



Highly Permeable Soils in Minnesota By County

AITKIN COUNTY MINNESOTA

JANUARY 15 1992

Soil Name and Map Symbol

119C Pomroy (MN0279)	563 Northwood (MN0486)
186 Nemadji (MN0169)	564 Friendship (WI0028)
188B Omega (MN0170)	620B Cutaway (MN0346)
188C Omega (MN0170)	625 Sandwick (MN0348)
188E Omega (MN0170)	732B Bushville (MN0637)
202 Meehan (WI0255)	Mahtomedi (MN0246)
218 Watab (MN0284)	928D Mahtomedi (MN0246)
268B Cromwell (MN0191)	928F Mahtomedi (MN0246)
268C Cromwell (MN0191)	1984 Leafriver (MN0530)
268E Cromwell (MN0191)	
268F Cromwell (MN0191)	
454B Mahtomedi (MN0246)	
454C Mahtomedi (MN0246)	
454E Mahtomedi (MN0246)	
454F Mahtomedi (MN0246)	
458B Menahga (MN0057)	
458C Menahga (MN0057)	
458E Menahga (MN0057)	



Soil Name and Map Symbol

Bm
Blomford (MN0239)

Kr
Kratka (MN0419)

BtB
Braham (MN0234)

Lb
Isan (MN0269)

BtC
Braham (MN0234)

Lb
Rushlake (MN0606)

CkB
Chetek (WI0120)

LgB
Langola (MN0271)

CkC
Chetek (WI0120)

LnA
Lino (MN0251)

DnA
Dickman (MN0105)

Me
Meehan (WI0255)

DnB
Dickman (MN0105)

NrD
Nymore (MN0214)

Dp
Duelm (MN0192)

NyA
Nymore (MN0214)

EmC
Emmert (MN0193)

NyB
Nymore (MN0214)

EmD
Emmert (MN0193)

NyC
Nymore (MN0214)

EpC
Emmert (MN0193)

SbB
Sartell (MN0204)

EpD
Emmert (MN0193)

SbC
Sartell (MN0204)

HIC
Emmert (MN0193)

SbC2
Sartell (MN0204)

HID
Emmert (MN0193)

SbD2
Sartell (MN0204)

HuA
Hubbard (MN0162)

SoA
Soderville (MN0206)

HuB
Hubbard (MN0162)

ZmA
Zimmerman (MN0252)

HuC
Hubbard (MN0162)

ZmB
Zimmerman (MN0252)

Is
Isan (MN0269)

ZmC
Zimmerman (MN0252)

Iw
Isanti (MN0651)

ZmD
Zimmerman (MN0252)



Soil Name and Map Symbol

111 Hangaard (MN0130)	753D Abbeylake (MN0650)
191 Epoufette (MI0206)	753E Abbeylake (MN0650)
202 Meehan (WI0255)	775B Sugarbush (MN0425)
207D Nymore (MN0214)	Two Inlets (MN0653)
315A Bootlake (MN0431)	775C Sugarbush (MN0425)
315B Bootlake (MN0431)	Two Inlets (MN0653)
332B Sugarbush (MN0425)	776B Sugarbush (MN0425)
375 Forada (MN0070)	776C Sugarbush (MN0425)
406A Dorset (MN0263)	776E Sugarbush (MN0425)
406B Dorset (MN0263)	778B Dorset (MN0263)
413 Osakis (MN0278)	Corliss (MN0604)
564 Friendship (WI0028)	778C Dorset (MN0263)
567A Verndale (MN0520)	Corliss (MN0604)
567B Verndale (MN0520)	867B Graycalm (MI0180)
579C2 Sandberg (MN0619)	Menahga (MN0057)
711B Arvilla (ND0007)	867C Graycalm (MI0180)
Sandberg (MN0619)	Menahga (MN0057)
711C Arvilla (ND0007)	867E Graycalm (MI0180)
Sandberg (MN0619)	Menahga (MN0057)
721E Corliss (MN0604)	951B Sugarbush (MN0425)
	951C Sugarbush (MN0425)
	951E Sugarbush (MN0425)



1015
Udipsamments (MN0712)

1030
Udipsamments (MN0712)

1104B
Dorset (MN0263)

1104C
Dorset (MN0263)

1125B
Abbeylake (MN0650)

1125C
Abbeylake (MN0650)

1126B
Verndale (MN0520)

Nymore (MN0214)

1127A
Bootlake (MN0431)

Graycalm (MI0180)

1127B
Bootlake (MN0431)

Graycalm (MI0180)

1128
Cathro (MI0602)

1130
Wolverton (MN0706)

1131B
Verndale (MN0520)

1131B
Abbeylake (MN0650)

1132B
Eagleview (MN0705)

1132C
Eagleview (MN0705)

1132E
Eagleview (MN0705)

1138
Rushlake (MN0606)

Hangaard (MN0130)

1140B
Eagleview (MN0705)

1140C
Eagleview (MN0705)

1195B
Sybil (MN0729)

Eagleview (MN0705)

1195C
Sybil (MN0729)

1195C
Eagleview (MN0705)

1195E
Sybil (MN0729)

Eagleview (MN0705)

1196B
Lida (MN0720)

Two Inlets (MN0653)

1196C
Lida (MN0720)

Two Inlets (MN0653)

1196E
Lida (MN0720)

Two Inlets (MN0653)

1201C
Sugarbush (MN0425)

1201E
Sugarbush (MN0425)

1210
Epoufette (MI0206)

1235B
Sandberg (MN0619)

1236B
Eagleview (MN0705)

1236C
Eagleview (MN0705)

1236E
Eagleview (MN0705)

1238E
Two Inlets (MN0653)

1238E
Sugarbush (MN0425)

1242D
Sandberg (MN0619)

Arvilla (ND0007)

1244B
Sugarbush (MN0425)



1244C
Sugarbush (MN0425)

1244E
Sugarbush (MN0425)

1247D
Corliss (MN0604)

Dorset (MN0263)

1248C
Nymore (MN0214)

1249C
Graycalm (MI0180)

Bootlake (MN0431)

1250C
Abbeylake (MN0650)

Verndale (MN0520)

1252B
Bootlake (MN0431)

1252B
Eagleview (MN0705)

1263C
Eagleview (MN0705)

Bootlake (MN0431)

1942
Forada (MN0499)

1975
Oylen (MN0529)



Soil Name and Map Symbol

48 Hiwood (MN0004)	496D Andrusia (MN0496)
116 Redby (MN0005)	547 Deerwood (MN0018)
117 Cormant (MN0002)	563 Northwood (MN0486)
158B Zimmerman (MN0252)	620B Cutaway (MN0346)
158C Zimmerman (MN0252)	620C Cutaway (MN0346)
191 Epoufette (MI0206)	625 Sandwick (MN0348)
202 Meehan (WI0255)	709B Lengby (MN0256)
205 Karlstad (MN0046)	709C Lengby (MN0256)
242B Marquette (MN0047)	709D Lengby (MN0256)
242C Marquette (MN0047)	712 Rosewood (MN0414)
272 Bemidji (MN0043)	867B Graycalm (MI0180)
280 Pelan (MN0120)	Menahga (MN0057)
328B Sartell (MN0204)	867C Graycalm (MI0180)
432 Strandquist (MN0122)	Menahga (MN0057)
439 Rockwell (MN0054)	1085B Urban Land
458B Menahga (MN0057)	Graycalm (MI0180)
458C Menahga (MN0057)	1085C Graycalm (MI0180)
458D Menahga (MN0057)	1086 Cormant (MN0002)
481 Kratka (MN0072)	1808 Markey (MI0387)
482 Grygla (MN0020)	1924 Grygla (MN0487)
496B Andrusia (MN0496)	1935 Epoufette (MI0120)
496C Andrusia (MN0496)	1939 Northwood (MN0486)



Soil Name and Map Symbol

7A Hubbard (MN0162)	676B Kost (MN0590)
7B Hubbard (MN0162)	722 Blomford (MN0617)
12E Emmert (MN0193)	725 Ricelake (MN0715)
119C Pomroy (MN0279)	730A Sanburn (MN0642)
161 Isanti (MN0651)	730B Sanburn (MN0642)
162 Lino (MN0251)	730C Sanburn (MN0642)
179A Langola (MN0271)	732A Bushville (MN0637)
179B Langola (MN0271)	732B Bushville (MN0637)
217 Nokasippi (MN0275)	766 Kratka (MN0641)
218 Watab (MN0284)	776B Sanburn (MN0642)
260 Duelm (MN0192)	1015 Udipsamments (MN0712)
328A Sartell (MN0204)	1030 Udipsamments (MN0712)
328B Sartell (MN0204)	1364 Udipsamments (MN0712)
328C Sartell (MN0204)	1946 Winterfield (MI0263)
328E Sartell (MN0204)	
445B Braham (MN0616)	
543 Markey (MI0387)	
567A Verndale (MN0520)	
623A Pierz (MN0519)	
676A Kost (MN0590)	



Soil Name and Map Symbol

127B
Sverdrup (MN0078)

341
Arvilla (ND0007)

373B
Renshaw (SD0142)

402B
Sioux (SD0052)

402E
Sioux (SD0052)

923C
Copaston (MN0058)



Soil Name and Map Symbol

17
Minneopa (MN0016)

41
Estherville (MN0025)

41B
Estherville (MN0025)

41C
Estherville (MN0025)

69
Fedji (MN0010)

69B
Fedji (MN0010)

100
Copaston (MN0058)

178
Granby (MI0029)

363
Minneopa (MN0016)

440
Copaston (MN0058)

524
Caron (MN0023)

852
Copaston (MN0058)

853
Copaston (MN0058)

920B
Estherville (MN0025)

920C
Estherville (MN0025)

920D
Estherville (MN0025)

923
Copaston (MN0058)

968
Granby (MI0029)

992
Copaston (MN0058)



Soil Name and Map Symbol

8B Sparta (WI0041)	1829B Ridgeport Variant (MN0472)
8C Sparta (WI0041)	1931 Essexville (MI0421)
41A Estherville (MN0025)	
41B Estherville (MN0025)	
247 Linder (IA0176)	
327A Dickman (MN0105)	
327B Dickman (MN0105)	
495 Zumbro (MN0210)	
611B Hawick (MN0354)	
611C Hawick (MN0354)	
820B Dickman (MN0105)	
920B Estherville (MN0025)	
920C Estherville (MN0025)	
923E Copaston (MN0058)	
946 Dickman (MN0470)	
968 Hanska (MN0028)	
999B Estherville (MN0025)	
999C Estherville (MN0025)	
999D Hawick (MN0354)	
999F Hawick (MN0354)	



Soil Name and Map Symbol

12C Emmert (MN0193)	337 Warman (MN0166)
12E Emmert (MN0193)	355 Cloquet (MN0179)
22 Allendale (MI0185)	355C Cloquet (MN0179)
186 Nemadji (MN0169)	355E Cloquet (MN0179)
188 Omega (MN0170)	975 Omega (MN0170)
188C Omega (MN0170)	975C Omega (MN0170)
188E Omega (MN0170)	975E Omega (MN0170)
268 Cromwell (MN0191)	977G Cloquet (MN0179)
268B Cromwell (MN0191)	Emmert (MN0193)
274 Newson (WI0446)	V337 Warman (MN0166)



Soil Name and Map Symbol

AD
Hawick (MN0354)

AE
Hawick (MN0354)

DA
Rasset (MN0280)

DB
Rasset (MN0280)

EA
Estherville (MN0025)

EB
Estherville (MN0025)

EB2
Estherville (MN0025)

EX
Essexville (MI0421)

GP
Udipsamments (MN0712)

HC
Estherville (MN0025)

Hawick (MN0354)

HC2
Estherville (MN0025)

Hawick (MN0354)

HD
Estherville (MN0025)

Hawick (MN0354)

IA
Dickman (MN0105)

IB2
Dickman (MN0105)

IC2
Dickman (MN0105)

PA
Sparta (WI0041)

PB
Sparta (WI0041)

PC
Sparta (WI0041)

PD
Sparta (WI0041)

US
Udipsamments (MN0712)

XC2
Rasset (MN0280)



Soil Name and Map Symbol

7A Hubbard (MN0162)	454C Mahtomedi (MN0246)
7B Hubbard (MN0162)	454E Mahtomedi (MN0246)
48 Hiwood (MN0004)	458A Menahga (MN0057)
82B Redeye (MN0494)	458B Menahga (MN0057)
82C Redeye (MN0494)	458C Menahga (MN0057)
119B Pomroy (MN0279)	458E Menahga (MN0057)
119C Pomroy (MN0279)	564 Friendship (WI0028)
126B Graycalm (MI0180)	620B Cutaway (MN0346)
126C Graycalm (MI0180)	620D Cutaway (MN0346)
139B Huntersville (MN0493)	625 Sandwick (MN0348)
158B Zimmerman (MN0252)	665B Menahga (MN0309)
202 Meehan (WI0255)	665C Menahga (MN0309)
217 Nokasippi (MN0275)	665E Menahga (MN0309)
218 Watab (MN0284)	679B Menahga (MN0611)
268B Cromwell (MN0191)	679C Menahga (MN0611)
268C Cromwell (MN0191)	730B Sanburn (MN0642)
453B Demontreville (MN0242)	730C Sanburn (MN0642)
453C Demontreville (MN0242)	731C Sanburn (MN0642)
453E Demontreville (MN0242)	732 Bushville (MN0637)
454B Mahtomedi (MN0246)	



750B
Pomroy (MN0279)

750C
Pomroy (MN0279)

773B
Cromwell (MN0191)

773E
Cromwell (MN0191)

928B
Demontreville (MN0242)

Mahtomedi (MN0246)

928C
Demontreville (MN0242)

Mahtomedi (MN0246)

928E
Demontreville (MN0242)

Mahtomedi (MN0246)

1002
Fluvaquents (MN8001)

1153B
Huntersville (MN0610)

1155
Staples (MN0615)

1160B
Redeye (MN0613)

1160C
Redeye (MN0613)

1943
Roscommon (MI0159)

1956
Staples (MN0509)

1957B
Friendship (WI0460)

1970B
Menahga (MN0526)

1970C
Menahga (MN0526)

1996
Cromwell (MN0341)



Soil Name and Map Symbol

45B
Maddock (ND0012)

45C
Maddock (ND0012)

341B
Arvilla (ND0007)

341C
Arvilla (ND0007)

992E
Copaston (MN0058)



Soil Name and Map Symbol

119B Pomroy (MN0279)	454D Mahtomedi (MN0246)
119C Pomroy (MN0279)	454F Mahtomedi (MN0246)
155C Chetek (WI0120)	676B Kost (MN0590)
158B Zimmerman (MN0252)	677 Siren (WI0326)
158C Zimmerman (MN0252)	722 Blomford (MN0617)
161 Isanti (MN0196)	726 Kratka (MN0618)
162 Lino (MN0251)	928B Mahtomedi (MN0246)
169B Braham (MN0234)	928C Mahtomedi (MN0246)
169C Braham (MN0234)	928D Mahtomedi (MN0246)
207B Nymore (MN0214)	1068 Caryville (WI0118)
207C Nymore (MN0214)	1070D Plainbo (WI0110)
207D Nymore (MN0214)	Rock Outcrop
207E Nymore (MN0214)	
265 Soderville (MN0206)	
274 Newson (WI0446)	
328B Sartell (MN0204)	
328C Sartell (MN0204)	
328D Sartell (MN0204)	
454B Mahtomedi (MN0246)	
454C Mahtomedi (MN0246)	



Soil Name and Map Symbol

45B Maddock (ND0012)	609 Dickey (ND0122)
45C Maddock (ND0012)	892B Sioux (SD0052)
46 Borup (MN0051)	Sverdrup (MN0078)
59 Grimstad (MN0083)	892C Sioux (SD0052)
63 Rockwell (MN0054)	Sverdrup (MN0078)
64 Ulen (MN0037)	893E Lohnes (ND0115)
65 Foxhome (MN0133)	966C Sioux (SD0052)
66 Flaming (MN0068)	966D Sioux (SD0052)
71 Fossum (MN0102)	987 Rockwell (MN0360)
127B Sverdrup (MN0078)	1001 Aquolls (MN8001)
127C Sverdrup (MN0078)	Udifluents (MN8001)
148 Popleton (MN0131)	1874 Lohnes (ND0225)
245B Lohnes (ND0115)	1876 Divide (ND0234)
402B Sioux (SD0052)	
402C Sioux (SD0052)	
402D Sioux (SD0425)	
402E Sioux (SD0284)	
413 Osakis (MN0278)	
426 Foldahl (MN0116)	
435 Syrene (MN0132)	



Soil Name and Map Symbol

45D Maddock (ND0012)	563 Northwood (MN0486)
63 Rockwell (MN0054)	709B Lengby (MN0256)
111 Hangaard (MN0130)	709C Lengby (MN0256)
169B Braham (MN0234)	709D Lengby (MN0256)
169C Braham (MN0234)	712 Rosewood (MN0414)
191 Epoufette (MI0206)	713 Linveltdt (MN0405)
202 Meehan (WI0255)	867B Graycalm (MI0180)
258B Sandberg (MN0619)	Menahga (MN0057)
272 Bemidji (MN0043)	867C Graycalm (MI0180)
332B Sugarbush (MN0425)	Menahga (MN0057)
332C Sugarbush (MN0425)	867D Graycalm (MI0180)
332D Sugarbush (MN0425)	Menahga (MN0057)
426 Foldahl (MN0116)	1943 Roscommon (MI0422)
435 Syrene (MN0132)	
439 Strathcona (MN0054)	
481 Kratka (MN0072)	
496B Andrusia (MN0496)	
496C Andrusia (MN0496)	
543 Markey (MI0387)	
547 Deerwood (MN0018)	



Soil Name and Map Symbol

22 Allendale (MI0185)	454B Mahtomedi (MN0246)
186 Nemadji (MN0169)	454D Mahtomedi (MN0246)
188A Omega (MN0170)	454F Mahtomedi (MN0246)
188B Omega (MN0170)	555D Barto (MN0216)
188C Omega (MN0170)	556C Insula (MN0195)
188D Omega (MN0170)	556E Insula (MN0195)
188E Omega (MN0170)	872 Winterfield (MI0263)
268A Cromwell (MN0191)	890 Barto (MN0216)
268B Cromwell (MN0191)	952C Quetico (MN0202)
268C Cromwell (MN0191)	Rock Outcrop
274 Newson (WI0100)	952E Quetico (MN0202)
355A Cloquet (MN0179)	Rock Outcrop
355B Cloquet (MN0179)	975A Omega (MN0170)
355BC Cloquet (MN0179)	975B Omega (MN0170)
355C Cloquet (MN0179)	975C Omega (MN0170)
355D Cloquet (MN0179)	975D Omega (MN0170)
355DE Cloquet (MN0179)	975E Omega (MN0170)
355E Cloquet (MN0179)	
407 Brimson (MN0570)	
420 Twig (MN0165)	



Soil Name and Map Symbol

41A
Estherville (MN0025)

41B
Estherville (MN0025)

41C
Estherville (MN0025)

41D
Estherville (MN0025)

885B
Salida (MN0062)

885C
Salida (MN0062)

961D
Salida (MN0062)

1837
Webster Variant (MN0319)



Soil Name and Map Symbol

BcB Chetek (WI0120)	NyB Nymore (MN0214)
BcC Chetek (WI0120)	NyC Nymore (MN0214)
CgA Chetek (MN0246)	OnA Onamia (WI0226)
ChA Chetek (WI0120)	PoA Pomroy (MN0637)
ChB Chetek (WI0120)	PoB Pomroy (MN0279)
ChC Chetek (WI0120)	PoC Pomroy (MN0279)
ChD Chetek (WI0120)	PoD Pomroy (MN0279)
ChE Chetek (WI0120)	Wt Watab (MN0284)
HuA Hubbard (MN0162)	
HuA2 Hubbard (MN0162)	
HuB Hubbard (MN0162)	
HuC Hubbard (MN0162)	
Io Iosco (MN0239)	
Is Isanti (MN0196)	
Lo Lino (MN0251)	
MaA Menahga (MN0057)	
MaB Menahga (MN0057)	
MaC Menahga (MN0057)	
Nk Nokasippi (MN0275)	
NyA Nymore (MN0214)	



Soil Name and Map Symbol

7A Hubbard (MN0162)	155E Chetek (WI0120)
7B Hubbard (MN0162)	177A Gotham (WI0056)
7C Hubbard (MN0162)	177B Gotham (WI0056)
7D Hubbard (MN0162)	177C Gotham (WI0056)
8A Sparta (WI0041)	283A Plainfield (WI0116)
8B Sparta (WI0041)	283B Plainfield (WI0116)
12C Emmert (MN0193)	283D Plainfield (WI0116)
41A Estherville (MN0025)	409B Etter (MN0243)
41B Estherville (MN0025)	409C Etter (MN0243)
42C Salida (MN0062)	415A Kanaranzi (MN0224)
81B Boone (WI0109)	415B Kanaranzi (MN0224)
81C Boone (WI0109)	415C Kanaranzi (MN0224)
81E Boone (WI0109)	454B Mahtomedi (MN0246)
100A Copaston (MN0058)	454C Mahtomedi (MN0246)
100B Copaston (MN0058)	454E Mahtomedi (MN0246)
100C Copaston (MN0058)	495 Zumbro (MN0210)
151C Burkhardt (WI0050)	611C Hawick (MN0354)
151D Burkhardt (WI0050)	611D Hawick (MN0354)
155B Chetek (WI0120)	611E Hawick (MN0354)
155C Chetek (WI0120)	611F Hawick (MN0354)



Minnesota Pollution Control Agency

858C
Chetek (WI0120)

865B
Hubbard (MN0162)

889B
Hawick (MN0354)

889C
Hawick (MN0354)

889D
Hawick (MN0354)

895B
Mahtomedi (MN0246)

895C
Mahtomedi (MN0246)

896E
Mahtomedi (MN0246)

896F
Mahtomedi (MN0246)

1815
Zumbro (MN0210)

1821
Alganssee (MI0123)

1848B
Sparta (WI0333)

1898F
Etter (MN0243)



Soil Name and Map Symbol

DaA
Dickinson (IA0078)

DaB2
Dickinson (IA0520)

DaC2
Dickinson (IA0520)

Ru
Marlean (IA0111)

TsB3
Burkhardt (WI0050)

TsC2
Burkhardt (WI0050)

TsC3
Burkhardt (WI0050)

TuA
Burkhardt (WI0050)

TuB
Burkhardt (WI0050)

TuB2
Thurston (WI0050)

WnB
Whalan (MN0112)

WnB2
Whalan (MN0112)

WnC
Whalan (MN0112)

WnC2
Whalan (MN0112)

WnD
Whalan (MN0112)

WnD2
Whalan (MN0112)

WpC3
Whalan (MN0112)

WpD3
Whalan (MN0112)

WzD2
Burkhardt (WI0050)

WzD3
Burkhardt (WI0050)



Soil Name and Map Symbol

Ao Arveson (MN0050)	SoC Wamduska (ND0365)
AsA Arvilla (ND0007)	SoE Wamduska (ND0365)
AsB Arvilla (ND0007)	SpA Sverdrup (MN0078)
AsC Arvilla (ND0007)	SpB Sverdrup (MN0078)
CmA Clontarf (MN0262)	SpC Sverdrup (MN0078)
DoA Dorset (MN0263)	SvA Sverdrup (MN0078)
DoB Dorset (MN0263)	WsB2 Wamduska (ND0365)
DoC Dorset (MN0263)	WsC2 Wamduska (ND0365)
Ha Hangaard (MN0130)	
LwD Wamduska (ND0365)	
MaA Maddock (ND0012)	
MaB Maddock (ND0012)	
MaC Maddock (ND0012)	
NhB Dorset (MN0263)	
NhC Dorset (MN0263)	
NyB Nymore (MN0214)	
NyC Nymore (MN0214)	
OsA Osakis (MN0278)	
SmB Lohnes (MN0619)	
SmC Lohnes (MN0619)	



Soil Name and Map Symbol

8B
Sparta (WI0041)

41B
Estherville (MN0025)

920B
Estherville (MN0025)

920C2
Estherville (MN0025)

920D2
Estherville (MN0025)



Soil Name and Map Symbol

Ce
Chelsea (IA0119)

Boone (WI0109)

Cf
Chelsea (IA0119)

Boone (MN0217)

Dd
Lilah (IA0054)

Dl
Dickinson (IA0214)

Dm
Dickinson (IA0214)

Dn
Dickinson (IA0214)

Ea
Plainfield (WI0116)

Pa
Plainfield (WI0116)

Sparta (WI0041)

Pb
Plainfield (WI0116)

Sparta (WI0041)

To
Thurston (WI0050)

Lilah (IA0054)

Tp
Burkhardt (WI0050)

Lilah (IA0054)

Tr
Burkhardt (WI0050)

Lilah (IA0054)



Soil Name and Map Symbol

27B Dickinson (IA0078)	539 Palms (MI0023)
27C Dickinson (IA0078)	920B Estherville (MN0025)
41 Estherville (MN0025)	920C Estherville (MN0025)
41B Estherville (MN0025)	920D Estherville (MN0025)
41C Estherville (MN0025)	944B Estherville (MN0025)
41D Estherville (MN0025)	944C2 Estherville (MN0025)
42D Salida (MN0062)	944D2 Estherville (MN0025)
87B Chelsea (IA0119)	944E Estherville (MN0025)
247 Linder (IA0176)	
524 Caron (MN0023)	



Soil Name and Map Symbol

BaF Bellechester (MN0217)	Whalan (MN0112)
BrA Burkhardt (WI0050)	WsD2 Whalan (MN0112)
CvB Copaston (MN0058)	Zu Zumbro (MN0210)
CvC2 Copaston (MN0058)	
EeD Eleva (WI0011)	
EsA Estherville (MN0025)	
EsC Estherville (MN0025)	
GtB Gotham (WI0056)	
GtD Gotham (WI0056)	
LiA Lilah (IA0054)	
LiD Lilah (IA0054)	
PaB Plainfield (WI0116)	
PaD Plainfield (WI0116)	
SaB Salida (MN0062)	
SaE Salida (MN0062)	
SkC2 Lilah (IA0054)	
SkD2 Lilah (IA0054)	
SoD Copaston (MN0058)	
SpA Sparta (WI0041)	
WsB Whalan (MN0112)	
WsC2	



Soil Name and Map Symbol

45B
Maddock (ND0012)

45C
Maddock (ND0012)

64
Ulen (MN0037)

330
Towner (ND0228)

341A
Arvilla (ND0007)

341B
Arvilla (ND0007)

366
Hecla (SD0134)

375
Forada (MN0070)

402B
Sioux (MN0619)

402C
Sioux (ND0365)

402D
Sioux (ND0365)

914
Grimstad (MN0083)

Towner (ND0228)



Soil Name and Map Symbol

AnB Anoka (MN0215)	HuB Hubbard (MN0162)
AnC Anoka (MN0215)	HuC Hubbard (MN0162)
BsB Braham (MN0234)	HuD Hubbard (MN0162)
BsC Braham (MN0234)	HuE Hubbard (MN0162)
BtB Braham (MN0234)	Is Isan (MN0528)
BtC Braham (MN0234)	It Isan (MN0269)
BuB Burnsville (MN0240)	Iv Belleville (MI0054)
BuC Burnsville (MN0240)	KnB Mahtomedi (MN0246)
BuD Burnsville (MN0240)	KnC Mahtomedi (MN0246)
BuE Burnsville (MN0240)	KnD Mahtomedi (MN0246)
DnA Dickman (MN0105)	KnE Mahtomedi (MN0246)
DnB Dickman (MN0105)	KnF Mahtomedi (MN0246)
DnC Dickman (MN0105)	Lc Belleville (MI0054)
Dp Duelm (MN0192)	LgA Langola (MN0271)
Ds Duelm Variant (MN0454)	LgB Langola (MN0271)
EtA Estherville (MN0025)	Lh Langola (MN0271)
EtB Estherville (MN0025)	NyB Nymore (MN0214)
EtC Estherville (MN0025)	NyC Nymore (MN0214)
EtD Estherville (MN0025)	SaB Salida (MN0062)
HuA Hubbard (MN0162)	



Minnesota Pollution Control Agency

SaC
Salida (MN0062)

SaD
Salida (MN0062)

SaE
Salida (MN0062)

ZmB
Zimmerman (MN0252)

ZmC
Zimmerman (MN0252)



Soil Name and Map Symbol

8A Sparta (WI0041)	471 Root (MN0299)
81F Boone (WI0109)	1822B Abscota Variant (MN0407)
177B Gotham (WI0056)	1856D Plainfield (WI0190)
244B Lilah (IA0054)	1856E Plainfield (WI0190)
283B Plainfield (WI0116)	1885 Abscota (MI0082)
283C Plainfield (WI0116)	1886 Minneiska Variant (MN0409)
283D Plainfield (WI0116)	1898F Etter (MN0243)
283F Plainfield (WI0116)	



Soil Name and Map Symbol

126B
Graycalm (MI0180)

202
Meehan (WI0255)

261
Isan (MN0269)

315B
Sugarbush (MN0431)

406B
Dorset (MN0263)

458B
Menahga (MN0057)

564
Friendship (WI0028)

567A
Verndale (MN0520)

567B
Verndale (MN0520)

620B
Cutaway (MN0346)

679B
Menahga (MN0611)

679E
Menahga (MN0611)

731A
Sanburn (MN0642)



Soil Name and Map Symbol

A Alluvial Land (WI8027)	Np Braham (MN0234)
C Chetek (WI0120)	Nu Braham (MN0234)
Cd Chetek (WI0120)	NX Braham (MN0234)
Cp Chetek (WI0120)	S Scandia (WI0120)
Cw Crown (WI0025)	Sd Scandia (WI0120)
Cx Chetek (WI0120)	Sp Scandia (WI0120)
E Emmert (MN0193)	Ss Scandia (WI0120)
Eh Emmert (MN0193)	V Burnsville (MN0263)
Es Emmert (MN0193)	Rodman (MN0246)
H Hubbard (MN0162)	Vd Burnsville (MN0263)
Hp Hubbard (MN0162)	Rodman (MN0246)
Hu Hubbard (MN0162)	Vx Burnsville (MN0263)
Is Isanti (MN0162)	Rodman (MN0246)
J Scandia (MN0193)	Z Zimmerman (MN0252)
Jd Scandia (MN0193)	Zd Zimmerman (MN0252)
Jp Scandia (MN0193)	Zf Zimmerman (MN0252)
Js Scandia (MN0193)	Zg Zimmerman (MN0252)
L Lino (MN0251)	Zh Zimmerman (MN0252)
N Blomford (MN0239)	ZL Rough Broken Land (MN0252)
Nd Braham (MN0234)	Zn Zimmerman (MN0252)



Zp
Zimmerman (MN0252)

Zr
Zimmerman (MN0252)

Zs
Zimmerman (MN0252)

Zu
Zimmerman (MN0252)

Zv
Zimmerman (MN0252)

Zx
Zimmerman (MN0252)



Soil Name and Map Symbol

158B
Zimmerman (MN0252)

803B
Menahga (MN0057)

1826B
Menahga (MN0057)

803D
Menahga (MN0057)

1826D
Menahga (MN0057)

844F
Mahtomedi (MN0246)

202
Meehan (WI0255)

844F
Emmert (MN0193)

268B
Cromwell (MN0191)

866B
Menahga (MN0057)

268D
Cromwell (MN0191)

866E
Menahga (MN0057)

458E
Menahga (MN0057)

867B
Menahga (MN0057)

620B
Cutaway (MN0346)

Graycalm (MI0180)

625
Sandwick (MN0348)

868B
Mahtomedi (MN0246)

655
Bearville (MN0383)

Graycalm (MI0180)

656B
Thistledew (MN0382)

872
Winterfield (MI0263)

798
Roscommon (MI0159)



Soil Name and Map Symbol

41A
Estherville (MN0025)

41B
Estherville (MN0025)

41C
Estherville (MN0025)

327B
Dickman (MN0105)

327C
Dickman (MN0105)



Soil Name and Map Symbol

12B Emmert (MN0193)	170 Blomford (MN0239)
12D Emmert (MN0193)	186 Nemadji (MN0169)
12F Emmert (MN0193)	188A Omega (MN0170)
119A Pomroy (MN0279)	188B Omega (MN0170)
119B Pomroy (MN0279)	188C Omega (MN0170)
119C Pomroy (MN0279)	188D Omega (MN0170)
119D Pomroy (MN0279)	188E Omega (MN0170)
155A Chetek (WI0120)	202 Meehan (WI0255)
155B Chetek (WI0120)	218 Watab (MN0284)
155C Chetek (WI0120)	274 Newson (WI0100)
155D Chetek (WI0120)	328A Sartell (MN0204)
155E Chetek (WI0120)	328B Sartell (MN0204)
158A Zimmerman (MN0252)	328C Sartell (MN0204)
158B Zimmerman (MN0252)	328D Sartell (MN0204)
158C Zimmerman (MN0252)	328E Sartell (MN0204)
161 Isanti (MN0196)	454B Mahtomedi (MN0246)
162 Lino (MN0251)	454D Mahtomedi (MN0246)
169A Braham (MN0234)	454F Mahtomedi (MN0246)
169B Braham (MN0234)	458A Menahga (MN0057)
169C Braham (MN0234)	



Minnesota Pollution Control Agency

458B
Menahga (MN0057)

458C
Menahga (MN0057)

458D
Menahga (MN0057)

458E
Menahga (MN0057)

458F
Menahga (MN0057)

481
Kratka (MN0072)

872
Winterfield (MI0263)

949B
Chetek (WI0120)

949C
Chetek (WI0120)

949D
Chetek (WI0120)

949E
Chetek (WI0120)

949F
Chetek (WI0120)

1068
Caryville (WI0118)



Soil Name and Map Symbol

41A Estherville (MN0025)	Hawick (MN0354)
413 Osakis (MN0278)	833B Hawick (MN0354)
566 Regal (MN0352)	8323C Hawick (MN0354)
611D Hawick (MN0354)	833D Hawick (MN0354)
611F Hawick (MN0354)	833E Hawick (MN0354)
804B Hawick (MN0354)	875B Estherville (MN0025)
804C Hawick (MN0354)	Hawick (MN0354)
804D Hawick (MN0354)	875C Hawick (MN0354)
804E Hawick (MN0354)	Estherville (MN0025)
809 Estherville (MN0025)	999B Hawick (MN0354)
819B Regal (MN0352)	999C Hawick (MN0354)



Soil Name and Map Symbol

BaC
Barto (MN0216)

BaC2
Barto (MN0216)

BaE
Barto (MN0216)

IsC
Insula (MN0195)

IsC2
Insula (MN0195)

IsE
Insula (MN0195)

QrC
Quetico (MN0202)

QrE
Quetico (MN0202)



Soil Name and Map Symbol

45 Maddock (ND0012)	435 Syrene (MN0132)
46 Borup (MN0051)	
59 Grimstad (MN0083)	482 Grygla (MN0020)
61 Arveson (MN0050)	547 Deerwood (MN0018)
63 Rockwell (MN0054)	993 Arveson (MN0359)
64 Ulen (MN0037)	Cormant (MN0385)
65 Foxhome (MN0133)	994 Rockwell (MN0360)
111 Hangaard (MN0130)	Grygla (MN0416)
116 Redby (MN0005)	
117 Cormant (MN0002)	
145 Enstrom (MN0019)	
148 Popleton (MN0131)	
205 Karlstad (MN0046)	
242 Marquette (MN0047)	
245 Lohnes (ND0115)	
280 Pelan (MN0120)	
412 Mavie (MN0134)	
426 Foldahl (MN0116)	
432 Strandquist (MN0122)	
433 Syrene (MN0363)	



Soil Name and Map Symbol

48 Hiwood (MN0004)	454B Mahtomedi (MN0246)
116 Redby (MN0005)	454D Mahtomedi (MN0246)
117 Cormant (MN0002)	454F Mahtomedi (MN0246)
145 Enstrom (MN0019)	458A Menahga (MN0057)
169A Braham (MN0234)	458B Menahga (MN0057)
169B Braham (MN0234)	458C Menahga (MN0057)
169C Braham (MN0234)	458D Menahga (MN0057)
170 Blomford (MN0239)	458E Menahga (MN0057)
191 Epoufette (MI0206)	458F Menahga (MN0057)
202 Meehan (WI0255)	481 Kratka (MN0072)
242A Marquette (MN0047)	482 Grygla (MN0020)
242B Marquette (MN0047)	556C Insula (MN0195)
242C Marquette (MN0047)	556E Insula (MN0195)
242D Marquette (MN0047)	557C Conic (MN0190)
274 Newson (WI0100)	557E Conic (MN0190)
328A Sartell (MN0204)	625 Sandwick (MN0348)
328B Sartell (MN0204)	655 Bearville (MN0383)
328C Sartell (MN0204)	656B Thistledew (MN0382)
328D Sartell (MN0204)	872 Winterfield (MI0263)
328E Sartell (MN0204)	



Minnesota Pollution Control Agency

952C
Quetico (MN0202)

952E
Quetico (MN0202)

1943
Roscommon (MI0159)



Soil Name and Map Symbol

127B
Sverdrup (MN0078)

127C
Sverdrup (MN0078)

1106C
Sioux (SD0052)

339
Fordville (SD0178)

341A
Arvilla (ND0007)

341B
Arvilla (ND0007)

341C
Arvilla (ND0007)

402F
Sioux (SD0052)

883
Zumbro (MN0210)

923C
Copaston (MN0058)



Soil Name and Map Symbol

22 Allendale (MI0185)	454F Mahtomedi (MN0246)
186 Nemadji (MN0169)	555D Barto (MN0216)
188A Omega (MN0170)	556C Insula (MN0195)
188B Omega (MN0170)	556E Insula (MN0195)
188C Omega (MN0170)	872 Winterfield (MI0263)
188D Omega (MN0170)	890 Barto (MN0216)
188E Omega (MN0170)	952C Quetico (MN0202)
268A Cromwell (MN0191)	952E Quetico (MN0202)
268B Cromwell (MN0191)	975A Omega (MN0170)
268C Cromwell (MN0191)	975B Omega (MN0170)
274 Newson (WI0100)	975C Omega (MN0170)
355A Cloquet (MN0179)	975D Omega (MN0170)
355B Cloquet (MN0179)	975E Omega (MN0170)
355BC Cloquet (MN0179)	
355C Cloquet (MN0179)	
355D Cloquet (MN0179)	
355DE Cloquet (MN0179)	
355E Cloquet (MN0179)	
454B Mahtomedi (MN0246)	
454D Mahtomedi (MN0246)	



Soil Name and Map Symbol

48B
Hiwood (MN0004)

952E
Quetico (MN0202)

116
Redby (MN0005)

1033
Menahga (MN0057)

117
Cormant (MN0002)

1924
Grygla (MN0487)

145
Enstrom (MN0019)

1984
Leafriver (MN0530)

191
Epoufette (MI0206)

202
Meehan (WI0255)

205
Karlstad (MN0046)

242B
Marquette (MN0047)

242D
Marquette (MN0047)

280
Pelan (MN0120)

432
Strandquist (MN0122)

458B
Menahga (MN0057)

481
Kratka (MN0072)

482
Grygla (MN0020)

563
Northwood (MN0486)

570
Faunce (MN0532)

655
Bearville (MN0383)

794
Faunce Variant (MN0260)

828D
Insula (MN0195)

Mesaba (MN0227)



Soil Name and Map Symbol

8B
Sparta (WI0041)

8C
Sparta (WI0041)

41B
Estherville (MN0025)

1057
Caron (MN0044)

183
Dassel (MN0386)

1855B
Dickinson (IA0214)

524
Caron (MN0023)

611C
Hawick (MN0354)

611D
Hawick (MN0354)

611F
Hawick (MN0354)

944B
Estherville (MN0025)

944C
Hawick (MN0354)

944D
Hawick (MN0354)

944F
Hawick (MN0354)



Soil Name and Map Symbol

ArA
Arvilla (ND0007)

ArB
Arvilla (ND0007)

ArC2
Arvilla (ND0007)

ArD2
Arvilla (ND0007)

BcB
Arvilla (ND0007)

BxB2
Arvilla (ND0007)

BcC2
Arvilla (ND0007)

BrD2
Arvilla (ND0007)

BrF
Arvilla (ND0007)

DcA
Dickey Variant (MN0455)

DcB
Dickey Variant (MN0455)

Dv
Divide (ND0011)

La
Rockwell (MN0054)

SoF
Sioux (SD0052)

SwC
Sverdrup (MN0078)



Soil Name and Map Symbol

341
Arvilla (ND0007)

341B
Arvilla (ND0007)

341C
Arvilla (ND0007)

402E
Sioux (SD0052)

904B2
Arvilla (ND0007)

904C2
Arvilla (ND0007)

917D2
Sioux (SD0052)

917E
Sioux (SD0052)

953C
Arvilla (ND0007)



Soil Name and Map Symbol

59 Grimstad (MN0083)	116 Redby (MN0005)
191 Epoufette (MI0206)	117 Cormant (MN0002)
258B Sandberg (MN0619)	145 Enstrom (MN0019)
332B Sugarbush (MN0425)	148 Popleton (MN0131)
332C Sugarbush (MN0425)	191 Epoufette (MI0206)
332E Sugarbush (MN0425)	205 Karlstad (MN0046)
426 Foldahl (MN0116)	
775B Sugarbush (MN0425)	
775C Sugarbush (MN0425)	
775E Sugarbush (MN0425)	
Sugarbush (MN0425)	
776C Sugarbush (MN0425)	
867B Graycalm (MI0180)	
Menahga (MN0057)	
46 Borup (MN0051)	
48 Hiwood (MN0004)	
59 Grimstad (MN0083)	
64A Ulen (MN0037)	
65 Foxhome (MN0133)	
66 Flaming (MN0068)	
111 Hangaard (MN0130)	



Soil Name and Map Symbol

242B
Marquette (MN0047)

245B
Lohnes (ND0115)

280
Pelan (MN0120)

372
Hamar (SD0141)

412
Mavie (MN0134)

426
Foldahl (MN0116)

432
Strandquist (MN0122)

435
Syrene (MN0132)

439
Rockwell (MN0054)

481
Kratka (MN0072)

482
Grygla (MN0020)

547
Deerwood (MN0018)

563
Northwood (MN0486)

643
Huot (MN0426)

645
Espelie (MN0406)

647
Hilaire (MN0401)

651
Thief river (MN0412)

652
Wyandotte (MN0404)

712
Rosewood (MN0414)

713
Linveldt (MN0405)

721B
Corliss (MN0604)

1156
Rockwell (MN0054)

Kratka (MN0072)

1874
Lohnes (ND0225)

1966
Rosewood (MN0414)

Hamar (SD0141)



Soil Name and Map Symbol

8B
Sparta (WI0041)

41B
Estherville (MN0025)

41C
Estherville (MN0025)

920B
Estherville (MN0025)

920C2
Estherville (MN0025)

920D2
Estherville (MN0025)



Soil Name and Map Symbol

41A
Estherville (MN0025)

41B
Estherville (MN0025)

327B
Dickman (MN0105)

611C
Hawick (MN0354)

920B
Estherville (MN0025)

920C2
Estherville (MN0025)

920D2
Estherville (MN0025)

944B
Estherville (MN0025)



Soil Name and Map Symbol

8B Sparta (WI0041)	1099 Granby (MI0029)
8C Sparta (WI0041)	1172C Sparta
8D Sparta (WI0041)	1220C Hawick
41A Estherville (MN0025)	
143B Chelsea (IA0119)	
178 Granby (MI0029)	
327A Dickman (MN0105)	
327B Dickman (MN0105)	
413 Osakis (MN0278)	
415 Kanaranzi (MN0224)	
611D Hawick (MN0354)	
804B Hawick (MN0354)	
804C2 Hawick (MN0354)	
804D2 Hawick (MN0354)	
804E Hawick (MN0354)	
875B Estherville (MN0025)	
Hawick (MN0354)	
875C Hawick (MN0354)	
Estherville (MN0025)	
920B Hawick (MN0354)	
1015 Udipsamments (NE0523)	



Soil Name and Map Symbol

12B Emmert (MN0193)	170 Blomford (MN0239)
12D Emmert (MN0193)	186 Nemadji (MN0169)
12F Emmert (MN0193)	188A Omega (MN0170)
119A Pomroy (MN0279)	188B Omega (MN0170)
119B Pomroy (MN0279)	188C Omega (MN0170)
119C Pomroy (MN0279)	188D Omega (MN0170)
119D Pomroy (MN0279)	188E Omega (MN0170)
155A Chetek (WI0120)	202 Meehan (WI0255)
155B Chetek (WI0120)	218 Watab (MN0284)
155C Chetek (WI0120)	274 Newson (WI0100)
155D Chetek (WI0120)	Sartell (MN0204)
155E Chetek (WI0120)	328B Sartell (MN0204)
158A Zimmerman (MN0252)	328C Sartell (MN0204)
158B Zimmerman (MN0252)	328D Sartell (MN0204)
158C Zimmerman (MN0252)	328E Sartell (MN0204)
161 Isanti (MN0196)	454B Mahtomedi (MN0246)
162 Lino (MN0251)	454D Mahtomedi (MN0246)
169A Braham (MN0234)	454F Mahtomedi (MN0246)
169B Braham (MN0234)	458A Menahga (MN0057)
169C Braham (MN0234)	458B Menahga (MN0057)



Minnesota Pollution Control Agency

458C
Menahga (MN0057)

458D
Menahga (MN0057)

458E
Menahga (MN0057)

458F
Menahga (MN0057)

481
Kratka (MN0072)

872
Winterfield (MI0263)

949B
Chetek (WI0120)

949C
Chetek (WI0120)

949D
Chetek (WI0120)

949E
Chetek (WI0120)

949F
Chetek (WI0120)

1068
Caryville (WI0118)

1943
Roscommon (MI0159)



Soil Name and Map Symbol

7A Hubbard (MN0162)	341A Arvilla (ND0007)
7B Hubbard (MN0162)	341B Arvilla (ND0007)
12C Emmert (MN0193)	375 Forada (MN0070)
12D Emmert (MN0193)	413 Osakis (MN0278)
119B Pomroy (MN0279)	454B Mahtomedi (MN0246)
119C Pomroy (MN0279)	454C Mahtomedi (MN0246)
155B Chetek (WI0120)	454E Mahtomedi (MN0246)
155C Chetek (WI0120)	454F Mahtomedi (MN0246)
158B Zimmerman (MN0252)	458A Menahga (MN0057)
161 Isanti (MN0196)	458B Menahga (MN0057)
182A Oesterle (WI0276)	458C Menahga (MN0057)
182B Oesterle (WI0276)	458E Menahga (MN0057)
202 Meehan (WI0255)	458F Menahga (MN0057)
217 Nokasippi (MN0275)	928B Mahtomedi (MN0246)
218 Watab (MN0284)	Demontreville (MN0242)
260 Duelm (MN0192)	928C Mahtomedi (MN0246)
261 Isan (MN0269)	Demontreville (MN0242)
265 Soderville (MN0206)	928E Mahtomedi (MN0246)
328B Sartell (MN0204)	Demontreville (MN0242)
328C Sartell (MN0204)	928F Mahtomedi (MN0246)
	Demontreville (MN0242)



Minnesota Pollution Control Agency

1946
Winterfield (MI0263)

1973
Meehan (WI0255)

Isan (MN0269)



Soil Name and Map Symbol

244A
Lilah (IA0054)

244B
Lilah (IA0054)

244C
Lilah (IA0054)



Soil Name and Map Symbol

341A
Arvilla (ND0007)

341B
Arvilla (ND0007)

341C
Arvilla (ND0007)

402E
Sioux (SD0052)

904B
Arvilla (ND0007)

904C
Arvilla (ND0007)

917D
Sioux (SD0052)

920C2
Arvilla (ND0007)



Soil Name and Map Symbol

41B
Estherville (MN0025)

100B
Copaston (MN0058)

283A
Plainfield (WI0116)

283B
Plainfield (WI0116)

283C
Plainfield (WI0116)

327A
Dickman (MN0105)

327B
Dickman (MN0105)

611F
Hawick (MN0354)

852
Copaston (MN0058)

864B
Plainfield (WI0116)

864C
Plainfield (WI0116)

920B
Hawick (MN0354)

920C2
Hawick (MN0354)

923
Copaston (MN0058)

944F
Estherville (MN0025)

1931
Essexville (MI0421)



Soil Name and Map Symbol

CoB2
Estherville (MN0025)

CoC2
Estherville (MN0025)

CoD2
Estherville (MN0025)

EaB
Estherville (MN0025)

EaC2
Estherville (MN0025)

EbB
Estherville (MN0025)

EvB
Estherville (MN0025)

EvC2
Estherville (MN0025)

EvD2
Estherville (MN0025)

FaB2
Fairhaven (MN0194)

FeB2
Fairhaven (MN0194)

KaA
Kanaranzi (MN0224)

KaB
Kanaranzi (MN0224)



Soil Name and Map Symbol

Hamar (SD0141)	Sy
Ff	Syrene (MN0132)
Flaming (MN0068)	To
Fh	Towner (ND0022)
Flaming (MN0068)	UIA
Hamar (SD0141)	Ulen (MN0037)
FxA	Un
Foxhome (MN0133)	Ulen (MN0037)
Gr	
Grimstad (MN0083)	
Ha	
Hamar (SD0141)	
Hn	
Hangaard (MN0130)	
MaA	
Maddock (ND0012)	
MaC	
Maddock (ND0012)	
Mm	
Mavie (MN0134)	
Po	
Poppleton (MN0131)	
Rc	
Rockwell (MN0054)	
Rk	
Rockwell (MN0360)	
Kratka (MN0419)	
SdA	
Sioux (SD0052)	
SdB	
Sioux (SD0052)	
SgA	
Sioux (SD0052)	
SgC	
Sioux (SD0052)	
SmE	
Sioux (SD0052)	
Maddock (ND0192)	



Soil Name and Map Symbol

42E
Salida (MN0062)

73F
Bellechester (MN0217)

143B
Eleva (WI0011)

143C
Eleva (WI0011)

216B
Lamont (IA0080)

244C
Lilah (IA0054)

251F
Marlean (IA0111)

251G
Marlean (IA0111)

283B
Plainfield (WI0116)

283C
Plainfield (WI0116)

283E
Plainfield (WI0116)

495
Zumbro (MN0210)

898F
Bellechester (MN0217)



Soil Name and Map Symbol

7A Hubbard (MN0162)	426 Foldahl (MN0116)
7B Hubbard (MN0162)	481 Kratka (MN0072)
7C Hubbard (MN0162)	567A Verndale (MN0520)
59 Grimstad (MN0083)	567B Verndale (MN0520)
65 Foxhome (MN0133)	609B Dickey (ND0122)
66 Flaming (MN0068)	705B Lida (MN0720)
68 Arveson (MN0359)	705C Nitche (MN0626)
127A Sverdrup (MN0078)	Lida (MN0720)
127C Sverdrup (MN0078)	711B Arvilla (ND0007)
202 Meehan (WI0255)	Sandberg (MN0619)
258A Sandberg (MN0619)	711C Arvilla (ND0007)
258B Sandberg (MN0619)	Sandberg (MN0619)
258C Sandberg (MN0619)	715 Bluffcreek (MN0716)
260 Duelm (MN0192)	Clearriver (MN0260)
341A Arvilla (ND0007)	716B Leaflake (MN0605)
341B Arvilla (ND0007)	Eagleview (MN0705)
402C Sioux (SD0425)	716C Leaflake (MN0605)
402E Sioux (SD0425)	Eagleview (MN0705)
406A Dorset (MN0263)	716D Leaflake (MN0605)
406B Dorset (MN0263)	Eagleview (MN0705)
	721B Corliss (MN0604)
	721C Corliss (MN0604)



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721D Corliss (MN0604)	1114 Hangaard (MN0130)
721E Corliss (MN0604)	1120 Rushlake (MN0606)
726 Kratka (MN0618)	Hangaard (MN0130)
776B Sugarbush (MN0425)	1131B Verndale (MN0520)
776C Sugarbush (MN0425)	Abbeylake (MN0650)
776E Sugarbush (MN0425)	1195A Sybil (MN0729)
778B Dorset (MN0263)	Eagleview (MN0705)
778B Corliss (MN0604)	1195B Sybil (MN0729)
778C Dorset (MN0263)	Eagleview (MN0705)
Corliss (MN0604)	1195C Sybil (MN0729)
1015 Udipsamments (MN0712)	Eagleview (MN0705)
1030 Udipsamments (MN0712)	1195E Sybil (MN0729)
1077 Leafriver (MN0530)	Eagleview (MN0705)
1102B Dorset (MN0263)	1196B Lida (MN0720)
1102C Dorset (MN0263)	Two Inlets (MN0653)
1103 Clitherall (MN0761)	1196C Lida (MN0720)
1104B Dorset (MN0263)	Two Inlets (MN0653)
1104C Dorset (MN0263)	1196E Lida (MN0720)
1104D Dorset (MN0263)	Two Inlets (MN0653)
1110 Isan (MN0528)	1196F Lida (MN0720)
1112D Corliss (MN0604)	Two Inlets (MN0653)
1112E Corliss (MN0604)	1217E Lida (MN0720)
	1218B Lida (MN0720)
	1218C Lida (MN0720)
	1218E Lida (MN0720)
	1218F Lida (MN0720)



1219C
Sandberg (MN0619)

1221B
Sandberg (MN0619)

1223D
Sandberg (MN0619)

Arvilla (ND0007)

1247D
Corliss (MN0604)

Dorset (MN0263)

1250C
Abbeylake (MN0650)

Verndale (MN0520)

1277D
Corliss (MN0604)

1307
Rushlake (MN0606)

1322
Wolverton (MN0706)

1339
Borup (MN0358)

1340
Epoufette (MI0206)

1341
Clitherall (MN0761)

1343C
Lida (MN0720)

1344B
Lida (MN0720)

1345
Bluffcreek (MN0716)

1397
Bemidji (MN0786)

1874
Radium (MN0663)

1943
Roscommon (MI0422)

1975
Oylen (MN0529)



Soil Name and Map Symbol

46 Borup (MN0051)	651 Thiefriever (MN0412)
59 Grimstad (MN0083)	652 Wyandotte (MN0404)
64 Ulen (MN0037)	712 Rosewood (MN0414)
65 Foxhome (MN0133)	713 Linveldt (MN0405)
66 Flaming (MN0068)	1006 Fluvaquents (NE0509)
148 Poppleton (MN0131)	1808 Markey (MI0387)
205 Karlstad (MN0046)	1882 Rosewood (MN0427)
245B Lohnes (ND0115)	
280 Pelan (MN0120)	
372 Hamar (SD0141)	
412 Mavie (MN0134)	
426 Foldahl (MN0116)	
432 Strandquist (MN0122)	
435 Syrene (MN0132)	
439 Rockwell (MN0054)	
481 Kratka (MN0072)	
547 Deerwood (MN0018)	
643 Grimstad Variant (MN0426)	
645 Espelie (MN0406)	
647 Hilaire (MN0401)	



Soil Name and Map Symbol

12B Emmert (MN0193)	169C Braham (MN0234)
12D Emmert (MN0193)	170 Blomford (MN0239)
12F Emmert (MN0193)	186 Nemadji (MN0169)
119A Pomroy (MN0279)	188A Omega (MN0170)
119B Pomroy (MN0279)	188B Omega (MN0170)
119C Pomroy (MN0279)	188C Omega (MN0170)
119D Pomroy (MN0279)	188D Omega (MN0170)
155A Chetek (WI0120)	188E Omega (MN0170)
155B Chetek (WI0120)	202 Meehan (WI0255)
155C Chetek (WI0120)	207B Nymore (MN0214)
155D Chetek (WI0120)	207C Nymore (MN0214)
155E Chetek (WI0120)	217 Nokasippi (MN0275)
158A Zimmerman (MN0252)	218 Watab (MN0284)
158B Zimmerman (MN0252)	265 Soderville (MN0206)
158C Zimmerman (MN0252)	268A Cromwell (MN0191)
159A Anoka (MN0215)	268B Cromwell (MN0191)
161 Isanti (MN0196)	268C Cromwell (MN0191)
162 Lino (MN0251)	274 Newson (WI0100)
169A Braham (MN0234)	328A Sartell (MN0204)
169B Braham (MN0234)	



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328B
Sartell (MN0204)

328C
Sartell (MN0204)

328D
Sartell (MN0204)

328E
Sartell (MN0204)

355A
Cloquet (MN0179)

355B
Cloquet (MN0179)

355C
Cloquet (MN0179)

355D
Cloquet (MN0179)

355E
Cloquet (MN0179)

454B
Mahtomedi (MN0246)

454D
Mahtomedi (MN0246)

454F
Mahtomedi (MN0246)

458A
Menahga (MN0057)

458B
Menahga (MN0057)

458C
Menahga (MN0057)

458D
Menahga (MN0057)

458E
Menahga (MN0057)

458F
Menahga (MN0057)

481
Kratka (MN0072)

872
Winterfield (MI0263)

949B
Chetek (WI0120)

949C
Chetek (WI0120)

949D
Chetek (WI0120)

949E
Chetek (WI0120)

949F
Chetek (WI0120)

975B
Omega (MN0170)

975C
Omega (MN0170)

975D
Omega (MN0170)

975E
Omega (MN0170)

1068
Caryville (WI0118)

1070B
Plainbo (WI0110)

1070C
Plainbo (WI0110)

1070E
Plainbo (WI0110)

1076

1943
Roscommon (MI0159)



Soil Name and Map Symbol

- BxD
Sioux (SD0425)
- BxE
Sioux (SD0425)
- ReA
Renshaw (SD0142)
- ReB
Renshaw (SD0142)
- ReC
Renshaw (SD0142)
- ReD
Renshaw (SD0142)
- RnB2
Renshaw (SD0142)
- RnC2
Renshaw (SD0142)
- SoE
Sioux (SD0425)
- SwB
Sverdrup (MN0078)



Soil Name and Map Symbol

45B Maddock (ND0012)	412 Mavie (MN0134)
45C Maddock (ND0012)	426 Foldahl (MN0116)
45D Maddock (ND0012)	435 Syrene (MN0132)
46 Borup (MN0051)	481 Kratka (MN0072)
59 Grimstad (MN0083)	547 Deerwood (MN0018)
64 Ulen (MN0037)	563 Northwood (MN0486)
65 Foxhome (MN0133)	573D Serden (ND0070)
66 Flaming (MN0068)	645 Espelie (MN0406)
111 Hangaard (MN0130)	647 Hilaire (MN0401)
242B Marquette (MN0047)	651 Thiefriver (MN0412)
242D Marquette (MN0047)	704 Wyrene (ND0153)
258B Sandberg (MN0619)	712 Rosewood (MN0414)
258C Sandberg (MN0619)	713 Linveldt (MN0405)
258D Sandberg (MN0619)	1076 Bowstring (MN0336)
332B Sugarbush (MN0425)	Kratka Depressional (MN0419)
332C Sugarbush (MN0425)	1966 Hamar Depressional (SD0141)
332E Sugarbush (MN0425)	45 Maddock (ND0012)
341B Arvilla (ND0007)	45B Maddock (ND0012)
372 Hamar (SD0141)	59 Grimstad (MN0083)
384 Percy (MN0240)	



Soil Name and Map Symbol

As Arveson (MN0050)	SdB Salida (MN0062)
BdB2 Renshaw (SD0142)	SdC2 Salida (MN0062)
BdC Renshaw (SD0142)	SeF Salida (MN0062)
DcA Dickinson (IA0078)	SIB Sioux (MN0619)
DcB Dickinson (IA0078)	SIC2 Sioux (MN0619)
EvA Estherville (MN0025)	SoF Sioux (MN0619)
EvB Estherville (MN0025)	SyB2 Sverdrup (MN0078)
EvC2 Estherville (MN0025)	SyC2 Sverdrup (MN0078)
Hc Hamar (SD0141)	SzA Sverdrup (MN0078)
Hv Hecla (SD0134)	
LoD2 Sioux (MN0619)	
MbC Maddock (ND0012)	
MbE Maddock (ND0012)	
MdA Maddock (ND0192)	
MdB Maddock (ND0192)	
Os Osakis (MN0278)	
ReA Renshaw (SD0142)	
ReB Renshaw (SD0142)	
ReC2 Renshaw (SD0142)	



Soil Name and Map Symbol

64 Ulen (MN0037)	645 Espelie (MN0406)
65 Foxhome (MN0133)	651 Thiefriever (MN0412)
66 Flaming (MN0068)	712 Rosewood (MN0414)
111 Hangaard (MN0130)	713 Linveltdt (MN0405)
116 Redby (MN0005)	987 Rockwell (MN0360)
117 Cormant (MN0002)	Kratka (MN0419)
145 Enstrom (MN0019)	1874 Lohnes (ND0225)
148 Popleton (MN0131)	1966 Rosewood (SD0141)
245B Lohnes (ND0115)	Hamar (MN0427)
372 Hamar (SD0141)	
412 Mavie (MN0134)	
426 Foldahl (MN0116)	
432 Strandquist (MN0122)	
433 Syrene (MN0363)	
435 Syrene (MN0132)	
439 Rockwell (MN0054)	
481 Kratka (MN0072)	
482 Grygla (MN0020)	
547 Deerwood (MN0018)	
563 Northwood (MN0486)	



Soil Name and Map Symbol

41A
Estherville (MN0025)

41B
Estherville (MN0025)

42C
Salida (MN0062)

42E
Salida (MN0062)

327A
Dickman (MN0105)

327B
Dickman (MN0105)

818
Estherville (MN0025)

882
Zumbro (MN0210)

883
Zumbro (MN0210)

992E
Copaston (MN0058)

999B2
Estherville (MN0025)

999C2
Estherville (MN0025)

999D2
Estherville (MN0025)



Soil Name and Map Symbol

41A
Estherville (MN0025)

41B
Estherville (MN0025)

327A
Dickman (MN0105)

327B
Dickman (MN0105)

327C
Dickman (MN0105)

875C
Hawick (MN0354)

Estherville (MN0025)

920B
Hawick (MN0354)

920C2
Hawick (MN0354)

999B
Hawick (MN0354)

9909C2
Hawick (MN0354)

1261B
Bechyn (MN0???)

1270D
Bechyn (MN0???)



Soil Name and Map Symbol

41B
Estherville (MN0025)

81B
Boone (WI0109)

81D
Boone (WI0109)

81E
Boone (WI0109)

100A
Copaston (MN0058)

411B
Waukegan (MN0129)

463A
Minneiska (MN0288)

611D
Hawick (MN0354)

849B
Estherville (MN0025)

875B
Hawick (MN0354)

Estherville (MN0025)

875C
Hawick (MN0354)

Estherville (MN0025)

1030
Udipsamments (MN0712)

1411B
Estherville (MN0025)



Soil Name and Map Symbol

42B
Salida (MN0062)

42D
Salida (MN0062)

327B
Dickman (MN0105)

327C
Dickman (MN0105)

443
Ihlen Variant (MN0480)



Soil Name and Map Symbol

46
Borup (MN0051)

48B
Hiwood (MN0004)

59
Grimstad (MN0083)

64
Ulen (MN0037)

65
Foxhome (MN0133)

116
Redby (MN0005)

117
Cormant (MN0002)

145
Enstrom (MN0019)

191
Epoufette (MI0206)

245B
Lohnes (ND0115)

280
Pelan (MN0120)

412
Mavie (MN0134)

426
Foldahl (MN0116)

432
Strandquist (MN0122)

435
Syrene (MN0132)

481
Kratka (MN0072)

482
Grygla (MN0020)

547
Deerwood (MN0018)

645
Espelie (MN0406)

647
Hilaire (MN0401)

651
Thiefriever (MN0412)

712
Rosewood (MN0414)

794
Faunce Variant (MN0260)

1874
Lohnes (ND0225)

1984
Leafriever (MN0530)



Soil Name and Map Symbol

12B Emmert (MN0193)	872B Winterfield (MI0263)
12D Emmert (MN0193)	952C Quetico (MN0202)
12E Emmert (MN0193)	952E Quetico (MN0202)
48B Hiwood (MN0004)	1972B Cromwell (MN0191)
116 Redby (MN0005)	1972D Cromwell (MN0191)
188B Omega (MN0170)	1986 Leafriver (MN0531)
202 Meehan (WI0255)	1987 Grygla (MN0020)
268B Cromwell (MN0191)	1988C Insula (MN0195)
274 Newson (WI0100)	1988E Insula (MN0195)
328B Sartell (MN0204)	1989B Hiwood (MN0004)
355B Cloquet (MN0179)	Leafriver (MN0531)
355D Cloquet (MN0179)	Redby (MN0005)
355E Cloquet (MN0179)	
458B Menahga (MN0057)	
458D Menahga (MN0057)	
458E Menahga (MN0057)	
620B Cutaway (MN0346)	
625 Sandwick (MN0348)	
656B Thistledew (MN0382)	



Soil Name and Map Symbol

Ba Rushlake (MN0606)	EaC2 Estherville (MN0025)
Bb Belleville (MI0054)	EbB Salida (MN0062)
BdB Mahtomedi (MN0246)	EbB2 Salida (MN0062)
BdC Mahtomedi (MN0246)	EbC Salida (MN0062)
BdC2 Mahtomedi (MN0246)	EbC2 Salida (MN0062)
BdD Mahtomedi (MN0246)	HdA Sparta (WI0041)
BdD2 Mahtomedi (MN0246)	HdB Sparta (WI0041)
BdE2 Mahtomedi (MN0246)	HdB2 Sparta (WI0041)
BdF Mahtomedi (MN0246)	HdC Sparta (WI0041)
BeD3 Smahtomedi (MN0246)	HdC2 Sparta (WI0041)
BeE3 Mahtomedi (MN0246)	HeA Sparta (WI0041)
DbA Dickman (MN0105)	HeB Sparta (WI0041)
DbB Dickman (MN0105)	HeB2 Sparta (WI0041)
DbB2 Dickman (MN0105)	HeC Sparta (WI0041)
DbC2 Dickman (MN0105)	HeC2 Sparta (WI0041)
De Duelm (MN0566)	LaB Estherville (MN0025)
EaA Estherville (MN0025)	LaB2 Estherville (MN0025)
EaB Estherville (MN0025)	LaC Estherville (MN0025)
EaB2 Estherville (MN0025)	LaC2 Estherville (MN0025)
EaC Estherville (MN0025)	LaD Estherville (MN0025)



Minnesota Pollution Control Agency

LaD2
Estherville (MN0025)

LbB
Estherville (MN0025)

Burnsville (MN0240)

LbB2
Estherville (MN0025)

Burnsville (MN0240)

LbC
Estherville (MN0025)

Burnsville (MN0240)

LbC2
Estherville (MN0025)

Burnsville (MN0240)

LbD
Estherville (MN0025)

Burnsville (MN0240)

ZaA
Sartell (MN0204)

ZaA2
Sartell (MN0204)

ZaB
Sartell (MN0204)

ZaB2
Sartell (MN0204)

ZaC2
Sartell (MN0204)



Soil Name and Map Symbol

7A Hubbard (MN0162)	454C Mahtomedi (MN0246)
7B Hubbard (MN0162)	565 Eckvoll (MN0415)
7C Hubbard (MN0162)	567 Verndale (MN0520)
158A Zimmerman (MN0252)	623B Pierz (MN0519)
158B Zimmerman (MN0252)	708 Rushlake (MN0606)
158C Zimmerman (MN0252)	730A Sanburn (MN0642)
158E Zimmerman (MN0252)	730B Sanburn (MN0642)
161 Isanti (MN0651)	732B Bushville (MN0637)
162 Lino (MN0251)	768 Mosford (MN0701)
169B Braham (MN0234)	1015 Udipsamments (MN0712)
169C Braham (MN0234)	1109 Isanti (MN0196)
169D Braham (MN0234)	1110 Isan (MN0528)
258B Sandberg (MN0619)	1223 Sandberg (MN0619)
258C Sandberg (MN0619)	Arvilla (ND0007)
258E Sandberg (MN0619)	1224 Hubbard (MN0162) Verndale (MN0520)
260 Duelm (MN0192)	1231 Hubbard (MN0162)
261 Isan (MN0269)	Mosford (MN0701)
341 Arvilla (ND0007)	1253B Stonelake (MN0707)
373 Renshaw (SD0142)	Sanburn (MN0642)
454B Mahtomedi (MN0246)	1253C Stonelake (MN0707) Sanburn (MN0642)



1253E
Stonelake (MN0707)

Sanburn (MN0642)

1254
Ricelake (MN0715)

1256
Cantlin (MN0738)

Mosford (MN0735)

1258B
Zimmerman (MN0734)

1258C
Zimmerman (MN0734)

1258E
Zimmerman (MN0734)

1260B
Stonelake (MN0707)

1260C
Stonelake (MN0707)

1260E
Stonelake (MN0707)

1946
Winterfield (MI0263)



Soil Name and Map Symbol

920B
Hawick (MN0354)

920C2
Hawick (MN0354)

944B
Hawick (MN0354)

944C2
Hawick (MN0354)

1081
Abscota (MI0082)



Soil Name and Map Symbol

7A Hubbard (MN0162)	327B Dickman (MN0105)
7B Hubbard (MN0162)	406B Dorset (MN0263)
7C Hubbard (MN0162)	406C Dorset (MN0263)
41A Estherville (MN0025)	406E Dorset (MN0263)
41B Estherville (MN0025)	413 Osakis (MN0278)
41C Estherville (MN0025)	453C Demontreville (MN0242)
69B Fedji (MN0010)	454B Mahtomedi (MN0246)
1015 Psammets (MN0712)	454C Mahtomedi (MN0246)
119B Bushville (MN0637)	454E Mahtomedi (MN0246)
155B Chetek (WI0120)	454F Mahtomedi (MN0246)
179B Langola (MN0271)	565 Eckvoll (MN0415)
1843C Demontreville (MN0242)	566 Regal (MN0352)
1843E Demontreville (MN0242)	572 Lowlein (MN0392)
207B Nymore (MN0214)	611C Hawick (MN0354)
207C Nymore (MN0214)	611D Hawick (MN0354)
207E Nymore (MN0214)	804D Estherville (MN0025)
218 Watab (MN0284)	848 Osakis (MN0278)
260 Duelm (MN0192)	865B Hubbard (MN0162)
261 Isan (MN0269)	875B Estherville (MN0025)
327A Dickman (MN0105)	



Minnesota Pollution Control Agency

Hawick (MN0354)

999B
Estherville (MN0025)

999C
Estherville (MN0025)

999D
Estherville (MN0025)



Soil Name and Map Symbol

BIB2 Bixby (MN0123)	LcB Lamont (IA0080)
BIC2 Bixby (MN0123)	LcC Lamont (IA0080)
BID2 Bixby (MN0123)	LcD Lamont (IA0080)
Chd Chelsea (IA0119)	LmB2 Estherville (MN0025)
DtA Dickinson (IA0078)	LmD2 Estherville (MN0025)
DtB Dickinson (IA0078)	SaE Salida (MN0062)
EaA Estherville (MN0025)	SkB Sparta (WI0041)
EaB Estherville (MN0025)	Dickinson (IA0078)
EaC Estherville (MN0025)	SkC Sparta (WI0041)
EaD Estherville (MN0025)	Dickinson (IA0078)
Hk Hanska (MN0028)	SkE Sparta (WI0041)
	Dickinson (IA0078)



Soil Name and Map Symbol

Cu
Borup (MN0051)

Gr
Grimstad (MN0083)

Rockwell (MN0054)

MaB
Maddock (ND0192)

Mc
Grimstad (MN0083)

MfA
Malachy (MN0173)

ReA
Renshaw (SD0142)

ReB
Renshaw (SD0142)

SgC
Lohnes (MN0619)

SsA
Lohnes (MN0619)

SsB
Lohnes (MN0619)



Soil Name and Map Symbol

Av Arveson (MN0050)	SsB Sioux (SD0052)
Be Benoit (MN0132)	SsC Sioux (SD0052)
CIA Clontarf (MN0262)	SsE Sioux (SD0052)
Fs Fossum (MN0102)	SxA Sverdrup (MN0078)
Ha Hamar (SD0141)	SxB Sverdrup (MN0078)
Hc Hamar (SD0141)	Ve Venlo (ND0162)
HvA Hecla (SD0134)	
MbA Maddock Variant (MN0116)	
McA Maddock (ND0012)	
McB Maddock (ND0012)	
McD Maddock (ND0012)	
MdB Maddock (ND0192)	
Mk Maddock (ND0012)	
MnA Malachy Variant (MN0083)	
ReA Renshaw (SD0142)	
ReB Renshaw (SD0142)	
ReC2 Renshaw (SD0142)	
RhB Renshaw (SD0142)	
Rk Renshaw (SD0142)	
SsA Sioux (SD0052)	



Soil Name and Map Symbol

7A Hubbard (MN0162)	402C Sioux (SD0425)
7B Hubbard (MN0162)	402E Sioux (SD0425)
82B Redeye (MN0494)	406B Dorset (MN0263)
82C Redeye (MN0494)	406C Dorset (MN0263)
111 Hangaard (MN0130)	413 Osakis (MN0278)
139B Huntersville (MN0493)	453B Demontreville (MN0242)
158B Zimmerman (MN0252)	453C Demontreville (MN0242)
158C Zimmerman (MN0252)	454B Mahtomedi (MN0246)
169B Braham (MN0234)	454C Mahtomedi (MN0246)
170 Blomford (MN0239)	454E Mahtomedi (MN0246)
202 Meehan (WI0255)	458B Menahga (MN0057)
207B Nymore (MN0214)	458C Menahga (MN0057)
207C Nymore (MN0214)	458E Menahga (MN0057)
260 Duelm (MN0192)	565 Eckvoll (MN0415)
261 Isan (MN0269)	572 Lowlein (MN0392)
341A Arvilla (ND0007)	800B Dorset (MN0263)
341B Arvilla (ND0007)	800C Dorset (MN0263)
341C Arvilla (ND0007)	800E Dorset (MN0263)



Minnesota Pollution Control Agency

823
Hangaard (MN0130)

Sioux (SD0425)

824C
Dorset (MN0263)

Sioux (SD0052)

824E
Dorset (MN0263)

Sioux (SD0425)

928B
Demontreville (MN0242)

Mahtomedi (MN0246)

928C
Demontreville (MN0242)

Mahtomedi (MN0246)

928E
Demontreville (MN0242)

Mahtomedi (MN0246)

1926
Bowstring (MN0336)

1943
Roscommon (MI0159)

1956
Staples (MN0509)



Soil Name and Map Symbol

245B
Lohnes (ND0115)



Soil Name and Map Symbol

BfE
Boone (WI0109)

BhB
Boone (WI0109)

Chelsea (IA0119)

BhC
Boone (WI0109)

Chelsea (IA0119)

BhD
Boone (WI0109)

Chelsea (IA0119)

BkA
Burkhardt (WI0050)

BkB2
Burkhardt (WI0050)

BrB
Burkhardt (WI0050)

BtA
Burkhardt (WI0050)

BtB
Burkhardt (WI0050)

BtB2
Burkhardt (WI0050)

BtC2
Burkhardt (WI0050)

PaA
Plainfield (WI0116)

PaB
Plainfield (WI0116)

PaC
Plainfield (WI0116)

SpA
Sparta (WI0041)

SpB
Sparta (WI0041)

Ts
Plainfield (WI0116)

Zb
Zumbro (MN0210)



Soil Name and Map Symbol

82B
Redeye (MN0494)

82C
Redeye (MN0494)

126
Graycalm (MI0180)

139B
Huntersville (MN0493)

207A
Nymore (MN0214)

207B
Nymore (MN0214)

207C
Nymore (MN0214)

260
Duelm (MN0192)

261
Isan (MN0528)

406A
Dorset (MN0263)

406B
Dorset (MN0263)

454B
Mahtomedi (MN0246)

458A
Menahga (MN0057)

458B
Menahga (MN0057)

458C
Menahga (MN0057)

458E
Menahga (MN0057)

567A
Verndale (MN0520)

567B
Verndale (MN0520)

834
Friendship (WI0028)

Meehan (WI0255)

1941
Ewart (MI0226)

1943
Roscommon (MI0422)

1956
Staples (MN0509)

1957B
Friendship (WI0460)

1968
Ewart (MI0226)

1969
Ewart (MI0226)

Isan (MN0528)

1970B
Menahga (MN0526)

1975
Oylen (MN0529)

1984
Leafriver (MN0530)



Soil Name and Map Symbol

CrB2
Estherville (MN0025)

EaB
Estherville (MN0025)

EaC2
Estherville (MN0025)

EoE2
Estherville (MN0025)

EsC2
Estherville (MN0025)

EsD2
Estherville (MN0025)

LhB2
Estherville (MN0025)



Soil Name and Map Symbol

7B Hubbard (MN0162)	169B Braham (MN0234)
7C Hubbard (MN0162)	169C Braham (MN0234)
7D Hubbard (MN0162)	170 Blomford (MN0239)
8 Sparta (WI0041)	177B Gotham (WI0056)
8B Sparta (WI0041)	177C Gotham (WI0056)
8C Sparta (WI0041)	177D Gotham (WI0056)
12C Emmert (MN0193)	265 Soderville (MN0206)
12D Emmert (MN0193)	327 Dickman (MN0105)
100B Copaston (MN0058)	327B Dickman (MN0105)
100C Copaston (MN0058)	327C Dickman (MN0105)
151 Burkhardt (WI0050)	453B De Montreville (MN0242)
151B Burkhardt (WI0050)	453C De Montreville (MN0242)
155B Chetek (WI0120)	453D De Montreville (MN0242)
155C Chetek (WI0120)	454B Mahtomedi (MN0246)
155D Chetek (WI0120)	454C Mahtomedi (MN0246)
158B Zimmerman (MN0252)	454D Mahtomedi (MN0246)
158C Zimmerman (MN0252)	454F Mahtomedi (MN0246)
158D Zimmerman (MN0252)	481 Kratka (MN0072)
161 Isanti (MN0651)	852B Copaston (MN0058)
162 Lino (MN0251)	858 Chetek (WI0120)



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858C
Chetek (WI0120)

859B
Zimmerman (MN0252)

863
Lino (MN0251)

896C
Mahtomedi (MN0246)

896D
Mahtomedi (MN0246)

896F
Mahtomedi (MN0246)

1813B
Lino Variant (MN0245)

1820F
Mahtomedi Variant (MN0306)*

1821
Alganssee (MI0123)

1827
Waukegan Variant (MN0307)

1827B
Waukegan Variant (MN0307)

1848B
Sparta (WI0333)



Soil Name and Map Symbol

8B
Sparta (WI0041)

41B
Estherville (MN0025)

69B
Fedji (MN0010)

327A
Dickman (MN0105)

327B
Dickman (MN0105)

920B2
Estherville (MN0025)

920C2
Estherville (MN0025)

999B2
Estherville (MN0025)

1931
Essexville (MI0421)



Soil Name and Map Symbol

59 Grimstad (MN0083)	547 Deerwood (MN0018)
63 Rockwell (MN0054)	645 Espelie (MN0406)
64 Ulen (MN0037)	647 Hilaire (MN0401)
65 Foxhome (MN0133)	987 Rockwell (MN0360)
66 Flaming (MN0068)	1874 Lohnes (ND0225)
71 Fossum (MN0102)	1921 Foldahl (MN0116)
245B Lohnes (ND0115)	1971 Divide (ND0011)
402B Sioux (SD0052)	
413 Osakis (MN0278)	
426 Foldahl (MN0116)	
435 Syrene (MN0132)	



Soil Name and Map Symbol

81B
Boone (WI0109)

81C
Boone (WI0109)

283B
Plainfield (WI0116)

283C
Plainfield (WI0116)

283D
Plainfield (WI0116)

283F
Plainfield (WI0116)

830D
Eleva (WI0475)

831F
Spinks (MI0450)

Boone (WI0109)

840
Finchford (IA0006)

898F
Bellechester (MN0217)

1951B
Flagler (IA0358)

1954B
Spinks (MI0450)

1954C
Spinks (MI0450)



Soil Name and Map Symbol

7A Hubbard (MN0162)	804C2 Hawick (MN0354)
7B Hubbard (MN0162)	
7C Hubbard (MN0162)	804D2 Hawick (MN0354)
8B Sparta (WI0041)	804E Hawick (MN0354)
158A Zimmerman (MN0252)	875B Estherville (MN0025)
158B Zimmerman (MN0252)	Hawick (MN0354)
158C Zimmerman (MN0252)	875C Hawick (MN0354)
158E Zimmerman (MN0252)	Estherville (MN0025)
169C Braham (MN0234)	896B Gotham (WI0056)
258C Sandberg (MN0619)	896C Gotham (WI0056)
258E Sandberg (MN0619)	1000 Arvilla (ND0007)
260 Duelm (MN0192)	1015 Udipsamments (MN0712)
261 Isan (MN0269)	1023C Malardi (MN0836)
327A Dickman (MN0105)	1023D Malardi (MN0836)
327B Dickman (MN0105)	1030 Udipsamments (MN0712)
406 Dorset (MN0263)	1035B Crowfork (MN0837)
611D Hawick (MN0354)	1035C Crowfork (MN0837)
708 Rushlake (MN0606)	1035D Crowfork (MN0837)
768 Mosford (MN0701)	1037 Eckvoll (MN0415)
804B Hawick (MN0354)	1038A Verndale (MN0520)
	1038B Verndale (MN0520)



Minnesota Pollution Control Agency

1066B
Malardi (MN0836)

Hawick (MN0354)

1066C
Malardi (MN0836)

Hawick (MN0354)

1066E
Malardi (MN0836)

S (MN0354)

1087B
Malardi (MN0836)

1110
Isan (MN0528)

1196B
Lida (MN0720)

Two Inlets (MN0653)

1196C
Lida (MN0720)

Two Inlets (MN0653)

1196E
Lida (MN0720)

Two Inlets (MN0653)

1220C
Hawick (MN0354)

1223
Sandberg (MN0619)

Arvilla (ND0007)

1224
Hubbard (MN0162)

Verndale (MN0520)

1231
Hubbard (MN0162)

Mosford (MN0701)

1256
Cantlin (MN0738)

1257B
Mosford (MN0735)

1260B
Stonelake (MN0707)

1260C
Stonelake (MN0707)

1260E

Stonelake (MN0707)

1377B
Dorset (MN0263)

Two Inlets (MN0653)

1377C
Dorset (MN0263)

Two Inlets (MN0653)

1377D
Dorset (MN0263)

Two Inlets (MN0653)

1377E
Dorset (MN0263)

Two Inlets (MN0653)

1379B
Dorset (MN0263)

1438B
Braham (MN0900)

1931
Essexville (MI0421)

1942
Forada (MN0499)

1946
Winterfield (MI0263)

1975
Oylen (MN0529)



Soil Name and Map Symbol

127A
Sverdrup (MN0078)

127B
Sverdrup (MN0078)

127C
Sverdrup (MN0078)

341A
Arvilla (ND0007)

341B
Arvilla (ND0007)

341C
Arvilla (ND0007)

402D
Sioux (SD0052)

883
Zumbro (MN0210)

904B2
Arvilla (ND0007)

904C
Arvilla (ND0007)

917D
Sioux (SD0052)

917E
Sioux (SD0052)

923D
Copaston (MN0058)

953C
Arvilla (ND0007)

1867
Zumbro (MN0210)