

SOIL MAP LEGEND
Benson, Eddy, Nelson Counties, North Dakota: Detailed Soil Map Legend

| Map symbol | Soil name |
|------------|--|
| Ab | ABERDEEN LOAM |
| Ae | ABERDEEN-EXLINE LOAMS |
| Ar | ARVESON SANDY LOAM |
| As | ARVILLA SANDY LOAM |
| AtA | ARVILLA SANDY LOAM, GRAVELLY SUBSTRATUM, 0 TO 3 PERCENT SLOPES |
| AtB | ARVILLA SANDY LOAM, GRAVELLY SUBSTRATUM, 3 TO 6 PERCENT SLOPES |
| AvA | ARVILLA SANDY LOAM, SANDY SUBSTRATUM, 0 TO 3 PERCENT SL OPES |
| AvB | ARVILLA SANDY LOAM, SANDY SUBSTRATUM, 3 TO 6 PERCENT SL OPES |
| AxC | ARVILLA-SIOUX SANDY LOAMS, 6 TO 9 PERCENT SLOPES |
| BaA | BARNES LOAM, 0 TO 3 PERCENT SLOPES |
| BaB | BARNES LOAM, 3 TO 6 PERCENT SLOPES |
| BaC | BARNES LOAM, 6 TO 9 PERCENT SLOPES |
| BbA | BARNES-SVEA LOAMS, 0 TO 3 PERCENT SLOPES |
| BbB | BARNES-SVEA LOAMS, 3 TO 6 PERCENT SLOPES |
| BcB | BARNES-SVEA STONY LOAMS, 3 TO 6 PERCENT SLOPES |
| BdC | BARNES-SVEA-BUSE LOAMS, 6 TO 9 PERCENT SLOPES |
| BeC | BARNES-SVEA-BUSE STONY LOAMS, 6 TO 9 PERCENT SLOPES |
| Bg | BEARDEN SILT LOAM, SALINE |
| Bh | BINFORD SANDY LOAM |
| BkA | BINFORD SANDY LOAM, GRAVELLY SUBSTRATUM, 0 TO 3 PERCENT SLOPES |
| BkB | BINFORD SANDY LOAM, GRAVELLY SUBSTRATUM, 3 TO 6 PERCENT SLOPES |
| BlA | BINFORD SANDY LOAM, SANDY SUBSTRATUM, 0 TO 3 PERCENT SL OPES |
| BlB | BINFORD SANDY LOAM, SANDY SUBSTRATUM, 3 TO 6 PERCENT SL OPES |
| BmC | BINFORD-COE SANDY LOAMS, 6 TO 9 PERCENT SLOPES |
| BmD | BINFORD-COE SANDY LOAMS, 9 TO 12 PERCENT SLOPES |
| Bn | BORUP SILT LOAM |
| Bo | BORUP AND MARYSLAND SILT LOAMS, VERY WET |
| BpB | BORUP AND VALLERS LOAMS, 3 TO 6 PERCENT SLOPES |
| BrB | BRANTFORD LOAM, 3 TO 6 PERCENT SLOPES |
| BsA | BRANTFORD LOAM, GRAVELLY SUBSTRATUM, 0 TO 3 PERCENT SLO PES |
| BsB | BRANTFORD LOAM, GRAVELLY SUBSTRATUM, 3 TO 6 PERCENT SLO PES |
| BtA | BRANTFORD LOAM, SANDY SUBSTRATUM, 0 TO 3 PERCENT SLOPES |
| BtB | BRANTFORD LOAM, SANDY SUBSTRATUM, 3 TO 6 PERCENT SLOPES |
| BuC | BRANTFORD-COE LOAMS, 6 TO 9 PERCENT SLOPES |
| Bv | BRANTFORD-KENSAL LOAMS |
| BwE | BUSE-BARNES LOAMS, 9 TO 30 PERCENT SLOPES |
| BxD | BUSE-EDGELEY LOAMS, 9 TO 30 PERCENT SLOPES |
| ByE | BUSE AND KLOTEN LOAMS, 6 TO 25 PERCENT SLOPES |
| BzD | BUSE, SIOUX, AND ZELL SOILS, 3 TO 30 PERCENT SLOPES |
| Ca | CATHAY LOAM |
| ChA | CATHAY-HEIMDAL LOAMS, 0 TO 3 PERCENT SLOPES |
| ChB | CATHAY-HEIMDAL LOAMS, 3 TO 6 PERCENT SLOPES |
| Cm | CATHAY-LARSON LOAMS |
| Cn | CAVOUR-CRESBARD LOAMS |
| Co | CAVOUR AND VALLERS STONY CLAY LOAMS |
| CpB | CAVOUR CLAY LOAM, SHALY VARIANT, 3 TO 6 PERCENT SLOPES |
| CrA | CLAIRE LOAMY COARSE SAND, 0 TO 3 PERCENT SLOPES |
| CrB | CLAIRE LOAMY COARSE SAND, 3 TO 6 PERCENT SLOPES |
| Cs | CLAIRE COARSE SANDY LOAM |
| Ct | CLAIRE-LOHNES-HAMAR LOAMY COARSE SANDS |
| Cu | CLONTARF SANDY LOAM |
| CvB | COE SANDY LOAM, 0 TO 6 PERCENT SLOPES |
| CvD | COE SANDY LOAM, 6 TO 25 PERCENT SLOPES |
| Cw | COLVIN SILTY CLAY LOAM |
| Cx | COLVIN SILTY CLAY LOAM, SALINE |
| Cy | COLVIN SILTY CLAY LOAM, VERY WET |
| Cz | CRESBARD-CAVOUR LOAMS |
| DvA | DIVIDE LOAM, 0 TO 3 PERCENT SLOPES |
| DvB | DIVIDE LOAM, 3 TO 6 PERCENT SLOPES |
| Dx | DIVIDE LOAM, GRAVELLY SUBSTRATUM |
| Dy | DIVIDE LOAM, SANDY SUBSTRATUM |
| Dz | DIVIDE LOAM, TILL SUBSTRATUM |
| EaA | ECKMAN LOAM, 0 TO 3 PERCENT SLOPES |
| EaB | ECKMAN LOAM, 3 TO 8 PERCENT SLOPES |
| Eb | EDGELEY LOAM |
| EcB | EDGELEY AND CAVOUR LOAMS, 3 TO 6 PERCENT SLOPES |
| Ed | EDGELEY LOAM, GRAVELLY VARIANT |
| EeA | EGELAND SANDY LOAM, 0 TO 3 PERCENT SLOPES |
| EeC | EGELAND SANDY LOAM, 6 TO 12 PERCENT SLOPES |
| Eg | EGELAND SANDY LOAM, SANDY SUBSTRATUM |
| EhA | EGELAND FINE SANDY LOAM, TILL SUBSTRATUM, 0 TO 3 PERCENT SLOPES |
| EhB | EGELAND FINE SANDY LOAM, TILL SUBSTRATUM, 3 TO 6 PERCENT SLOPES |
| EmC | EGELAND-EMBDEN SANDY LOAMS, TILL SUBSTRATUM, 6 TO 9 PERCENT SLOPES |
| EnA | EMBDEN SANDY LOAM, 0 TO 3 PERCENT SLOPES |

SOIL MAP LEGEND--Continued
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| Map symbol | Soil name |
|------------|--|
| EoB | EMBDEN-EGELAND SANDY LOAMS, 3 TO 6 PERCENT SLOPES |
| EsA | EMBDEN, SWENODA, AND HEIMDAL FINE SANDY LOAMS, 0 TO 3 PERCENT SLOPES |
| EsB | EMBDEN, SWENODA, AND HEIMDAL FINE SANDY LOAMS, 3 TO 6 PERCENT SLOPES |
| Et | EMRICK SANDY LOAM |
| Eu | EMRICK LOAM |
| EvD | ESMOND, COE, AND EMBDEN SOILS, 6 TO 25 PERCENT SLOPES |
| Ew | EXLINE LOAM |
| Fa | FARGO AND NUTLEY SILTY CLAY LOAMS |
| Fd | FORDVILLE LOAM |
| Fm | FOSSUM SANDY LOAM |
| Fo | FOSSUM LOAM |
| Fp | FOSSUM AND HAMAR SANDY LOAMS |
| FrA | FRAM LOAM, 0 TO 3 PERCENT SLOPES |
| FrB | FRAM LOAM, 3 TO 6 PERCENT SLOPES |
| Fs | FRAM LOAM, SALINE |
| Fw | FRAM AND WYNDMERE FINE SANDY LOAMS |
| GaA | GARDENA LOAM, 0 TO 3 PERCENT SLOPES |
| GaB | GARDENA LOAM, 3 TO 6 PERCENT SLOPES |
| Gd | GLYNDON LOAM |
| Gp | GRAVEL PIT |
| Ha | HAMAR LOAMY COARSE SAND |
| Hb | HAMAR LOAMY SAND |
| Hc | HAMAR COARSE SANDY LOAM |
| Hd | HAMAR SANDY LOAM |
| HeA | HAMERLY LOAM, 0 TO 3 PERCENT SLOPES |
| HeB | HAMERLY LOAM, 3 TO 6 PERCENT SLOPES |
| Hf | HAMERLY LOAM, SALINE |
| HgA | HAMERLY-SVEA LOAMS, 0 TO 3 PERCENT SLOPES |
| HgB | HAMERLY-SVEA LOAMS, 3 TO 6 PERCENT SLOPES |
| HhA | HECLA LOAMY SAND, 0 TO 3 PERCENT SLOPES |
| HhB | HECLA LOAMY SAND, 3 TO 6 PERCENT SLOPES |
| HkA | HECLA SANDY LOAM, 0 TO 3 PERCENT SLOPES |
| HkB | HECLA SANDY LOAM, 3 TO 6 PERCENT SLOPES |
| Hm | HECLA-HAMAR LOAMY SANDS |
| HnA | HECLA-MADDOCK LOAMY SANDS, 0 TO 3 PERCENT SLOPES |
| HnB | HECLA-MADDOCK LOAMY SANDS, 3 TO 6 PERCENT SLOPES |
| HoA | HEIMDAL SANDY LOAM, 0 TO 3 PERCENT SLOPES |
| HoB | HEIMDAL SANDY LOAM, 3 TO 6 PERCENT SLOPES |
| HoC | HEIMDAL SANDY LOAM, 6 TO 9 PERCENT SLOPES |
| HpA | HEIMDAL LOAM, 0 TO 3 PERCENT SLOPES |
| HpB | HEIMDAL LOAM, 3 TO 6 PERCENT SLOPES |
| HpC | HEIMDAL LOAM, 6 TO 9 PERCENT SLOPES |
| HrD | HEIMDAL-EMBDEN FINE SANDY LOAMS, 9 TO 15 PERCENT SLOPES |
| HrE | HEIMDAL-EMBDEN FINE SANDY LOAMS, 15 TO 25 PERCENT SLOPES |
| HsA | HEIMDAL-EMRICK LOAMS, 0 TO 3 PERCENT SLOPES |
| HsB | HEIMDAL-EMRICK LOAMS, 3 TO 6 PERCENT SLOPES |
| HtC | HEIMDAL-EMRICK-ESMOND LOAMS, 3 TO 9 PERCENT SLOPES |
| HtD | HEIMDAL-EMRICK-ESMOND LOAMS, 9 TO 15 PERCENT SLOPES |
| HtE | HEIMDAL-EMRICK-ESMOND LOAMS, 15 TO 25 PERCENT SLOPES |
| Ke | KENSAL LOAM |
| Kf | KENSAL LOAM, SANDY SUBSTRATUM |
| KoE | KLOTEN LOAM, 9 TO 30 PERCENT SLOPES |
| KsE | KLOTEN, SIOUX, AND EDGELEY SOILS, 12 TO 25 PERCENT SLOPES |
| Kt | KRATKA FINE SANDY LOAM |
| La | LADELLE SILTY CLAY LOAM |
| Lb | LALLIE SILTY CLAY LOAM |
| Le | LAMOURE SILTY CLAY LOAM |
| Lm | LAMOURE SILTY CLAY LOAM, SALINE |
| Ln | LA PRAIRIE SILT LOAM |
| Lp | LA PRAIRIE-LAMOURE COMPLEX |
| Lr | LARSON LOAM |
| Ls | LEMERT SANDY LOAM |
| Lt | LETCHER SANDY LOAM |
| Lu | LETCHER SANDY LOAM, TILL SUBSTRATUM |
| Lv | LOHNES LOAMY COARSE SAND |
| Lw | LOHNES COARSE SANDY LOAM |
| Lx | LUDDEN SILTY CLAY |
| Lz | LUDDEN-LAMOURE COMPLEX |
| MaA | MADDOCK LOAMY SAND, 0 TO 3 PERCENT SLOPES |
| MaB | MADDOCK LOAMY SAND, 3 TO 6 PERCENT SLOPES |
| MaC | MADDOCK LOAMY SAND, 6 TO 9 PERCENT SLOPES |
| MbA | MADDOCK SANDY LOAM, 0 TO 3 PERCENT SLOPES |
| MbB | MADDOCK SANDY LOAM, 3 TO 6 PERCENT SLOPES |
| MbC | MADDOCK SANDY LOAM, 6 TO 9 PERCENT SLOPES |

SOIL MAP LEGEND--Continued
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| Map symbol | Soil name |
|------------|---|
| MdB | MADDOCK-DICKEY SANDY LOAMS, 0 TO 6 PERCENT SLOPES |
| MdC | MADDOCK-DICKEY SANDY LOAMS, 6 TO 9 PERCENT SLOPES |
| MeD | MADDOCK-SERDEN LOAMY FINE SANDS, 9 TO 30 PERCENT SLOPES |
| MfD | MADDOCK-SERDEN-HECLA LOAMY FINE SANDS, 9 TO 25 PERCENT SLOPES |
| Mg | MADE LAND |
| Mh | MARSH |
| Mm | MARYSLAND LOAM |
| Mn | MARYSLAND AND ARVESON LOAMS |
| MwC | MINNEWAUKAN LOAMY FINE SAND, 6 TO 9 PERCENT SLOPES |
| Mx | MIRANDA-CAVOUR CLAY LOAMS |
| Os | OSAKIS SANDY LOAM |
| Ot | OSAKIS SANDY LOAM, GRAVELLY SUBSTRATUM |
| Ou | OSAKIS SANDY LOAM, TILL SUBSTRATUM |
| Ov | OVERLY SILTY CLAY LOAM |
| Pa | PARNELL SILTY CLAY LOAM |
| Pe | PEAT |
| Pr | PERELLA SILTY CLAY LOAM |
| Ra | RAUVILLE SILTY CLAY LOAM |
| ReA | RENSHAW LOAM, 0 TO 3 PERCENT SLOPES |
| ReB | RENSHAW LOAM, 3 TO 6 PERCENT SLOPES |
| Rn | RENSHAW LOAM, GRAVELLY SUBSTRATUM |
| Rs | RENSHAW LOAM, SANDY SUBSTRATUM |
| Rt | RENSHAW LOAM, TILL SUBSTRATUM |
| Ry | RYAN SILTY CLAY LOAM |
| Rz | RYAN AND LAMOURE SILTY CLAY LOAMS |
| Se | SERDEN-HAMAR SANDS |
| SoB | SIOUX GRAVELLY LOAM, 0 TO 6 PERCENT SLOPES |
| SoE | SIOUX GRAVELLY LOAM, 6 TO 25 PERCENT SLOPES |
| Sp | SPOTTSWOOD LOAM |
| Sr | SPOTTSWOOD LOAM, SANDY SUBSTRATUM |
| Ss | STIRUM SANDY LOAM |
| St | SVEA LOAM |
| Su | SVEA LOAM, COBBLY VARIANT |
| SvA | SVEA-BARNES LOAMS, 0 TO 3 PERCENT SLOPES |
| SvB | SVEA-BARNES LOAMS, 3 TO 6 PERCENT SLOPES |
| SwC | SVEA-BUSE-BARNES LOAMS, 6 TO 9 PERCENT SLOPES |
| Sx | SVEA-CRESBARD LOAMS |
| Sz | SWENODA-EMBDEN FINE SANDY LOAMS |
| Tf | TIFFANY SANDY LOAM |
| Tg | TIFFANY FINE SANDY LOAM, TILL SUBSTRATUM |
| Tn | TOLNA LOAM |
| Ts | TOTTEN SANDY LOAM |
| Tu | TOTTEN LOAM, VERY WET |
| Tv | TOTTEN LOAM, TILL SUBSTRATUM |
| TwA | TOWNER FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES |
| TwB | TOWNER FINE SANDY LOAM, 3 TO 6 PERCENT SLOPES |
| Tx | TOWNER-DICKEY FINE SANDY LOAMS |
| Va | VALLERS LOAM |
| Vn | VANG LOAM |
| Vo | VENLO SANDY LOAM |
| W | WATER |
| Wa | WAHPETON SILTY CLAY |
| WbB | WALSH LOAM, 3 TO 6 PERCENT SLOPES |
| WbC | WALSH LOAM, 6 TO 9 PERCENT SLOPES |
| WcA | WALSH CLAY LOAM, 0 TO 3 PERCENT SLOPES |
| WcB | WALSH CLAY LOAM, 3 TO 6 PERCENT SLOPES |
| WcC | WALSH CLAY LOAM, 6 TO 9 PERCENT SLOPES |
| Wd | WALUM SANDY LOAM |
| We | WALUM SANDY LOAM, GRAVELLY SUBSTRATUM |
| Wf | WARSING LOAM |
| Wg | WARSING LOAM, SANDY SUBSTRATUM |
| Wm | WARSING LOAM, TILL SUBSTRATUM |
| Wn | WYARD LOAM |
| Wo | WYNDMERE SANDY LOAM |
| Wp | WYNDMERE SANDY LOAM, TILL SUBSTRATUM |
| Wr | WYRENE SANDY LOAM |
| Ws | WYRENE SANDY LOAM, TILL SUBSTRATUM |
| Wt | WYRENE-TOTTEN SANDY LOAMS |

