

Soil Descriptions - Non Technical

8B--Sparta Loamy Fine Sand, 0 To 6 Percent Slopes

Component Description

Sparta and similar soils

Extent: 90 percent of the unit

Slope range: 0 to 6 percent

Surface layer texture: Loamy fine sand

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Excessively drained

Flooding: None

Depth to wet soil moisture status: More than 5.0 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.6 inches

Content of organic matter in the upper 10 inches: 1.5 percent

Typical profile:

A--0 to 12 inches; loamy fine sand

Bw--12 to 31 inches; loamy fine sand

C--31 to 60 inches; fine sand

27B--Dickinson Fine Sandy Loam, 0 To 6 Percent Slopes

Component Description

Dickinson and similar soils

Extent: 85 percent of the unit

Slope range: 0 to 6 percent

Surface layer texture: Fine sandy loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Well drained

Flooding: None

Depth to wet soil moisture status: More than 5.0 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 6.1 inches

Content of organic matter in the upper 10 inches: 1.5 percent

Typical profile:

A--0 to 14 inches; fine sandy loam

Bw--14 to 39 inches; fine sandy loam

C--39 to 60 inches; loamy fine sand

27C--Dickinson Fine Sandy Loam, 6 To 12 Percent Slopes

Component Description

Dickinson and similar soils

Extent: 85 percent of the unit

Slope range: 6 to 12 percent

Surface layer texture: Fine sandy loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Well drained

Flooding: None

Depth to wet soil moisture status: More than 5.0 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 5.9 inches

Content of organic matter in the upper 10 inches: 1.5 percent

Typical profile:

A--0 to 10 inches; fine sandy loam

Bw--10 to 31 inches; fine sandy loam

C1--31 to 43 inches; loamy sand

C2--43 to 60 inches; sand

35--Blue Earth Mucky Silty Clay Loam

Component Description

Blue earth and similar soils

Extent: 100 percent of the unit

Geomorphic description:

Depression

Slope range: 0 to 1 percent

Surface layer texture: Mucky silty clay loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Very poorly drained

Flooding: None

Wet soil moisture status is highest (depth, months):

At the surface March April

Wet soil moisture status is lowest (depth, months):

2.0 feet February August

Ponding does not occur (months):

January February May June July August September October
November December

Ponding is deepest (depth, months):

1.0 foot April

Available water capacity to a depth of 60 inches: 12.6 inches

Content of organic matter in the upper 10 inches: 17.5 percent

Typical profile:

Ap--0 to 10 inches; mucky silty clay loam

Cg--10 to 60 inches; mucky silty clay loam

37B--Farrar Fine Sandy Loam, 1 To 6 Percent Slopes

Component Description

Farrar and similar soils

Extent: 90 percent of the unit

Slope range: 1 to 6 percent

Surface layer texture: Fine sandy loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Well drained

Flooding: None

Wet soil moisture status is highest (depth, months):

3.6 feet April

Wet soil moisture status is lowest (depth, months):

More than 5.0 feet January February July August
September October December

Ponding: None

Available water capacity to a depth of 60 inches: 10.4 inches

Content of organic matter in the upper 10 inches: 1.5 percent

Typical profile:

A--0 to 16 inches; fine sandy loam

Bw1--16 to 25 inches; fine sandy loam
2Bw2--25 to 41 inches; loam
2C--41 to 60 inches; loam

41B--Estherville Sandy Loam, 0 To 6 Percent Slopes

Component Description

Estherville and similar soils

Extent: 90 percent of the unit
Slope range: 0 to 6 percent
Surface layer texture: Sandy loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Flooding: None
Depth to wet soil moisture status: More than 5.0 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.2 inches
Content of organic matter in the upper 10 inches: 3.0 percent
Typical profile:
A--0 to 14 inches; sandy loam
Bw--14 to 19 inches; sandy loam
2C--19 to 60 inches; gravelly coarse sand

84--Brownton Silty Clay Loam

Component Description

Brownton and similar soils

Extent: 90 percent of the unit
Geomorphic description:
Flat
Slope range: 0 to 1 percent
Surface layer texture: Silty clay loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months):
0.5 foot April May
Wet soil moisture status is lowest (depth, months):
2.6 feet February August
Ponding: None
Available water capacity to a depth of 60 inches: 9.8 inches
Content of organic matter in the upper 10 inches: 6.0 percent
Typical profile:
A--0 to 16 inches; silty clay loam
Bg--16 to 30 inches; silty clay
Cg--30 to 60 inches; silty clay loam

86--Canisteo Clay Loam

Component Description

Canisteo and similar soils

Extent: 90 percent of the unit
Geomorphic description:
Flat

Slope range: 0 to 2 percent
Surface layer texture: Clay loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months):
0.5 foot April
Wet soil moisture status is lowest (depth, months):
3.3 feet February August
Ponding: None
Available water capacity to a depth of 60 inches: 10.0 inches
Content of organic matter in the upper 10 inches: 6.0 percent
Typical profile:
A--0 to 18 inches; clay loam
Bg--18 to 25 inches; loam
Cg--25 to 60 inches; loam

94B--Terril Loam, 2 To 6 Percent Slopes

Component Description

Terril and similar soils

Extent: 90 percent of the unit
Slope range: 2 to 6 percent
Surface layer texture: Loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Moderately well drained
Flooding: None
Wet soil moisture status is highest (depth, months):
2.5 feet April
Wet soil moisture status is lowest (depth, months):
More than 5.0 feet February August
Ponding: None
Available water capacity to a depth of 60 inches: 11.6 inches
Content of organic matter in the upper 10 inches: 4.0 percent
Typical profile:
A--0 to 36 inches; loam
Bw--36 to 40 inches; loam
C--40 to 60 inches; loam

96A--Collinwood Silty Clay Loam, 0 To 3 Percent Slopes

Component Description

Collinwood and similar soils

Extent: 85 percent of the unit
Slope range: 0 to 3 percent
Surface layer texture: Silty clay loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months):
1.5 feet April May
Wet soil moisture status is lowest (depth, months):
4.9 feet February August
Ponding: None
Available water capacity to a depth of 60 inches: 8.6 inches

Content of organic matter in the upper 10 inches: 6.5 percent

Typical profile:

A--0 to 16 inches; silty clay loam

Bw--16 to 32 inches; clay

C--32 to 60 inches; silty clay

96B--Collinwood Silty Clay Loam, 3 To 6 Percent Slopes

Component Description

Collinwood and similar soils

Extent: 85 percent of the unit

Slope range: 3 to 6 percent

Surface layer texture: Silty clay loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Moderately well drained

Flooding: None

Wet soil moisture status is highest (depth, months):

2.5 feet April May

Wet soil moisture status is lowest (depth, months):

More than 5.0 feet February August

Ponding: None

Available water capacity to a depth of 60 inches: 8.7 inches

Content of organic matter in the upper 10 inches: 6.0 percent

Typical profile:

Ap--0 to 10 inches; silty clay loam

Bw--10 to 39 inches; silty clay

C--39 to 60 inches; silty clay loam

101B--Truman Silt Loam, 1 To 6 Percent Slopes

Component Description

Truman and similar soils

Extent: 85 percent of the unit

Slope range: 2 to 6 percent

Surface layer texture: Silt loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Well drained

Flooding: None

Wet soil moisture status is highest (depth, months):

3.6 feet April

Wet soil moisture status is lowest (depth, months):

More than 5.0 feet January February July August
September October December

Ponding: None

Available water capacity to a depth of 60 inches: 12.0 inches

Content of organic matter in the upper 10 inches: 6.0 percent

Typical profile:

Ap--0 to 10 inches; silt loam

Bw--10 to 39 inches; silt loam

C--39 to 60 inches; silt loam

102B--Clarion Loam, 1 To 6 Percent Slopes

Component Description

Clarion and similar soils

Extent: 85 percent of the unit

Slope range: 2 to 6 percent

Surface layer texture: Loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Well drained

Flooding: None

Wet soil moisture status is highest (depth, months):

3.6 feet April

Wet soil moisture status is lowest (depth, months):

More than 5.0 feet January February July August
September October December

Ponding: None

Available water capacity to a depth of 60 inches: 11.3 inches

Content of organic matter in the upper 10 inches: 4.5 percent

Typical profile:

A--0 to 16 inches; loam

Bw--16 to 28 inches; loam

C--28 to 60 inches; loam

110--Marna Silty Clay Loam

Component Description

Marna and similar soils

Extent: 90 percent of the unit

Geomorphic description:

Flat

Slope range: 0 to 2 percent

Surface layer texture: Silty clay loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Poorly drained

Flooding: None

Wet soil moisture status is highest (depth, months):

0.5 foot April May

Wet soil moisture status is lowest (depth, months):

2.6 feet February August

Ponding: None

Available water capacity to a depth of 60 inches: 10.0 inches

Content of organic matter in the upper 10 inches: 6.0 percent

Typical profile:

A--0 to 10 inches; silty clay loam

Bg1--10 to 34 inches; silty clay

2Bg2--34 to 46 inches; clay loam

2Cg--46 to 60 inches; loam

113--Webster Clay Loam

Component Description

Webster and similar soils

Extent: 90 percent of the unit

Geomorphic description:

Flat

Slope range: 0 to 2 percent

Surface layer texture: Clay loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months):
0.5 foot April
Wet soil moisture status is lowest (depth, months):
3.3 feet February August
Ponding: None
Available water capacity to a depth of 60 inches: 10.7 inches
Content of organic matter in the upper 10 inches: 5.5 percent
Typical profile:
A--0 to 18 inches; clay loam
Bg--18 to 44 inches; clay loam
Cg--44 to 60 inches; loam

114--Glencoe Clay Loam

Component Description

Glencoe and similar soils
Extent: 100 percent of the unit
Geomorphic description:
Depression
Slope range: 0 to 1 percent
Surface layer texture: Clay loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Very poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months):
At the surface March April
Wet soil moisture status is lowest (depth, months):
2.0 feet February August
Ponding does not occur (months):
January February May June July August September October
November December
Ponding is deepest (depth, months):
1.0 foot April
Available water capacity to a depth of 60 inches: 11.7 inches
Content of organic matter in the upper 10 inches: 7.5 percent
Typical profile:
A--0 to 24 inches; clay loam
Bg--24 to 52 inches; clay loam
Cg--52 to 60 inches; loam

118--Crippin Loam

Component Description

Crippin and similar soils
Extent: 85 percent of the unit
Slope range: 0 to 3 percent
Surface layer texture: Loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months):
1.5 feet April
Wet soil moisture status is lowest (depth, months):
More than 5.0 feet February August

Ponding: None

Available water capacity to a depth of 60 inches: 11.2 inches

Content of organic matter in the upper 10 inches: 5.5 percent

Typical profile:

A--0 to 15 inches; loam

Bw--15 to 25 inches; loam

C--25 to 60 inches; loam

128B--Grogan Silt Loam, 1 To 6 Percent Slopes

Component Description

Grogan and similar soils

Extent: 85 percent of the unit

Slope range: 1 to 6 percent

Surface layer texture: Silt loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Well drained

Flooding: None

Wet soil moisture status is highest (depth, months):

3.6 feet April

Wet soil moisture status is lowest (depth, months):

More than 5.0 feet January February July August
September October December

Ponding: None

Available water capacity to a depth of 60 inches: 11.7 inches

Content of organic matter in the upper 10 inches: 3.0 percent

Typical profile:

A--0 to 18 inches; silt loam

Bw--18 to 30 inches; very fine sandy loam

C--30 to 60 inches; stratified loamy very fine sand to very fine
sandy loam to silt loam

130--Nicollet Clay Loam

Component Description

Nicollet and similar soils

Extent: 85 percent of the unit

Slope range: 1 to 3 percent

Surface layer texture: Clay loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Moderately well drained

Flooding: None

Wet soil moisture status is highest (depth, months):

1.5 feet April

Wet soil moisture status is lowest (depth, months):

More than 5.0 feet February August

Ponding: None

Available water capacity to a depth of 60 inches: 10.7 inches

Content of organic matter in the upper 10 inches: 6.0 percent

Typical profile:

A--0 to 16 inches; clay loam

Bw--16 to 29 inches; clay loam

C--29 to 60 inches; clay loam

134--Okoboji Silty Clay Loam

Component Description

Okoboji and similar soils

Extent: 100 percent of the unit

Geomorphic description:

Depression

Slope range: 0 to 1 percent

Surface layer texture: Silty clay loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Very poorly drained

Flooding: None

Wet soil moisture status is highest (depth, months):

At the surface March April

Wet soil moisture status is lowest (depth, months):

2.0 feet February August

Ponding does not occur (months):

January February May June July August September October

November December

Ponding is deepest (depth, months):

1.0 foot April

Available water capacity to a depth of 60 inches: 12.1 inches

Content of organic matter in the upper 10 inches: 8.5 percent

Typical profile:

A--0 to 26 inches; silty clay loam

Bg--26 to 42 inches; silty clay loam

Cg--42 to 60 inches; silty clay

136--Madelia Silty Clay Loam

Component Description

Madelia and similar soils

Extent: 90 percent of the unit

Geomorphic description:

Flat

Slope range: 0 to 2 percent

Surface layer texture: Silty clay loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Poorly drained

Flooding: None

Wet soil moisture status is highest (depth, months):

0.5 foot April

Wet soil moisture status is lowest (depth, months):

3.3 feet February August

Ponding: None

Available water capacity to a depth of 60 inches: 11.7 inches

Content of organic matter in the upper 10 inches: 6.0 percent

Typical profile:

Aa--0 to 15 inches; silty clay loam

Bg--15 to 27 inches; silty clay loam

Cg--27 to 60 inches; silt loam

140--Spicer Silt Loam

Component Description

Spicer and similar soils

Extent: 90 percent of the unit
Geomorphic description:
Flat
Slope range: 0 to 2 percent
Surface layer texture: Silt loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months):
0.5 foot April
Wet soil moisture status is lowest (depth, months):
3.3 feet February August
Ponding: None
Available water capacity to a depth of 60 inches: 11.7 inches
Content of organic matter in the upper 10 inches: 6.0 percent
Typical profile:
A--0 to 15 inches; silt loam
Bg--15 to 34 inches; silt loam
Cg--34 to 60 inches; silt loam

160--Fieldon Loam

Component Description

Fieldon and similar soils

Extent: 90 percent of the unit
Geomorphic description:
Flat
Slope range: 0 to 1 percent
Surface layer texture: Loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months):
0.5 foot April
Wet soil moisture status is lowest (depth, months):
2.0 feet August
Ponding: None
Available water capacity to a depth of 60 inches: 6.7 inches
Content of organic matter in the upper 10 inches: 6.5 percent
Typical profile:
A--0 to 10 inches; loam
Bg--10 to 28 inches; fine sandy loam
Cg--28 to 60 inches; stratified fine sand to loamy fine sand to
very fine sandy loam

181--Litchfield Fine Sandy Loam

Component Description

Litchfield and similar soils

Extent: 90 percent of the unit
Slope range: 0 to 3 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Moderately well drained
Flooding: None

Wet soil moisture status is highest (depth, months):

2.5 feet April

Wet soil moisture status is lowest (depth, months):

4.9 feet August

Ponding: None

Available water capacity to a depth of 60 inches: 7.5 inches

Content of organic matter in the upper 10 inches: 3.0 percent

Typical profile:

A--0 to 17 inches; fine sandy loam

Bw--17 to 41 inches; stratified fine sand to loamy very fine sand

C--41 to 60 inches; stratified fine sand to loamy very fine sand
to very fine sandy loam

197--Kingston Silt Loam

Component Description

Kingston and similar soils

Extent: 85 percent of the unit

Slope range: 0 to 3 percent

Surface layer texture: Silt loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Moderately well drained

Flooding: None

Wet soil moisture status is highest (depth, months):

1.5 feet April

Wet soil moisture status is lowest (depth, months):

More than 5.0 feet February August

Ponding: None

Available water capacity to a depth of 60 inches: 11.1 inches

Content of organic matter in the upper 10 inches: 6.0 percent

Typical profile:

Ap--0 to 10 inches; silt loam

Bw--10 to 37 inches; silty clay loam

C--37 to 60 inches; silt loam

211--Lura Silty Clay

Component Description

Lura and similar soils

Extent: 100 percent of the unit

Geomorphic description:

Depression

Slope range: 0 to 1 percent

Surface layer texture: Silty clay

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Very poorly drained

Flooding: None

Wet soil moisture status is highest (depth, months):

At the surface March April

Wet soil moisture status is lowest (depth, months):

2.0 feet February August

Ponding does not occur (months):

January February May June July August September October
November December

Ponding is deepest (depth, months):

1.0 foot April

Available water capacity to a depth of 60 inches: 9.5 inches
Content of organic matter in the upper 10 inches: 8.0 percent
Typical profile:

A--0 to 34 inches; silty clay
Bg--34 to 50 inches; silty clay
Cg--50 to 60 inches; silty clay

229--Waldorf Silty Clay Loam

Component Description

Waldorf and similar soils

Extent: 90 percent of the unit

Geomorphic description:

Flat

Slope range: 0 to 1 percent

Surface layer texture: Silty clay loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Poorly drained

Flooding: None

Wet soil moisture status is highest (depth, months):

0.5 foot April May

Wet soil moisture status is lowest (depth, months):

2.6 feet February August

Ponding: None

Available water capacity to a depth of 60 inches: 11.0 inches

Content of organic matter in the upper 10 inches: 7.0 percent

Typical profile:

Ap--0 to 10 inches; silty clay loam
Bg--10 to 38 inches; silty clay
Cg--38 to 60 inches; silty clay loam

230A--Guckeen Silty Clay Loam, 0 To 3 Percent Slopes

Component Description

Guckeen and similar soils

Extent: 85 percent of the unit

Slope range: 0 to 3 percent

Surface layer texture: Silty clay loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained

Flooding: None

Wet soil moisture status is highest (depth, months):

1.5 feet April May

Wet soil moisture status is lowest (depth, months):

4.9 feet February August

Ponding: None

Available water capacity to a depth of 60 inches: 9.8 inches

Content of organic matter in the upper 10 inches: 5.0 percent

Typical profile:

A--0 to 16 inches; silty clay loam
Bw1--16 to 24 inches; silty clay loam
2Bw2--24 to 32 inches; clay loam
2Cg--32 to 60 inches; loam

230B--Guckeen Silty Clay Loam, 3 To 6 Percent Slopes

Component Description

Guckeen and similar soils

Extent: 85 percent of the unit

Slope range: 3 to 6 percent

Surface layer texture: Silty clay loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Moderately well drained

Flooding: None

Wet soil moisture status is highest (depth, months):

2.5 feet April May

Wet soil moisture status is lowest (depth, months):

More than 5.0 feet February August

Ponding: None

Available water capacity to a depth of 60 inches: 9.8 inches

Content of organic matter in the upper 10 inches: 5.0 percent

Typical profile:

A--0 to 17 inches; silty clay loam

Bw--17 to 24 inches; silty clay loam

2C--24 to 60 inches; clay loam

247--Linder Loam

Component Description

Linder and similar soils

Extent: 90 percent of the unit

Slope range: 0 to 2 percent

Surface layer texture: Loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained

Flooding: None

Wet soil moisture status is highest (depth, months):

1.3 feet April

Wet soil moisture status is lowest (depth, months):

3.0 feet August

Ponding: None

Available water capacity to a depth of 60 inches: 6.3 inches

Content of organic matter in the upper 10 inches: 3.5 percent

Typical profile:

A--0 to 22 inches; loam

Bw--22 to 26 inches; sandy loam

2C--26 to 60 inches; gravelly coarse sand

248--Lomax Loam

Component Description

Lomax and similar soils

Extent: 90 percent of the unit

Slope range: 0 to 3 percent

Surface layer texture: Loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Well drained

Flooding does not occur (months):

January February June July August September October

November December
Flooding is most likely (frequency, months):
Rare March April May
Depth to wet soil moisture status: More than 5.0 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 10.6 inches
Content of organic matter in the upper 10 inches: 3.0 percent
Typical profile:
A--0 to 25 inches; loam
Bw--25 to 60 inches; sandy loam

255--Mayer Loam

Component Description

Mayer and similar soils

Extent: 90 percent of the unit
Geomorphic description:
Flat
Slope range: 0 to 2 percent
Surface layer texture: Loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months):
0.5 foot April
Wet soil moisture status is lowest (depth, months):
2.0 feet August
Ponding: None
Available water capacity to a depth of 60 inches: 8.3 inches
Content of organic matter in the upper 10 inches: 6.0 percent
Typical profile:
A--0 to 23 inches; loam
Bg--23 to 39 inches; sandy clay loam
2C--39 to 60 inches; coarse sand

269--Millington Clay Loam

Component Description

Millington and similar soils

Extent: 90 percent of the unit
Geomorphic description:
Flood plain
Slope range: 0 to 2 percent
Surface layer texture: Clay loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Poorly drained
Flooding does not occur (months):
January February September October November December
Flooding is most likely (frequency, months):
Occasional March April May June July August
Wet soil moisture status is highest (depth, months):
0.5 foot April
Wet soil moisture status is lowest (depth, months):
3.3 feet February August
Ponding: None
Available water capacity to a depth of 60 inches: 11.3 inches

Content of organic matter in the upper 10 inches: 5.0 percent

Typical profile:

A--0 to 24 inches; clay loam

Bg--24 to 43 inches;

Cg--43 to 60 inches; stratified sandy loam to loam to clay loam

275B--Ocheyedan Loam, 2 To 6 Percent Slopes

Component Description

Ocheyedan and similar soils

Extent: 85 percent of the unit

Slope range: 2 to 6 percent

Surface layer texture: Loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Well drained

Flooding: None

Wet soil moisture status is highest (depth, months):

3.6 feet April

Wet soil moisture status is lowest (depth, months):

More than 5.0 feet January February July August
September October December

Ponding: None

Available water capacity to a depth of 60 inches: 11.5 inches

Content of organic matter in the upper 10 inches: 3.5 percent

Typical profile:

Ap--0 to 10 inches; loam

Bw--10 to 30 inches; loam

2C--30 to 60 inches; stratified loam to silt loam

275C2--Ocheyedan Loam, 6 To 12 Percent Slopes, Eroded

Component Description

Ocheyedan and similar soils

Extent: 85 percent of the unit

Slope range: 6 to 12 percent

Surface layer texture: Loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Well drained

Flooding: None

Depth to wet soil moisture status: More than 5.0 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 12.2 inches

Content of organic matter in the upper 10 inches: 2.4 percent

Typical profile:

Ap--0 to 9 inches; loam

Bw--9 to 23 inches; loam

2C--23 to 60 inches; stratified loam to silt loam

281--Darfur Loam

Component Description

Darfur and similar soils

Extent: 90 percent of the unit

Geomorphic description:

Flat
Slope range: 0 to 1 percent
Surface layer texture: Loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months):
0.5 foot April
Wet soil moisture status is lowest (depth, months):
2.0 feet August
Ponding: None
Available water capacity to a depth of 60 inches: 9.0 inches
Content of organic matter in the upper 10 inches: 6.5 percent
Typical profile:
A--0 to 22 inches; loam
Bg--22 to 36 inches; fine sandy loam
Cg--36 to 60 inches; stratified loamy sand to loamy fine sand to fine sandy loam

286A--Shorewood Silty Clay Loam, 0 To 3 Percent Slopes

Component Description

Shorewood and similar soils

Extent: 85 percent of the unit
Slope range: 0 to 3 percent
Surface layer texture: Silty clay loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months):
1.5 feet April May
Wet soil moisture status is lowest (depth, months):
4.9 feet February August
Ponding: None
Available water capacity to a depth of 60 inches: 9.5 inches
Content of organic matter in the upper 10 inches: 6.0 percent
Typical profile:
Ap--0 to 11 inches; silty clay loam
Bt--11 to 37 inches; silty clay
C--37 to 60 inches; silty clay loam

286B--Shorewood Silty Clay Loam, 3 To 6 Percent Slopes

Component Description

Shorewood and similar soils

Extent: 85 percent of the unit
Slope range: 3 to 6 percent
Surface layer texture: Silty clay loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Moderately well drained
Flooding: None
Wet soil moisture status is highest (depth, months):
2.5 feet April May
Wet soil moisture status is lowest (depth, months):
More than 5.0 feet February August

Ponding: None
Available water capacity to a depth of 60 inches: 9.5 inches
Content of organic matter in the upper 10 inches: 6.0 percent
Typical profile:
Ap--0 to 10 inches; silty clay loam
Bt--10 to 35 inches; silty clay loam
C--35 to 60 inches; clay loam

286C2--Shorewood Silty Clay Loam, 6 To 12 Percent Slopes, Eroded

Component Description

Shorewood and similar soils

Extent: 90 percent of the unit
Slope range: 6 to 12 percent
Surface layer texture: Silty clay loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Moderately well drained
Flooding: None
Wet soil moisture status is highest (depth, months):
2.5 feet April May
Wet soil moisture status is lowest (depth, months):
More than 5.0 feet February August December
Ponding: None
Available water capacity to a depth of 60 inches: 9.4 inches
Content of organic matter in the upper 10 inches: 4.3 percent
Typical profile:
Ap--0 to 9 inches; silty clay loam
Bt--9 to 29 inches; silty clay
C--29 to 60 inches; silty clay loam

287--Minnetonka Silty Clay Loam

Component Description

Minnetonka and similar soils

Extent: 90 percent of the unit
Geomorphic description:
Flat
Slope range: 0 to 2 percent
Surface layer texture: Silty clay loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months):
0.5 foot April May
Wet soil moisture status is lowest (depth, months):
2.6 feet February August
Ponding: None
Available water capacity to a depth of 60 inches: 10.5 inches
Content of organic matter in the upper 10 inches: 6.0 percent
Typical profile:
Ap--0 to 10 inches; silty clay loam
Btg--10 to 43 inches; silty clay loam
Cg--43 to 60 inches; silty clay loam

310--Beauford Silty Clay

Component Description

Beauford and similar soils

Extent: 90 percent of the unit

Geomorphic description:

Flat

Slope range: 0 to 2 percent

Surface layer texture: Silty clay

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Poorly drained

Flooding: None

Wet soil moisture status is highest (depth, months):

0.5 foot April May

Wet soil moisture status is lowest (depth, months):

2.6 feet February August

Ponding: None

Available water capacity to a depth of 60 inches: 7.7 inches

Content of organic matter in the upper 10 inches: 6.0 percent

Typical profile:

Ap--0 to 9 inches; silty clay

A--9 to 22 inches; silty clay

Bg--22 to 45 inches; clay

Cg--45 to 60 inches; stratified silty clay loam to silty clay

313--Spillville Loam

Component Description

Spillville and similar soils

Extent: 90 percent of the unit

Slope range: 0 to 2 percent

Surface layer texture: Loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained

Flooding does not occur (months):

January February September October November December

Flooding is most likely (frequency, months):

Occasional March April May June July August

Wet soil moisture status is highest (depth, months):

1.5 feet April

Wet soil moisture status is lowest (depth, months):

More than 5.0 feet February August

Ponding: None

Available water capacity to a depth of 60 inches: 10.7 inches

Content of organic matter in the upper 10 inches: 5.0 percent

Typical profile:

A1--0 to 19 inches; loam

A2--19 to 51 inches; loam

C--51 to 60 inches; loam

319--Barbert Silty Clay Loam

Component Description

Barbert and similar soils

Extent: 90 percent of the unit

Geomorphic description:

Depression
Slope range: 0 to 1 percent
Surface layer texture: Silty clay loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Very poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months):
At the surface March April
Wet soil moisture status is lowest (depth, months):
2.0 feet February August
Ponding does not occur (months):
January February May June July August September October
November December
Ponding is deepest (depth, months):
1.0 foot April
Available water capacity to a depth of 60 inches: 10.9 inches
Content of organic matter in the upper 10 inches: 6.0 percent
Typical profile:
A--0 to 14 inches; silty clay loam
E--14 to 25 inches; silt loam
Btg--25 to 45 inches; clay
Cg--45 to 60 inches; silty clay

336--Delft Loam

Component Description

Delft and similar soils
Extent: 90 percent of the unit
Geomorphic description:
Drainageway
Slope range: 1 to 3 percent
Surface layer texture: Loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months):
0.5 foot April
Wet soil moisture status is lowest (depth, months):
3.3 feet February August
Ponding: None
Available water capacity to a depth of 60 inches: 11.9 inches
Content of organic matter in the upper 10 inches: 5.0 percent
Typical profile:
Ap--0 to 12 inches; loam
A--12 to 25 inches; loam
Bg--25 to 50 inches; clay loam
Cg--50 to 60 inches; loam

392--Biscay Loam

Component Description

Biscay and similar soils
Extent: 90 percent of the unit
Geomorphic description:
Flat
Slope range: 0 to 2 percent

Surface layer texture: Loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months):
0.5 foot April
Wet soil moisture status is lowest (depth, months):
2.0 feet August
Ponding: None
Available water capacity to a depth of 60 inches: 7.8 inches
Content of organic matter in the upper 10 inches: 6.0 percent
Typical profile:
A--0 to 20 inches; loam
Bg--20 to 36 inches; sandy clay loam
2Cg--36 to 60 inches; stratified loamy sand to gravelly coarse sand

525--Muskego Muck

Component Description

Muskego and similar soils
Extent: 100 percent of the unit
Geomorphic description:
Depression
Slope range: 0 to 2 percent
Surface layer texture:
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Very poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months):
At the surface March April
Wet soil moisture status is lowest (depth, months):
2.0 feet February August
Ponding does not occur (months):
January February May June July August September October
November December
Ponding is deepest (depth, months):
1.0 foot April
Available water capacity to a depth of 60 inches: 18.6 inches
Content of organic matter in the upper 10 inches: 75.0 percent
Typical profile:
Oa--0 to 32 inches;
2Cg--32 to 60 inches; coprogenous earth

539--Klossner Muck

Component Description

Klossner and similar soils
Extent: 100 percent of the unit
Geomorphic description:
Depression
Slope range: 0 to 1 percent
Surface layer texture:
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Very poorly drained

Flooding: None
Wet soil moisture status is highest (depth, months):
At the surface March April
Wet soil moisture status is lowest (depth, months):
2.0 feet February August
Ponding does not occur (months):
January February May June July August September October
November December
Ponding is deepest (depth, months):
1.0 foot April
Available water capacity to a depth of 60 inches: 16.7 inches
Content of organic matter in the upper 10 inches: 42.5 percent
Typical profile:
Oa--0 to 25 inches;
2A--25 to 33 inches; silty clay loam
2Cg--33 to 60 inches; silty clay loam

887B--Clarion-Swanlake Complex, 2 To 6 Percent Slopes

Component Description

Clarion and similar soils

Extent: 45 percent of the unit
Slope range: 2 to 5 percent
Surface layer texture: Loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Wet soil moisture status is highest (depth, months):
3.6 feet April
Wet soil moisture status is lowest (depth, months):
More than 5.0 feet January February July August
September October December
Ponding: None
Available water capacity to a depth of 60 inches: 11.2 inches
Content of organic matter in the upper 10 inches: 4.5 percent
Typical profile:
A--0 to 14 inches; loam
Bw--14 to 29 inches; loam
C--29 to 60 inches; loam

Swanlake and similar soils

Extent: 30 percent of the unit
Slope range: 4 to 6 percent
Surface layer texture: Loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Wet soil moisture status is highest (depth, months):
3.6 feet April
Wet soil moisture status is lowest (depth, months):
More than 5.0 feet January February July August
September October December
Ponding: None
Available water capacity to a depth of 60 inches: 11.2 inches
Content of organic matter in the upper 10 inches: 3.0 percent
Typical profile:
Ap--0 to 11 inches; loam
Bk--11 to 24 inches; loam

C2--24 to 60 inches; loam

909C2--Truman-Bold Complex, 6 To 12 Percent Slopes, Eroded

Component Description

Truman and similar soils

Extent: 50 percent of the unit
Slope range: 6 to 10 percent
Surface layer texture: Silt loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 5.0 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 11.7 inches
Content of organic matter in the upper 10 inches: 5.0 percent
Typical profile:
Ap--0 to 10 inches; silt loam
Bw--10 to 18 inches; silt loam
C--18 to 60 inches; silt loam

Bold and similar soils

Extent: 35 percent of the unit
Slope range: 8 to 12 percent
Surface layer texture: Silt loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 5.0 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 13.2 inches
Content of organic matter in the upper 10 inches: 1.1 percent
Typical profile:
Ap--0 to 8 inches; silt loam
C--8 to 60 inches; silt loam

909D2--Bold-Truman Complex, 12 To 18 Percent Slopes, Eroded

Component Description

Bold and similar soils

Extent: 40 percent of the unit
Slope range: 14 to 18 percent
Surface layer texture: Silt loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 5.0 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 13.3 inches
Content of organic matter in the upper 10 inches: 0.7 percent
Typical profile:
Ap--0 to 9 inches; silt loam
C--9 to 60 inches; silt loam

Truman and similar soils

Component Description

Clarion and similar soils

Extent: 30 percent of the unit
Slope range: 6 to 12 percent
Surface layer texture: Loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 5.0 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 11.0 inches
Content of organic matter in the upper 10 inches: 2.9 percent
Typical profile:
Ap--0 to 9 inches; loam
Bw--9 to 27 inches; loam
C--27 to 60 inches; loam

Estherville and similar soils

Extent: 20 percent of the unit
Slope range: 6 to 12 percent
Surface layer texture: Sandy loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Flooding: None
Depth to wet soil moisture status: More than 5.0 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.0 inches
Content of organic matter in the upper 10 inches: 2.0 percent
Typical profile:
A--0 to 17 inches; sandy loam
2C--17 to 60 inches; coarse sand

Storden and similar soils

Extent: 20 percent of the unit
Slope range: 8 to 12 percent
Surface layer texture: Loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 5.0 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 10.5 inches
Content of organic matter in the upper 10 inches: 1.4 percent
Typical profile:
H1--0 to 9 inches; loam
H3--9 to 60 inches; loam

920D2--Clarion-Storden-Estherville Complex, 12 To 18 Percent Slopes, Eroded

Component Description

Clarion and similar soils

Extent: 30 percent of the unit
Slope range: 12 to 16 percent
Surface layer texture: Loam
Depth to restrictive feature:
Very deep (more than 60 inches)

Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 5.0 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 11.1 inches
Content of organic matter in the upper 10 inches: 2.0 percent
Typical profile:
Ap--0 to 10 inches; loam
Bw--10 to 22 inches; loam
C--22 to 60 inches; loam

Storden and similar soils

Extent: 25 percent of the unit
Slope range: 14 to 18 percent
Surface layer texture: Loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 5.0 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 10.5 inches
Content of organic matter in the upper 10 inches: 0.9 percent
Typical profile:
Ap--0 to 8 inches; loam
C2--8 to 60 inches; loam

Estherville and similar soils

Extent: 20 percent of the unit
Slope range: 12 to 18 percent
Surface layer texture: Sandy loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Flooding: None
Depth to wet soil moisture status: More than 5.0 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 3.9 inches
Content of organic matter in the upper 10 inches: 1.5 percent
Typical profile:
A--0 to 16 inches; sandy loam
2C--16 to 60 inches; loamy coarse sand

921C2--Clarion-Storden Complex, 6 To 12 Percent Slopes, Eroded

Component Description

Clarion and similar soils

Extent: 50 percent of the unit
Slope range: 6 to 12 percent
Surface layer texture: Loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 5.0 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 11.1 inches
Content of organic matter in the upper 10 inches: 3.0 percent
Typical profile:
Ap--0 to 10 inches; loam

Bw--10 to 18 inches; loam
C--18 to 60 inches; loam

Storden and similar soils

Extent: 30 percent of the unit
Slope range: 6 to 12 percent
Surface layer texture: Loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 5.0 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 10.5 inches
Content of organic matter in the upper 10 inches: 1.4 percent
Typical profile:
Ap--0 to 9 inches; loam
C--9 to 60 inches; loam

929--Fieldon-Canisteo Complex

Component Description

Fieldon and similar soils

Extent: 50 percent of the unit
Geomorphic description:
Flat
Slope range: 0 to 1 percent
Surface layer texture: Loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months):
0.5 foot April
Wet soil moisture status is lowest (depth, months):
2.0 feet August
Ponding: None
Available water capacity to a depth of 60 inches: 7.6 inches
Content of organic matter in the upper 10 inches: 6.5 percent
Typical profile:
A--0 to 23 inches; loam
Bg--23 to 33 inches; stratified very fine sandy loam to loam
Cg--33 to 60 inches; stratified loamy very fine sand to very fine sandy loam

Canisteo and similar soils

Extent: 30 percent of the unit
Geomorphic description:
Flat
Slope range: 0 to 2 percent
Surface layer texture: Loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months):
0.5 foot April
Wet soil moisture status is lowest (depth, months):
3.3 feet February August
Ponding: None

Available water capacity to a depth of 60 inches: 10.4 inches
Content of organic matter in the upper 10 inches: 6.0 percent
Typical profile:

A--0 to 20 inches; loam
Bg--20 to 31 inches; loam
Cg--31 to 60 inches; loam

956--Canisteo-Glencoe Complex

Component Description

Canisteo and similar soils

Extent: 50 percent of the unit
Geomorphic description:

Rim
Slope range: 0 to 2 percent
Surface layer texture: Clay loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months):
0.5 foot April
Wet soil moisture status is lowest (depth, months):
3.3 feet February August
Ponding: None
Available water capacity to a depth of 60 inches: 10.0 inches
Content of organic matter in the upper 10 inches: 6.0 percent
Typical profile:
A--0 to 16 inches; clay loam
Bg--16 to 28 inches; clay loam
Cg--28 to 60 inches; loam

Glencoe and similar soils

Extent: 25 percent of the unit
Geomorphic description:

Depression
Slope range: 0 to 1 percent
Surface layer texture: Clay loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Very poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months):
At the surface March April
Wet soil moisture status is lowest (depth, months):
2.0 feet February August
Ponding does not occur (months):
January February May June July August September October
November December
Ponding is deepest (depth, months):
1.0 foot April
Available water capacity to a depth of 60 inches: 11.1 inches
Content of organic matter in the upper 10 inches: 7.5 percent
Typical profile:
A--0 to 24 inches; clay loam
Bg--24 to 30 inches; silty clay loam
Cg--30 to 60 inches; clay loam

960D2--Storden-Clarion Complex, 12 To 18 Percent Slopes, Eroded

Component Description

Storden and similar soils

Extent: 35 percent of the unit
Slope range: 14 to 18 percent
Surface layer texture: Loam
Depth to restrictive feature:
 Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 5.0 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 10.5 inches
Content of organic matter in the upper 10 inches: 0.9 percent
Typical profile:
 Ap--0 to 9 inches; loam
 C2--9 to 60 inches; loam

Clarion and similar soils

Extent: 30 percent of the unit
Slope range: 12 to 16 percent
Surface layer texture: Loam
Depth to restrictive feature:
 Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 5.0 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 11.0 inches
Content of organic matter in the upper 10 inches: 1.9 percent
Typical profile:
 Ap--0 to 9 inches; loam
 Bw--9 to 18 inches; loam
 C--18 to 60 inches; loam

960E--Storden-Clarion Complex, 18 To 24 Percent Slopes

Component Description

Storden and similar soils

Extent: 35 percent of the unit
Slope range: 18 to 24 percent
Surface layer texture: Loam
Depth to restrictive feature:
 Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 5.0 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 10.4 inches
Content of organic matter in the upper 10 inches: 0.9 percent
Typical profile:
 A--0 to 5 inches; loam
 C--5 to 60 inches; loam

Clarion and similar soils

Extent: 30 percent of the unit
Slope range: 18 to 24 percent
Surface layer texture: Loam
Depth to restrictive feature:

Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 5.0 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 11.3 inches
Content of organic matter in the upper 10 inches: 3.0 percent
Typical profile:
A--0 to 16 inches; loam
Bw--16 to 26 inches; loam
C--26 to 60 inches; loam

1030--Pits, Gravel-Udorthents Complex

Component Description

Pits

Extent: 50 percent of the unit

Udorthents and similar soils

Extent: 40 percent of the unit

Slope range: 0 to 50 percent

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Well drained

Flooding: None

Depth to wet soil moisture status: More than 5.0 feet all year

Ponding: None

Udorthents comprise nearly level to gently undulating areas that have been graded and the cut and fill material is dominantly loamy parent material. Natural soil profiles are of limited extent. The hydrology on this landform has been altered and because of the variability of this component in this map unit, interpretations for specific uses are not available. Onsite investigation is needed.

1052--Klossner-Okoboji Complex, Poned

Component Description

Klossner and similar soils

Extent: 60 percent of the unit

Geomorphic description:

Depression

Slope range: 0 to 1 percent

Surface layer texture: Muck

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Very poorly drained

Flooding: None

Wet soil moisture status: At the surface all year

Ponding: At 1.5 feet all year

Available water capacity to a depth of 60 inches: 15.6 inches

Content of organic matter in the upper 10 inches: 42.5 percent

Typical profile:

Oa--0 to 22 inches; muck

A--22 to 60 inches; silty clay loam

Okoboji and similar soils

Extent: 30 percent of the unit
Geomorphic description:
Depression
Slope range: 0 to 1 percent
Surface layer texture: Silty clay loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Very poorly drained
Flooding: None
Wet soil moisture status: At the surface all year
Ponding: At 1.5 feet all year
Available water capacity to a depth of 60 inches: 11.4 inches
Content of organic matter in the upper 10 inches: 7.4 percent
Typical profile:
Ap--0 to 9 inches; silty clay loam
A1--9 to 24 inches; silty clay loam
A2--24 to 60 inches; silty clay loam

1356--Water, Miscellaneous

Component Description

Water, miscellaneous

Extent: 100 percent of the unit

Miscellaneous water map units are not naturally occurring water areas. They are man made and include: sewage lagoons, storm water sediment basins with a permanent pool of water, and aquaculture ponds. This map unit is not soil, no interpretations assigned.

1833--Coland Silty Clay Loam, Occasionally Flooded

Component Description

Coland and similar soils

Extent: 90 percent of the unit

Geomorphic description:

Flood plain

Slope range: 0 to 2 percent

Surface layer texture: Silty clay loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Poorly drained

Flooding does not occur (months):

January February September October November December

Flooding is most likely (frequency, months):

Occasional March April May June July August

Wet soil moisture status is highest (depth, months):

0.5 foot April

Wet soil moisture status is lowest (depth, months):

3.3 feet February August

Ponding: None

Available water capacity to a depth of 60 inches: 10.5 inches

Content of organic matter in the upper 10 inches: 6.0 percent

Typical profile:

Ap--0 to 10 inches; silty clay loam

A--10 to 25 inches; clay loam

Cg--25 to 60 inches; loam

1834--Coland Loam, Frequently Flooded

Component Description

Coland and similar soils

Extent: 90 percent of the unit

Geomorphic description:

Flood plain

Slope range: 0 to 2 percent

Surface layer texture: Loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Poorly drained

Flooding does not occur (months):

January February September October November December

Flooding is most likely (frequency, months):

Frequent March April May June

Wet soil moisture status is highest (depth, months):

0.5 foot April

Wet soil moisture status is lowest (depth, months):

3.3 feet February August

Ponding: None

Available water capacity to a depth of 60 inches: 11.1 inches

Content of organic matter in the upper 10 inches: 6.0 percent

Typical profile:

A1--0 to 12 inches; loam

A2--12 to 36 inches; clay loam

Cg--36 to 60 inches; loam

1852F--Swanlake-Terril Complex, 18 To 40 Percent Slopes

Component Description

Swanlake and similar soils

Extent: 45 percent of the unit

Slope range: 20 to 40 percent

Surface layer texture: Loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Well drained

Flooding: None

Depth to wet soil moisture status: More than 5.0 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 11.2 inches

Content of organic matter in the upper 10 inches: 3.0 percent

Typical profile:

A--0 to 12 inches; loam

Bk--12 to 16 inches; loam

C2--16 to 60 inches; loam

Terril and similar soils

Extent: 35 percent of the unit

Slope range: 18 to 30 percent

Surface layer texture: Loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Moderately well drained

Flooding: None

Depth to wet soil moisture status: More than 5.0 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 11.5 inches
Content of organic matter in the upper 10 inches: 4.0 percent
Typical profile:

A--0 to 29 inches; loam
Bw--29 to 48 inches; clay loam
C--48 to 60 inches; loam

1877--Fostoria Loam

Component Description

Fostoria and similar soils

Extent: 85 percent of the unit

Slope range: 0 to 3 percent

Surface layer texture: Loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained

Flooding: None

Wet soil moisture status is highest (depth, months):

1.5 feet April

Wet soil moisture status is lowest (depth, months):

More than 5.0 feet February August

Ponding: None

Available water capacity to a depth of 60 inches: 12.6 inches

Content of organic matter in the upper 10 inches: 5.5 percent

Typical profile:

Ap--0 to 10 inches; loam

Bw--10 to 32 inches; clay loam

2C--32 to 60 inches; stratified fine sandy loam to loam to silt loam

1907--Lakefield Silt Loam

Component Description

Lakefield and similar soils

Extent: 85 percent of the unit

Slope range: 0 to 3 percent

Surface layer texture: Silt loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Moderately well drained

Flooding: None

Wet soil moisture status is highest (depth, months):

1.5 feet April

Wet soil moisture status is lowest (depth, months):

More than 5.0 feet February August

Ponding: None

Available water capacity to a depth of 60 inches: 11.3 inches

Content of organic matter in the upper 10 inches: 6.0 percent

Typical profile:

A--0 to 18 inches; silt loam

C--18 to 60 inches; silt loam

W--Water

Component Description

Water

Extent: 100 percent of the unit

Geomorphic description:

Miscellaneous water map units are naturally occurring bodies of water.

they normally have permanent ponding of water. this map unit is not soil, no interpretations assigned.