

Soil Descriptions - Non Technical

B109A--Bowstring And Fluvaquents Soils, Mlra 88, 0 To 2 Percent Slopes,
Frequently Flooded

Component Description

Bowstring and similar soils

Extent: 45 percent of the unit

Geomorphic description:

Swale on flood plain

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

Parent material:

Organic material over alluvium

Flooding does not occur (months):

January February December

Flooding is most likely (frequency, months):

Very frequent April May

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

At the surface March April May June

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

2.1 feet February

Ponding is shallowest (depth, months):

0.3 foot January February July August

September October November

December

Ponding is deepest (depth, months):

0.5 foot March April May June

Available water capacity to a depth of 60 inches: 21.4 inches

Content of organic matter in the upper 10 inches: 65.0 percent

Typical profile:

Oa1-2--0 to 38 inches; muck

Cg--38 to 47 inches; stratified sand to fine sandy loam

O'a1--47 to 80 inches; muck

Fluvaquents and similar soils

Extent: 40 percent of the unit

Geomorphic description:

Flat on flood plain

Swale on flood plain

Slope range: 0 to 2 percent

Surface layer texture: Fine sandy loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material:

Alluvium

Flooding does not occur (months):

January February December

Flooding is most likely (frequency, months):

Very frequent April May

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

At the surface March April May

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

1.6 feet February August

Ponding is shallowest (depth, months):

0.5 foot January February March June July

August September October

November December

Ponding is deepest (depth, months):

0.7 foot April May

Available water capacity to a depth of 60 inches: 8.1 inches

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

Typical profile:

A--0 to 16 inches; fine sandy loam
Cg--16 to 80 inches; stratified loamy sand to silt loam

B200A--Garnes Fine Sandy Loam, 0 To 3 Percent Slopes

Component Description

Garnes and similar soils
Extent: 70 percent of the unit
Geomorphic description:
Rise on lake plain
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
Parent material:
Glaciolacustrine deposits and till
Flooding: None
Wet soil moisture status is highest (depth, months):
2.5 feet April
Wet soil moisture status is lowest (depth, months):
6.7 feet (transitory) August
Ponding: None
Available water capacity to a depth of 60 inches: 10.0 inches
Content of organic matter in the upper 10 inches: 1.1 percent
Typical profile:
Ap--0 to 6 inches; fine sandy loam
E--6 to 9 inches; loamy fine sand
Bt--9 to 14 inches; clay loam
Bk1-2--14 to 72 inches; loam
C--72 to 80 inches; loam

B201A--Chilgren Fine Sandy Loam, 0 To 2 Percent Slopes

Component Description

Chilgren and similar soils
Extent: 75 percent of the unit
Geomorphic description:
Swale on lake plain
Flat on lake plain
Slope range: 0 to 2 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material:
Till
Flooding: None
Wet soil moisture status is highest (depth, months):
0.5 foot April
Wet soil moisture status is lowest (depth, months):
3.8 feet August
Ponding does not occur (months):
January February March July August December
Ponding is deepest (depth, months):
0.3 foot April May June September October
November
Available water capacity to a depth of 60 inches: 9.9 inches
Content of organic matter in the upper 10 inches: 1.1 percent
Typical profile:
A--0 to 4 inches; fine sandy loam
E--4 to 10 inches; loamy fine sand
Btg--10 to 18 inches; clay loam
Bkg--18 to 29 inches; loam
Cg1-2--29 to 80 inches; loam

B202A--Cathro Muck, Depressional, Mlra 88, 0 To 1 Percent Slopes

Component Description

Cathro and similar soils

Extent: 80 percent of the unit

Geomorphic description:

Depression on lake plain

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

Parent material:

Organic material over till

Flooding: None

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

At the surface March April May June

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

2.1 feet February

Ponding is shallowest (depth, months):

0.3 foot January February July August

September October November

December

Ponding is deepest (depth, months):

0.5 foot March April May June

Available water capacity to a depth of 60 inches: 15.9 inches

Content of organic matter in the upper 10 inches: 85.0 percent

Typical profile:

Oa1-Oa2--0 to 11 inches; muck

Oa3--11 to 23 inches; muck

Cg--23 to 60 inches; loam

B203A--Northwood Muck, Depressional, Mlra 88, 0 To 1 Percent Slopes

Component Description

Northwood and similar soils

Extent: 75 percent of the unit

Geomorphic description:

Depression on lake plain

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

Parent material:

Organic material over glaciolacustrine deposits and/or till

Flooding: None

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

At the surface March April May

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

2.5 feet February

Ponding is shallowest (depth, months):

0.3 foot July August September

Ponding is deepest (depth, months):

0.5 foot January February March April May

June October November December

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

Content of organic matter in the upper 10 inches: 78.6 percent

Typical profile:

Oa--0 to 9 inches; muck

A--9 to 14 inches; loamy fine sand

Bg1-2--14 to 24 inches; loamy fine sand

2BCKg-2Cg--24 to 80 inches; loam

B204A--Roliss Loam, Mlra 88, 0 To 2 Percent Slopes

Component Description

Roliss and similar soils

Extent: 75 percent of the unit

Geomorphic description:

Flat on lake plain

Swale on lake 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
Parent material:
 Till
Flooding: None
Wet soil moisture status is highest (depth, months):
 0.5 foot April
Wet soil moisture status is lowest (depth, months):
 3.8 feet August
Ponding does not occur (months):
 January February March July August December
Ponding is deepest (depth, months):
 0.3 foot April May June September October
 November
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:
 Ap,A--0 to 14 inches; loam
 Bg--14 to 20 inches; loam
 Cg1-4--20 to 80 inches; loam

B205A--Bernier Muck, Depressional, Mlra 88, 0 To 1 Percent Slopes

Component Description

Bernier and similar soils
Extent: 80 percent of the unit
Geomorphologic description:
 Depression on lake plain
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
Parent material:
 Organic material over glaciolacustrine deposits and/or till
Flooding: None
Wet soil moisture status is highest (depth, months):
 At the surface March April May June
Wet soil moisture status is lowest (depth, months):
 2.1 feet February
Ponding is shallowest (depth, months):
 0.3 foot January February July August
 September October November
 December
Ponding is deepest (depth, months):
 0.5 foot March April May June
Available water capacity to a depth of 60 inches: 15.9 inches
Content of organic matter in the upper 10 inches: 85.0 percent
Typical profile:
 Oa1-2--0 to 28 inches; muck
 A--28 to 31 inches; sandy loam
 Bg--31 to 44 inches; sand
 2CBkg--44 to 80 inches; loam

B206A--Hamre Muck, Depressional, Mlra 88, 0 To 1 Percent Slopes

Component Description

Hamre and similar soils
Extent: 80 percent of the unit
Geomorphologic description:
 Depression on lake plain
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 is highest (depth, months):
 At the surface March April May
 Wet soil moisture status is lowest (depth, months):
 2.5 feet February
 Ponding is shallowest (depth, months):
 0.3 foot July August September
 Ponding is deepest (depth, months):
 0.5 foot January February March April May
 June October November December
 Available water capacity to a depth of 60 inches: 13.3 inches
 Content of organic matter in the upper 10 inches: 85.0 percent
 Typical profile:
 Oa--0 to 13 inches; muck
 A--13 to 18 inches; loam
 Bg1-2--18 to 71 inches; loam
 Cg--71 to 80 inches; loam

I1A--Augsburg Loam, 0 To 2 Percent Slopes

Component Description

Augsburg and similar soils
 Extent: 75 percent of the unit
 Geomorphic description:
 Flat on lake plain
 Swale on lake 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
 Parent material:
 Glaciolacustrine deposits over till
 Flooding: None
 Wet soil moisture status is highest (depth, months):
 0.5 foot April
 Wet soil moisture status is lowest (depth, months):
 3.8 feet August
 Ponding does not occur (months):
 January February March July August December
 Ponding is deepest (depth, months):
 0.3 foot April May June September October
 November
 Available water capacity to a depth of 60 inches: 10.0 inches
 Content of organic matter in the upper 10 inches: 5.0 percent
 Typical profile:
 Ap,A--0 to 11 inches; loam
 Bkg--11 to 18 inches; very fine sandy loam
 Bg1--18 to 33 inches; loamy very fine sand
 2Bg2--33 to 60 inches; clay

I2A--Augsburg Very Fine Sandy Loam, 0 To 2 Percent Slopes

Component Description

Augsburg and similar soils
 Extent: 75 percent of the unit
 Geomorphic description:
 Flat on lake plain
 Swale on lake plain
 Slope range: 0 to 2 percent
 Surface layer texture: Very fine sandy loam
 Depth to restrictive feature:
 Very deep (more than 60 inches)
 Drainage class: Poorly drained
 Parent material:
 Glaciolacustrine deposits over till
 Flooding: None
 Wet soil moisture status is highest (depth, months):
 0.5 foot April
 Wet soil moisture status is lowest (depth, months):
 3.8 feet August

Ponding does not occur (months):
January February March July August December
Ponding is deepest (depth, months):
0.3 foot April May June September October
November
Available water capacity to a depth of 60 inches: 10.0 inches
Content of organic matter in the upper 10 inches: 5.0 percent
Typical profile:
Ap,Ak--0 to 11 inches; very fine sandy loam
Bkg--11 to 18 inches; very fine sandy loam
Bg1--18 to 33 inches; loamy very fine sand
2Bg2--33 to 60 inches; clay

I3A--Bernier Muck, 0 To 1 Percent Slopes

Component Description

Bernier and similar soils
Extent: 80 percent of the unit
Geomorphie description:
Depression on lake plain
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
Parent material:
Organic material over glaciolacustrine deposits and/or till
Flooding: None
Wet soil moisture status is highest (depth, months):
At the surface March April May June
Wet soil moisture status is lowest (depth, months):
2.1 feet February
Ponding is shallowest (depth, months):
0.3 foot January February July August
September October November
December
Ponding is deepest (depth, months):
0.5 foot March April May June
Available water capacity to a depth of 60 inches: 15.9 inches
Content of organic matter in the upper 10 inches: 85.0 percent
Typical profile:
Oa1-2--0 to 28 inches; muck
A--28 to 31 inches; sandy loam
Bg--31 to 44 inches; sand
2CBkg--44 to 80 inches; loam

I4A--Bernier, Rosewood And Strathcona Soils, Seepy, 0 To 2 Percent Slopes

Component Description

Bernier and similar soils
Extent: 0 to 90 percent of the unit
Geomorphie description:
Depression on lake plain
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
Parent material:
Organic material over glaciolacustrine deposits and/or till
Flooding: None
Wet soil moisture status is highest (depth, months):
At the surface March April May June
Wet soil moisture status is lowest (depth, months):
2.1 feet February
Ponding is shallowest (depth, months):
0.3 foot January February July August
September October November
December
Ponding is deepest (depth, months):

Flat on lake plain
Swale on lake plain
Slope range: 0 to 1 percent
Surface layer texture: Loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material:
Glaciolacustrine deposits
Flooding: None
Wet soil moisture status is highest (depth, months):
0.5 foot April
Wet soil moisture status is lowest (depth, months):
3.8 feet August
Ponding does not occur (months):
January February March July August December
Ponding is deepest (depth, months):
0.3 foot April May June
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:
Ap,A--0 to 12 inches; loam
Bkg,Bkyg--12 to 34 inches; silt loam
Cg--34 to 60 inches; very fine sandy loam

I6A--Borup Very Fine Sandy Loam, 0 To 2 Percent Slopes

Component Description

Borup and similar soils
Extent: 75 percent of the unit
Geomorphic description:
Flat on lake plain
Swale on lake plain
Slope range: 0 to 2 percent
Surface layer texture: Very fine sandy loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material:
Glaciolacustrine deposits
Flooding: None
Wet soil moisture status is highest (depth, months):
0.5 foot April
Wet soil moisture status is lowest (depth, months):
3.8 feet August
Ponding does not occur (months):
January February March July August December
Ponding is deepest (depth, months):
0.3 foot April May June
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:
Ap,A--0 to 12 inches; very fine sandy loam
Bkg,Bkyg--12 to 34 inches; silt loam
Cg--34 to 60 inches; very fine sandy loam

I7A--Bowstring-Fluvaquents Complex, 0 To 2 Percent Slopes, Frequently Flooded

Component Description

Bowstring and similar soils
Extent: 45 percent of the unit
Geomorphic description:
Swale on flood plain
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
Parent material:

Organic material over alluvium
Flooding does not occur (months):
January February December
Flooding is most likely (frequency, months):
Very frequent April May
Wet soil moisture status is highest (depth, months):
At the surface March April May June
Wet soil moisture status is lowest (depth, months):
2.1 feet February
Ponding is shallowest (depth, months):
0.3 foot January February July August
September October November
December
Ponding is deepest (depth, months):
0.5 foot March April May June
Available water capacity to a depth of 60 inches: 21.4 inches
Content of organic matter in the upper 10 inches: 65.0 percent
Typical profile:
Oa1-2--0 to 38 inches; muck
Cg--38 to 47 inches; stratified sand to fine sandy loam
O'al--47 to 80 inches; muck

Fluvaquents and similar soils

Extent: 45 percent of the unit
Geomorphic description:
Flat on flood plain
Swale on flood plain
Slope range: 0 to 2 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material:
Alluvium
Flooding does not occur (months):
January February December
Flooding is most likely (frequency, months):
Very frequent April May
Wet soil moisture status is highest (depth, months):
At the surface March April May
Wet soil moisture status is lowest (depth, months):
1.6 feet February August
Ponding is shallowest (depth, months):
0.5 foot January February March June July
August September October
November December
Ponding is deepest (depth, months):
0.7 foot April May
Available water capacity to a depth of 60 inches: 8.1 inches
Content of organic matter in the upper 10 inches: 5.0 percent
Typical profile:
A--0 to 16 inches; fine sandy loam
Cg--16 to 80 inches; stratified loamy sand to silt loam

I8A--Cathro Muck, 0 To 1 Percent Slopes

Component Description

Cathro and similar soils

Extent: 80 percent of the unit
Geomorphic description:
Depression on lake plain
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
Parent material:
Organic material over till
Flooding: None
Wet soil moisture status is highest (depth, months):
At the surface March April May June
Wet soil moisture status is lowest (depth, months):

2.1 feet February
Ponding is shallowest (depth, months):
0.3 foot January February July August
September October November
December
Ponding is deepest (depth, months):
0.5 foot March April May June
Available water capacity to a depth of 60 inches: 15.9 inches
Content of organic matter in the upper 10 inches: 85.0 percent
Typical profile:
Oa1-Oa2--0 to 11 inches; muck
Oa3--11 to 23 inches; muck
Cg--23 to 60 inches; loam

I9A--Clearwater Clay, 0 To 2 Percent Slopes

Component Description

Clearwater and similar soils
Extent: 80 percent of the unit
Geomorphic description:
Swale on lake plain
Flat on lake plain
Slope range: 0 to 1 percent
Surface layer texture: Clay
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material:
Till
Flooding: None
Wet soil moisture status is highest (depth, months):
At the surface April
Wet soil moisture status is lowest (depth, months):
3.0 feet August
Ponding does not occur (months):
January February March December
Ponding is deepest (depth, months):
0.3 foot April May June November
Available water capacity to a depth of 60 inches: 8.2 inches
Content of organic matter in the upper 10 inches: 4.2 percent
Typical profile:
Ap--0 to 8 inches; clay
Bss1-2--8 to 35 inches; clay
Cg1-2--35 to 80 inches; clay

I10A--Clearwater Mucky Clay Loam, Depressional, 0 To 1 Percent Slopes

Component Description

Clearwater, depressional and similar soils
Extent: 85 percent of the unit
Geomorphic description:
Depression on lake plain
Slope range: 0 to 1 percent
Surface layer texture: Mucky clay loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material:
Till
Flooding: None
Wet soil moisture status is highest (depth, months):
At the surface March April May
Wet soil moisture status is lowest (depth, months):
1.6 feet February August
Ponding: At 0.5 foot all year
Available water capacity to a depth of 60 inches: 9.0 inches
Content of organic matter in the upper 10 inches: 8.4 percent
Typical profile:
Ap--0 to 8 inches; mucky clay loam
Bss1-2--8 to 35 inches; clay

Cg1-2--35 to 80 inches; clay

I11A--Deerwood Muck, 0 To 1 Percent Slopes

Component Description

Deerwood and similar soils

Extent: 85 percent of the unit

Geomorphic description:

Depression on lake plain

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

Parent material:

Organic material over glaciolacustrine deposits

Flooding: None

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

At the surface March April May

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

2.5 feet February

Ponding is shallowest (depth, months):

0.3 foot July August September

Ponding is deepest (depth, months):

0.5 foot January February March April May

June October November December

Available water capacity to a depth of 60 inches: 7.1 inches

Content of organic matter in the upper 10 inches: 75.0 percent

Typical profile:

Oa--0 to 10 inches; muck

A--10 to 12 inches; loamy sand

Cg1-2--12 to 60 inches; sand

I12A--Eckvoll Loamy Fine Sand, 0 To 3 Percent Slopes

Component Description

Eckvoll and similar soils

Extent: 70 percent of the unit

Geomorphic description:

Rise on lake plain

Slope range: 0 to 3 percent

Surface layer texture: Loamy fine sand

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material:

Glaciolacustrine deposits over till

Flooding: None

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

2.5 feet April

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

6.7 feet (transitory) August

Ponding: None

Available water capacity to a depth of 60 inches: 8.3 inches

Content of organic matter in the upper 10 inches: 1.9 percent

Typical profile:

Ap--0 to 9 inches; loamy fine sand

E1-2--9 to 25 inches; fine sand

2Bt--25 to 32 inches; sandy clay loam

2BC-2C--32 to 60 inches; loam

I13A--Espelie Fine Sandy Loam, 0 To 2 Percent Slopes

Component Description

Espelie and similar soils

Extent: 75 percent of the unit

Geomorphic description:

Flat on lake plain

Swale on lake plain
Slope range: 0 to 2 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material:
Glaciolacustrine deposits over till
Flooding: None
Wet soil moisture status is highest (depth, months):
0.5 foot April
Wet soil moisture status is lowest (depth, months):
3.8 feet August
Ponding does not occur (months):
January February March July August December
Ponding is deepest (depth, months):
0.3 foot April May June
Available water capacity to a depth of 60 inches: 7.1 inches
Content of organic matter in the upper 10 inches: 5.6 percent
Typical profile:
Ap--0 to 9 inches; fine sandy loam
Bw1-2--9 to 24 inches; fine sand
2Bg-2Cg--24 to 80 inches; clay

I14B--Fairdale Silt Loam, 1 To 6 Percent Slopes, Occasionally Flooded

Component Description

Fairdale and similar soils
Extent: 85 percent of the unit
Geomorphic description:
Rise on flood plain
Stream terrace
Slope range: 1 to 6 percent
Surface layer texture: Silt loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material:
Alluvium
Flooding does not occur (months):
January February November December
Flooding is most likely (frequency, months):
Occasional March April May June
Wet soil moisture status is highest (depth, months):
2.5 feet April
Wet soil moisture status is lowest (depth, months):
6.7 feet (transitory) August
Ponding: None
Available water capacity to a depth of 60 inches: 12.3 inches
Content of organic matter in the upper 10 inches: 3.4 percent
Typical profile:
Ap--0 to 7 inches; silt loam
C1-3--7 to 48 inches; stratified very fine sandy loam to silty
clay loam
Ab1-2--48 to 67 inches; silty clay loam
C'1--67 to 80 inches; stratified very fine sandy loam to silty
clay loam

I14D--Fairdale Silt Loam, 6 To 15 Percent Slopes, Occasionally Flooded

Component Description

Fairdale and similar soils
Extent: 85 percent of the unit
Geomorphic description:
Stream terrace
Rise on flood plain
Slope range: 6 to 15 percent
Surface layer texture: Silt loam
Depth to restrictive feature:
Very deep (more than 60 inches)

Drainage class: Moderately well drained
Parent material:
Alluvium
Flooding does not occur (months):
January February November December
Flooding is most likely (frequency, months):
Occasional March April May June
Wet soil moisture status is highest (depth, months):
2.5 feet April
Wet soil moisture status is lowest (depth, months):
6.7 feet (transitory) August
Ponding: None
Available water capacity to a depth of 60 inches: 12.3 inches
Content of organic matter in the upper 10 inches: 3.4 percent
Typical profile:
Ap--0 to 7 inches; silt loam
Cl-3--7 to 48 inches; stratified very fine sandy loam to silty
clay loam
Ab1-2--48 to 67 inches; silty clay loam
C'1--67 to 80 inches; stratified very fine sandy loam to silty
clay loam

I15A--Flaming Loamy Fine Sand, 0 To 3 Percent Slopes

Component Description

Flaming and similar soils
Extent: 70 percent of the unit
Geomorphic description:
Rise on lake plain
Slope range: 0 to 3 percent
Surface layer texture: Loamy fine sand
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material:
Glaciolacustrine deposits
Flooding: None
Wet soil moisture status is highest (depth, months):
2.5 feet April
Wet soil moisture status is lowest (depth, months):
More than 6.7 feet July August
Ponding: None
Available water capacity to a depth of 60 inches: 4.9 inches
Content of organic matter in the upper 10 inches: 3.0 percent
Typical profile:
Ap,A--0 to 12 inches; loamy fine sand
BA--12 to 17 inches; fine sand
Bw--17 to 27 inches; fine sand
Cl-2--27 to 60 inches; fine sand

I16F--Fluvaquents, Frequently Flooded-Hapludolls Complex, 0 To 30 Percent Slopes

Component Description

Fluvaquents and similar soils
Extent: 55 percent of the unit
Geomorphic description:
Flat on flood plain
Swale on flood plain
Slope range: 0 to 2 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material:
Alluvium
Flooding does not occur (months):
January February December
Flooding is most likely (frequency, months):
Very frequent April May

Wet soil moisture status is highest (depth, months):
At the surface March April May
Wet soil moisture status is lowest (depth, months):
1.6 feet February August
Ponding is shallowest (depth, months):
0.5 foot January February March June July
August September October
November December
Ponding is deepest (depth, months):
0.7 foot April May
Available water capacity to a depth of 60 inches: 8.1 inches
Content of organic matter in the upper 10 inches: 5.0 percent
Typical profile:
A--0 to 16 inches; fine sandy loam
Cg--16 to 80 inches; stratified loamy sand to silt loam

Hapludolls and similar soils

Extent: 25 percent of the unit
Geomorphic description:
Hillslope on drainageway
Escarpment on drainageway
Slope range: 2 to 30 percent
Surface layer texture: Loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Well drained
Parent material:
Glaciolacustrine deposits and/or till
Flooding does not occur (months):
January February December
Flooding is most likely (frequency, months):
Rare March April May June September
October November
Wet soil moisture status is highest (depth, months):
6.7 feet (transitory) March April May November
Wet soil moisture status is lowest (depth, months):
More than 6.7 feet January February June 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: 1.9 percent
Typical profile:
A--0 to 9 inches; loam
C--9 to 60 inches; loam

I17A--Foldahl Fine Sandy Loam, 0 To 3 Percent Slopes

Component Description

Foldahl and similar soils

Extent: 75 percent of the unit
Geomorphic description:
Rise on lake plain
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
Parent material:
Glaciolacustrine deposits over till
Flooding: None
Wet soil moisture status is highest (depth, months):
2.5 feet April
Wet soil moisture status is lowest (depth, months):
6.7 feet (transitory) August
Ponding: None
Available water capacity to a depth of 60 inches: 8.8 inches
Content of organic matter in the upper 10 inches: 3.0 percent
Typical profile:
Ap,A--0 to 12 inches; fine sandy loam
Bw1,Bw2--12 to 30 inches; fine sand
2Bck-2C3--30 to 80 inches; loam

I18A--Foldahl Loamy Fine Sand, 0 To 3 Percent Slopes

Component Description

Foldahl and similar soils
Extent: 75 percent of the unit
Geomorphic description:
Rise on lake plain
Slope range: 0 to 3 percent
Surface layer texture: Loamy fine sand
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material:
Glaciolacustrine deposits over till
Flooding: None
Wet soil moisture status is highest (depth, months):
2.5 feet April
Wet soil moisture status is lowest (depth, months):
6.7 feet (transitory) August
Ponding: None
Available water capacity to a depth of 60 inches: 8.3 inches
Content of organic matter in the upper 10 inches: 3.0 percent
Typical profile:
Ap,A--0 to 12 inches; loamy fine sand
Bw1,Bw2--12 to 30 inches; fine sand
2Bck-2C3--30 to 80 inches; loam

I19A--Foxhome Sandy Loam, 0 To 3 Percent Slopes

Component Description

Foxhome and similar soils
Extent: 65 percent of the unit
Geomorphic description:
Rise on lake plain
Slope range: 0 to 3 percent
Surface layer texture: Sandy loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material:
Glaciolacustrine deposits over till
Flooding: None
Wet soil moisture status is highest (depth, months):
2.5 feet April
Wet soil moisture status is lowest (depth, months):
6.7 feet (transitory) August
Ponding: None
Available water capacity to a depth of 60 inches: 8.6 inches
Content of organic matter in the upper 10 inches: 3.0 percent
Typical profile:
Ap--0 to 10 inches; sandy loam
Bw1--10 to 15 inches; sand
2Bw2--15 to 23 inches; very gravelly coarse sand
3C1-3--23 to 80 inches; loam

I20A--Foxlake Loam, 0 To 2 Percent Slopes

Component Description

Foxlake and similar soils
Extent: 75 percent of the unit
Geomorphic description:
Flat on lake plain
Swale on lake 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
Parent material:
 Till
Flooding: None
Wet soil moisture status is highest (depth, months):
 At the surface April
Wet soil moisture status is lowest (depth, months):
 3.0 feet August
Ponding does not occur (months):
 January February March December
Ponding is deepest (depth, months):
 0.3 foot April May June November
Available water capacity to a depth of 60 inches: 8.9 inches
Content of organic matter in the upper 10 inches: 5.0 percent
Typical profile:
 Ap,A--0 to 19 inches; loam
 Bg--19 to 38 inches; silty clay
 Bkg--38 to 49 inches; clay
 Cg--49 to 80 inches; clay

I21A--Fram Loam, 1 To 3 Percent Slopes

Component Description

Fram and similar soils
Extent: 85 percent of the unit
Geomorphic description:
 Rise on lake plain
Slope range: 1 to 3 percent
Surface layer texture: Loam
Depth to restrictive feature:
 Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material:
 Till
Flooding: None
Wet soil moisture status is highest (depth, months):
 2.5 feet April
Wet soil moisture status is lowest (depth, months):
 6.7 feet (transitory) August
Ponding: None
Available water capacity to a depth of 60 inches: 10.5 inches
Content of organic matter in the upper 10 inches: 2.3 percent
Typical profile:
 Ap--0 to 7 inches; loam
 Bk,Bck--7 to 38 inches; loam
 C--38 to 60 inches; loam

I22A--Glyndon Loam, 0 To 2 Percent Slopes

Component Description

Glyndon and similar soils
Extent: 75 percent of the unit
Geomorphic description:
 Rise on lake plain
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
Parent material:
 Glaciolacustrine deposits
Flooding: None
Wet soil moisture status is highest (depth, months):
 1.0 foot April
Wet soil moisture status is lowest (depth, months):
 6.7 feet (transitory) August
Ponding: None
Available water capacity to a depth of 60 inches: 10.4 inches
Content of organic matter in the upper 10 inches: 3.0 percent
Typical profile:

Ap,A--0 to 11 inches; loam
Bk1,Bk2--11 to 28 inches; loam
C,Cg--28 to 60 inches; loamy very fine sand

I23A--Glyndon Very Fine Sandy Loam, 0 To 2 Percent Slopes

Component Description

Glyndon and similar soils
Extent: 75 percent of the unit
Geomorphic description:
Rise on lake plain
Slope range: 0 to 2 percent
Surface layer texture: Very fine sandy loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material:
Glaciolacustrine deposits
Flooding: None
Wet soil moisture status is highest (depth, months):
1.0 foot April
Wet soil moisture status is lowest (depth, months):
6.7 feet (transitory) August
Ponding: None
Available water capacity to a depth of 60 inches: 10.4 inches
Content of organic matter in the upper 10 inches: 3.0 percent
Typical profile:
Ap,Ak--0 to 11 inches; very fine sandy loam
Bk1,Bk2--11 to 28 inches; very fine sandy loam
C,Cg--28 to 60 inches; loamy very fine sand

I24A--Grimstad Fine Sandy Loam, 0 To 3 Percent Slopes

Component Description

Grimstad and similar soils
Extent: 70 percent of the unit
Geomorphic description:
Rise on lake plain
Slope range: 0 to 3 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material:
Glaciolacustrine deposits over till
Flooding: None
Wet soil moisture status is highest (depth, months):
1.5 feet April
Wet soil moisture status is lowest (depth, months):
More than 6.7 feet August
Ponding: None
Available water capacity to a depth of 60 inches: 9.2 inches
Content of organic matter in the upper 10 inches: 2.8 percent
Typical profile:
Ap--0 to 9 inches; fine sandy loam
Bk1-2--9 to 22 inches; loamy fine sand
C1--22 to 28 inches; fine sand
2C2-3--28 to 60 inches; loam

I25A--Hamar Loamy Fine Sand, 0 To 2 Percent Slopes

Component Description

Hamar and similar soils
Extent: 75 percent of the unit
Geomorphic description:
Flat on lake plain
Swale on lake plain
Slope range: 0 to 2 percent

Surface layer texture: Loamy fine sand
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material:
Glaciolacustrine deposits
Flooding: None
Wet soil moisture status is highest (depth, months):
0.5 foot April
Wet soil moisture status is lowest (depth, months):
4.9 feet August
Ponding does not occur (months):
January February March July August September November
December
Ponding is deepest (depth, months):
0.3 foot April May June October
Available water capacity to a depth of 60 inches: 5.0 inches
Content of organic matter in the upper 10 inches: 6.0 percent
Typical profile:
A1,A2--0 to 12 inches; loamy fine sand
AC--12 to 17 inches; loamy fine sand
C1-2--17 to 40 inches; fine sand
Ab--40 to 47 inches; loamy fine sand
Cg--47 to 60 inches; fine sand

I26A--Hamerly Loam, 0 To 2 Percent Slopes

Component Description

Hamerly and similar soils
Extent: 75 percent of the unit
Geomorphic description:
Rise on lake plain
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
Parent material:
Till
Flooding: None
Wet soil moisture status is highest (depth, months):
1.3 feet April
Wet soil moisture status is lowest (depth, months):
6.7 feet (transitory) August
Ponding: None
Available water capacity to a depth of 60 inches: 10.5 inches
Content of organic matter in the upper 10 inches: 2.5 percent
Typical profile:
Ap--0 to 8 inches; loam
Bk1-2--8 to 25 inches; loam
C--25 to 60 inches; loam

I27A--Hamre Muck, 0 To 1 Percent Slopes

Component Description

Hamre and similar soils
Extent: 80 percent of the unit
Geomorphic description:
Depression on lake plain
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 is highest (depth, months):
At the surface March April May
Wet soil moisture status is lowest (depth, months):
2.5 feet February
Ponding is shallowest (depth, months):

0.3 foot July August September
Ponding is deepest (depth, months):
0.5 foot January February March April May
 June October November December
Available water capacity to a depth of 60 inches: 13.3 inches
Content of organic matter in the upper 10 inches: 85.0 percent
Typical profile:
Oa--0 to 13 inches; muck
A--13 to 18 inches; loam
Bg1-2--18 to 71 inches; loam
Cg--71 to 80 inches; loam

I28A--Hangaard Sandy Loam, 0 To 2 Percent Slopes

Component Description

Hangaard and similar soils
Extent: 75 percent of the unit
Geomorphic description:
Swale on beach plain
Flat on beach plain
Slope range: 0 to 2 percent
Surface layer texture: Sandy loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material:
Beach deposits
Flooding: None
Wet soil moisture status is highest (depth, months):
0.3 foot April
Wet soil moisture status is lowest (depth, months):
3.3 feet February August
Ponding does not occur (months):
January February March July August September October
November December
Ponding is deepest (depth, months):
0.3 foot April May
Available water capacity to a depth of 60 inches: 3.0 inches
Content of organic matter in the upper 10 inches: 6.0 percent
Typical profile:
Ap--0 to 10 inches; sandy loam
A--10 to 15 inches; loamy sand
Cg1-Cg5--15 to 80 inches; coarse sand

I29A--Hattie Clay, 0 To 3 Percent Slopes

Component Description

Hattie and similar soils
Extent: 75 percent of the unit
Geomorphic description:
Escarpment on lake plain
Position on landform:
Summit
Slope range: 1 to 3 percent
Surface layer texture: Clay
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material:
Till
Flooding: None
Wet soil moisture status is highest (depth, months):
2.1 feet April
Wet soil moisture status is lowest (depth, months):
6.7 feet (transitory) February
Ponding: None
Available water capacity to a depth of 60 inches: 7.7 inches
Content of organic matter in the upper 10 inches: 2.5 percent
Typical profile:
Ap--0 to 8 inches; clay

Bk--8 to 22 inches; silty clay
C--22 to 80 inches; clay

I29D--Hattie Clay, 6 To 18 Percent Slopes

Component Description

Hattie and similar soils
Extent: 85 percent of the unit
Geomorphic description:
Escarpment on lake plain
Position on landform:
Shoulder
Backslope
Slope range: 6 to 18 percent
Surface layer texture: Clay
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Well drained
Parent material:
Till
Flooding: None
Wet soil moisture status is highest (depth, months):
2.1 feet April
Wet soil moisture status is lowest (depth, months):
6.7 feet (transitory) February
Ponding: None
Available water capacity to a depth of 60 inches: 7.7 inches
Content of organic matter in the upper 10 inches: 2.5 percent
Typical profile:
Ap--0 to 8 inches; clay
Bk--8 to 22 inches; silty clay
C--22 to 80 inches; clay

I30A--Hedman Loam, 0 To 2 Percent Slopes

Component Description

Hedman and similar soils
Extent: 85 percent of the unit
Geomorphic description:
Flat on end moraine
Swale on end moraine
Flat on ground moraine
Swale on ground moraine
Slope range: 0 to 2 percent
Surface layer texture: Loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material:
Till
Flooding: None
Wet soil moisture status is highest (depth, months):
0.5 foot April
Wet soil moisture status is lowest (depth, months):
3.8 feet August
Ponding does not occur (months):
January February March July August December
Ponding is deepest (depth, months):
0.3 foot April May June September October
November
Available water capacity to a depth of 60 inches: 10.6 inches
Content of organic matter in the upper 10 inches: 5.0 percent
Typical profile:
Ap,A--0 to 11 inches; loam
Bkg--11 to 20 inches; fine sandy loam
Cg1-4--20 to 80 inches; loam

I31A--Hedman-Fram Complex, 0 To 3 Percent Slopes

Component Description

Hedman and similar soils

Extent: 50 percent of the unit

Geomorphic description:

Flat on end moraine

Swale on end moraine

Flat on ground moraine

Swale on ground moraine

Slope range: 0 to 2 percent

Surface layer texture: Loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material:

Till

Flooding: None

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

0.5 foot April

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

3.8 feet August

Ponding does not occur (months):

January February March July August December

Ponding is deepest (depth, months):

0.3 foot April May June September October
November

Available water capacity to a depth of 60 inches: 10.6 inches

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

Typical profile:

Ap,A--0 to 11 inches; loam

Bkg--11 to 20 inches; fine sandy loam

Cg1-4--20 to 80 inches; loam

Fram and similar soils

Extent: 40 percent of the unit

Geomorphic description:

Rise on lake plain

Slope range: 1 to 3 percent

Surface layer texture: Loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained

Parent material:

Till

Flooding: None

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

2.5 feet April

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

6.7 feet (transitory) August

Ponding: None

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

Content of organic matter in the upper 10 inches: 2.3 percent

Typical profile:

Ap--0 to 7 inches; loam

Bk,Bck--7 to 38 inches; loam

C--38 to 60 inches; loam

I32A--Hilaire Fine Sandy Loam, 0 To 3 Percent Slopes

Component Description

Hilaire and similar soils

Extent: 75 percent of the unit

Geomorphic description:

Rise on lake plain

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

Parent material:

Glaciolacustrine deposits over till

Flooding: None

Wet soil moisture status is highest (depth, months):
2.5 feet April
Wet soil moisture status is lowest (depth, months):
6.7 feet (transitory) August
Ponding: None
Available water capacity to a depth of 60 inches: 6.9 inches
Content of organic matter in the upper 10 inches: 3.0 percent
Typical profile:
Ap,A--0 to 10 inches; fine sandy loam
Bw1-Bw4--10 to 34 inches; fine sand
2Bck--34 to 80 inches; clay

I33A--Hilaire Loamy Fine Sand, 0 To 3 Percent Slopes

Component Description

Hilaire and similar soils
Extent: 75 percent of the unit
Geomorphic description:
Rise on lake plain
Slope range: 0 to 3 percent
Surface layer texture: Loamy fine sand
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material:
Glaciolacustrine deposits over till
Flooding: None
Wet soil moisture status is highest (depth, months):
2.5 feet April
Wet soil moisture status is lowest (depth, months):
6.7 feet (transitory) August
Ponding: None
Available water capacity to a depth of 60 inches: 6.5 inches
Content of organic matter in the upper 10 inches: 3.0 percent
Typical profile:
Ap,A--0 to 10 inches; loamy fine sand
Bw1-Bw4--10 to 34 inches; fine sand
2Bck--34 to 80 inches; clay

I34A--Huot Fine Sandy Loam, 0 To 3 Percent Slopes

Component Description

Huot and similar soils
Extent: 75 percent of the unit
Geomorphic description:
Rise on lake plain
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
Parent material:
Glaciolacustrine deposits over till
Flooding: None
Wet soil moisture status is highest (depth, months):
2.5 feet April
Wet soil moisture status is lowest (depth, months):
6.7 feet (transitory) August
Ponding: None
Available water capacity to a depth of 60 inches: 7.6 inches
Content of organic matter in the upper 10 inches: 3.0 percent
Typical profile:
Ap,Ak--0 to 14 inches; fine sandy loam
Bk--14 to 26 inches; loamy fine sand
Cl--26 to 34 inches; fine sand
2C2-3--34 to 80 inches; clay

I35A--Karlsruhe Sandy Loam, 0 To 3 Percent Slopes

Component Description

Karlsruhe and similar soils
Extent: 70 percent of the unit
Geomorphic description:
Rise on beach plain
Slope range: 0 to 3 percent
Surface layer texture: Sandy loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material:
Beach deposits
Flooding: None
Wet soil moisture status is highest (depth, months):
2.0 feet April
Wet soil moisture status is lowest (depth, months):
6.7 feet (transitory) August
Ponding: None
Available water capacity to a depth of 60 inches: 5.2 inches
Content of organic matter in the upper 10 inches: 4.0 percent
Typical profile:
A,Ak,ABk--0 to 15 inches; sandy loam
Bk,Bck--15 to 30 inches; loamy sand
C1..C2--30 to 60 inches; coarse sand

I36A--Kittson Loam, 0 To 3 Percent Slopes

Component Description

Kittson and similar soils
Extent: 70 percent of the unit
Geomorphic description:
Rise on lake plain
Slope range: 0 to 3 percent
Surface layer texture: Loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material:
Glaciolacustrine deposits over till
Flooding: None
Wet soil moisture status is highest (depth, months):
2.5 feet April
Wet soil moisture status is lowest (depth, months):
6.7 feet (transitory) August
Ponding: None
Available water capacity to a depth of 60 inches: 10.5 inches
Content of organic matter in the upper 10 inches: 3.0 percent
Typical profile:
Ap--0 to 10 inches; loam
Bw--10 to 17 inches; fine sandy loam
2Bk1-2--17 to 36 inches; loam
2C--36 to 60 inches; loam

I37A--Kratka And Strathcona Soils, Depressional, 0 To 1 Percent Slopes.

Component Description

Kratka, depressional and similar soils
Extent: 0 to 90 percent of the unit
Geomorphic description:
Depression on lake plain
Slope range: 0 to 1 percent
Surface layer texture: Mucky fine sandy loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material:
Glaciolacustrine deposits over till
Flooding: None
Wet soil moisture status is highest (depth, months):

At the surface March April May
Wet soil moisture status is lowest (depth, months):
2.5 feet February August
Ponding is shallowest (depth, months):
0.3 foot July August September October
Ponding is deepest (depth, months):
0.5 foot January February March April May
 June November December
Available water capacity to a depth of 60 inches: 10.0 inches
Content of organic matter in the upper 10 inches: 10.0 percent
Typical profile:
Ap,A--0 to 11 inches; mucky fine sandy loam
Bg1-2--11 to 18 inches; loamy fine sand
Cg1--18 to 25 inches; fine sand
2Cg2-4--25 to 80 inches; loam

Strathcona, depressional and similar soils

Extent: 0 to 90 percent of the unit
Geomorphic description:
Depression on lake plain
Slope range: 0 to 1 percent
Surface layer texture: Mucky fine sandy loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material:
Glaciolacustrine deposits over till
Flooding: None
Wet soil moisture status is highest (depth, months):
At the surface March April May
Wet soil moisture status is lowest (depth, months):
2.5 feet February August
Ponding is shallowest (depth, months):
0.3 foot July August September October
Ponding is deepest (depth, months):
0.5 foot January February March April May
 June November December
Available water capacity to a depth of 60 inches: 9.9 inches
Content of organic matter in the upper 10 inches: 10.0 percent
Typical profile:
Ap--0 to 10 inches; mucky fine sandy loam
Bkg--10 to 17 inches; loamy fine sand
Cg1--17 to 28 inches; fine sand
2Cg2-3--28 to 80 inches; loam

I38A--Kratka Fine Sandy Loam, 0 To 2 Percent Slopes

Component Description

Kratka and similar soils

Extent: 70 percent of the unit
Geomorphic description:
Flat on lake plain
Swale on lake plain
Slope range: 0 to 2 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material:
Glaciolacustrine deposits over till
Flooding: None
Wet soil moisture status is highest (depth, months):
0.5 foot April
Wet soil moisture status is lowest (depth, months):
4.1 feet August
Ponding does not occur (months):
January February March July August September December
Ponding is deepest (depth, months):
0.3 foot April May
Available water capacity to a depth of 60 inches: 9.1 inches
Content of organic matter in the upper 10 inches: 6.0 percent
Typical profile:

Ap,A--0 to 11 inches; fine sandy loam
Bg1-2--11 to 18 inches; loamy fine sand
Cg1--18 to 25 inches; fine sand
2Cg2-4--25 to 80 inches; loam

I39A--Linveldt Fine Sandy Loam, 0 To 3 Percent Slopes

Component Description

Linveldt and similar soils
Extent: 65 percent of the unit
Geomorphic description:
Rise on lake plain
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
Parent material:
Glaciolacustrine deposits over till
Flooding: None
Wet soil moisture status is highest (depth, months):
2.5 feet April
Wet soil moisture status is lowest (depth, months):
6.7 feet (transitory) August
Ponding: None
Available water capacity to a depth of 60 inches: 8.9 inches
Content of organic matter in the upper 10 inches: 2.8 percent
Typical profile:
Ap--0 to 9 inches; fine sandy loam
Bt--9 to 16 inches; loam
2Bw1-2--16 to 29 inches; sand
3Bk--29 to 45 inches; loam
3Cl-3--45 to 80 inches; loam

I40B--Maddock Loamy Fine Sand, 1 To 6 Percent Slopes

Component Description

Maddock and similar soils
Extent: 85 percent of the unit
Geomorphic description:
Rise on lake plain
Slope range: 1 to 6 percent
Surface layer texture: Loamy fine sand
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Well drained
Parent material:
Glaciolacustrine deposits
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.7 inches
Content of organic matter in the upper 10 inches: 1.5 percent
Typical profile:
A--0 to 10 inches; loamy fine sand
Bw--10 to 14 inches; fine sand
C1-C3--14 to 60 inches; fine sand

I40F--Maddock Loamy Fine Sand, 12 To 30 Percent Slopes

Component Description

Maddock and similar soils
Extent: 90 percent of the unit
Geomorphic description:
Ridge on lake plain
Position on landform:
Backslope
Shoulder

Summit
Slope range: 12 to 30 percent
Surface layer texture: Loamy fine sand
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Well drained
Parent material:
Glaciolacustrine deposits
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.7 inches
Content of organic matter in the upper 10 inches: 1.5 percent
Typical profile:
A--0 to 10 inches; loamy fine sand
Bw--10 to 14 inches; fine sand
C1-C3--14 to 60 inches; fine sand

I41A--Markey Muck, 0 To 1 Percent Slopes

Component Description

Markey and similar soils
Extent: 80 percent of the unit
Geomorphic description:
Depression on lake plain
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
Parent material:
Organic material over glaciolacustrine deposits
Flooding: None
Wet soil moisture status is highest (depth, months):
At the surface March April May June
Wet soil moisture status is lowest (depth, months):
2.1 feet February
Ponding is shallowest (depth, months):
0.3 foot January February July August
September October November
December
Ponding is deepest (depth, months):
0.5 foot March April May June
Available water capacity to a depth of 60 inches: 15.1 inches
Content of organic matter in the upper 10 inches: 85.0 percent
Typical profile:
Oa1-4--0 to 32 inches; muck
Cg--32 to 60 inches; fine sand

I42A--Markey Muck, Ponded, 0 To 1 Percent Slopes

Component Description

Markey, ponded and similar soils
Extent: 85 percent of the unit
Geomorphic description:
Depression on lake plain
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
Parent material:
Organic material over glaciolacustrine deposits
Flooding: None
Wet soil moisture status: At the surface all year
Ponding: At 1.0 foot all year
Available water capacity to a depth of 60 inches: 15.1 inches
Content of organic matter in the upper 10 inches: 85.0 percent
Typical profile:
Oa1-4--0 to 32 inches; muck

Cg--32 to 60 inches; fine sand

I43A--Mavie Fine Sandy Loam, 0 To 2 Percent Slopes

Component Description

Mavie and similar soils

Extent: 70 percent of the unit

Geomorphic description:

Flat on lake plain

Swale on lake plain

Slope range: 0 to 2 percent

Surface layer texture: Fine sandy loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material:

Glaciolacustrine deposits over till

Flooding: None

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

0.5 foot April

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

4.1 feet August

Ponding does not occur (months):

January February March July August September November
December

Ponding is deepest (depth, months):

0.3 foot April May June October

Available water capacity to a depth of 60 inches: 7.4 inches

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

Typical profile:

Ap--0 to 12 inches; fine sandy loam

Bk--12 to 18 inches; sandy loam

2C1-2--18 to 39 inches; very gravelly coarse sand

3C3--39 to 80 inches; loam

I44A--Newfolden Loam, 0 To 3 Percent Slopes

Component Description

Newfolden and similar soils

Extent: 75 percent of the unit

Geomorphic description:

Rise on lake plain

Slope range: 0 to 3 percent

Surface layer texture: Loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material:

Till

Flooding: None

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

2.5 feet April

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

6.7 feet (transitory) August

Ponding: None

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

Content of organic matter in the upper 10 inches: 2.3 percent

Typical profile:

Ap--0 to 7 inches; loam

Bt--7 to 16 inches; clay

2Bk1-2--16 to 36 inches; clay loam

2CBk--36 to 80 inches; loam

I45A--Northwood Muck, 0 To 1 Percent Slopes

Component Description

Northwood and similar soils

Extent: 75 percent of the unit

Geomorphic description:
Depression on lake plain
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
Parent material:
Organic material over glaciolacustrine deposits and/or till
Flooding: None
Wet soil moisture status is highest (depth, months):
At the surface March April May
Wet soil moisture status is lowest (depth, months):
2.5 feet February
Ponding is shallowest (depth, months):
0.3 foot July August September
Ponding is deepest (depth, months):
0.5 foot January February March April May
June October November December
Available water capacity to a depth of 60 inches: 11.3 inches
Content of organic matter in the upper 10 inches: 78.6 percent
Typical profile:
Oa--0 to 9 inches; muck
A--9 to 14 inches; loamy fine sand
Bg1-2--14 to 24 inches; fine sand
2BCkg-2Cg--24 to 80 inches; loam

I46A--Pits, Gravel And Sand

Component Description

Pits

Extent: 85 percent of the unit
Geomorphic description:
Beach ridge
Lake plain
Beach plain

I47A--Poppleton Fine Sand, 0 To 2 Percent Slopes

Component Description

Poppleton and similar soils

Extent: 75 percent of the unit
Geomorphic description:
Rise on lake plain
Slope range: 0 to 2 percent
Surface layer texture: Fine sand
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material:
Glaciolacustrine deposits
Flooding: None
Wet soil moisture status is highest (depth, months):
2.5 feet April
Wet soil moisture status is lowest (depth, months):
More than 6.7 feet July August
Ponding: None
Available water capacity to a depth of 60 inches: 5.0 inches
Content of organic matter in the upper 10 inches: 1.0 percent
Typical profile:
Ap--0 to 6 inches; fine sand
E--6 to 9 inches; fine sand
Bw1-4--9 to 40 inches; fine sand
Cl-2--40 to 60 inches; fine sand

I48A--Radium Loamy Sand, 0 To 3 Percent Slopes

Component Description

Radium and similar soils

Extent: 75 percent of the unit

Geomorphic description:

Beach ridge

Position on landform:

Backslope

Slope range: 0 to 3 percent

Surface layer texture: Loamy sand

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material:

Beach deposits

Flooding: None

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

3.0 feet April

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

More than 6.7 feet July August

Ponding: None

Available water capacity to a depth of 60 inches: 3.8 inches

Content of organic matter in the upper 10 inches: 2.0 percent

Typical profile:

Ap--0 to 14 inches; loamy sand

Bw1-2--14 to 33 inches; sand

C1--33 to 43 inches; very gravelly coarse sand

C2-4--43 to 80 inches; sand

I49A--Rauville Silty Clay Loam, 0 To 2 Percent Slopes

Component Description

Rauville and similar soils

Extent: 80 percent of the unit

Geomorphic description:

Oxbow on 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: Very poorly drained

Parent material:

Alluvium

Flooding does not occur (months):

January February December

Flooding is most likely (frequency, months):

Very frequent April May

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

At the surface March April May

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

1.6 feet February August

Ponding is shallowest (depth, months):

0.5 foot January February March June July

August September October

November December

Ponding is deepest (depth, months):

0.7 foot April May

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:

A1,A2--0 to 27 inches; silty clay loam

Cg--27 to 45 inches; silty clay loam

2Cg--45 to 60 inches; stratified gravelly loamy sand to clay loam

I50A--Reiner Fine Sandy Loam, 0 To 3 Percent Slopes

Component Description

Reiner and similar soils

Extent: 70 percent of the unit

Geomorphic description:

Rise on lake plain

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
Parent material:
 Till
Flooding: None
Wet soil moisture status is highest (depth, months):
 2.5 feet April
Wet soil moisture status is lowest (depth, months):
 6.7 feet (transitory) August
Ponding: None
Available water capacity to a depth of 60 inches: 10.2 inches
Content of organic matter in the upper 10 inches: 2.3 percent
Typical profile:
 Ap--0 to 7 inches; fine sandy loam
 Bt--7 to 17 inches; clay loam
 Bw-Bk1-2--17 to 35 inches; loam
 C--35 to 80 inches; loam

I51A--Reiner Loamy Fine Sand, 0 To 3 Percent Slopes

Component Description

Reiner and similar soils
Extent: 65 percent of the unit
Geomorphic description:
 Rise on lake plain
Slope range: 0 to 3 percent
Surface layer texture: Loamy fine sand
Depth to restrictive feature:
 Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material:
 Till
Flooding: None
Wet soil moisture status is highest (depth, months):
 2.5 feet April
Wet soil moisture status is lowest (depth, months):
 6.7 feet (transitory) August
Ponding: None
Available water capacity to a depth of 60 inches: 9.7 inches
Content of organic matter in the upper 10 inches: 1.6 percent
Typical profile:
 Ap--0 to 7 inches; loamy fine sand
 Bt--7 to 17 inches; clay loam
 Bw-Bk1-2--17 to 35 inches; loam
 C--35 to 80 inches; loam

I52A--Reis-Clearwater Complex, 0 To 2 Percent Slopes

Component Description

Reis and similar soils
Extent: 55 percent of the unit
Geomorphic description:
 Rise on lake plain
 Flat on lake plain
Slope range: 0 to 2 percent
Surface layer texture: Clay
Depth to restrictive feature:
 Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material:
 Till
Flooding: None
Wet soil moisture status is highest (depth, months):
 0.5 foot April
Wet soil moisture status is lowest (depth, months):
 3.6 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: 4.7 percent

Typical profile:

Ap--0 to 9 inches; clay
A/Bk--9 to 17 inches; clay
Bkss1-2--17 to 33 inches; clay
Bkg--33 to 42 inches; clay
Cg1-2--42 to 60 inches; clay
C--60 to 80 inches; clay

Clearwater and similar soils

Extent: 30 percent of the unit

Geomorphic description:

Flat on lake plain

Swale on lake plain

Slope range: 0 to 2 percent

Surface layer texture: Clay

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material:

Till

Flooding: None

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

At the surface April

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

3.0 feet August

Ponding does not occur (months):

January February March December

Ponding is deepest (depth, months):

0.3 foot April May June November

Available water capacity to a depth of 60 inches: 8.2 inches

Content of organic matter in the upper 10 inches: 4.2 percent

Typical profile:

Ap--0 to 8 inches; clay
Bss1-2--8 to 35 inches; clay
Cg1-2--35 to 80 inches; clay

I53A--Roliss Loam, 0 To 2 Percent Slopes

Component Description

Roliss and similar soils

Extent: 75 percent of the unit

Geomorphic description:

Swale on lake plain

Flat on lake 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

Parent material:

Till

Flooding: None

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

0.5 foot April

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

3.8 feet August

Ponding does not occur (months):

January February March July August December

Ponding is deepest (depth, months):

0.3 foot April May June September October
November

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:

Ap,A--0 to 14 inches; loam
Bg--14 to 20 inches; loam
Cg1-4--20 to 80 inches; loam

I54A--Roliss Loam, Depressional, 0 To 1 Percent Slopes

Component Description

Roliss, depressional and similar soils
Extent: 80 percent of the unit
Geomorphic description:
 Depression on lake plain
Slope range: 0 to 1 percent
Surface layer texture: Loam
Depth to restrictive feature:
 Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material:
 Till
Flooding: None
Wet soil moisture status is highest (depth, months):
 At the surface March April May
Wet soil moisture status is lowest (depth, months):
 2.5 feet February
Ponding is shallowest (depth, months):
 0.3 foot July August September October
Ponding is deepest (depth, months):
 0.5 foot January February March April May
 June November December
Available water capacity to a depth of 60 inches: 10.9 inches
Content of organic matter in the upper 10 inches: 10.0 percent
Typical profile:
 Ap,A--0 to 14 inches; loam
 Bg--14 to 20 inches; loam
 Cg1-4--20 to 80 inches; loam

I55A--Rosewood Fine Sandy Loam, 0 To 2 Percent Slopes

Component Description

Rosewood and similar soils
Extent: 75 percent of the unit
Geomorphic description:
 Flat on lake plain
 Swale on lake plain
Slope range: 0 to 2 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature:
 Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material:
 Glaciolacustrine deposits
Flooding: None
Wet soil moisture status is highest (depth, months):
 0.5 foot April
Wet soil moisture status is lowest (depth, months):
 4.9 feet August
Ponding does not occur (months):
 January February March July August September November
 December
Ponding is deepest (depth, months):
 0.3 foot April May June October
Available water capacity to a depth of 60 inches: 5.6 inches
Content of organic matter in the upper 10 inches: 5.0 percent
Typical profile:
 Ap--0 to 8 inches; fine sandy loam
 Bkg1-2--8 to 18 inches; fine sandy loam
 Cg1-3--18 to 80 inches; fine sand

I56A--Rosewood-Venlo Complex, 0 To 1 Percent Slopes

Component Description

Rosewood and similar soils
Extent: 50 percent of the unit
Geomorphic description:
 Flat on lake plain
 Swale on lake plain

Slope range: 0 to 2 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material:
Glaciolacustrine deposits
Flooding: None
Wet soil moisture status is highest (depth, months):
0.5 foot April
Wet soil moisture status is lowest (depth, months):
4.9 feet August
Ponding does not occur (months):
January February March July August September November
December
Ponding is deepest (depth, months):
0.3 foot April May June October
Available water capacity to a depth of 60 inches: 5.6 inches
Content of organic matter in the upper 10 inches: 5.0 percent
Typical profile:
Ap--0 to 8 inches; fine sandy loam
Bkg1-2--8 to 18 inches; fine sandy loam
Cg1-3--18 to 80 inches; fine sand

Venlo and similar soils

Extent: 40 percent of the unit
Geomorphic description:
Depression on lake plain
Slope range: 0 to 1 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material:
Glaciolacustrine deposits
Flooding: None
Wet soil moisture status is highest (depth, months):
At the surface April
Wet soil moisture status is lowest (depth, months):
3.0 feet February August
Ponding is shallowest (depth, months):
0.3 foot July August September October
Ponding is deepest (depth, months):
0.5 foot January February March April May
June November December
Available water capacity to a depth of 60 inches: 5.4 inches
Content of organic matter in the upper 10 inches: 10.0 percent
Typical profile:
A--0 to 13 inches; fine sandy loam
Cg1-2--13 to 60 inches; fine sand

I57A--Sandberg-Radium Loamy Sands, 1 To 6 Percent Slopes

Component Description

Sandberg and similar soils

Extent: 50 percent of the unit
Geomorphic description:
Beach ridge
Position on landform:
Backslope
Summit
Shoulder
Slope range: 1 to 6 percent
Surface layer texture: Loamy sand
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material:
Beach deposits
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None

Available water capacity to a depth of 60 inches: 3.1 inches
Content of organic matter in the upper 10 inches: 2.0 percent
Typical profile:
Ap,A--0 to 12 inches; loamy sand
Bw--12 to 19 inches; gravelly loamy coarse sand
Bk--19 to 29 inches; gravelly coarse sand
C--29 to 80 inches; gravelly coarse sand

Radium and similar soils

Extent: 25 percent of the unit
Geomorphic description:
Beach ridge
Position on landform:
Backslope
Slope range: 0 to 3 percent
Surface layer texture: Loamy sand
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material:
Beach deposits
Flooding: None
Wet soil moisture status is highest (depth, months):
3.0 feet April
Wet soil moisture status is lowest (depth, months):
More than 6.7 feet July August
Ponding: None
Available water capacity to a depth of 60 inches: 3.8 inches
Content of organic matter in the upper 10 inches: 2.0 percent
Typical profile:
Ap--0 to 14 inches; loamy sand
Bw1-2--14 to 33 inches; sand
C1--33 to 43 inches; very gravelly coarse sand
C2-4--43 to 80 inches; sand

I58A--Seelyeville Muck, 0 To 1 Percent Slopes.

Component Description

Seelyeville and similar soils

Extent: 90 percent of the unit
Geomorphic description:
Depression on lake plain
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
Parent material:
Organic material
Flooding: None
Wet soil moisture status is highest (depth, months):
At the surface March April May
Wet soil moisture status is lowest (depth, months):
1.6 feet February August
Ponding is shallowest (depth, months):
0.3 foot January February July August
September October November
December
Ponding is deepest (depth, months):
0.5 foot March April May June
Available water capacity to a depth of 60 inches: 25.1 inches
Content of organic matter in the upper 10 inches: 90.0 percent
Typical profile:
Oa1--0 to 10 inches; muck
Oa2-Oa5--10 to 80 inches; muck

I59A--Smiley Loam, 0 To 2 Percent Slopes

Component Description

Smiley and similar soils

Extent: 65 percent of the unit
Geomorphic description:
 Flat on lake plain
 Swale on lake 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
Parent material:
 Till
Flooding: None
Wet soil moisture status is highest (depth, months):
 0.5 foot April
Wet soil moisture status is lowest (depth, months):
 3.8 feet August
Ponding does not occur (months):
 January February March July August December
Ponding is deepest (depth, months):
 0.3 foot April May June September October
 November
Available water capacity to a depth of 60 inches: 10.8 inches
Content of organic matter in the upper 10 inches: 5.0 percent
Typical profile:
 Ap--0 to 12 inches; loam
 Btg--12 to 19 inches; clay loam
 Bkg1-2--19 to 42 inches; loam
 Cg--42 to 80 inches; loam

I60A--Smiley Mucky Loam, Depressional, 0 To 1 Percent Slopes

Component Description

Smiley, depressional and similar soils
Extent: 80 percent of the unit
Geomorphic description:
 Depression on lake plain
Slope range: 0 to 1 percent
Surface layer texture: Mucky loam
Depth to restrictive feature:
 Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material:
 Till
Flooding: None
Wet soil moisture status is highest (depth, months):
 At the surface March April May
Wet soil moisture status is lowest (depth, months):
 2.5 feet February
Ponding is shallowest (depth, months):
 0.3 foot July August September October
Ponding is deepest (depth, months):
 0.5 foot January February March April May
 June November December
Available water capacity to a depth of 60 inches: 11.1 inches
Content of organic matter in the upper 10 inches: 10.0 percent
Typical profile:
 Ap--0 to 12 inches; mucky loam
 Btg--12 to 19 inches; clay loam
 Bkg1-2--19 to 42 inches; loam
 Cg--42 to 80 inches; loam

I61A--Strandquist Loam, 0 To 2 Percent Slopes

Component Description

Strandquist and similar soils
Extent: 70 percent of the unit
Geomorphic description:
 Swale on lake plain
 Flat on lake 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
Parent material:
Glaciolacustrine deposits over till
Flooding: None
Wet soil moisture status is highest (depth, months):
0.5 foot April
Wet soil moisture status is lowest (depth, months):
4.1 feet August
Ponding does not occur (months):
January February March July August September November
December
Ponding is deepest (depth, months):
0.3 foot April May June October
Available water capacity to a depth of 60 inches: 9.3 inches
Content of organic matter in the upper 10 inches: 6.0 percent
Typical profile:
Ap--0 to 10 inches; loam
2Bg1--10 to 20 inches; very gravelly sand
3Bg2,3Cg--20 to 60 inches; loam

I62A--Syrene Sandy Loam, 0 To 2 Percent Slopes

Component Description

Syrene and similar soils

Extent: 70 percent of the unit

Geomorphic description:

Swale on beach plain

Flat on beach plain

Slope range: 0 to 2 percent

Surface layer texture: Sandy loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material:

Beach deposits

Flooding: None

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

0.3 foot April

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

3.3 feet February August

Ponding does not occur (months):

January February March July August September October
November December

Ponding is deepest (depth, months):

0.3 foot April May

Available water capacity to a depth of 60 inches: 3.8 inches

Content of organic matter in the upper 10 inches: 5.6 percent

Typical profile:

Ap--0 to 9 inches; sandy loam

Bkg1--9 to 17 inches; sandy loam

2Bkg2--17 to 27 inches; stratified loamy fine sand to gravelly
coarse sand

2Cg--27 to 60 inches; stratified loamy fine sand to gravelly
coarse sand

I63A--Thiefriver Fine Sandy Loam, 0 To 2 Percent Slopes

Component Description

Thiefriver and similar soils

Extent: 70 percent of the unit

Geomorphic description:

Flat on lake plain

Swale on lake plain

Slope range: 0 to 2 percent

Surface layer texture: Fine sandy loam

Depth to restrictive feature:

Very deep (more than 60 inches)

Drainage class: Poorly drained
Parent material:
 Glaciolacustrine deposits over till
Flooding: None
Wet soil moisture status is highest (depth, months):
 0.5 foot April
Wet soil moisture status is lowest (depth, months):
 3.8 feet August
Ponding does not occur (months):
 January February March July August December
Ponding is deepest (depth, months):
 0.3 foot April May June
Available water capacity to a depth of 60 inches: 7.5 inches
Content of organic matter in the upper 10 inches: 6.0 percent
Typical profile:
 Ap-A--0 to 12 inches; fine sandy loam
 Bkg1-3--12 to 23 inches; loamy fine sand
 Cg1--23 to 32 inches; fine sand
 2Cg2-3--32 to 80 inches; clay

I64A--Ulen Fine Sandy Loam, 0 To 3 Percent Slopes

Component Description

Ulen and similar soils
Extent: 70 percent of the unit
Geomorphic description:
 Rise on lake plain
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
Parent material:
 Glaciolacustrine deposits
Flooding: None
Wet soil moisture status is highest (depth, months):
 2.0 feet April
Wet soil moisture status is lowest (depth, months):
 More than 6.7 feet August
Ponding: None
Available water capacity to a depth of 60 inches: 5.8 inches
Content of organic matter in the upper 10 inches: 2.8 percent
Typical profile:
 Ap--0 to 9 inches; fine sandy loam
 Bk1-2--9 to 42 inches; loamy fine sand
 C--42 to 60 inches; fine sand

I65A--Ulen Loamy Fine Sand, 0 To 3 Percent Slopes

Component Description

Ulen and similar soils
Extent: 70 percent of the unit
Geomorphic description:
 Rise on lake plain
Slope range: 0 to 3 percent
Surface layer texture: Loamy fine sand
Depth to restrictive feature:
 Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material:
 Glaciolacustrine deposits
Flooding: None
Wet soil moisture status is highest (depth, months):
 2.0 feet April
Wet soil moisture status is lowest (depth, months):
 More than 6.7 feet August
Ponding: None
Available water capacity to a depth of 60 inches: 5.4 inches
Content of organic matter in the upper 10 inches: 2.8 percent
Typical profile:

Ap--0 to 9 inches; loamy fine sand
Bk1-2--9 to 42 inches; loamy fine sand
C--42 to 60 inches; fine sand

I66A--Vallers Loam, 0 To 2 Percent Slopes

Component Description

Vallers and similar soils

Extent: 75 percent of the unit

Geomorphic description:

Flat on lake plain

Swale on lake 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

Parent material:

Till

Flooding: None

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

0.5 foot April

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

3.8 feet August

Ponding does not occur (months):

January February March July August December

Ponding is deepest (depth, months):

0.3 foot April May June September October
November

Available water capacity to a depth of 60 inches: 10.6 inches

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

Typical profile:

A1,A2--0 to 12 inches; loam

Bkg1-2--12 to 21 inches; loam

Cg1-2--21 to 60 inches; loam

I67A--Wheatville Loam, 0 To 3 Percent Slopes

Component Description

Wheatville and similar soils

Extent: 70 percent of the unit

Geomorphic description:

Rise on lake plain

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

Parent material:

Glaciolacustrine deposits over till

Flooding: None

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

1.3 feet April

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

6.7 feet (transitory) August

Ponding: None

Available water capacity to a depth of 60 inches: 9.6 inches

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap--0 to 9 inches; loam

Bk1-2--9 to 31 inches; very fine sandy loam

2C1-4--31 to 80 inches; clay

I68A--Wheatville Very Fine Sandy Loam, 0 To 3 Percent Slopes

Component Description

Wheatville and similar soils

Extent: 70 percent of the unit

Geomorphic description:
Rise on lake plain
Slope range: 0 to 3 percent
Surface layer texture: Very fine sandy loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material:
Glaciolacustrine deposits over till
Flooding: None
Wet soil moisture status is highest (depth, months):
1.3 feet April
Wet soil moisture status is lowest (depth, months):
6.7 feet (transitory) August
Ponding: None
Available water capacity to a depth of 60 inches: 9.4 inches
Content of organic matter in the upper 10 inches: 2.8 percent
Typical profile:
Ap--0 to 9 inches; very fine sandy loam
Bk1-2--9 to 31 inches; very fine sandy loam
2C1-4--31 to 80 inches; clay

I69A--Wyandotte Clay Loam, 0 To 2 Percent Slopes

Component Description

Wyandotte and similar soils
Extent: 65 percent of the unit
Geomorphic description:
Flat on lake plain
Swale on lake 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
Parent material:
Glaciolacustrine deposits over till
Flooding: None
Wet soil moisture status is highest (depth, months):
0.5 foot April
Wet soil moisture status is lowest (depth, months):
3.8 feet August
Ponding does not occur (months):
January February March July August September November
December
Ponding is deepest (depth, months):
0.3 foot April May June
Available water capacity to a depth of 60 inches: 6.5 inches
Content of organic matter in the upper 10 inches: 4.1 percent
Typical profile:
Ap--0 to 8 inches; clay loam
Bk--8 to 15 inches; sandy clay loam
2C1-3--15 to 34 inches; very gravelly loamy coarse sand
3Cg--34 to 60 inches; clay

I70A--Strathcona Fine Sandy Loam, 0 To 2 Percent Slopes

Component Description

Strathcona and similar soils
Extent: 70 percent of the unit
Geomorphic description:
Flat on lake plain
Swale on lake plain
Slope range: 0 to 2 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature:
Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material:
Glaciolacustrine deposits over till

Flooding: None
Wet soil moisture status is highest (depth, months):
0.5 foot April
Wet soil moisture status is lowest (depth, months):
4.1 feet August
Ponding does not occur (months):
January February March July August September December
Ponding is deepest (depth, months):
0.3 foot April May
Available water capacity to a depth of 60 inches: 9.0 inches
Content of organic matter in the upper 10 inches: 6.0 percent
Typical profile:
Ap--0 to 10 inches; fine sandy loam
Bkg--10 to 17 inches; fine sandy loam
Cg1--17 to 28 inches; fine sand
2Cg2-3--28 to 80 inches; loam

M-W--Miscellaneous Water

Component Description

Water, miscellaneous
Extent: 100 percent of the unit

W--Water

Component Description

Water
Extent: 100 percent of the unit