

Mellette County, South Dakota
Nontechnical Soil Descriptions

AlC - Altvan Loam, 5 To 9 Percent Slopes

AlC ALTVAN LOAM, 5 TO 9 PERCENT SLOPES - The Altvan series consists of well drained soils that formed in loamy sediments on uplands and alluvial terraces. They are moderately deep to sand or gravelly sand. Permeability is moderate in the solum and very rapid in the underlying material. This soil has low available water capacity and low organic matter content. Flooding is NONE.

Ba - Badland-Imlay Complex, 3 To 40 Percent Slopes

Ba BADLAND-IMLAY COMPLEX, 3 TO 40 PERCENT SLOPES - The Imlay series consists of shallow, well drained soils formed in residuum from siltstone and mudstone on uplands. These soils have moderately slow permeability in the soil material. This soil has very low available water capacity and moderate organic matter content. Flooding is NONE.

Ba BADLAND-IMLAY COMPLEX, 3 TO 40 PERCENT SLOPES - Badland is moderately steep to very steep barren land dissected by many intermittent drainage channels. Ordinarily, the areas are not stony. Badland is most common where streams cut into soft geologic material. This soil has moderate available water capacity and low organic matter content. Flooding is NONE.

Bg - Inavale And Munjor Soils

Bg INAVALE AND MUNJOR SOILS - The Inavale series consists of very deep, excessively drained, rapidly permeable soils. They formed mainly in sandy alluvium on bottom lands. This soil has low available water capacity and low organic matter content. Flooding is FREQ.

Bg INAVALE AND MUNJOR SOILS - The Munjor series consists of deep, well drained or moderately well drained, moderately rapidly permeable soils that formed in loamy alluvium. These soils are on flood plains or terraces. This soil has moderate available water capacity and low organic matter content. Flooding is RARE.

Bk - Barren Badland

Bk BARREN BADLAND - Badland is moderately steep to very steep barren land dissected by many intermittent drainage channels. Ordinarily, the areas are not stony. Badland is most common where streams cut into soft geologic material. This soil has moderate available water capacity and low organic matter content. Flooding is NONE.

Bp - Blackpipe Soils

Bp BLACKPIPE SOILS - The Blackpipe series consists of moderately deep, well drained soils formed in clayey residuum from shale and mudstone on uplands. Permeability is moderately slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

Br - Bigbend Silty Clay Loam

Br BIGBEND SILTY CLAY LOAM - The Bigbend series consists of deep, well drained and moderately well drained soils formed in stratified, calcareous, loamy alluvium on flood plains and low stream terraces. Permeability is moderate. This soil has high available water capacity and moderate organic matter content. Flooding is RARE.

Bs - Wendte Silty Clay Loam, Channeled

Bs WENDTE SILTY CLAY LOAM, CHANNELED - The Wendte series consists of deep, moderately well drained, slowly permeable soils formed in calcareous clayey alluvium. This soil has moderate available water capacity and moderate organic matter content. Flooding is FREQ.

Bt - Hilmoie Silty Clay

Bt HILMOIE SILTY CLAY - The Hilmoie series consists of very deep, well drained and moderately well drained soils formed in calcareous clayey alluvium over loamy alluvium. Permeability is slow. These soils are on flood plains of major streams and rivers. This soil has high available water capacity and moderate organic matter content. Flooding is RARE.

Bu - Wendte Silty Clay, Channeled

Bu WENDTE SILTY CLAY, CHANNELED - The Wendte series consists of deep, moderately well drained, slowly permeable soils formed in calcareous clayey alluvium. This soil has moderate available water capacity and moderate organic matter content. Flooding is FREQ.

Bv - Swanboy Clay

Bv SWANBOY CLAY - The Swanboy series consists of deep, moderately well or well drained soils formed in clay alluvium. Permeability is very slow. This soil has low available water capacity and low organic matter content. Flooding is NONE.

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Non Technical Soil Descriptions--Continued

Bw - Wendte Soils, Channeled

Bw WENDTE SOILS, CHANNELED - The Wendte series consists of deep, moderately well drained, slowly permeable soils formed in calcareous clayey alluvium. This soil has moderate available water capacity and moderate organic matter content. Flooding is FREQ.

Bx - Hilmoe-Minatare Complex

Bx HILMOE-MINATARE COMPLEX - The Hilmoe series consists of very deep, well drained and moderately well drained soils formed in calcareous clayey alluvium over loamy alluvium. Permeability is slow. These soils are on flood plains of major streams and rivers. This soil has high available water capacity and moderate organic matter content. Flooding is RARE.

Bx HILMOE-MINATARE COMPLEX - The Minatare series consists of deep, somewhat poorly drained, very slowly permeable soils. They formed mainly in silty and clayey alluvium on bottom lands. The soil material is strongly or very strongly affected by sodium and commonly by excess soluble salts. This soil has moderate available water capacity and moderate organic matter content. Flooding is RARE.

CaB - Kirley Loam, 2 To 5 Percent Slopes

CaB KIRLEY LOAM, 2 TO 5 PERCENT SLOPES - The Kirley series consists of deep, well drained soils formed in alluvium on terraces. These soils have moderately slow or slow permeability. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

CaC - Kirley Loam, 5 To 9 Percent Slopes

CaC KIRLEY LOAM, 5 TO 9 PERCENT SLOPES - The Kirley series consists of deep, well drained soils formed in alluvium on terraces. These soils have moderately slow or slow permeability. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

Ce - Cedar Butte Association

Ce CEDAR BUTTE ASSOCIATION - The Cedar Butte series consists of deep, well drained soils formed in clay sediments or clayey residuum weathered from shale. Permeability is slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

ClE - Conata-Larvie Clays, 9 To 25 Percent Slopes

ClE CONATA-LARVIE CLAYS, 9 TO 25 PERCENT SLOPES - The Conata series consists of shallow, well drained, very slowly permeable soils formed in vari-colored clayey residuum from mudstone or shale. These soils are on breaks along drainageways near badlands. This soil has very low available water capacity and moderate organic matter content. Flooding is NONE.

ClE CONATA-LARVIE CLAYS, 9 TO 25 PERCENT SLOPES - The Larvie series consists of moderately deep, well drained soils formed in residuum weathered from variegated shale and mudstone on uplands. These soils have very slow permeability. This soil has very low available water capacity and moderate organic matter content. Flooding is NONE.

DsC - Dunday Loamy Fine Sand, 6 To 9 Percent Slopes

DsC DUNDAY LOAMY FINE SAND, 6 TO 9 PERCENT SLOPES - The Dunday series consists of deep, well to excessively drained moderately rapidly or rapidly permeable soils formed in eolian sands. This soil has low available water capacity and low organic matter content. Flooding is NONE.

DtB - Dunday And Anselmo Soils, 0 To 6 Percent Slopes

DtB DUNDAY AND ANSELMO SOILS, 0 TO 6 PERCENT SLOPES - The Dunday series consists of deep, well to excessively drained moderately rapidly or rapidly permeable soils formed in eolian sands. This soil has low available water capacity and low organic matter content. Flooding is NONE.

DtB DUNDAY AND ANSELMO SOILS, 0 TO 6 PERCENT SLOPES - The Anselmo series consists of deep, well drained, moderately rapidly permeable soils formed in loamy and sandy wind-deposited sediments. These soils are on uplands and stream terraces. This soil has high available water capacity and low organic matter content. Flooding is NONE.

DuD - Dunday And Valentine Soils, 9 To 15 Percent Slopes

DuD DUNDAY AND VALENTINE SOILS, 9 TO 15 PERCENT SLOPES - The Dunday series consists of deep, well to excessively drained moderately rapidly or rapidly permeable soils formed in eolian sands. This soil has low available water capacity and low organic matter content. Flooding is NONE.

DuD DUNDAY AND VALENTINE SOILS, 9 TO 15 PERCENT SLOPES - The Valentine series consists of very deep, excessively drained, rapidly permeable soils formed in eolian sands. This soil has low available water capacity and low organic matter content. Flooding is NONE.

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Non Technical Soil Descriptions--Continued

DvA - Duroc And Kadoka Silt Loams, 0 To 2 Percent Slopes

DvA DUROC AND KADOKA SILT LOAMS, 0 TO 2 PERCENT SLOPES - The Duroc series is a member of the fine-silty, mixed, mesic family of Pachic Haplustolls. Typically, Duroc soils have friable granular noncalcareous A horizons, and medium textured calcareous C horizons that contain continuous subhorizons of visible secondary calcium carbonate accumulation. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

DvA DUROC AND KADOKA SILT LOAMS, 0 TO 2 PERCENT SLOPES - The Kadoka series consists of moderately deep, well drained soils formed in silty residuum weathered from siltstone on uplands. Permeability is moderate. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

DvB - Duroc And Kadoka Silt Loams, 2 To 5 Percent Slopes

DvB DUROC AND KADOKA SILT LOAMS, 2 TO 5 PERCENT SLOPES - The Duroc series is a member of the fine-silty, mixed, mesic family of Pachic Haplustolls. Typically, Duroc soils have friable granular noncalcareous A horizons, and medium textured calcareous C horizons that contain continuous subhorizons of visible secondary calcium carbonate accumulation. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

DvB DUROC AND KADOKA SILT LOAMS, 2 TO 5 PERCENT SLOPES - The Kadoka series consists of moderately deep, well drained soils formed in silty residuum weathered from siltstone on uplands. Permeability is moderate. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

EhD - Epping-Huggins Silt Loams, 5 To 15 Percent Slopes

EhD EPPING-HUGGINS SILT LOAMS, 5 TO 15 PERCENT SLOPES - The Epping series consists of shallow, well drained and somewhat excessively drained soils formed in loamy residuum weathered from siltstone on uplands and foot slopes. Permeability is moderate. This soil has low available water capacity and low organic matter content. Flooding is NONE.

EhD EPPING-HUGGINS SILT LOAMS, 5 TO 15 PERCENT SLOPES - The Huggins series consists of moderately deep, well drained soils formed in residuum weathered from siltstone on uplands. Permeability is moderately slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

EhE - Epping-Huggins Silt Loams, 15 To 40 Percent Slopes

EhE EPPING-HUGGINS SILT LOAMS, 15 TO 40 PERCENT SLOPES - The Epping series consists of shallow, well drained and somewhat excessively drained soils formed in loamy residuum weathered from siltstone on uplands and foot slopes. Permeability is moderate. This soil has low available water capacity and low organic matter content. Flooding is NONE.

EhE EPPING-HUGGINS SILT LOAMS, 15 TO 40 PERCENT SLOPES - The Huggins series consists of moderately deep, well drained soils formed in residuum weathered from siltstone on uplands. Permeability is moderately slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

Ge - Munjor Fine Sandy Loam

Ge MUNJOR FINE SANDY LOAM - The Munjor series consists of deep, well drained or moderately well drained, moderately rapidly permeable soils that formed in loamy alluvium. These soils are on flood plains or terraces. This soil has moderate available water capacity and low organic matter content. Flooding is RARE.

Gp - Pits, Gravel

Gp PITS, GRAVEL - Orthents, gravelly consists of areas where gravel has been excavated and removed. Some areas have been smoothed and 8 to 14 inches of loamy overburden has been replaced. This soil has available water capacity and organic matter content. Flooding is NONE.

Ha - Hilmoie Silt Loam

Ha HILMOIE SILT LOAM - The Hilmoie series consists of very deep, well drained and moderately well drained soils formed in calcareous clayey alluvium over loamy alluvium. Permeability is slow. These soils are on flood plains of major streams and rivers. This soil has high available water capacity and moderate organic matter content. Flooding is RARE.

Hc - Interior Silt Loam, Channeled

Hc INTERIOR SILT LOAM, CHANNELED - The Interior series consists of deep, well drained soils formed in sodium enriched alluvium on alluvial fans, foot slopes, and drainageways. Permeability is moderate or moderately slow. This soil has high available water capacity and low organic matter content. Flooding is FREQ.

Mellette County, South Dakota
Non Technical Soil Descriptions--Continued

Hd - Hilmoie Silt Loam

Hd HILMOE SILT LOAM - The Hilmoie series consists of very deep, well drained and moderately well drained soils formed in calcareous clayey alluvium over loamy alluvium. Permeability is slow. These soils are on flood plains of major streams and rivers. This soil has high available water capacity and moderate organic matter content. Flooding is OCCAS.

He - Hilmoie Soils

He HILMOE SOILS - The Hilmoie series consists of very deep, well drained and moderately well drained soils formed in calcareous clayey alluvium over loamy alluvium. Permeability is slow. These soils are on flood plains of major streams and rivers. This soil has high available water capacity and moderate organic matter content. Flooding is OCCAS.

HlD - Hisle And Orella Soils, 0 To 15 Percent Slopes

HlD HISLE AND ORELLA SOILS, 0 TO 15 PERCENT SLOPES - The Hisle series consists of moderately deep, well drained and moderately well drained soils formed in clayey sediments weathered from clay shale on uplands. Permeability is very slow. This soil has very low available water capacity and moderate organic matter content. Flooding is NONE.

HlD HISLE AND ORELLA SOILS, 0 TO 15 PERCENT SLOPES - The Orella series consists of shallow, well drained or moderately well drained soils on uplands. They formed in residuum weathered from claystone or shale. This soil has very low available water capacity and low organic matter content. Flooding is NONE.

HnB - Huggins Silt Loam, 2 To 5 Percent Slopes

HnB HUGGINS SILT LOAM, 2 TO 5 PERCENT SLOPES - The Huggins series consists of moderately deep, well drained soils formed in residuum weathered from siltstone on uplands. Permeability is moderately slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

HnC - Huggins Silt Loam, 5 To 9 Percent Slopes

HnC HUGGINS SILT LOAM, 5 TO 9 PERCENT SLOPES - The Huggins series consists of moderately deep, well drained soils formed in residuum weathered from siltstone on uplands. Permeability is moderately slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

HpD - Huggins-Epping Silt Loams, 5 To 15 Percent Slopes

HpD HUGGINS-EPPING SILT LOAMS, 5 TO 15 PERCENT SLOPES - The Huggins series consists of moderately deep, well drained soils formed in residuum weathered from siltstone on uplands. Permeability is moderately slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

HpD HUGGINS-EPPING SILT LOAMS, 5 TO 15 PERCENT SLOPES - The Epping series consists of shallow, well drained and somewhat excessively drained soils formed in loamy residuum weathered from siltstone on uplands and foot slopes. Permeability is moderate. This soil has low available water capacity and low organic matter content. Flooding is NONE.

HuA - Huggins-Kadoka Silt Loams, 0 To 2 Percent Slopes

HuA HUGGINS-KADOKA SILT LOAMS, 0 TO 2 PERCENT SLOPES - The Huggins series consists of moderately deep, well drained soils formed in residuum weathered from siltstone on uplands. Permeability is moderately slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

HuA HUGGINS-KADOKA SILT LOAMS, 0 TO 2 PERCENT SLOPES - The Kadoka series consists of moderately deep, well drained soils formed in silty residuum weathered from siltstone on uplands. Permeability is moderate. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

HuB - Huggins-Kadoka Silt Loams, 2 To 5 Percent Slopes

HuB HUGGINS-KADOKA SILT LOAMS, 2 TO 5 PERCENT SLOPES - The Huggins series consists of moderately deep, well drained soils formed in residuum weathered from siltstone on uplands. Permeability is moderately slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

HuB HUGGINS-KADOKA SILT LOAMS, 2 TO 5 PERCENT SLOPES - The Kadoka series consists of moderately deep, well drained soils formed in silty residuum weathered from siltstone on uplands. Permeability is moderate. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

Mellette County, South Dakota
Non Technical Soil Descriptions--Continued

HwB - Huggins And Wortman Silt Loams, 2 To 5 Percent Slopes

HwB HUGGINS AND WORTMAN SILT LOAMS, 2 TO 5 PERCENT SLOPES - The Huggins series consists of moderately deep, well drained soils formed in residuum weathered from siltstone on uplands. Permeability is moderately slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

HwB HUGGINS AND WORTMAN SILT LOAMS, 2 TO 5 PERCENT SLOPES - The Wortman series consists of moderately deep, well drained and moderately well drained soils formed in residuum weathered from siltstone on upland fans and flats. Permeability is very slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

Ib - Imlay-Badland Association

Ib IMLAY-BADLAND ASSOCIATION - The Imlay series consists of shallow, well drained soils formed in residuum from siltstone and mudstone on uplands. These soils have moderately slow permeability in the soil material. This soil has very low available water capacity and moderate organic matter content. Flooding is NONE.

Ib IMLAY-BADLAND ASSOCIATION - Badland is moderately steep to very steep barren land dissected by many intermittent drainage channels. Ordinarily, the areas are not stony. Badland is most common where streams cut into soft geologic material. This soil has moderate available water capacity and low organic matter content. Flooding is NONE.

IcD - Imlay And Conata Soils, 6 To 15 Percent Slopes

IcD IMLAY AND CONATA SOILS, 6 TO 15 PERCENT SLOPES - The Imlay series consists of shallow, well drained soils formed in residuum from siltstone and mudstone on uplands. These soils have moderately slow permeability in the soil material. This soil has very low available water capacity and moderate organic matter content. Flooding is NONE.

IcD IMLAY AND CONATA SOILS, 6 TO 15 PERCENT SLOPES - The Conata series consists of shallow, well drained, very slowly permeable soils formed in vari-colored clayey residuum from mudstone or shale. These soils are on breaks along drainageways near badlands. This soil has very low available water capacity and moderate organic matter content. Flooding is NONE.

IcE - Imlay And Conata Soils, 15 To 40 Percent Slopes

IcE IMLAY AND CONATA SOILS, 15 TO 40 PERCENT SLOPES - The Imlay series consists of shallow, well drained soils formed in residuum from siltstone and mudstone on uplands. These soils have moderately slow permeability in the soil material. This soil has very low available water capacity and moderate organic matter content. Flooding is NONE.

IcE IMLAY AND CONATA SOILS, 15 TO 40 PERCENT SLOPES - The Conata series consists of shallow, well drained, very slowly permeable soils formed in vari-colored clayey residuum from mudstone or shale. These soils are on breaks along drainageways near badlands. This soil has very low available water capacity and moderate organic matter content. Flooding is NONE.

InE - Imlay-Norrest Silt Loams, 9 To 25 Percent Slopes

InE IMLAY-NORREST SILT LOAMS, 9 TO 25 PERCENT SLOPES - The Imlay series consists of shallow, well drained soils formed in residuum from siltstone and mudstone on uplands. These soils have moderately slow permeability in the soil material. This soil has very low available water capacity and moderate organic matter content. Flooding is NONE.

InE IMLAY-NORREST SILT LOAMS, 9 TO 25 PERCENT SLOPES - The Norrest series consists of moderately deep, well drained soils formed in weathered from siltstone or soft shale on uplands. These soils have moderately slow permeability. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

Ka - Kadoka-Kube Silt Loams

Ka KADOKA-KUBE SILT LOAMS - The Kadoka series consists of moderately deep, well drained soils formed in silty residuum weathered from siltstone on uplands. Permeability is moderate. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

Ka KADOKA-KUBE SILT LOAMS - The Kube series consists of moderately well or well drained soils formed in silty residuum weathered from siltstone on uplands. These soils have moderate or moderately slow permeability. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

KeD - Keota-Epping Silt Loams, 9 To 15 Percent Slopes

KeD KEOTA-EPPING SILT LOAMS, 9 TO 15 PERCENT SLOPES - The Keota series consists of moderately deep, well drained soils that formed in calcareous, silty and loamy materials weathered residually or only locally transported from exposures of Brule deposits. Keota soils are on hills and ridges. This soil has low available water capacity and low organic matter content. Flooding is NONE.

KeD KEOTA-EPPING SILT LOAMS, 9 TO 15 PERCENT SLOPES - The Epping series consists of shallow, well drained and somewhat excessively drained soils formed in loamy residuum weathered from siltstone on uplands and foot slopes. Permeability is moderate. This soil has low available water capacity and low organic matter content. Flooding is NONE.

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Non Technical Soil Descriptions--Continued

Kh - Kolls And Hoven Soils

Kh KOLLS AND HOVEN SOILS - The Kolls series consists of very deep, poorly and very poorly drained soils formed in clayey alluvium in upland basins. Permeability is very slow. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

Kh KOLLS AND HOVEN SOILS - The Hoven series consists of very deep, poorly drained soils formed in clayey alluvium in closed basins on uplands. Permeability is very slow. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE. Ponding duration is LONG.

Ky - Kyle Clay

Ky KYLE CLAY - The Kyle series consists of deep, well drained soils formed in sediments weathered from clay shale on uplands. Permeability is very slow. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

LaD - Lakoma-Murdo Complex, 9 To 15 Percent Slopes

LaD LAKOMA-MURDO COMPLEX, 9 TO 15 PERCENT SLOPES - The Lakoma series consists of moderately deep, well drained soils formed in residuum weathered from clay shales on uplands. Permeability is slow. This soil has very low available water capacity and moderate organic matter content. Flooding is NONE.

LaD LAKOMA-MURDO COMPLEX, 9 TO 15 PERCENT SLOPES - The Murdo series consists of deep, well drained soils formed in 10 to 20 inches of loamy alluvium underlain by sand and gravel on outwash plains and terraces. Permeability is moderate or moderately rapid in the solum and rapid in the sand and gravel. This soil has low available water capacity and low organic matter content. Flooding is NONE.

LdD - Lakoma-Okaton Clays, 5 To 15 Percent Slopes

LdD LAKOMA-OKATON CLAYS, 5 TO 15 PERCENT SLOPES - The Lakoma series consists of moderately deep, well drained soils formed in residuum weathered from clay shales on uplands. Permeability is slow. This soil has very low available water capacity and moderate organic matter content. Flooding is NONE.

LdD LAKOMA-OKATON CLAYS, 5 TO 15 PERCENT SLOPES - The Okaton series consists of shallow, well drained soils formed in residuum weathered from shale. Permeability is slow. This soil has very low available water capacity and low organic matter content. Flooding is NONE.

LdE - Lakoma-Okaton Clays, 15 To 40 Percent Slopes

LdE LAKOMA-OKATON CLAYS, 15 TO 40 PERCENT SLOPES - The Lakoma series consists of moderately deep, well drained soils formed in residuum weathered from clay shales on uplands. Permeability is slow. This soil has very low available water capacity and moderate organic matter content. Flooding is NONE.

LdE LAKOMA-OKATON CLAYS, 15 TO 40 PERCENT SLOPES - The Okaton series consists of shallow, well drained soils formed in residuum weathered from shale. Permeability is slow. This soil has very low available water capacity and low organic matter content. Flooding is NONE.

LeC - Larvie Clay, 5 To 9 Percent Slopes

LeC LARVIE CLAY, 5 TO 9 PERCENT SLOPES - The Larvie series consists of moderately deep, well drained soils formed in residuum weathered from variegated shale and mudstone on uplands. These soils have very slow permeability. This soil has very low available water capacity and moderate organic matter content. Flooding is NONE.

LfC - Larvie-Conata Clays, 6 To 15 Percent Slopes

LfC LARVIE-CONATA CLAYS, 6 TO 15 PERCENT SLOPES - The Larvie series consists of moderately deep, well drained soils formed in residuum weathered from variegated shale and mudstone on uplands. These soils have very slow permeability. This soil has very low available water capacity and moderate organic matter content. Flooding is NONE.

LfC LARVIE-CONATA CLAYS, 6 TO 15 PERCENT SLOPES - The Conata series consists of shallow, well drained, very slowly permeable soils formed in vari-colored clayey residuum from mudstone or shale. These soils are on breaks along drainageways near badlands. This soil has very low available water capacity and moderate organic matter content. Flooding is NONE.

LhC - Larvie And Hisle Soils, 0 To 9 Percent Slopes

LhC LARVIE AND HISLE SOILS, 0 TO 9 PERCENT SLOPES - The Larvie series consists of moderately deep, well drained soils formed in residuum weathered from variegated shale and mudstone on uplands. These soils have very slow permeability. This soil has very low available water capacity and moderate organic matter content. Flooding is NONE.

LhC LARVIE AND HISLE SOILS, 0 TO 9 PERCENT SLOPES - The Hisle series consists of moderately deep, well drained and moderately well drained soils formed in clayey sediments weathered from clay shale on uplands. Permeability is very slow. This soil has very low available water capacity and moderate organic matter content. Flooding is NONE.

Mellette County, South Dakota
Non Technical Soil Descriptions--Continued

LmB - Larvie-Metre Clays, 2 To 5 Percent Slopes

LmB LARVIE-METRE CLAYS, 2 TO 5 PERCENT SLOPES - The Larvie series consists of moderately deep, well drained soils formed in residuum weathered from variegated shale and mudstone on uplands. These soils have very slow permeability. This soil has very low available water capacity and moderate organic matter content. Flooding is NONE.

LmB LARVIE-METRE CLAYS, 2 TO 5 PERCENT SLOPES - The Metre series consists of moderately deep, well drained soils formed in clayey residuum weathered from mudstone or shale on uplands. These soils have very slow permeability. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

LoA - Lowry Silt Loam, 0 To 2 Percent Slopes

LoA LOWRY SILT LOAM, 0 TO 2 PERCENT SLOPES - The Lowry series consists of deep, well drained soils formed in calcareous silty eolian sediments on uplands. Permeability is moderate. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

LoB - Lowry Silt Loam, 2 To 5 Percent Slopes

LoB LOWRY SILT LOAM, 2 TO 5 PERCENT SLOPES - The Lowry series consists of deep, well drained soils formed in calcareous silty eolian sediments on uplands. Permeability is moderate. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

Ls - Lowry-Slickspots Complex

Ls LOWRY-SLICKSPOTS COMPLEX - The Lowry series consists of deep, well drained soils formed in calcareous silty eolian sediments on uplands. Permeability is moderate. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

Ls LOWRY-SLICKSPOTS COMPLEX - Slickspots, dry consists of well drained areas with little or no vegetation. The areas are strongly saline and strongly alkaline. This soil has low available water capacity and very low organic matter content. Flooding is NONE.

MaD - Manter-Anselmo Fine Sandy Loams, 9 To 15 Percent Slopes

MaD MANTER-ANSELMO FINE SANDY LOAMS, 9 TO 15 PERCENT SLOPES - The Manter series consists of deep, well to somewhat excessively drained, moderately rapid to rapidly permeable soils formed in thick, calcareous, eolian or outwash material. Manter soils are on uplands. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

MaD MANTER-ANSELMO FINE SANDY LOAMS, 9 TO 15 PERCENT SLOPES - The Anselmo series consists of deep, well drained, moderately rapidly permeable soils formed in loamy and sandy wind-deposited sediments. These soils are on uplands and stream terraces. This soil has high available water capacity and low organic matter content. Flooding is NONE.

McE - Manter-Sansarc Complex, 9 To 25 Percent Slopes

McE MANTER-SANSARC COMPLEX, 9 TO 25 PERCENT SLOPES - The Manter series consists of deep, well to somewhat excessively drained, moderately rapid to rapidly permeable soils formed in thick, calcareous, eolian or outwash material. Manter soils are on uplands. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

McE MANTER-SANSARC COMPLEX, 9 TO 25 PERCENT SLOPES - The Sansarc series consists of shallow, well drained soils formed in clay residuum weathered from shale within the dissected shale plain. Permeability is slow. This soil has very low available water capacity and low organic matter content. Flooding is NONE.

MfC - Manter-Tuthill Fine Sandy Loams, 6 To 9 Percent Slopes

MfC MANTER-TUTHILL FINE SANDY LOAMS, 6 TO 9 PERCENT SLOPES - The Manter series consists of deep, well to somewhat excessively drained, moderately rapid to rapidly permeable soils formed in thick, calcareous, eolian or outwash material. Manter soils are on uplands. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

MfC MANTER-TUTHILL FINE SANDY LOAMS, 6 TO 9 PERCENT SLOPES - The Tuthill series consists of very deep, well drained soils formed in sandy and loamy materials on uplands. These soils have moderate permeability in the subsoil and rapid permeability in the substratum. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

Mellette County, South Dakota
Non Technical Soil Descriptions--Continued

MLB - Millboro-Reliance Complex, 2 To 5 Percent Slopes

MLB MILLBORO-RELIANCE COMPLEX, 2 TO 5 PERCENT SLOPES - The Millboro series consists of very deep, well drained soils formed in clay sediments weathered from clay shale on uplands. Permeability is slow. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

MLB MILLBORO-RELIANCE COMPLEX, 2 TO 5 PERCENT SLOPES - The Reliance series consists of deep, well drained soils formed in loess on uplands and terraces. These soils have moderately slow permeability. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

MLC - Millboro-Reliance Complex, 5 To 9 Percent Slopes

MLC MILLBORO-RELIANCE COMPLEX, 5 TO 9 PERCENT SLOPES - The Millboro series consists of very deep, well drained soils formed in clay sediments weathered from clay shale on uplands. Permeability is slow. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

MLC MILLBORO-RELIANCE COMPLEX, 5 TO 9 PERCENT SLOPES - The Reliance series consists of deep, well drained soils formed in loess on uplands and terraces. These soils have moderately slow permeability. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

Mm - Minatare Soils

Mm MINATARE SOILS - The Minatare series consists of deep, somewhat poorly drained, very slowly permeable soils. They formed mainly in silty and clayey alluvium on bottom lands. The soil material is strongly or very strongly affected by sodium and commonly by excess soluble salts. This soil has moderate available water capacity and moderate organic matter content. Flooding is RARE.

Mn - Bigbend Silt Loam

Mn BIGBEND SILT LOAM - The Bigbend series consists of deep, well drained and moderately well drained soils formed in stratified, calcareous, loamy alluvium on flood plains and low stream terraces. Permeability is moderate. This soil has high available water capacity and moderate organic matter content. Flooding is RARE.

Mo - Mosher Soils

Mo MOSHER SOILS - The Mosher series consists of deep, moderately well drained and somewhat poorly drained soils formed in alluvium on flood plains, terraces, and uplands. Permeability is very slow. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

MrC - Murdo Gravelly Loam, 2 To 9 Percent Slopes

MrC MURDO GRAVELLY LOAM, 2 TO 9 PERCENT SLOPES - The Murdo series consists of deep, well drained soils formed in 10 to 20 inches of loamy alluvium underlain by sand and gravel on outwash plains and terraces. Permeability is moderate or moderately rapid in the solum and rapid in the sand and gravel. This soil has low available water capacity and low organic matter content. Flooding is NONE.

MsD - Murdo-Lakoma Complex, 6 To 15 Percent Slopes

MsD MURDO-LAKOMA COMPLEX, 6 TO 15 PERCENT SLOPES - The Murdo series consists of deep, well drained soils formed in 10 to 20 inches of loamy alluvium underlain by sand and gravel on outwash plains and terraces. Permeability is moderate or moderately rapid in the solum and rapid in the sand and gravel. This soil has low available water capacity and low organic matter content. Flooding is NONE.

MsD MURDO-LAKOMA COMPLEX, 6 TO 15 PERCENT SLOPES - The Lakoma series consists of moderately deep, well drained soils formed in residuum weathered from clay shales on uplands. Permeability is slow. This soil has very low available water capacity and moderate organic matter content. Flooding is NONE.

MuD - Murdo-Schamber Gravelly Loams, 9 To 15 Percent Slopes

MuD MURDO-SCHAMBER GRAVELLY LOAMS, 9 TO 15 PERCENT SLOPES - The Murdo series consists of deep, well drained soils formed in 10 to 20 inches of loamy alluvium underlain by sand and gravel on outwash plains and terraces. Permeability is moderate or moderately rapid in the solum and rapid in the sand and gravel. This soil has low available water capacity and low organic matter content. Flooding is NONE.

MuD MURDO-SCHAMBER GRAVELLY LOAMS, 9 TO 15 PERCENT SLOPES - The Chamber series consists of well to excessively drained soils that are very shallow over sand and gravel outwash sediments. Permeability is rapid or very rapid. This soil has very low available water capacity and low organic matter content. Flooding is NONE.

Mellette County, South Dakota
Non Technical Soil Descriptions--Continued

NlC - Norrest Silt Loam, 5 To 9 Percent Slopes

NlC NORREST SILT LOAM, 5 TO 9 PERCENT SLOPES - The Norrest series consists of moderately deep, well drained soils formed in weathered from siltstone or soft shale on uplands. These soils have moderately slow permeability. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

Nm - Norrest-Badland Association

Nm NORREST-BADLAND ASSOCIATION - The Norrest series consists of moderately deep, well drained soils formed in weathered from siltstone or soft shale on uplands. These soils have moderately slow permeability. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

Nm NORREST-BADLAND ASSOCIATION - Badland is moderately steep to very steep barren land dissected by many intermittent drainage channels. Ordinarily, the areas are not stony. Badland is most common where streams cut into soft geologic material. This soil has moderate available water capacity and low organic matter content. Flooding is NONE.

NoA - Norrest-Blackpipe Silt Loams, 0 To 2 Percent Slopes

NoA NORREST-BLACKPIPE SILT LOAMS, 0 TO 2 PERCENT SLOPES - The Norrest series consists of moderately deep, well drained soils formed in weathered from siltstone or soft shale on uplands. These soils have moderately slow permeability. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

NoA NORREST-BLACKPIPE SILT LOAMS, 0 TO 2 PERCENT SLOPES - The Blackpipe series consists of moderately deep, well drained soils formed in clayey residuum from shale and mudstone on uplands. Permeability is moderately slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

NoB - Norrest-Blackpipe Silt Loams, 2 To 5 Percent Slopes

NoB NORREST-BLACKPIPE SILT LOAMS, 2 TO 5 PERCENT SLOPES - The Norrest series consists of moderately deep, well drained soils formed in weathered from siltstone or soft shale on uplands. These soils have moderately slow permeability. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

NoB NORREST-BLACKPIPE SILT LOAMS, 2 TO 5 PERCENT SLOPES - The Blackpipe series consists of moderately deep, well drained soils formed in clayey residuum from shale and mudstone on uplands. Permeability is moderately slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

NrC - Norrest-Cedar Butte Silt Loams 3 To 9 Percent Slopes

NrC NORREST-CEDAR BUTTE SILT LOAMS 3 TO 9 PERCENT SLOPES - The Norrest series consists of moderately deep, well drained soils formed in weathered from siltstone or soft shale on uplands. These soils have moderately slow permeability. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

NrC NORREST-CEDAR BUTTE SILT LOAMS 3 TO 9 PERCENT SLOPES - The Cedar Butte series consists of deep, well drained soils formed in clay sediments or clayey residuum weathered from shale. Permeability is slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

NsC - Norrest-Imlay Silt Loams, 5 To 9 Percent Slopes

NsC NORREST-IMLAY SILT LOAMS, 5 TO 9 PERCENT SLOPES - The Norrest series consists of moderately deep, well drained soils formed in weathered from siltstone or soft shale on uplands. These soils have moderately slow permeability. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

NsC NORREST-IMLAY SILT LOAMS, 5 TO 9 PERCENT SLOPES - The Imlay series consists of shallow, well drained soils formed in residuum from siltstone and mudstone on uplands. These soils have moderately slow permeability in the soil material. This soil has very low available water capacity and moderate organic matter content. Flooding is NONE.

NsD - Norrest-Imlay Silt Loams, 9 To 15 Percent Slopes

NsD NORREST-IMLAY SILT LOAMS, 9 TO 15 PERCENT SLOPES - The Norrest series consists of moderately deep, well drained soils formed in weathered from siltstone or soft shale on uplands. These soils have moderately slow permeability. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

NsD NORREST-IMLAY SILT LOAMS, 9 TO 15 PERCENT SLOPES - The Imlay series consists of shallow, well drained soils formed in residuum from siltstone and mudstone on uplands. These soils have moderately slow permeability in the soil material. This soil has very low available water capacity and moderate organic matter content. Flooding is NONE.

Mellette County, South Dakota
Non Technical Soil Descriptions--Continued

NtB - Norrest And Okreek Soils, 2 To 5 Percent Slopes

NtB NORREST AND OKREEK SOILS, 2 TO 5 PERCENT SLOPES - The Norrest series consists of moderately deep, well drained soils formed in weathered from siltstone or soft shale on uplands. These soils have moderately slow permeability. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

NtB NORREST AND OKREEK SOILS, 2 TO 5 PERCENT SLOPES - The Okreek series consists of moderately deep, well drained soils formed in clayey residuum weathered from shale on uplands. Permeability is slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

OcC - Opal Clay, 5 To 9 Percent Slopes

OcC OPAL CLAY, 5 TO 9 PERCENT SLOPES - The Opal series consists of moderately deep, well drained soils formed in clayey sediments weathered from clay shale on uplands. Permeability is very slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

OgC - Opal Clay, Mounded, 5 To 9 Percent Slopes

OgC OPAL CLAY, MOUNDED, 5 TO 9 PERCENT SLOPES - The Opal series consists of moderately deep, well drained soils formed in clayey sediments weathered from clay shale on uplands. Permeability is very slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

O1B - Opal-Kirley Complex, 2 To 5 Percent Slopes

O1B OPAL-KIRLEY COMPLEX, 2 TO 5 PERCENT SLOPES - The Opal series consists of moderately deep, well drained soils formed in clayey sediments weathered from clay shale on uplands. Permeability is very slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

O1B OPAL-KIRLEY COMPLEX, 2 TO 5 PERCENT SLOPES - The Kirley series consists of deep, well drained soils formed in alluvium on terraces. These soils have moderately slow or slow permeability. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

O1C - Opal-Kirley Complex, 5 To 9 Percent Slopes

O1C OPAL-KIRLEY COMPLEX, 5 TO 9 PERCENT SLOPES - The Opal series consists of moderately deep, well drained soils formed in clayey sediments weathered from clay shale on uplands. Permeability is very slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

O1C OPAL-KIRLEY COMPLEX, 5 TO 9 PERCENT SLOPES - The Kirley series consists of deep, well drained soils formed in alluvium on terraces. These soils have moderately slow or slow permeability. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

Omb - Opal-Mosher Complex, 2 To 6 Percent Slopes

Omb OPAL-MOSHER COMPLEX, 2 TO 6 PERCENT SLOPES - The Opal series consists of moderately deep, well drained soils formed in clayey sediments weathered from clay shale on uplands. Permeability is very slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

Omb OPAL-MOSHER COMPLEX, 2 TO 6 PERCENT SLOPES - The Mosher series consists of deep, moderately well drained and somewhat poorly drained soils formed in alluvium on flood plains, terraces, and uplands. Permeability is very slow. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

OpB - Opal-Promise Clays, 2 To 5 Percent Slopes

OpB OPAL-PROMISE CLAYS, 2 TO 5 PERCENT SLOPES - The Opal series consists of moderately deep, well drained soils formed in clayey sediments weathered from clay shale on uplands. Permeability is very slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

OpB OPAL-PROMISE CLAYS, 2 TO 5 PERCENT SLOPES - The Promise series consists of deep or very deep, well drained soils formed in clayey sediments weathered from clay shales. These soils are on uplands, fans and terraces. Permeability is slow or very slow. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

OtB - Opal-Tuthill Complex, 2 To 5 Percent Slopes

OtB OPAL-TUTHILL COMPLEX, 2 TO 5 PERCENT SLOPES - The Opal series consists of moderately deep, well drained soils formed in clayey sediments weathered from clay shale on uplands. Permeability is very slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

OtB OPAL-TUTHILL COMPLEX, 2 TO 5 PERCENT SLOPES - The Tuthill series consists of very deep, well drained soils formed in sandy and loamy materials on uplands. These soils have moderate permeability in the subsoil and rapid permeability in the substratum. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

Mellette County, South Dakota
Non Technical Soil Descriptions--Continued

OtD - Opal-Tuthill Complex, 5 To 15 Percent Slopes

OtD OPAL-TUTHILL COMPLEX, 5 TO 15 PERCENT SLOPES - The Opal series consists of moderately deep, well drained soils formed in clayey sediments weathered from clay shale on uplands. Permeability is very slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

OtD OPAL-TUTHILL COMPLEX, 5 TO 15 PERCENT SLOPES - The Tuthill series consists of very deep, well drained soils formed in sandy and loamy materials on uplands. These soils have moderate permeability in the subsoil and rapid permeability in the substratum. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

OwC - Opal-Woodly Complex, 3 To 9 Percent Slopes

OwC OPAL-WOODLY COMPLEX, 3 TO 9 PERCENT SLOPES - The Opal series consists of moderately deep, well drained soils formed in clayey sediments weathered from clay shale on uplands. Permeability is very slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

OwC OPAL-WOODLY COMPLEX, 3 TO 9 PERCENT SLOPES - The Woodly series consists of deep, moderately well drained and well drained soils formed in sandy and loamy alluvium in upland swales and on foot slopes. Permeability is moderate in the solum and moderately rapid in the underlying material. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

Ox - Orella-Rock Outcrop Complex

Ox ORELLA-ROCK OUTCROP COMPLEX - The Orella series consists of shallow, well drained or moderately well drained soils on uplands. They formed in residuum weathered from claystone or shale. This soil has very low available water capacity and low organic matter content. Flooding is NONE.

Ox ORELLA-ROCK OUTCROP COMPLEX - Rock outcrop consists of soft shale that can be ripped or dug. This soil has moderate available water capacity and low organic matter content. Flooding is NONE.

PcA - Promise Clay, 0 To 2 Percent Slopes

PcA PROMISE CLAY, 0 TO 2 PERCENT SLOPES - The Promise series consists of deep or very deep, well drained soils formed in clayey sediments weathered from clay shales. These soils are on uplands, fans and terraces. Permeability is slow or very slow. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

PcB - Promise Clay, 2 To 5 Percent Slopes

PcB PROMISE CLAY, 2 TO 5 PERCENT SLOPES - The Promise series consists of deep or very deep, well drained soils formed in clayey sediments weathered from clay shales. These soils are on uplands, fans and terraces. Permeability is slow or very slow. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

Pd - Wendte Soils

Pd WENDTE SOILS - The Wendte series consists of deep, moderately well drained, slowly permeable soils formed in calcareous clayey alluvium. This soil has moderate available water capacity and moderate organic matter content. Flooding is RARE.

PgA - Promise And Opal Clays, 0 To 2 Percent Slopes

PgA PROMISE AND OPAL CLAYS, 0 TO 2 PERCENT SLOPES - The Promise series consists of deep or very deep, well drained soils formed in clayey sediments weathered from clay shales. These soils are on uplands, fans and terraces. Permeability is slow or very slow. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

PgA PROMISE AND OPAL CLAYS, 0 TO 2 PERCENT SLOPES - The Opal series consists of moderately deep, well drained soils formed in clayey sediments weathered from clay shale on uplands. Permeability is very slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

PgB - Promise And Opal Clays, 2 To 5 Percent Slopes

PgB PROMISE AND OPAL CLAYS, 2 TO 5 PERCENT SLOPES - The Promise series consists of deep or very deep, well drained soils formed in clayey sediments weathered from clay shales. These soils are on uplands, fans and terraces. Permeability is slow or very slow. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

PgB PROMISE AND OPAL CLAYS, 2 TO 5 PERCENT SLOPES - The Opal series consists of moderately deep, well drained soils formed in clayey sediments weathered from clay shale on uplands. Permeability is very slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

Mellette County, South Dakota
Non Technical Soil Descriptions--Continued

PmA - Promise-Mosher Complex, 0 To 2 Percent Slopes

PmA PROMISE-MOSHER COMPLEX, 0 TO 2 PERCENT SLOPES - The Promise series consists of deep or very deep, well drained soils formed in clayey sediments weathered from clay shales. These soils are on uplands, fans and terraces. Permeability is slow or very slow. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

PmA PROMISE-MOSHER COMPLEX, 0 TO 2 PERCENT SLOPES - The Mosher series consists of deep, moderately well drained and somewhat poorly drained soils formed in alluvium on flood plains, terraces, and uplands. Permeability is very slow. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

Ps - Wendte Soils And Slickspots

Ps WENDTE SOILS AND SLICKSPOTS - The Wendte series consists of deep, moderately well drained, slowly permeable soils formed in calcareous clayey alluvium. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

Ps WENDTE SOILS AND SLICKSPOTS - Slickspots, dry consists of well drained areas with little or no vegetation. The areas are strongly saline and strongly alkaline. This soil has low available water capacity and very low organic matter content. Flooding is NONE.

ReB - Ree Loam, 2 To 5 Percent Slopes

ReB REE LOAM, 2 TO 5 PERCENT SLOPES - The Ree series consists of very deep, well drained soils formed in loamy sediments on terraces and uplands. Permeability is moderate. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

RkA - Ree And Keya Loams, 0 To 2 Percent Slopes

RkA REE AND KEYA LOAMS, 0 TO 2 PERCENT SLOPES - The Ree series consists of very deep, well drained soils formed in loamy sediments on terraces and uplands. Permeability is moderate. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

RkA REE AND KEYA LOAMS, 0 TO 2 PERCENT SLOPES - The Keya series consists of deep, moderately well drained or well drained soils formed in alluvium in swales on uplands. Permeability is moderate. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

RkB - Ree And Keya Loams, 2 To 5 Percent Slopes

RkB REE AND KEYA LOAMS, 2 TO 5 PERCENT SLOPES - The Ree series consists of very deep, well drained soils formed in loamy sediments on terraces and uplands. Permeability is moderate. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

RkB REE AND KEYA LOAMS, 2 TO 5 PERCENT SLOPES - The Keya series consists of deep, moderately well drained or well drained soils formed in alluvium in swales on uplands. Permeability is moderate. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

SaE - Sansarc Clay, 15 To 40 Percent Slopes

SaE SANSARC CLAY, 15 TO 40 PERCENT SLOPES - The Samsil series consists of shallow, well drained soils formed in residuum weathered from shale. Permeability is slow. This soil has very low available water capacity and low organic matter content. Flooding is NONE.

S1D - Okaton-Lakoma Clays, 9 To 15 Percent Slopes

S1D OKATON-LAKOMA CLAYS, 9 TO 15 PERCENT SLOPES - The Okaton series consists of shallow, well drained soils formed in residuum weathered from shale. Permeability is slow. This soil has very low available water capacity and low organic matter content. Flooding is NONE.

S1D OKATON-LAKOMA CLAYS, 9 TO 15 PERCENT SLOPES - The Lakoma series consists of moderately deep, well drained soils formed in residuum weathered from clay shales on uplands. Permeability is slow. This soil has very low available water capacity and moderate organic matter content. Flooding is NONE.

S1E - Okaton-Lakoma Clays, 15 To 40 Percent Slopes

S1E OKATON-LAKOMA CLAYS, 15 TO 40 PERCENT SLOPES - The Okaton series consists of shallow, well drained soils formed in residuum weathered from shale. Permeability is slow. This soil has very low available water capacity and low organic matter content. Flooding is NONE.

S1E OKATON-LAKOMA CLAYS, 15 TO 40 PERCENT SLOPES - The Lakoma series consists of moderately deep, well drained soils formed in residuum weathered from clay shales on uplands. Permeability is slow. This soil has very low available water capacity and moderate organic matter content. Flooding is NONE.

Mellette County, South Dakota
Non Technical Soil Descriptions--Continued

SmE - Sansarc-Manter Complex, 15 To 40 Percent Slopes

SmE SANSARC-MANTER COMPLEX, 15 TO 40 PERCENT SLOPES - The Sansarc series consists of shallow, well drained soils formed in clay residuum weathered from shale within the dissected shale plain. Permeability is slow. This soil has very low available water capacity and low organic matter content. Flooding is NONE.

SmE SANSARC-MANTER COMPLEX, 15 TO 40 PERCENT SLOPES - The Manter series consists of deep, well to somewhat excessively drained, moderately rapid to rapidly permeable soils formed in thick, calcareous, eolian or outwash material. Manter soils are on uplands. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

SnE - Sansarc-Schamber Complex, 15 To 40 Percent Slopes

SnE SANSARC-SCHAMBER COMPLEX, 15 TO 40 PERCENT SLOPES - The Sansarc series consists of shallow, well drained soils formed in clay residuum weathered from shale within the dissected shale plain. Permeability is slow. This soil has very low available water capacity and low organic matter content. Flooding is NONE.

SnE SANSARC-SCHAMBER COMPLEX, 15 TO 40 PERCENT SLOPES - The Chamber series consists of well to excessively drained soils that are very shallow over sand and gravel outwash sediments. Permeability is rapid or very rapid. This soil has very low available water capacity and low organic matter content. Flooding is NONE.

Ss - Sansarc-Rock Outcrop Complex, 15 To 40 Percent Slopes

Ss SANSARC-ROCK OUTCROP COMPLEX, 15 TO 40 PERCENT SLOPES - The Sansarc series consists of shallow, well drained soils formed in clay residuum weathered from shale within the dissected shale plain. Permeability is slow. This soil has very low available water capacity and low organic matter content. Flooding is NONE.

Ss SANSARC-ROCK OUTCROP COMPLEX, 15 TO 40 PERCENT SLOPES - Rock outcrop consists of soft shale that can be ripped or dug. This soil has moderate available water capacity and low organic matter content. Flooding is NONE.

St - Valentine And Whitelake Soils, 3 To 25 Percent Slopes

St VALENTINE AND WHITELAKE SOILS, 3 TO 25 PERCENT SLOPES - The Valentine series consists of very deep, excessively drained, rapidly permeable soils formed in eolian sands. This soil has low available water capacity and low organic matter content. Flooding is NONE.

St VALENTINE AND WHITELAKE SOILS, 3 TO 25 PERCENT SLOPES - The Whitelake series consists of deep, moderately well drained soils formed in sandy sediments on terraces and basins of uplands. Permeability is slow in the solum and moderate or moderately rapid in the underlying material. This soil has moderate available water capacity and moderate organic matter content. Flooding is RARE.

SuA - Reliance Silty Clay Loam, 0 To 2 Percent Slopes

SuA RELIANCE SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES - The Reliance series consists of deep, well drained soils formed in loess on uplands and terraces. These soils have moderately slow permeability. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

SuB - Reliance Silty Clay Loam, 2 To 5 Percent Slopes

SuB RELIANCE SILTY CLAY LOAM, 2 TO 5 PERCENT SLOPES - The Reliance series consists of deep, well drained soils formed in loess on uplands and terraces. These soils have moderately slow permeability. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

SuC - Reliance Silty Clay Loam, 5 To 9 Percent Slopes

SuC RELIANCE SILTY CLAY LOAM, 5 TO 9 PERCENT SLOPES - The Reliance series consists of deep, well drained soils formed in loess on uplands and terraces. These soils have moderately slow permeability. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

SvE - Chamber-Murdo Gravelly Loams, 15 To 25 Percent Slopes

SvE SCHAMBER-MURDO GRAVELLY LOAMS, 15 TO 25 PERCENT SLOPES - The Chamber series consists of well to excessively drained soils that are very shallow over sand and gravel outwash sediments. Permeability is rapid or very rapid. This soil has very low available water capacity and low organic matter content. Flooding is NONE.

SvE SCHAMBER-MURDO GRAVELLY LOAMS, 15 TO 25 PERCENT SLOPES - The Murdo series consists of deep, well drained soils formed in 10 to 20 inches of loamy alluvium underlain by sand and gravel on outwash plains and terraces. Permeability is moderate or moderately rapid in the solum and rapid in the sand and gravel. This soil has low available water capacity and low organic matter content. Flooding is NONE.

Mellette County, South Dakota
Non Technical Soil Descriptions--Continued

SwE - Schamber-Sansarc Complex, 15 To 40 Percent Slopes

SwE SCHAMBER-SANSARC COMPLEX, 15 TO 40 PERCENT SLOPES - The Schamber series consists of well to excessively drained soils that are very shallow over sand and gravel outwash sediments. Permeability is rapid or very rapid. This soil has very low available water capacity and low organic matter content. Flooding is NONE.

SwE SCHAMBER-SANSARC COMPLEX, 15 TO 40 PERCENT SLOPES - The Sansarc series consists of shallow, well drained soils formed in clay residuum weathered from shale within the dissected shale plain. Permeability is slow. This soil has very low available water capacity and low organic matter content. Flooding is NONE.

Sy - Stirk Clay

Sy STIRK CLAY - The Stirk series consists of deep, well drained and moderately well drained soils formed in clayey sediments weathered from clay shale on flood plains and alluvial fans. These soils have very slow permeability. This soil has moderate available water capacity and moderate organic matter content. Flooding is OCCAS.

ThB - Tuthill Fine Sandy Loam, 3 To 6 Percent Slopes

ThB TUTHILL FINE SANDY LOAM, 3 TO 6 PERCENT SLOPES - The Tuthill series consists of very deep, well drained soils formed in sandy and loamy materials on uplands. These soils have moderate permeability in the subsoil and rapid permeability in the substratum. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

ToC - Tuthill-Opal Complex, 2 To 9 Percent Slopes

ToC TUTHILL-OPAL COMPLEX, 2 TO 9 PERCENT SLOPES - The Tuthill series consists of very deep, well drained soils formed in sandy and loamy materials on uplands. These soils have moderate permeability in the subsoil and rapid permeability in the substratum. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

ToC TUTHILL-OPAL COMPLEX, 2 TO 9 PERCENT SLOPES - The Opal series consists of moderately deep, well drained soils formed in clayey sediments weathered from clay shale on uplands. Permeability is very slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

TuB - Tuthill And Whitelake Fine Sandy Loams, 0 To 5 Percent Slopes

TuB TUTHILL AND WHITELAKE FINE SANDY LOAMS, 0 TO 5 PERCENT SLOPES - The Tuthill series consists of very deep, well drained soils formed in sandy and loamy materials on uplands. These soils have moderate permeability in the subsoil and rapid permeability in the substratum. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

TuB TUTHILL AND WHITELAKE FINE SANDY LOAMS, 0 TO 5 PERCENT SLOPES - The Whitelake series consists of deep, moderately well drained soils formed in sandy sediments on terraces and basins of uplands. Permeability is slow in the solum and moderate or moderately rapid in the underlying material. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

TwA - Tuthill-Woodly Fine Sandy Loams, 0 To 3 Percent Slopes

TwA TUTHILL-WOODLY FINE SANDY LOAMS, 0 TO 3 PERCENT SLOPES - The Tuthill series consists of very deep, well drained soils formed in sandy and loamy materials on uplands. These soils have moderate permeability in the subsoil and rapid permeability in the substratum. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

TwA TUTHILL-WOODLY FINE SANDY LOAMS, 0 TO 3 PERCENT SLOPES - The Woodly series consists of deep, moderately well drained and well drained soils formed in sandy and loamy alluvium in upland swales and on foot slopes. Permeability is moderate in the solum and moderately rapid in the underlying material. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

TwB - Tuthill-Woodly Fine Sandy Loams, 3 To 6 Percent Slopes

TwB TUTHILL-WOODLY FINE SANDY LOAMS, 3 TO 6 PERCENT SLOPES - The Tuthill series consists of very deep, well drained soils formed in sandy and loamy materials on uplands. These soils have moderate permeability in the subsoil and rapid permeability in the substratum. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

TwB TUTHILL-WOODLY FINE SANDY LOAMS, 3 TO 6 PERCENT SLOPES - The Woodly series consists of deep, moderately well drained and well drained soils formed in sandy and loamy alluvium in upland swales and on foot slopes. Permeability is moderate in the solum and moderately rapid in the underlying material. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

Mellette County, South Dakota
Non Technical Soil Descriptions--Continued

VaE - Valentine Fine Sand, 15 To 35 Percent Slopes

VaE VALENTINE FINE SAND, 15 TO 35 PERCENT SLOPES - The Valentine series consists of very deep, excessively drained, rapidly permeable soils formed in eolian sands. This soil has low available water capacity and low organic matter content. Flooding is NONE.

w - Water Less Than 40 Acres

w WATER LESS THAN 40 ACRES - These are areas of water that are normally less than 40 acres in size. This soil has available water capacity and organic matter content.

Wa - Wanblee-Whitelake Complex

Wa WANBLEE-WHITELAKE COMPLEX - The Wanblee series consists of moderately deep, well drained, or moderately well drained soils formed in residuum weathered from siltstone on upland fans and flats. Permeability is very slow. This soil has very low available water capacity and moderate organic matter content. Flooding is NONE.

Wa WANBLEE-WHITELAKE COMPLEX - The Whitelake series consists of deep, moderately well drained soils formed in sandy sediments on terraces and basins of uplands. Permeability is slow in the solum and moderate or moderately rapid in the underlying material. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

WbB - Wanblee-Wortman Association, 0 To 5 Percent Slopes

WbB WANBLEE-WORTMAN ASSOCIATION, 0 TO 5 PERCENT SLOPES - The Wanblee series consists of moderately deep, well drained, or moderately well drained soils formed in residuum weathered from siltstone on upland fans and flats. Permeability is very slow. This soil has very low available water capacity and moderate organic matter content. Flooding is NONE.

WbB WANBLEE-WORTMAN ASSOCIATION, 0 TO 5 PERCENT SLOPES - The Wortman series consists of moderately deep, well drained and moderately well drained soils formed in residuum weathered from siltstone on upland fans and flats. Permeability is very slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

Wd - Woodly Fine Sandy Loam

Wd WOODLY FINE SANDY LOAM - The Woodly series consists of deep, moderately well drained and well drained soils formed in sandy and loamy alluvium in upland swales and on foot slopes. Permeability is moderate in the solum and moderately rapid in the underlying material. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

WoB - Woodly-Opal Complex, 2 To 5 Percent Slopes

WoB WOODLY-OPAL COMPLEX, 2 TO 5 PERCENT SLOPES - The Woodly series consists of deep, moderately well drained and well drained soils formed in sandy and loamy alluvium in upland swales and on foot slopes. Permeability is moderate in the solum and moderately rapid in the underlying material. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

WoB WOODLY-OPAL COMPLEX, 2 TO 5 PERCENT SLOPES - The Opal series consists of moderately deep, well drained soils formed in clayey sediments weathered from clay shale on uplands. Permeability is very slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

Ww - Wortman And Wanblee Silt Loams

Ww WORTMAN AND WANBLEE SILT LOAMS - The Wortman series consists of moderately deep, well drained and moderately well drained soils formed in residuum weathered from siltstone on upland fans and flats. Permeability is very slow. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

Ww WORTMAN AND WANBLEE SILT LOAMS - The Wanblee series consists of moderately deep, well drained, or moderately well drained soils formed in residuum weathered from siltstone on upland fans and flats. Permeability is very slow. This soil has very low available water capacity and moderate organic matter content. Flooding is NONE.

