51C	Kost loamy fine sand, banded substratum, 6 to 12 percent slopes	NHEL						
MN009	D52A	Glendorado loamy fine sand, 0 to 2 percent slopes	NHEL						
MN009	D54B	Hubbard, bedrock substratum-Rock outcrop complex, 1 to 8 percent slopes	NHEL						
MN009	D55B	Zimmerman fine sand, banded substratum, 1 to 6 percent slopes	NHEL						
MN009	D55C	Zimmerman fine sand, banded substratum, 6 to 12 percent slopes	NHEL						
MN009	D55E	Zimmerman fine sand, banded substratum, 12 to 35 percent slopes	PHEL	5	0.15	220	20	100	4
MN009	D56A	Lino loamy fine sand, stratified substratum, 0 to 2 percent slopes	NHEL						
MN009	D61A	Glendorado loamy sand, 0 to 2 percent slopes	NHEL						
MN009	D64A	Zimmerman fine sand, 0 to 3 percent slopes	NHEL						
MN009	D64B	Zimmerman fine sand, 3 to 6 percent slopes	NHEL						
MN009	D64C	Zimmerman fine sand, 6 to 12 percent slopes	NHEL						
MN009	D64E	Zimmerman fine sand, 12 to 30 percent slopes	PHEL	5	0.15	220	20	100	4

If other values are needed, please call the Area Resource Soil Scientist. Thank you.

HELC for wind erosion is based on the C x I divided by T is equal to or greater than 8

HELC for water erosion is based on the R x K x LS divided by T is equal to or greater than 8