

Soil Descriptions - Non Technical

7A--Hubbard Loamy Sand, 0 To 2 Percent Slopes

Component Description

Hubbard and similar soils

Extent: 95 percent of the unit
Geomorphic description: Outwash plain, stream terrace
Position on landform: Flats
Slope range: 0 to 2 percent
Surface layer texture: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
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: 4.0 inches
Content of organic matter in the upper 10 inches: 3.0 percent
Typical profile:
Ap,AB--0 to 20 inches; loamy sand
Bw--20 to 32 inches; loamy sand
BC,C--32 to 80 inches; sand

7B--Hubbard Loamy Sand, 2 To 6 Percent Slopes

Component Description

Hubbard and similar soils

Extent: 95 percent of the unit
Geomorphic description: Hill on outwash plain, hill on stream terrace
Position on landform: Summit, shoulder, backslope
Slope range: 2 to 6 percent
Surface layer texture: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
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: 3.9 inches
Content of organic matter in the upper 10 inches: 3.0 percent
Typical profile:
Ap,A--0 to 18 inches; loamy sand
Bw--18 to 23 inches; loamy sand
BC,C--23 to 80 inches; sand

7C--Hubbard Loamy Sand, 6 To 12 Percent Slopes

Component Description

Hubbard and similar soils

Extent: 95 percent of the unit
Geomorphic description: Hill on outwash plain, hill on stream terrace
Position on landform: Backslope, shoulder, summit

Slope range: 6 to 12 percent
Surface layer texture: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
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: 3.6 inches
Content of organic matter in the upper 10 inches: 2.0 percent
Typical profile:
Ap,AB--0 to 12 inches; loamy sand
Bw--12 to 33 inches; coarse sand
C--33 to 80 inches; coarse sand

32B--Nebish Fine Sandy Loam, 2 To 6 Percent Slopes

Component Description

Nebish and similar soils

Extent: 85 percent of the unit
Geomorphic description: Hill on moraine
Position on landform: Backslope, summit
Slope range: 2 to 6 percent
Surface layer texture: Fine sandy loam
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): 3.6 feet, April
Wet soil moisture status is lowest (depth, months): More than 6.7 feet, January
February July August September
Ponding: None
Available water capacity to a depth of 60 inches: 9.8 inches
Content of organic matter in the upper 10 inches: 1.1 percent
Typical profile:
Ap--0 to 5 inches; fine sandy loam
Bt--5 to 43 inches; clay loam
C--43 to 80 inches; loam

32C--Nebish Fine Sandy Loam, 6 To 12 Percent Slopes

Component Description

Nebish and similar soils

Extent: 85 percent of the unit
Geomorphic description: Hill on moraine
Position on landform: Backslope, shoulder
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
Parent material: Till
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: 9.7 inches
Content of organic matter in the upper 10 inches: 1.3 percent
Typical profile:
Ap--0 to 7 inches; fine sandy loam
BE--7 to 11 inches; fine sandy loam
Bt--11 to 44 inches; clay loam

C--44 to 80 inches; loam

32D--Nebish Fine Sandy Loam, 12 To 18 Percent Slopes

Component Description

Nebish and similar soils

Extent: 85 percent of the unit
Geomorphic description: Hill on moraine
Position on landform: Shoulder, backslope
Slope range: 12 to 18 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
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: 9.4 inches
Content of organic matter in the upper 10 inches: 1.0 percent
Typical profile:
Ap--0 to 3 inches; fine sandy loam
Bt--3 to 22 inches; clay loam
C--22 to 80 inches; loam

32E--Nebish Fine Sandy Loam, 18 To 35 Percent Slopes

Component Description

Nebish and similar soils

Extent: 85 percent of the unit
Geomorphic description: Hill on moraine
Position on landform: Shoulder, backslope
Slope range: 18 to 35 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
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: 9.5 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 13 inches; fine sandy loam
Bt--13 to 36 inches; clay loam
C--36 to 80 inches; loam

38B--Waukon Fine Sandy Loam, 2 To 6 Percent Slopes

Component Description

Waukon and similar soils

Extent: 90 percent of the unit
Geomorphic description: Hill on moraine
Position on landform: Backslope, summit
Slope range: 2 to 6 percent
Surface layer texture: Fine sandy loam
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): 3.6 feet, April
Wet soil moisture status is lowest (depth, months): More than 6.7 feet, January
February July August September
Ponding: None
Available water capacity to a depth of 60 inches: 9.9 inches
Content of organic matter in the upper 10 inches: 2.9 percent
Typical profile:
Ap--0 to 8 inches; fine sandy loam
E--8 to 12 inches; fine sandy loam
BE,Bt--12 to 43 inches; loam
Bk--43 to 80 inches; loam

75--Bluffton Loam, Depressional, 0 To 1 Percent Slopes

Component Description

Bluffton, depressional and similar soils

Extent: 90 percent of the unit
Geomorphic description: Moraine
Position on landform: Depressions
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, April May
June
Wet soil moisture status is lowest (depth, months): 1.5 feet, February
Ponding is shallowest (depth, months): 0.5 foot, June
Ponding is deepest (depth, months): 1.0 foot, March April May
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 13 inches; loam
Bg--13 to 40 inches; loam
Cg--40 to 80 inches; loam

125--Beltrami Fine Sandy Loam, 0 To 3 Percent Slopes

Component Description

Beltrami and similar soils

Extent: 90 percent of the unit
Geomorphic description: Moraine
Position on landform: Flats and slight rises
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: 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, 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: 2.6 percent
Typical profile:
Ap--0 to 6 inches; fine sandy loam

Bt1--6 to 12 inches; loam
Bt2,Bt4--12 to 48 inches; clay loam
C--48 to 80 inches; loam

152C--Milaca Fine Sandy Loam, 6 To 12 Percent Slopes

Component Description

Milaca and similar soils

Extent: 95 percent of the unit
Geomorphic description: Drumlin
Position on landform: Shoulder, summit
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
Parent material: Till
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: 4.6 inches
Content of organic matter in the upper 10 inches: 0.4 percent
Typical profile:
A--0 to 4 inches; fine sandy loam
E--4 to 12 inches; fine sandy loam
Bt--12 to 20 inches; fine sandy loam
BC--20 to 42 inches; sandy loam
Cd--42 to 80 inches; sandy loam

152E--Milaca Fine Sandy Loam, 12 To 25 Percent Slopes

Component Description

Milaca and similar soils

Extent: 95 percent of the unit
Geomorphic description: Drumlin
Position on landform: Shoulder, backslope
Slope range: 12 to 25 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
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: 4.6 inches
Content of organic matter in the upper 10 inches: 0.4 percent
Typical profile:
A--0 to 3 inches; fine sandy loam
E--3 to 12 inches; fine sandy loam
Bt--12 to 20 inches; fine sandy loam
BC--20 to 40 inches; sandy loam
Cd--40 to 80 inches; sandy loam

158A--Zimmerman Fine Sand, 0 To 3 Percent Slopes

Component Description

Zimmerman and similar soils

Extent: 95 percent of the unit
Geomorphic description: Outwash plain

Position on landform: Flats and slight rises
Slope range: 0 to 3 percent
Surface layer texture: Fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
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: 4.8 inches
Content of organic matter in the upper 10 inches: 0.8 percent
Typical profile:
Ap--0 to 7 inches; fine sand
E,Bw,E&Bt--7 to 80 inches; fine sand

158B--Zimmerman Fine Sand, 3 To 6 Percent Slopes

Component Description

Zimmerman and similar soils

Extent: 95 percent of the unit
Geomorphic description: Hill on outwash plain
Position on landform: Summit, backslope
Slope range: 3 to 6 percent
Surface layer texture: Fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
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: 4.8 inches
Content of organic matter in the upper 10 inches: 0.7 percent
Typical profile:
Ap--0 to 6 inches; fine sand
E,Bw,E&Bt--6 to 80 inches; fine sand

158C--Zimmerman Fine Sand, 6 To 12 Percent Slopes

Component Description

Zimmerman and similar soils

Extent: 95 percent of the unit
Geomorphic description: Hill on outwash plain
Position on landform: Backslope, summit
Slope range: 6 to 12 percent
Surface layer texture: Fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
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: 4.8 inches
Content of organic matter in the upper 10 inches: 0.7 percent
Typical profile:
Ap--0 to 6 inches; fine sand
E,Bw,E&Bt--6 to 80 inches; fine sand

158E--Zimmerman Fine Sand, 12 To 25 Percent Slopes

Component Description

Zimmerman and similar soils

Extent: 95 percent of the unit
Geomorphic description: Hill on outwash plain
Position on landform: Shoulder, backslope
Slope range: 12 to 25 percent
Surface layer texture: Fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
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: 4.8 inches
Content of organic matter in the upper 10 inches: 0.5 percent
Typical profile:
A--0 to 3 inches; fine sand
E,Bw,E&Bt--3 to 80 inches; fine sand

161--Isanti Fine Sandy Loam, Depressional, 0 To 1 Percent Slopes

Component Description

Isanti, depressional and similar soils

Extent: 95 percent of the unit
Geomorphic description: Outwash plain
Position on landform: Depressions
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: Outwash
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface, April May June
Wet soil moisture status is lowest (depth, months): 1.5 feet, February
Ponding is shallowest (depth, months): 0.5 foot, June
Ponding is deepest (depth, months): 1.0 foot, March April May
Available water capacity to a depth of 60 inches: 5.3 inches
Content of organic matter in the upper 10 inches: 9.0 percent
Typical profile:
A1,A3--0 to 16 inches; fine sandy loam
Bg--16 to 28 inches; loamy fine sand
Cg--28 to 80 inches; fine sand

162--Lino Loamy Fine Sand, 0 To 2 Percent Slopes

Component Description

Lino and similar soils

Extent: 95 percent of the unit
Geomorphic description: Outwash plain
Position on landform: Flats and slight rises
Slope range: 0 to 2 percent
Surface layer texture: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material: Outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 1.5 feet, April
Wet soil moisture status is lowest (depth, months): 4.5 feet, September

Ponding: None
Available water capacity to a depth of 60 inches: 4.3 inches
Content of organic matter in the upper 10 inches: 1.1 percent
Typical profile:
Ap--0 to 8 inches; loamy fine sand
Bw--8 to 38 inches; loamy fine sand
Cg--38 to 80 inches; fine sand

164A--Mora Loam, 0 To 3 Percent Slopes

Component Description

Mora and similar soils

Extent: 95 percent of the unit
Geomorphic description: Drumlin
Position on landform: Flats and slight rises
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): 1.0 foot, April
Wet soil moisture status is lowest (depth, months): More than 6.7 feet, January
February July August September
Ponding: None
Available water capacity to a depth of 60 inches: 6.9 inches
Content of organic matter in the upper 10 inches: 1.2 percent
Typical profile:
Ap--0 to 6 inches; loam
E--6 to 15 inches; sandy loam
BE,Bt--15 to 36 inches; sandy loam
BC--36 to 48 inches; sandy loam
Cd--48 to 80 inches; sandy loam

165--Parent Loam, 0 To 2 Percent Slopes

Component Description

Parent and similar soils

Extent: 90 percent of the unit
Geomorphic description: Interdrumlin
Position on landform: Flats and swales
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 May
Wet soil moisture status is lowest (depth, months): 2.5 feet, February August
Ponding: None
Available water capacity to a depth of 60 inches: 6.5 inches
Content of organic matter in the upper 10 inches: 5.5 percent
Typical profile:
A1,A2--0 to 15 inches; loam
Bg--15 to 33 inches; loam
BC--33 to 40 inches; sandy loam
Cd--40 to 80 inches; sandy loam

166--Ronneby Loam, 0 To 2 Percent Slopes

Component Description

Ronneby and similar soils

Extent: 90 percent of the unit
Geomorphic description: Interdrumlin
Position on landform: Flats
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: Till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.7 foot, April
Wet soil moisture status is lowest (depth, months): More than 6.7 feet, January
February August September
Ponding: None
Available water capacity to a depth of 60 inches: 8.1 inches
Content of organic matter in the upper 10 inches: 3.0 percent
Typical profile:
A--0 to 4 inches; loam
E--4 to 12 inches; fine sandy loam
BE,Bt--12 to 45 inches; fine sandy loam
BC--45 to 56 inches; fine sandy loam
Cd--56 to 80 inches; fine sandy loam

169B--Braham Loamy Fine Sand, 3 To 6 Percent Slopes

Component Description

Braham and similar soils

Extent: 90 percent of the unit
Geomorphic description: Hill on moraine
Position on landform: Backslope, summit
Slope range: 3 to 6 percent
Surface layer texture: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Outwash over till
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, January
February June July August September
Ponding: None
Available water capacity to a depth of 60 inches: 8.7 inches
Content of organic matter in the upper 10 inches: 1.9 percent
Typical profile:
Ap--0 to 9 inches; loamy fine sand
E--9 to 21 inches; loamy fine sand
2Bt--21 to 46 inches; clay loam
2Bk--46 to 80 inches; loam

169C--Braham Loamy Fine Sand, 6 To 12 Percent Slopes

Component Description

Braham and similar soils

Extent: 90 percent of the unit
Geomorphic description: Hill on moraine
Position on landform: Shoulder, backslope
Slope range: 6 to 12 percent
Surface layer texture: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash over till
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: 8.1 inches
Content of organic matter in the upper 10 inches: 1.7 percent
Typical profile:
Ap--0 to 8 inches; loamy fine sand
E--8 to 28 inches; loamy sand
2Bt--28 to 48 inches; clay loam
2Bk--48 to 80 inches; loam

169D--Braham Loamy Fine Sand, 12 To 18 Percent Slopes

Component Description

Braham and similar soils

Extent: 90 percent of the unit
Geomorphic description: Hill on moraine
Position on landform: Shoulder, backslope
Slope range: 12 to 18 percent
Surface layer texture: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash over till
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: 7.8 inches
Content of organic matter in the upper 10 inches: 1.7 percent
Typical profile:
Ap--0 to 8 inches; loamy fine sand
E--8 to 32 inches; loamy sand
2Bt--32 to 55 inches; clay loam
2Bk--55 to 80 inches; loam

204B--Cushing Fine Sandy Loam, 2 To 8 Percent Slopes

Component Description

Cushing and similar soils

Extent: 90 percent of the unit
Geomorphic description: Hill on moraine
Position on landform: Backslope, summit
Slope range: 2 to 8 percent
Surface layer texture: Fine sandy loam
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): 3.6 feet, April
Wet soil moisture status is lowest (depth, months): More than 6.7 feet, January
February July August September
Ponding: None
Available water capacity to a depth of 60 inches: 9.0 inches
Content of organic matter in the upper 10 inches: 1.1 percent
Typical profile:
A--0 to 6 inches; fine sandy loam
E,B/E--6 to 22 inches; fine sandy loam
Bt,BC--22 to 44 inches; clay loam

C--44 to 80 inches; loam

204C--Cushing Fine Sandy Loam, 8 To 15 Percent Slopes

Component Description

Cushing and similar soils

Extent: 95 percent of the unit
Geomorphic description: Hill on moraine
Position on landform: Shoulder, backslope
Slope range: 8 to 15 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
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: 9.0 inches
Content of organic matter in the upper 10 inches: 1.2 percent
Typical profile:
Ap--0 to 7 inches; fine sandy loam
E--7 to 21 inches; fine sandy loam
Bt--21 to 44 inches; clay loam
C--44 to 80 inches; sandy loam

258B--Sandberg Loamy Coarse Sand, 1 To 6 Percent Slopes

Component Description

Sandberg and similar soils

Extent: 95 percent of the unit
Geomorphic description: Hill on stream terrace
Position on landform: Summit, shoulder, backslope
Slope range: 1 to 6 percent
Surface layer texture: Loamy coarse sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
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: 3.9 inches
Content of organic matter in the upper 10 inches: 2.5 percent
Typical profile:
Ap,A--0 to 14 inches; loamy coarse sand
Bw--14 to 32 inches; gravelly coarse sand
C--32 to 80 inches; sand

258C--Sandberg Loamy Coarse Sand, 6 To 12 Percent Slopes

Component Description

Sandberg and similar soils

Extent: 95 percent of the unit
Geomorphic description: Hill on stream terrace
Position on landform: Shoulder, backslope
Slope range: 6 to 12 percent
Surface layer texture: Loamy coarse sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained

Parent material: Outwash
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: 3.6 inches
Content of organic matter in the upper 10 inches: 2.0 percent
Typical profile:
Ap--0 to 11 inches; loamy coarse sand
Bw--11 to 26 inches; coarse sand
C--26 to 80 inches; coarse sand

258E--Sandberg Loamy Coarse Sand, 12 To 35 Percent Slopes

Component Description

Sandberg and similar soils

Extent: 95 percent of the unit
Geomorphic description: Hill on stream terrace, escarpment
Position on landform: Shoulder, backslope
Slope range: 12 to 35 percent
Surface layer texture: Loamy coarse sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
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: 3.6 inches
Content of organic matter in the upper 10 inches: 2.0 percent
Typical profile:
A--0 to 11 inches; loamy coarse sand
Bw--11 to 27 inches; coarse sand
C--27 to 80 inches; gravelly coarse sand

260--Duelm Loamy Sand, 0 To 2 Percent Slopes

Component Description

Duelm and similar soils

Extent: 95 percent of the unit
Geomorphic description: Outwash plain, stream terrace
Position on landform: Flats and slight rises
Slope range: 0 to 2 percent
Surface layer texture: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 2.5 feet, April May
Wet soil moisture status is lowest (depth, months): 4.0 feet, February August
September
Ponding: None
Available water capacity to a depth of 60 inches: 4.4 inches
Content of organic matter in the upper 10 inches: 4.0 percent
Typical profile:
Ap,AB--0 to 16 inches; loamy sand
Bw--16 to 30 inches; coarse sand
C--30 to 80 inches; coarse sand

261--Isan Sandy Loam, Depressional, 0 To 1 Percent Slopes

Component Description

Isan, depressional and similar soils

Extent: 95 percent of the unit
Geomorphic description: Outwash plain, stream terrace
Position on landform: Depressions
Slope range: 0 to 1 percent
Surface layer texture: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Outwash
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface, April May June
Wet soil moisture status is lowest (depth, months): 1.5 feet, February
Ponding is shallowest (depth, months): 0.5 foot, June
Ponding is deepest (depth, months): 1.0 foot, March April May
Available water capacity to a depth of 60 inches: 4.7 inches
Content of organic matter in the upper 10 inches: 6.5 percent
Typical profile:
A--0 to 14 inches; sandy loam
AB,Bg--14 to 34 inches; loamy sand
Cg--34 to 80 inches; coarse sand

325--Prebish Fine Sandy Loam, Depressional, 0 To 1 Percent Slopes

Component Description

Prebish, depressional and similar soils

Extent: 95 percent of the unit
Geomorphic description: Interdrumlin
Position on landform: Depressions
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: Till
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface, April May June
Wet soil moisture status is lowest (depth, months): 1.0 foot, February March August September
Ponding is shallowest (depth, months): 0.5 foot, June
Ponding is deepest (depth, months): 1.0 foot, March April May
Available water capacity to a depth of 60 inches: 6.8 inches
Content of organic matter in the upper 10 inches: 6.0 percent
Typical profile:
A1,A2--0 to 15 inches; fine sandy loam
Bg,BC--15 to 41 inches; sandy loam
Cd--41 to 80 inches; fine sandy loam

341--Arvilla Sandy Loam, 0 To 2 Percent Slopes

Component Description

Arvilla and similar soils

Extent: 95 percent of the unit
Geomorphic description: Stream terrace
Position on landform: Flats
Slope range: 0 to 2 percent
Surface layer texture: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat excessively drained
Parent material: Outwash
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: 4.3 inches
Content of organic matter in the upper 10 inches: 2.5 percent
Typical profile:
Ap,A--0 to 14 inches; sandy loam
Bw--14 to 20 inches; sandy loam
2Bw,2Bk,2C--20 to 80 inches; gravelly coarse sand

346--Talmoon Loam, 0 To 2 Percent Slopes

Component Description

Talmoon and similar soils

Extent: 90 percent of the unit
Geomorphic description: Moraine
Position on landform: Flats and swales
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 May
Wet soil moisture status is lowest (depth, months): 2.5 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: 2.4 percent
Typical profile:
Ap--0 to 7 inches; loam
Eg--7 to 12 inches; fine sandy loam
Btg--12 to 32 inches; clay loam
Bk--32 to 80 inches; loam

373--Renshaw Loam, 0 To 3 Percent Slopes

Component Description

Renshaw and similar soils

Extent: 95 percent of the unit
Geomorphic description: Stream terrace
Position on landform: Flats
Slope range: 0 to 3 percent
Surface layer texture: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
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: 4.9 inches
Content of organic matter in the upper 10 inches: 2.8 percent
Typical profile:
Ap--0 to 9 inches; loam
Bw--9 to 15 inches; loam
2Bw,2C--15 to 80 inches; gravelly coarse sand

454B--Mahtomedi Loamy Coarse Sand, 1 To 6 Percent Slopes

Component Description

Mahtomedi and similar soils

Extent: 95 percent of the unit
Geomorphic description: Hill on moraine
Position on landform: Summit, backslope
Slope range: 1 to 6 percent
Surface layer texture: Loamy coarse sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
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: 4.3 inches
Content of organic matter in the upper 10 inches: 0.7 percent
Typical profile:
Ap--0 to 9 inches; loamy coarse sand
Bw--9 to 36 inches; gravelly coarse sand
BC,C--36 to 80 inches; coarse sand

454C--Mahtomedi Loamy Coarse Sand, 6 To 15 Percent Slopes

Component Description

Mahtomedi and similar soils

Extent: 95 percent of the unit
Geomorphic description: Hill on moraine
Position on landform: Summit, backslope
Slope range: 6 to 15 percent
Surface layer texture: Loamy coarse sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
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: 4.2 inches
Content of organic matter in the upper 10 inches: 0.4 percent
Typical profile:
Ap--0 to 3 inches; loamy coarse sand
Bw--3 to 17 inches; gravelly sand
C--17 to 80 inches; sand

540--Seelyeville Muck, 0 To 1 Percent Slopes

Component Description

Seelyeville and similar soils

Extent: 95 percent of the unit
Geomorphic description: Moraine, outwash plain, stream terrace
Position on landform: Depressions
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, April May June
Wet soil moisture status is lowest (depth, months): 1.5 feet, February

Ponding is shallowest (depth, months): 0.5 foot, June
Ponding is deepest (depth, months): 1.0 foot, March April May
Available water capacity to a depth of 60 inches: 23.9 inches
Content of organic matter in the upper 10 inches: 62.0 percent
Typical profile:
Oa1--0 to 10 inches; muck
Oa2,Oa5--10 to 80 inches; muck

543--Markey Muck, 0 To 1 Percent Slopes

Component Description

Markey and similar soils

Extent: 90 percent of the unit
Geomorphic description: Outwash plain, stream terrace
Position on landform: Depressions
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 outwash
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface, April May June
Wet soil moisture status is lowest (depth, months): 1.5 feet, February
Ponding is shallowest (depth, months): 0.5 foot, June
Ponding is deepest (depth, months): 1.0 foot, March April May
Available water capacity to a depth of 60 inches: 15.8 inches
Content of organic matter in the upper 10 inches: 70.0 percent
Typical profile:
Oa--0 to 36 inches; muck
2A--36 to 42 inches; loamy sand
2Cg--42 to 80 inches; sand

544--Cathro Muck, 0 To 1 Percent Slopes

Component Description

Cathro and similar soils

Extent: 95 percent of the unit
Geomorphic description: Moraine
Position on landform: Depressions
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, April May June
Wet soil moisture status is lowest (depth, months): 1.5 feet, February
Ponding is shallowest (depth, months): 0.5 foot, June
Ponding is deepest (depth, months): 1.0 foot, March April May
Available water capacity to a depth of 60 inches: 20.0 inches
Content of organic matter in the upper 10 inches: 72.5 percent
Typical profile:
Oa1,Oa2--0 to 30 inches; muck
2A--30 to 38 inches; loam
2Cg--38 to 80 inches; loam

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

Component Description

Eckvoll and similar soils

Extent: 90 percent of the unit
Geomorphic description: Moraine
Position on landform: Flats and slight rises
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: Outwash 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, January
February June July August September
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
E--9 to 24 inches; fine sand
2Bt--24 to 45 inches; loam
2C--45 to 80 inches; loam

567--Verndale Sandy Loam, 0 To 2 Percent Slopes

Component Description

Verndale and similar soils

Extent: 95 percent of the unit
Geomorphic description: Outwash plain, stream terrace
Position on landform: Flats
Slope range: 0 to 2 percent
Surface layer texture: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
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: 4.8 inches
Content of organic matter in the upper 10 inches: 3.0 percent
Typical profile:
Ap--0 to 10 inches; sandy loam
Bt--10 to 19 inches; sandy loam
2Bw--19 to 28 inches; sand
2C--28 to 80 inches; sand

623A--Pierz Sandy Loam, 0 To 2 Percent Slopes

Component Description

Pierz and similar soils

Extent: 95 percent of the unit
Geomorphic description: Outwash plain
Position on landform: Flats
Slope range: 0 to 2 percent
Surface layer texture: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash

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: 5.7 inches
Content of organic matter in the upper 10 inches: 3.0 percent
Typical profile:
Ap,A,AB--0 to 16 inches; sandy loam
Bt--16 to 29 inches; sandy loam
2C--29 to 80 inches; gravelly sand

623B--Pierz Sandy Loam, 2 To 6 Percent Slopes

Component Description

Pierz and similar soils

Extent: 95 percent of the unit
Geomorphic description: Hill on outwash plain
Position on landform: Summit, backslope
Slope range: 2 to 6 percent
Surface layer texture: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash
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: 4.8 inches
Content of organic matter in the upper 10 inches: 2.8 percent
Typical profile:
Ap--0 to 9 inches; sandy loam
Bt--9 to 22 inches; sandy loam
2C--22 to 80 inches; very gravelly coarse sand

708--Rushlake Coarse Sand, 1 To 4 Percent Slopes

Component Description

Rushlake and similar soils

Extent: 85 percent of the unit
Geomorphic description: Beach
Position on landform: Flats and slight rises
Slope range: 1 to 4 percent
Surface layer texture: Coarse sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 2.0 feet, April
Wet soil moisture status is lowest (depth, months): 4.0 feet, February August
September
Ponding: None
Available water capacity to a depth of 60 inches: 3.6 inches
Content of organic matter in the upper 10 inches: 2.1 percent
Typical profile:
A--0 to 9 inches; coarse sand
C--9 to 80 inches; coarse sand

730A--Sanburn Fine Sandy Loam, 0 To 2 Percent Slopes

Component Description

Sanburn and similar soils

Extent: 90 percent of the unit
Geomorphic description: Moraine, outwash plain
Position on landform: Flats
Slope range: 0 to 2 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
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: 3.3 inches
Content of organic matter in the upper 10 inches: 1.5 percent
Typical profile:
Ap--0 to 6 inches; fine sandy loam
Bt--6 to 18 inches; sandy loam
2Bt,2BC,2C--18 to 80 inches; gravelly coarse sand

730B--Sanburn Fine Sandy Loam, 2 To 6 Percent Slopes

Component Description

Sanburn and similar soils

Extent: 90 percent of the unit
Geomorphic description: Hill on outwash plain, hill on moraine
Position on landform: Summit, backslope
Slope range: 2 to 6 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
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: 3.3 inches
Content of organic matter in the upper 10 inches: 1.4 percent
Typical profile:
Ap--0 to 5 inches; fine sandy loam
Bt--5 to 19 inches; sandy loam
2BC,2C--19 to 80 inches; gravelly coarse sand

732B--Bushville Fine Sand, 2 To 6 Percent Slopes

Component Description

Bushville and similar soils

Extent: 95 percent of the unit
Geomorphic description: Drumlin
Position on landform: Backslope, summit
Slope range: 2 to 6 percent
Surface layer texture: Fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material: Outwash over till
Flooding: None
Wet soil moisture status is highest (depth, months): 1.0 foot, April
Wet soil moisture status is lowest (depth, months): More than 6.7 feet, January
February July August September
Ponding: None
Available water capacity to a depth of 60 inches: 3.9 inches
Content of organic matter in the upper 10 inches: 0.7 percent

Typical profile:

Ap--0 to 8 inches; fine sand
E1,E2,E3--8 to 28 inches; fine sand
2Bt--28 to 33 inches; fine sandy loam
2BC--33 to 43 inches; fine sandy loam
2Cd--43 to 80 inches; sandy loam

768--Mosford Sandy Loam, 0 To 2 Percent Slopes

Component Description

Mosford and similar soils

Extent: 95 percent of the unit
Geomorphic description: Stream terrace, outwash plain
Position on landform: Flats
Slope range: 0 to 2 percent
Surface layer texture: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
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: 4.8 inches
Content of organic matter in the upper 10 inches: 3.0 percent
Typical profile:
Ap,A--0 to 12 inches; sandy loam
Bw--12 to 16 inches; coarse sandy loam
2Bw--16 to 21 inches; coarse sand
2C--21 to 80 inches; sand

771--Elkriver Fine Sandy Loam, 0 To 2 Percent Slopes, Rarely Flooded

Component Description

Elkriver, rarely flooded and similar soils

Extent: 95 percent of the unit
Geomorphic description: Flood plain
Position on landform: Flats and slight rises
Slope range: 0 to 2 percent
Surface layer texture: Fine sandy 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 July August September October
November December
Flooding is most likely (frequency, months): Rare, March April May June
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, September
Ponding: None
Available water capacity to a depth of 60 inches: 8.2 inches
Content of organic matter in the upper 10 inches: 1.7 percent
Typical profile:
Ap--0 to 10 inches; fine sandy loam
A1,A3--10 to 35 inches; fine sandy loam
Bw--35 to 39 inches; fine sandy loam
2C--39 to 80 inches; sand

799--Seelyeville And Bowstring Soils, 0 To 1 Percent Slopes, Frequently Flooded

Component Description

Seelyeville, frequently flooded and similar soils

Extent: 45 percent of the unit
Geomorphic description: Flood plain
Position on landform: Flats
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 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): At the surface, April May June
Wet soil moisture status is lowest (depth, months): 1.8 feet, February
Ponding: None
Available water capacity to a depth of 60 inches: 23.9 inches
Content of organic matter in the upper 10 inches: 62.0 percent
Typical profile:
Oa1--0 to 12 inches; muck
Oa2,Oa3--12 to 80 inches; muck

Bowstring, frequently flooded and similar soils

Extent: 45 percent of the unit
Geomorphic description: Flood plain
Position on landform: Flats
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 and alluvium
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): At the surface, April May June
Wet soil moisture status is lowest (depth, months): 1.8 feet, February
Ponding: None
Available water capacity to a depth of 60 inches: 21.3 inches
Content of organic matter in the upper 10 inches: 65.0 percent
Typical profile:
Oa1,Oa2--0 to 38 inches; muck
Cg--38 to 47 inches; stratified fine sand to fine sandy loam
O'a1--47 to 80 inches; muck

1013--Pits, Quarry

Component Description

Pits

Extent: 90 percent of the unit
Geomorphic description: Stream terrace
Position on landform: Flats
Surface layer texture: Unweathered bedrock
Depth to restrictive feature: Bedrock (lithic): 0 to 4 inches
Parent material: Bedrock, granite
Typical profile:
unweathered bedrock

This map unit consists of open pits where granite has been mined. These areas are active or abandoned. Some pits have water in them

because they were mined below the regional aquifer.

1015--Udipsamments, Cut And Fill Land

Component Description

Udipsamments (cut and fill land)

Extent: 90 percent of the unit
Geomorphic description: Stream terrace, outwash plain
Slope range: 0 to 6 percent
Parent material: Variable sandy material
Flooding: None

The Udipsamments component, comprises of nearly level areas that had minimal grading or were borrow areas. The cut and fill material is dominantly the sandy parent material. Because of the variability of the components in this map unit, interpretations for specific uses are not available. Onsite investigation is needed.

1016--Udorthents, Loamy, Cut And Fill Land

Component Description

Udorthents (cut and fill land)

Extent: 90 percent of the unit
Geomorphic description: Moraine
Slope range: 0 to 12 percent
Parent material: Variable loamy material
Flooding: None

The Udorthents component, consists primarily of cut or fill operations to the landscape to level and or fill areas for development. The cut and or fill material is dominantly loamy soil material. Up to 30 percent of this map unit is covered by impervious surfaces. The majority of the area has been disturbed by construction activity. Because of the variability of the component in this map unit, interpretations for specific uses are not available. Onsite investigation is needed.

1028--Udorthents-Pits, Gravel, Complex

Component Description

Udorthents

Extent: 45 percent of the unit
Geomorphic description: Moraine, outwash plain, stream terrace
Parent material: Outwash

Udorthents are areas of soil that support plant growth and are areas of the pit that have been reclaimed or abandoned. Because of the variability of this component in this map unit, interpretations for specific uses are not available. Onsite investigation is needed.

Pits, gravel

Extent: 40 percent of the unit
Geomorphic description: Stream terrace, moraine, outwash plain
Parent material: Sandy and gravelly outwash

Gravel pits are areas that have been mined for gravel or sand.

This map unit is actively being mined or is an abandoned pit. Because of the variability of this component in this map unit, interpretation for specific uses are not available. Onsite investigation is needed.

1109--Isanti Loamy Fine Sand, 0 To 2 Percent Slopes

Component Description

Isanti and similar soils

Extent: 90 percent of the unit
Geomorphic description: Outwash plain
Position on landform: Flats
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: Outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot, April May
Wet soil moisture status is lowest (depth, months): 2.0 feet, August September
Ponding: None
Available water capacity to a depth of 60 inches: 4.5 inches
Content of organic matter in the upper 10 inches: 9.0 percent
Typical profile:
Ap,AB--0 to 16 inches; loamy fine sand
Bg--16 to 23 inches; loamy fine sand
BCg,Cg--23 to 80 inches; fine sand

1110--Isan Sandy Loam, 0 To 2 Percent Slopes

Component Description

Isan and similar soils

Extent: 90 percent of the unit
Geomorphic description: Stream terrace, outwash plain
Position on landform: Flats and swales
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: Outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot, April May
Wet soil moisture status is lowest (depth, months): 2.0 feet, August September
Ponding: None
Available water capacity to a depth of 60 inches: 4.8 inches
Content of organic matter in the upper 10 inches: 6.5 percent
Typical profile:
Ap,A--0 to 18 inches; sandy loam
AB,Bg--18 to 29 inches; loamy sand
Cg--29 to 80 inches; coarse sand

1223--Sandberg-Arvilla Complex, 0 To 3 Percent Slopes

Component Description

Sandberg and similar soils

Extent: 60 percent of the unit
Geomorphic description: Stream terrace
Position on landform: Slight rise

Slope range: 1 to 3 percent
Surface layer texture: Loamy coarse sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
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: 3.9 inches
Content of organic matter in the upper 10 inches: 2.5 percent
Typical profile:
Ap--0 to 11 inches; loamy coarse sand
Bw,BC--11 to 35 inches; gravelly coarse sand
C--35 to 80 inches; gravelly coarse sand

Arvilla and similar soils

Extent: 30 percent of the unit
Geomorphic description: Stream terrace
Position on landform: Flats
Slope range: 0 to 2 percent
Surface layer texture: Coarse sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
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: 4.1 inches
Content of organic matter in the upper 10 inches: 2.5 percent
Typical profile:
Ap,A--0 to 14 inches; coarse sandy loam
Bw--14 to 17 inches; coarse sandy loam
2Bw,2C--17 to 80 inches; gravelly coarse sand

1224--Hubbard-Verndale Complex, 0 To 3 Percent Slopes

Component Description

Hubbard and similar soils

Extent: 60 percent of the unit
Geomorphic description: Stream terrace, outwash plain
Position on landform: Slight rise
Slope range: 0 to 3 percent
Surface layer texture: Loamy coarse sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
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: 3.5 inches
Content of organic matter in the upper 10 inches: 3.0 percent
Typical profile:
Ap--0 to 11 inches; loamy coarse sand
Bw--11 to 27 inches; loamy sand
BC,C--27 to 80 inches; coarse sand

Verndale and similar soils

Extent: 35 percent of the unit
Geomorphic description: Stream terrace, outwash plain
Position on landform: Flats
Slope range: 0 to 2 percent
Surface layer texture: Coarse sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
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: 5.1 inches
Content of organic matter in the upper 10 inches: 3.0 percent
Typical profile:
Ap--0 to 10 inches; coarse sandy loam
Bt--10 to 16 inches; coarse sandy loam
2Bw--16 to 45 inches; coarse sand
2C--45 to 80 inches; sand

1231--Hubbard-Mosford Complex, 0 To 3 Percent Slopes

Component Description

Hubbard and similar soils

Extent: 60 percent of the unit
Geomorphic description: Outwash plain, stream terrace
Position on landform: Slight rise
Slope range: 0 to 3 percent
Surface layer texture: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
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: 3.6 inches
Content of organic matter in the upper 10 inches: 3.0 percent
Typical profile:
Ap,A--0 to 13 inches; loamy sand
Bw--13 to 19 inches; loamy sand
BC,C--19 to 80 inches; sand

Mosford and similar soils

Extent: 35 percent of the unit
Geomorphic description: Stream terrace, outwash plain
Position on landform: Flats
Slope range: 0 to 2 percent
Surface layer texture: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
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: 5.1 inches
Content of organic matter in the upper 10 inches: 3.0 percent
Typical profile:
Ap,A--0 to 13 inches; sandy loam
Bw--13 to 16 inches; coarse sandy loam
2Bw--16 to 35 inches; coarse sand
2C--35 to 80 inches; sand

1253B--Stonelake-Sanburn Complex, 1 To 6 Percent Slopes

Component Description

Stonelake and similar soils

Extent: 60 percent of the unit
Geomorphic description: Hill on moraine
Position on landform: Shoulder, summit
Slope range: 1 to 6 percent
Surface layer texture: Gravelly loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
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: 2.9 inches
Content of organic matter in the upper 10 inches: 1.1 percent
Typical profile:
Ap--0 to 4 inches; gravelly loamy sand
Bw--4 to 11 inches; gravelly coarse sand
Bt--11 to 24 inches; very gravelly coarse sand
BC,C--24 to 80 inches; gravelly sand

Sanburn and similar soils

Extent: 30 percent of the unit
Geomorphic description: Hill on moraine
Position on landform: Footslope, backslope
Slope range: 1 to 6 percent
Surface layer texture: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
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: 3.4 inches
Content of organic matter in the upper 10 inches: 1.4 percent
Typical profile:
Ap--0 to 5 inches; sandy loam
Bt--5 to 20 inches; gravelly sandy loam
2BC,2C--20 to 80 inches; gravelly coarse sand

1253C--Stonelake-Sanburn Complex, 6 To 15 Percent Slopes

Component Description

Stonelake and similar soils

Extent: 65 percent of the unit
Geomorphic description: Hill on moraine
Position on landform: Summit, shoulder
Slope range: 6 to 15 percent
Surface layer texture: Gravelly loamy coarse sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
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: 3.0 inches
Content of organic matter in the upper 10 inches: 1.4 percent
Typical profile:
Ap--0 to 5 inches; gravelly loamy coarse sand
Bt--5 to 16 inches; very gravelly loamy coarse sand
BC,C--16 to 80 inches; gravelly coarse sand

Sanburn and similar soils

Extent: 25 percent of the unit

Geomorphic description: Hill on moraine
Position on landform: Footslope, backslope
Slope range: 6 to 15 percent
Surface layer texture: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
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: 3.3 inches
Content of organic matter in the upper 10 inches: 1.8 percent
Typical profile:
Ap--0 to 8 inches; sandy loam
Bt--8 to 17 inches; sandy loam
2C--17 to 80 inches; coarse sand

1253E--Stonelake-Sanburn Complex, 15 To 40 Percent Slopes

Component Description

Stonelake and similar soils

Extent: 65 percent of the unit
Geomorphic description: Hill on moraine
Position on landform: Summit, shoulder
Slope range: 15 to 40 percent
Surface layer texture: Loamy coarse sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
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: 2.7 inches
Content of organic matter in the upper 10 inches: 0.7 percent
Typical profile:
A--0 to 2 inches; loamy coarse sand
E--2 to 8 inches; very gravelly loamy coarse sand
Bt--8 to 16 inches; very gravelly coarse sand
C--16 to 80 inches; gravelly coarse sand

Sanburn and similar soils

Extent: 25 percent of the unit
Geomorphic description: Hill on moraine
Position on landform: Footslope, backslope
Slope range: 15 to 30 percent
Surface layer texture: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
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: 3.0 inches
Content of organic matter in the upper 10 inches: 1.4 percent
Typical profile:
A--0 to 5 inches; sandy loam
Bt--5 to 14 inches; sandy loam
2C--14 to 80 inches; coarse sand

1254--Ricelake Fine Sandy Loam, 0 To 3 Percent Slopes

Component Description

Ricelake and similar soils

Extent: 90 percent of the unit
Geomorphic description: Outwash plain
Position on landform: Flats and slight rises
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: Glacial outwash 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, February August
Ponding: None
Available water capacity to a depth of 60 inches: 8.3 inches
Content of organic matter in the upper 10 inches: 3.2 percent
Typical profile:
A--0 to 9 inches; fine sandy loam
E--9 to 27 inches; loamy fine sand
Bt--27 to 48 inches; fine sandy loam
2Cg--48 to 80 inches; clay loam

1255--Elkriver Fine Sandy Loam, 0 To 2 Percent Slopes, Occasionally Flooded

Component Description

Elkriver, occasionally flooded and similar soils

Extent: 90 percent of the unit
Geomorphic description: Flood plain
Position on landform: Flats
Slope range: 0 to 2 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material: Alluvium
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): 4.5 feet, February
Ponding: None
Available water capacity to a depth of 60 inches: 7.4 inches
Content of organic matter in the upper 10 inches: 1.7 percent
Typical profile:
Ap--0 to 10 inches; fine sandy loam
A1,A3--10 to 26 inches; fine sandy loam
Bw--26 to 32 inches; very fine sandy loam
2C--32 to 80 inches; sand

1256--Cantlin Loamy Fine Sand, 0 To 3 Percent Slopes

Component Description

Cantlin and similar soils

Extent: 90 percent of the unit
Geomorphic description: Outwash plain
Position on landform: Flats and slight rises
Slope range: 0 to 3 percent
Surface layer texture: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 3.5 feet, April May
Wet soil moisture status is lowest (depth, months): More than 6.7 feet, August
September October
Ponding: None
Available water capacity to a depth of 60 inches: 4.1 inches
Content of organic matter in the upper 10 inches: 1.1 percent
Typical profile:
Ap--0 to 8 inches; loamy fine sand
Bw--8 to 22 inches; loamy fine sand
BC,C--22 to 80 inches; fine sand

1257--Elkriver-Mosford Complex, 0 To 6 Percent Slopes, Rarely Flooded

Component Description

Elkriver, rarely flooded and similar soils

Extent: 55 percent of the unit
Geomorphic description: Flood plain
Position on landform: Flats
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: Alluvium
Flooding does not occur (months): January February July August September October
November December
Flooding is most likely (frequency, months): Rare, March April May June
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, September
Ponding: None
Available water capacity to a depth of 60 inches: 7.5 inches
Content of organic matter in the upper 10 inches: 1.7 percent
Typical profile:
Ap--0 to 11 inches; fine sandy loam
AB--11 to 20 inches; fine sandy loam
Bw--20 to 34 inches; fine sandy loam
2C--34 to 80 inches; fine sand

Mosford, rarely flooded and similar soils

Extent: 35 percent of the unit
Geomorphic description: Flood plain
Position on landform: Slight rise
Slope range: 0 to 6 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding does not occur (months): January February July August September October
November December
Flooding is most likely (frequency, months): Rare, March April May June
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, September
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--0 to 11 inches; fine sandy loam
Bw--11 to 16 inches; fine sandy loam
2Bw--16 to 25 inches; fine sand

2C--25 to 80 inches; sand

1258B--Zimmerman Fine Sand, Thick Solum, 1 To 6 Percent Slopes

Component Description

Zimmerman, thick solum and similar soils

Extent: 95 percent of the unit
Geomorphic description: Hill on outwash plain
Position on landform: Backslope, summit
Slope range: 1 to 6 percent
Surface layer texture: Fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
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: 4.8 inches
Content of organic matter in the upper 10 inches: 0.6 percent
Typical profile:
A--0 to 2 inches; fine sand
Bw,E--2 to 62 inches; fine sand
E'&Bt--62 to 80 inches; fine sand

1258C--Zimmerman Fine Sand, Thick Solum, 6 To 12 Percent Slopes

Component Description

Zimmerman, thick solum and similar soils

Extent: 95 percent of the unit
Geomorphic description: Hill on outwash plain
Position on landform: Backslope, summit
Slope range: 6 to 12 percent
Surface layer texture: Fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
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: 4.8 inches
Content of organic matter in the upper 10 inches: 0.7 percent
Typical profile:
A--0 to 3 inches; fine sand
Bw,E--3 to 70 inches; fine sand
E'&Bt--70 to 80 inches; fine sand

1258E--Zimmerman Fine Sand, Thick Solum, 12 To 35 Percent Slopes

Component Description

Zimmerman, thick solum and similar soils

Extent: 95 percent of the unit
Geomorphic description: Hill on outwash plain
Position on landform: Shoulder, backslope
Slope range: 12 to 35 percent
Surface layer texture: Fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash

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: 4.8 inches
Content of organic matter in the upper 10 inches: 0.6 percent
Typical profile:
A--0 to 2 inches; fine sand
Bw,E--2 to 62 inches; fine sand
E'&Bt--62 to 80 inches; fine sand

1260B--Stonelake-Nebish Complex, 2 To 6 Percent Slopes

Component Description

Stonelake and similar soils

Extent: 55 percent of the unit
Geomorphic description: Hill on moraine
Position on landform: Summit, shoulder
Slope range: 2 to 6 percent
Surface layer texture: Loamy coarse sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
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: 3.4 inches
Content of organic matter in the upper 10 inches: 1.1 percent
Typical profile:
Ap--0 to 8 inches; loamy coarse sand
Bt--8 to 30 inches; very gravelly loamy coarse sand
BC,C--30 to 80 inches; gravelly sand

Nebish and similar soils

Extent: 30 percent of the unit
Geomorphic description: Hill on moraine
Position on landform: Backslope, summit
Slope range: 2 to 6 percent
Surface layer texture: Fine sandy loam
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): 3.6 feet, April
Wet soil moisture status is lowest (depth, months): More than 6.7 feet, January
February July August September
Ponding: None
Available water capacity to a depth of 60 inches: 9.7 inches
Content of organic matter in the upper 10 inches: 1.2 percent
Typical profile:
Ap--0 to 6 inches; fine sandy loam
E--6 to 9 inches; fine sandy loam
Bt--9 to 43 inches; clay loam
Bk--43 to 80 inches; loam

1260C--Stonelake-Nebish Complex, 6 To 12 Percent Slopes

Component Description

Stonelake and similar soils

Extent: 55 percent of the unit
Geomorphic description: Hill on moraine

Position on landform: Summit, shoulder
Slope range: 6 to 12 percent
Surface layer texture: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
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: 3.3 inches
Content of organic matter in the upper 10 inches: 1.0 percent
Typical profile:
Ap--0 to 7 inches; loamy sand
E--7 to 20 inches; loamy coarse sand
Bt--20 to 42 inches; very gravelly coarse sand
C--42 to 80 inches; very gravelly coarse sand

Nebish and similar soils

Extent: 30 percent of the unit
Geomorphic description: Hill on moraine
Position on landform: Backslope, summit
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
Parent material: Till
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: 9.4 inches
Content of organic matter in the upper 10 inches: 1.0 percent
Typical profile:
Ap--0 to 3 inches; fine sandy loam
E--3 to 10 inches; fine sandy loam
Bt--10 to 29 inches; clay loam
Bk--29 to 80 inches; loam

1260E--Stonelake-Nebish Complex, 12 To 25 Percent Slopes

Component Description

Stonelake and similar soils

Extent: 60 percent of the unit
Geomorphic description: Hill on moraine
Position on landform: Shoulder, summit
Slope range: 12 to 25 percent
Surface layer texture: Gravelly coarse sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
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: 2.9 inches
Content of organic matter in the upper 10 inches: 1.4 percent
Typical profile:
A--0 to 5 inches; gravelly coarse sandy loam
Bw--5 to 11 inches; very gravelly coarse sand
Bt--11 to 20 inches; very gravelly coarse sand
BC,C--20 to 80 inches; very gravelly coarse sand

Nebish and similar soils

Extent: 25 percent of the unit

Geomorphic description: Hill on moraine
Position on landform: Backslope, summit
Slope range: 12 to 25 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
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: 9.4 inches
Content of organic matter in the upper 10 inches: 1.4 percent
Typical profile:
A--0 to 5 inches; fine sandy loam
EB--5 to 9 inches; fine sandy loam
Bt--9 to 27 inches; clay loam
Bk--27 to 80 inches; loam

1270B--Milaca Fine Sandy Loam, Moderately Wet, 3 To 6 Percent Slopes

Component Description

Milaca, moderately wet and similar soils

Extent: 90 percent of the unit
Geomorphic description: Drumlin
Position on landform: Summit, backslope
Slope range: 3 to 6 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): More than 6.7 feet, January
February July August September October
Ponding: None
Available water capacity to a depth of 60 inches: 5.8 inches
Content of organic matter in the upper 10 inches: 0.6 percent
Typical profile:
A--0 to 6 inches; fine sandy loam
E, BE--6 to 19 inches; fine sandy loam
Bt--19 to 28 inches; fine sandy loam
BC--28 to 45 inches; fine sandy loam
Cd--45 to 80 inches; sandy loam

1288--Seelyeville-Markey Complex, Ponded, 0 To 1 Percent Slopes

Component Description

Seelyeville, ponded and similar soils

Extent: 60 percent of the unit
Geomorphic description: Outwash plain, stream terrace
Position on landform: Depressions
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: At the surface all year
Ponding is shallowest (depth, months): 0.5 foot, August
Ponding is deepest (depth, months): 3.0 feet, March April May

Available water capacity to a depth of 60 inches: 23.9 inches
Content of organic matter in the upper 10 inches: 62.0 percent
Typical profile:
Oa1--0 to 15 inches; muck
Oa2,Oa3--15 to 80 inches; muck

Markey, ponded and similar soils

Extent: 30 percent of the unit
Geomorphic description: Stream terrace, outwash plain
Position on landform: Depressions
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 outwash
Flooding: None
Wet soil moisture status: At the surface all year
Ponding is shallowest (depth, months): 0.5 foot, August
Ponding is deepest (depth, months): 3.0 feet, March April May
Available water capacity to a depth of 60 inches: 12.8 inches
Content of organic matter in the upper 10 inches: 70.0 percent
Typical profile:
Oa--0 to 27 inches; muck
A--27 to 32 inches; loamy sand
Cg--32 to 80 inches; sand

1356--Water, Miscellaneous

Component Description

Water

Extent: 100 percent of the unit

Miscellaneous water map units are not naturally occurring water areas. They are constructed 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.

1946--Fordum-Winterfield Complex, 0 To 2 Percent Slopes, Frequently Flooded

Component Description

Fordum, frequently flooded and similar soils

Extent: 65 percent of the unit
Geomorphic description: Flood plain
Position on landform: Concave drainageways
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: Alluvium
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): At the surface, April May June
Wet soil moisture status is lowest (depth, months): 1.8 feet, February
Ponding: None
Available water capacity to a depth of 60 inches: 6.6 inches
Content of organic matter in the upper 10 inches: 6.6 percent
Typical profile:

A--0 to 7 inches; fine sandy loam
Cg--7 to 28 inches; sandy loam
2Cg--28 to 80 inches; sand

Winterfield, frequently flooded and similar soils

Extent: 20 percent of the unit

Geomorphic description: Flood plain

Position on landform: Slight rises

Slope range: 0 to 2 percent

Surface layer texture: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained

Parent material: Alluvium

Flooding does not occur (months): January February September October November
December

Flooding is most likely (frequency, months): Frequent, March April

Wet soil moisture status is highest (depth, months): 1.5 feet, April

Wet soil moisture status is lowest (depth, months): 4.5 feet, September

Ponding: None

Available water capacity to a depth of 60 inches: 4.7 inches

Content of organic matter in the upper 10 inches: 1.7 percent

Typical profile:

A--0 to 8 inches; loamy fine sand

C1,C2--8 to 20 inches; sand

C3,C5--20 to 80 inches; sand

W--Water

Component Description

Water

Extent: 100 percent of the unit