

HIGHLY ERODIBLE SOIL MAP UNIT LIST
 ISANTI COUNTY
 C = .10 R = 130

RECORD NUMBER	MAP UNIT SYMBOL	MAP UNIT NAME	T	K	I	TYPICAL SLOPE PERCENT	TYPICAL SLOPE LENGTH	LS	HELIC
WI8027	A	ALLUVIAL LAND, WELL DRAINED	5	0.15	134	1.0	-	-	NHEL
MN8001	AW	ALLUVIAL LAND, POORLY DRAINED	5	0.28	56	1.0	-	-	NHEL
MN0188	AD	ADOLPH SILTY CLAY LOAM	4	0.28	38	0.2	80	0.08	NHEL
WI0218	YS	AMES FINE SANDY LOAM	5	0.24	86	1.0	80	0.12	NHEL
WI0218	Y	AMES SILT LOAM	5	0.32	56	1.0	80	0.12	NHEL
MN0215	G	ANOKA LOAMY FINE SAND, 0 TO 2 PERCENT SLOPES	5	0.17	134	1.0	80	0.12	NHEL
MN0215	GU	ANOKA LOAMY FINE SAND, 2 TO 7 PERCENT SLOPES	5	0.17	134	4.0	80	0.37	NHEL
MN0215	GP	ANOKA LOAMY FINE SAND, 7 TO 12 PERCENT SLOPES	5	0.17	134	10.0	80	1.20	NHEL
MN0215	GY	ANOKA LOAMY FINE SAND, 7 TO 18 PERCENT SLOPES, MODERATELY ERODED	5	0.17	134	12.0	80	1.60	PHEL**
MN0239	N	BLOMFORD LOAMY FINE SAND	5	0.17	134	0.2	80	0.08	NHEL
MN0184	BC	BLUFFTON LOAM AND SILTY CLAY LOAM	5	0.28	56	0.2	80	0.08	NHEL
MN0234	NU	BRAHAM LOAMY FINE SAND, 2 TO 7 PERCENT SLOPES	5	0.17	134	4.0	80	0.37	NHEL
MN0234	NP	BRAHAM LOAMY FINE SAND, 7 TO 12 PERCENT SLOPES	5	0.17	134	9.0	80	1.05	NHEL
MN0234	ND	BRAHAM LOAMY FINE SAND, 7 TO 12 PERCENT SLOPES, MODERATELY ERODED	5	0.17	134	9.0	80	1.05	NHEL
MN0234	NX	BRAHAM LOAMY FINE SAND, 12 TO 18 PERCENT SLOPES, MODERATELY ERODED	5	0.17	134	14.0	80	2.00	PHEL*
MN0135	BK	BRICKTON SILT LOAM	5	0.37	56	1.0	100	0.12	NHEL
MN0258	BV	BRICKTON SILT LOAM, CLAYEY SUBSOIL VARIANT	5	0.43	48	1.0	100	0.12	NHEL
WI0198	V	BURNSVILLE-RODMAN COMPLEX, 2 TO 7 PERCENT SLOPES ***	5	0.24	86	5.0	80	0.48	NHEL
WI0198	VD	BURNSVILLE-RODMAN COMPLEX, 7 TO 12 PERCENT SLOPES, MODERATELY ERODED***	5	0.24	86	9.0	80	1.05	PHEL**
WI0198	VX	BURNSVILLE-RODMAN COMPLEX, 12 TO 18 PERCENT SLOPES, MODERATELY ERODED***	5	0.24	86	16.0	80	2.60	HEL
MN0246	C	CHETEK LOAMY SAND, 2 TO 7 PERCENT SLOPES	5	0.15	134	4.0	80	0.37	NHEL
MN0246	CP	CHETEK LOAMY SAND, 7 TO 12 PERCENT SLOPES	5	0.15	134	10.0	80	1.20	NHEL
MN0246	CD	CHETEK LOAMY SAND, 7 TO 12 PERCENT SLOPES, MODERATELY ERODED	5	0.15	134	10.0	80	1.20	NHEL
MN0246	CX	CHETEK LOAMY SAND, 12 TO 18 PERCENT SLOPES, MODERATELY ERODED	5	0.15	134	16.0	80	2.60	PHEL*
MN0341	CW	CROWN LOAMY SAND	3	0.15	134	1.0	80	0.12	NHEL
MN0498	D	DALBO SILT LOAM, 2 TO 7 PERCENT SLOPES	5	0.32	56	4.0	100	0.40	NHEL
MN0498	DF	DALBO FINE SANDY LOAM, 2 TO 12 PERCENT SLOPES	5	0.24	86	6.0	100	0.67	PHEL*
MN0498	DP	DALBO SILT LOAM, 7 TO 12 PERCENT SLOPES	5	0.32	56	10.0	100	1.40	PHEL*
MN0498	DX	DALBO SILT LOAM, 12 TO 18 PERCENT SLOPES, MODERATELY ERODED	5	0.32	56	16.0	100	2.80	HEL
MN0246	E	EMMERT LOAMY FINE SAND, 12 TO 25 PERCENT SLOPES	5	0.15	134	18.0	80	3.00	PHEL*
MN0246	EH	EMMERT LOAMY FINE SAND, 12 TO 25 PERCENT SLOPES, MODERATELY ERODED	5	0.15	134	18.0	80	3.00	PHEL*
MN0246	ES	EMMERT LOAMY FINE SAND, 18 TO 25 PERCENT SLOPES, SEVERELY ERODED	5	0.15	134	20.0	80	3.50	HEL
MN0178	F	FREER SILT LOAM	4	0.37	56	1.0	80	0.12	NHEL
WI0143	X	GREENBUSH SILT LOAM, 0 TO 2 PERCENT SLOPES	4	0.37	56	1.0	80	0.12	NHEL
MN0602	XU	GREENBUSH SILT LOAM, 2 TO 7 PERCENT SLOPES	4	0.37	56	4.0	80	0.37	PHEL**
WI0198	T	HAYDEN FINE SANDY LOAM, 2 TO 7 PERCENT SLOPES	5	0.24	86	4.0	80	0.37	NHEL
WI0198	TU	HAYDEN FINE SANDY LOAM, 2 TO 7 PERCENT SLOPES, MODERATELY ERODED	5	0.24	86	4.0	80	0.37	NHEL
WI0198	TP	HAYDEN FINE SANDY LOAM, 7 TO 12 PERCENT SLOPES	5	0.24	86	10.0	80	1.20	PHEL**
WI0198	TD	HAYDEN FINE SANDY LOAM, 7 TO 12 PERCENT SLOPES, MODERATELY ERODED	5	0.24	86	10.0	80	1.20	PHEL**
WI0198	TR	HAYDEN FINE SANDY LOAM, 12 TO 18 PERCENT SLOPES	5	0.24	86	16.0	80	2.60	HEL
WI0198	TX	HAYDEN FINE SANDY LOAM, 12 TO 18 PERCENT SLOPES, MODERATELY ERODED	5	0.24	86	16.0	80	2.60	HEL
WI0005	B	HAYDEN SILT LOAM, 2 TO 7 PERCENT SLOPES	5	0.32	56	4.0	80	0.37	NHEL
WI0005	BU	HAYDEN SILT LOAM, 2 TO 7 PERCENT SLOPES, MODERATELY ERODED	5	0.32	56	4.0	80	0.37	NHEL
WI0198	BP	HAYDEN SILT LOAM, 7 TO 12 PERCENT SLOPES	5	0.32	56	10.0	80	1.25	PHEL*
WI0198	BD	HAYDEN SILT LOAM, 7 TO 12 PERCENT SLOPES, MODERATELY ERODED	5	0.32	56	10.0	80	1.25	PHEL*
WI0198	BR	HAYDEN SILT LOAM, 12 TO 18 PERCENT SLOPES	5	0.32	56	16.0	80	2.60	HEL

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WI0198	BX	HAYDEN SILT LOAM, 12 TO 18 PERCENT SLOPES, MODERATELY ERODED	5	0.32	56	16.0	80	2.60	HEL
MN0162	H	HUBBARD LOAMY FINE SAND, 0 TO 2 PERCENT SLOPES	5	0.15	134	1.0	80	0.12	NHEL
MN0162	HU	HUBBARD LOAMY FINE SAND, 2 TO 7 PERCENT SLOPES	5	0.15	134	4.0	80	0.37	NHEL
MN0162	HP	HUBBARD LOAMY FINE SAND, 7 TO 12 PERCENT SLOPES	5	0.15	134	10.0	80	1.25	NHEL
MN0196	IS	ISANTI MUCKY LOAMY FINE SAND	5	0.17	134	0.2	80	0.08	NHEL
MN0602	K	KANABEC VERY FINE SANDY LOAM, 2 TO 7 PERCENT SLOPES	4	0.37	56	4.0	80	0.40	PHEL**
MN0602	KP	KANABEC VERY FINE SANDY LOAM, 7 TO 12 PERCENT SLOPES	4	0.37	56	10.0	80	1.40	HEL
MN0251	L	LINO LOAMY FINE SAND	5	0.17	134	1.0	80	0.12	NHEL
MN0678	MF	MILACA FINE SANDY LOAM, 2 TO 7 PERCENT SLOPES	4	0.28	86	4.0	80	0.37	NHEL
MN0449	MN	MILACA FINE SANDY LOAM, 7 TO 12 PERCENT SLOPES	5	0.24	86	10.0	80	1.20	PHEL*
MN0449	MD	MILACA FINE SANDY LOAM, 7 TO 12 PERCENT SLOPES, MODERATELY ERODED	5	0.24	86	10.0	80	1.2	PHEL*
MN0449	MR	MILACA FINE SANDY LOAM, 12 TO 18 PERCENT SLOPES	5	0.24	86	16.0	80	2.6	HEL
MN0449	MS	MILACA FINE SANDY LOAM, 12 TO 25 PERCENT SLOPES, SEVERELY ERODED	5	0.24	86	20.0	80	3.5	HEL
MN0678	M	MILACA SILT LOAM, 2 TO 7 PERCENT SLOPES	4	0.37	56	4.0	80	0.37	PHEL**
MN0449	MP	MILACA SILT LOAM, 7 TO 12 PERCENT SLOPES	5	0.37	56	10.0	80	1.2	PHEL*
MN0449	MX	MILACA SILT LOAM, 12 TO 18 PERCENT SLOPES, MODERATELY ERODED	5	0.37	56	16.0	80	2.6	HEL
WI0226	ON	ONAMIA SILT LOAM, 2 TO 12 PERCENT SLOPES	4	0.32	56	6.0	80	0.6	PHEL**
MN0128	P	PEAT, DEEP	3	-	56	0.2	80	0.08	NHEL
MI0392	PC	PEAT, MODERATELY SHALLOW OVER LOAM	5	-	134	0.2	80	0.08	NHEL
MI0387	PS	PEAT, MODERATELY SHALLOW OVER SAND	4	-	134	0.2	8	0.08	NHEL
MN0252	ZL	ROUGH BROKEN LAND, ZIMMERMAN MATERIAL	5	0.17	220	40.0	80	14	HEL
MN0737	R	RUM RIVER LOAM	4	0.24	56	1.0	80	0.12	NHEL
WI0226	S	SCANDIA FINE SANDY LOAM, 2 TO 7 PERCENT SLOPES	4	0.24	86	4.0	80	0.37	NHEL
WI0226	SD	SCANDIA FINE SANDY LOAM, 7 TO 12 PERCENT SLOPES, MODERATELY ERODED	4	0.24	86	10.0	80	1.2	PHEL*
WI0226	SP	SCANDIA FINE SANDY LOAM, 7 TO 18 PERCENT SLOPES	4	0.24	86	12.0	80	1.6	PHEL*
WI0226	SS	SCANDIA FINE SANDY LOAM, 12 TO 25 PERCENT SLOPES, SEVERELY ERODED	4	0.24	86	20.0	80	3.5	HEL
MN0193	J	SCANDIA GRAVELLY SANDY LOAM, 2 TO 7 PERCENT SLOPES	5	0.17	86	4.0	80	0.48	NHEL
MN0193	JP	SCANDIA GRAVELLY SANDY LOAM, 7 TO 18 PERCENT SLOPES	5	0.17	0	12.0	80	1.6	PHEL*
MN0193	JD	SCANDIA GRAVELLY SANDY LOAM, 7 TO 18 PERCENT SLOPES, MODERATELY ERODED	5	0.17	0	12.0	80	1.6	PHEL*
MN0193	JS	SCANDIA GRAVELLY SANDY LOAM, 12 TO 25 PERCENT SLOPES, SEVERELY ERODED	5	0.17	0	20.0	80	3.5	HEL
MN0166	W	WARMAN SANDY LOAM AND LOAM	4	0.24	56	0.2	80	0.08	NHEL
MN0252	ZF	ZIMMERMAN FINE SAND, 0 TO 2 PERCENT SLOPES	5	0.17	220	1.0	80	0.12	NHEL
MN0252	ZG	ZIMMERMAN FINE SAND, 2 TO 7 PERCENT SLOPES	5	0.17	220	4.0	80	0.37	NHEL
MN0252	ZV	ZIMMERMAN FINE SAND, 2 TO 7 PERCENT SLOPES, MODERATELY ERODED	5	0.17	220	4.0	80	0.37	NHEL
MN0252	ZN	ZIMMERMAN FINE SAND, 7 TO 12 PERCENT SLOPES	5	0.17	220	10.0	80	1.2	NHEL
MN0252	ZD	ZIMMERMAN FINE SAND, 7 TO 12 PERCENT SLOPES, MODERATELY ERODED	5	0.17	220	10.0	80	1.2	NHEL
MN0252	ZS	ZIMMERMAN FINE SAND, 7 TO 12 PERCENT SLOPES, SEVERELY ERODED	5	0.17	220	10.0	80	1.2	NHEL
MN0252	ZH	ZIMMERMAN FINE SAND, 12 TO 18 PERCENT SLOPES	5	0.17	220	16.0	80	2.6	PHEL*
MN0252	Z	ZIMMERMAN LOAMY FINE SAND AND FINE SAND, 0 TO 2 PERCENT SLOPES	5	0.17	134	1.0	80	0.12	NHEL
MN0252	ZU	ZIMMERMAN LOAMY FINE SAND AND FINE SAND, 2 TO 7 PERCENT SLOPES	5	0.17	134	4.0	80	0.37	NHEL
MN0252	ZP	ZIMMERMAN LOAMY FINE SAND AND FINE SAND, 7 TO 12 PERCENT SLOPES	5	0.17	134	10.0	80	1.2	NHEL
MN0252	ZR	ZIMMERMAN LOAMY FINE SAND AND FINE SAND, 12 TO 18 PERCENT SLOPES	5	0.17	134	16.0	80	2.6	PHEL*

HIGHLY ERODIBLE LAND CLASSIFICATION

NHEL = NOT HIGHLY ERODIBLE LAND

PHEL = POTENTIALLY HIGHLY ERODIBLE LAND AND REQUIRES A FIELD VISIT TO DETERMINE A REPRESENTATIVE SLOPE PERCENT AND LENGTH FOR FSA PURPOSES.

HEL = HIGHLY ERODIBLE LAND

* THESE PHEL MAP UNITS ARE CONSIDERED HEL BASED ON TYPICAL SLOPE PERCENTAGE AND LENGTH FOR DETERMINATIONS MADE IN THE OFFICE.

** THESE PHEL MAP UNITS ARE CONSIDERED NHEL BASED ON TYPICAL SLOPE PERCENTAGES AND LENGTH FOR DETERMINATIONS MADE

IN THE OFFICE.

*** USE THE MOST LIMITING SOIL IN THE COMPLEX TO DETERMINE THE RATING. ONLY ONE RATING IS GIVEN FOR A COMPLEX.

HELC FOR WIND EROSION IS BASED ON THE $C \times I$ DIVIDED BY T IS EQUAL TO OR GREATER THAN 8.

HELC FOR WATER EROSION IS BASED ON THE $R \times K \times L_s$ DIVIDED BY T IS EQUAL TO OR GREATER THAN 8.
