

**HIGHLY ERODIBLE SOIL MAP UNIT LIST FOR NOBLES COUNTY, MN**  
**C =.20, R = 130**

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

musym	muname	HEL	T	K	I	slope %	slope_l	LS
1003B	Udorthents (cut and fill land), 0 to 6 percent slopes							
1007	Udorthents, shallow (sanitary landfill)							
1015A	Havelock clay loam, 0 to 2 percent slopes, frequently flooded	NHEL	5	0.28	86	1.0	200	0.16
1024A	Havelock clay loam, 0 to 2 percent slopes, occasionally flooded	NHEL	5	0.28	86	1.0	200	0.16
L5A	Delft, overwash-Delft complex, 1 to 4 percent slopes	NHEL	5	0.24	48	1.0	200	0.16
L6A	Biscay clay loam, 0 to 2 percent slopes	NHEL	4	0.28	38	1.0	200	0.16
L78A	Canisteo clay loam, 0 to 2 percent slopes	NHEL	5	0.24	86	1.0	200	0.16
L79B	Clarion loam, 2 to 6 percent slopes	NHEL	5	0.24	48	4.0	175	0.50
L83A	Webster clay loam, 0 to 2 percent slopes	NHEL	5	0.24	48	1.0	200	0.16
L85A	Nicollet clay loam, 1 to 3 percent slopes	NHEL	5	0.24	48	1.0	175	0.15
L88A	Lura silty clay, 0 to 1 percent slopes	NHEL	5	0.28	86	1.0	200	0.16
L96B	Estherville-Hawick complex, 2 to 6 percent slopes	NHEL	3	0.20	86	4.0	175	0.50
L97C	Hawick-Estherville complex, 6 to 12 percent slopes	PHEL	3	0.20	86	9.0	150	1.40
L98A	Crippin-Nicollet complex, 1 to 3 percent slopes	NHEL	5	0.24	48	1.0	175	0.15

L102C2	Clarion-Storden complex, 6 to 10 percent slopes, moderately eroded	PHEL	5	0.28	86	9.0	150	1.40
L102D2	Omsrud-Storden complex, 10 to 16 percent slopes, moderately eroded	HEL	5	0.28	86	15.0	100	2.50
L107A	Canisteo-Glencoe complex, 0 to 2 percent slopes	NHEL	5	0.24	86	1.0	200	0.16
L111A	Nicollet silty clay loam, 1 to 3 percent slopes	NHEL	5	0.24	48	1.0	175	0.15
L126A	Coland clay loam, 0 to 2 percent slopes, occasionally flooded	NHEL	5	0.28	38	1.0	200	0.16
L127A	Coland clay loam, channeled, 0 to 2 percent slopes, frequently flooded	NHEL	5	0.28	38	1.0	200	0.16
L129B	Terril loam, 2 to 6 percent slopes	NHEL	5	0.24	48	4.0	200	0.53
L130A	Okoboji mucky silty clay loam, depressional, 0 to 1 percent slopes	NHEL	5	0.28	38	1.0	200	0.16
L133A	Waldorf silty clay loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1.0	200	0.16
L134B	Clarion-Crooksford complex, 1 to 5 percent slopes	NHEL	5	0.24	48	4.0	175	0.50
L135A	Okabena silty clay loam, 1 to 3 percent slopes	NHEL	5	0.32	86	3.0	200	0.35
L136A	Crooksford silty clay loam, 1 to 3 percent slopes	NHEL	5	0.32	38	4.0	175	0.50
L137A	Cylinder loam, 0 to 2 percent slopes	NHEL	4	0.32	48	1.0	250	0.17
L138B	Estherville sandy loam, 2 to 6 percent slopes	NHEL	3	0.20	56	3.0	200	0.53
L139A	Wadena loam, 0 to 2 percent slopes	NHEL	4	0.24	48	1.0	200	0.16
L139B	Wadena loam, 2 to 6 percent slopes	NHEL	4	0.24	48	4.0	175	0.50
L140A	Ocheda silty clay loam, 1 to 3 percent slopes	NHEL	5	0.28	86	1.0	200	0.16

L141A	Spillville loam, 0 to 2 percent slopes, occasionally flooded	NHEL	5	0.24	48	1.0	200	0.16
L144A	Chetomba silty clay loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1.0	250	0.17
L146A	Glencoe silty clay loam, 0 to 1 percent slopes	NHEL	5	0.28	38	1.0	200	0.16
L150A	Prinsburg silty clay loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1.0	250	0.17
L151A	Glencoe mucky silty clay loam, ponded, 0 to 1 percent slopes	NHEL	5	0.28	0	1.0	200	0.16
L152B	Lowlein-Round lake complex, 1 to 6 percent slopes	NHEL	3	0.20	86	4.0	175	0.50
L153A	Essexville sandy loam, 0 to 2 percent slopes	NHEL	4	0.28	86	1.0	200	0.16
L154E	Belview-Ridgeton complex, 15 to 45 percent slopes	HEL	5	0.28	86	21.0	100	4.40
L155A	Okoboji mucky silty clay loam, ponded, 0 to 1 percent slopes	NHEL	5	0.28	0	1.0	200	0.16
L156C2	Clarion-Storden-Pilot Grove complex, 6 to 10 percent slopes, moderately eroded	PHEL	3	0.20	56	9.0	150	1.40
L156D2	Omsrud-Storden-Pilot Grove complex, 10 to 16 percent slopes, moderately eroded	HEL	3	0.20	56	15.0	100	2.50
L157A	Lowlein loam, 0 to 2 percent slopes	NHEL	4	0.24	48	1.0	200	0.16
L158B	Round lake sandy loam, 1 to 6 percent slopes	NHEL	3	0.20	86	4.0	175	0.50
L159A	Knoke mucky silty clay loam, 0 to 1 percent slopes	NHEL	5	0.28	86	1.0	200	0.16
L160B	Dickinson sandy loam, loamy substratum, 1 to 6 percent slopes	NHEL	3	0.20	86	3.0	175	0.33
L161C	Estherville-Pilot Grove complex, 6 to 12 percent slopes	PHEL	3	0.20	86	9.0	150	1.40
L162B	Clarion-Round lake complex, 2 to 6 percent slopes	NHEL	3	0.20	56	4.0	175	0.50

L163A	Okoboji silty clay loam, 0 to 1 percent slopes	NHEL	5	0.28	38	1.0	200	0.16
L170B	Estherville-Round lake complex, 2 to 6 percent slopes	NHEL	3	0.20	86	4.0	175	0.50
P1B	Annieville silty clay loam, 2 to 5 percent slopes	NHEL	5	0.32	86	2.0	250	0.27
P2A	McCreath silty clay loam, 1 to 3 percent slopes	NHEL	5	0.28	86	1.0	250	0.17
P3A	Biscay silty clay loam, 0 to 2 percent slopes, occasionally flooded	NHEL	4	0.28	38	1.0	200	0.16
P7A	Comfrey clay loam, 0 to 2 percent slopes, occasionally flooded	NHEL	5	0.28	38	1.0	200	0.16
P9A	Gillett Grove silty clay loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1.0	250	0.17
P12B	Everly silty clay loam, 2 to 6 percent slopes	NHEL	5	0.24	48	4.0	200	0.53
P12C2	Everly silty clay loam, 6 to 12 percent slopes, moderately eroded	PHEL	5	0.24	48	9.0	150	1.40
P15B	Galva silty clay loam, 2 to 5 percent slopes	NHEL	5	0.32	86	2.0	250	0.27
P20B	Judson silt loam, 3 to 8 percent slopes	NHEL	5	0.24	48	4.0	200	0.53
P21A	Marcus silty clay loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1.0	250	0.17
P27A	Primghar silty clay loam, 1 to 3 percent slopes	NHEL	5	0.28	86	1.0	250	0.17
P28A	Ransom silty clay loam, 1 to 3 percent slopes	NHEL	5	0.32	38	1.0	250	0.17
P29A	Rushmore silty clay loam, 0 to 2 percent slopes	NHEL	5	0.28	38	1.0	250	0.17
P30B	Sac silty clay loam, 2 to 5 percent slopes	NHEL	5	0.28	86	2.0	250	0.27
P31A	Spicer silty clay loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1.0	250	0.17

P33A	Spillco silt loam, 0 to 2 percent slopes, occasionally flooded	NHEL	5	0.24	48	1.0	200	0.16
P36A	Talcot silty clay loam, 0 to 2 percent slopes, occasionally flooded	NHEL	4	0.28	86	1.0	200	0.16
P37D	Talmo gravelly sandy loam, 6 to 35 percent slopes	PHEL	3	0.20	86	9.0	150	1.40
P38B	Thurman sandy loam, 2 to 6 percent slopes	NHEL	3	0.20	86	3.0	175	0.33
P38C	Thurman sandy loam, 6 to 12 percent slopes	PHEL	3	0.20	86	9.0	150	1.40
P43A	Wilmington silty clay loam, 1 to 3 percent slopes	NHEL	5	0.28	38	1.0	250	0.17
P45E	Moneta clay loam, 15 to 45 percent slopes	HEL	5	0.28	86	21.0	100	4.40
P48A	Allendorf silty clay loam, 0 to 2 percent slopes	NHEL	4	0.32	48	1.0	250	0.17
P48B	Allendorf silty clay loam, 2 to 6 percent slopes	NHEL	4	0.32	48	4.0	200	0.53
P49A	Comfrey clay loam, 0 to 2 percent slopes, frequently flooded	NHEL	5	0.28	38	1.0	200	0.16
P50B	Everly-Kanaranzi complex, 2 to 6 percent slopes	NHEL	3	0.20	56	4.0	200	0.53
P51C2	Everly-Moneta-Talmo complex, 6 to 12 percent slopes, moderately eroded	PHEL	3	0.20	56	9.0	150	1.40
P52D2	Moneta-Everly-Talmo complex, 12 to 18 percent slopes, moderately eroded	HEL	3	0.20	56	15.0	100	2.50
P53C2	Everly-Moneta complex, 6 to 12 percent slopes, moderately eroded	PHEL	5	0.28	86	9.0	150	1.40
P54D2	Moneta-Everly complex, 12 to 18 percent slopes, moderately eroded	HEL	5	0.28	86	15.0	100	2.50
P55A	Kato silty clay loam, 0 to 2 percent slopes	NHEL	4	0.28	38	1.0	200	0.16
P56A	Kanaranzi silt loam, 0 to 2 percent slopes	NHEL	3	0.24	48	1.0	250	0.17

P56B	Kanaranzi silt loam, 2 to 6 percent slopes	NHEL	3	0.24	48	4.0	200	0.53
GP	Pits, gravel-Udipsamments complex							
M-W	Water, miscellaneous							
W	Water							