

Soil Descriptions - Non Technical

72--Shooker Very Fine Sandy Loam

Component Description

Shooker and similar soils

Extent: 85 percent of the unit
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
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, February 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:
H1--0 to 9 inches; very fine sandy loam
H2--9 to 27 inches; sandy clay loam
H3--27 to 60 inches; loam

119C--Pomroy Loamy Fine Sand, 6 To 12 Percent Slopes

Component Description

Pomroy and similar soils

Extent: 85 percent of the unit
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
Flooding: None
Depth to wet soil moisture status: More than 6.6 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 2.8 inches
Content of organic matter in the upper 10 inches: 0.4 percent
Typical profile:
H1--0 to 4 inches; loamy fine sand
H2--4 to 15 inches; loamy fine sand
H3--15 to 22 inches; loamy sand
H4--22 to 44 inches; sandy loam
H5--44 to 60 inches; sandy loam

124--Brickton Silt Loam

Component Description

Brickton and similar soils

Extent: 85 percent of the unit
Slope range: 0 to 2 percent
Surface layer texture: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot, April
Wet soil moisture status is lowest (depth, months): 4.9 feet, February August
Ponding: None
Available water capacity to a depth of 60 inches: 11.6 inches
Content of organic matter in the upper 10 inches: 3.0 percent
Typical profile:
H1--0 to 11 inches; silt loam

H2--11 to 32 inches; silty clay
H3--32 to 60 inches; clay

133B--Dalbo Very Fine Sandy Loam, 1 To 6 Percent Slopes

Component Description

Dalbo and similar soils

Extent: 90 percent of the unit
Slope range: 1 to 6 percent
Surface layer texture: Very fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Flooding: None
Wet soil moisture status is highest (depth, months): 2.5 feet, April
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, August
Ponding: None
Available water capacity to a depth of 60 inches: 8.6 inches
Content of organic matter in the upper 10 inches: 2.0 percent
Typical profile:
H1--0 to 13 inches; very fine sandy loam
H2--13 to 35 inches; silty clay
H3--35 to 60 inches; silty clay loam

142--Nokay Fine Sandy Loam

Component Description

Nokay and similar soils

Extent: 85 percent of the unit
Slope range: 0 to 3 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months): 1.0 feet, April May
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, January
February August
Ponding: None
Available water capacity to a depth of 60 inches: 4.3 inches
Content of organic matter in the upper 10 inches: 3.3 percent
Typical profile:
H1--0 to 6 inches; fine sandy loam
H2--6 to 12 inches; sandy loam
H3--12 to 19 inches; sandy loam
H4--19 to 44 inches; sandy loam
H5--44 to 60 inches; sandy loam

144B--Flak Sandy Loam, 3 To 8 Percent Slopes

Component Description

Flak and similar soils

Extent: 90 percent of the unit
Slope range: 3 to 8 percent
Surface layer texture: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Wet soil moisture status is highest (depth, months): 3.5 feet, April
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, January
February July August
September October November
December
Ponding: None
Available water capacity to a depth of 60 inches: 4.1 inches
Content of organic matter in the upper 10 inches: 0.6 percent
Typical profile:
H1--0 to 3 inches; sandy loam

H2--3 to 13 inches; sandy loam
H3--13 to 22 inches; sandy loam
H4--22 to 45 inches; sandy loam
H5--45 to 60 inches; sandy loam

144C--Flak Sandy Loam, 8 To 15 Percent Slopes

Component Description

Flak and similar soils

Extent: 90 percent of the unit
Slope range: 8 to 15 percent
Surface layer texture: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 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: 0.5 percent
Typical profile:
H1--0 to 2 inches; sandy loam
H2--2 to 5 inches; sandy loam
H3--5 to 16 inches; sandy loam
H4--16 to 34 inches; sandy loam
H5--34 to 60 inches; sandy loam

146B--Wabedo Sandy Loam, 1 To 6 Percent Slopes

Component Description

Wabedo and similar soils

Extent: 85 percent of the unit
Slope range: 1 to 6 percent
Surface layer texture: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Flooding: None
Wet soil moisture status is highest (depth, months): 2.0 feet, May
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, January
February August
September October November
December
Ponding: None
Available water capacity to a depth of 60 inches: 5.3 inches
Content of organic matter in the upper 10 inches: 1.5 percent
Typical profile:
H1--0 to 5 inches; sandy loam
H2--5 to 27 inches; sandy loam
H3--27 to 47 inches; sandy loam
H4--47 to 60 inches; sandy loam

147--Spoooner Silt Loam

Component Description

Spoooner and similar soils

Extent: 90 percent of the unit
Slope range: 0 to 2 percent
Surface layer texture: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot, April May
Wet soil moisture status is lowest (depth, months): 4.9 feet, August
Ponding: None
Available water capacity to a depth of 60 inches: 11.9 inches
Content of organic matter in the upper 10 inches: 1.6 percent
Typical profile:

H1--0 to 4 inches; silt loam
H2--4 to 10 inches; silt loam
H3--10 to 29 inches; silt loam
H4--29 to 60 inches; silty clay loam

152B--Milaca Fine Sandy Loam, 3 To 8 Percent Slopes

Component Description

Milaca and similar soils

Extent: 85 percent of the unit
Slope range: 3 to 8 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Flooding: None
Wet soil moisture status is highest (depth, months): 3.0 feet, May
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, January
February March July
August September October
November December

Ponding: None
Available water capacity to a depth of 60 inches: 6.5 inches
Content of organic matter in the upper 10 inches: 0.4 percent
Typical profile:
H1--0 to 3 inches; fine sandy loam
H2--3 to 22 inches; fine sandy loam
H3--22 to 32 inches; sandy loam
H4--32 to 48 inches; sandy loam
H5--48 to 60 inches; sandy loam

152C--Milaca Fine Sandy Loam, 8 To 15 Percent Slopes

Component Description

Milaca and similar soils

Extent: 85 percent of the unit
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
Flooding: None
Depth to wet soil moisture status: More than 6.6 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: 0.4 percent
Typical profile:
H1--0 to 3 inches; fine sandy loam
H2--3 to 15 inches; fine sandy loam
H3--15 to 20 inches; sandy loam
H4--20 to 45 inches; sandy loam
H5--45 to 60 inches; sandy loam

152E--Milaca Fine Sandy Loam, 15 To 25 Percent Slopes

Component Description

Milaca and similar soils

Extent: 90 percent of the unit
Slope range: 15 to 25 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 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: 0.4 percent
Typical profile:

H1--0 to 4 inches; fine sandy loam
H2--4 to 10 inches; fine sandy loam
H3--10 to 22 inches; sandy loam
H4--22 to 42 inches; sandy loam
H5--42 to 60 inches; sandy loam

164B--Mora Fine Sandy Loam, 1 To 4 Percent Slopes

Component Description

Mora and similar soils

Extent: 85 percent of the unit
Slope range: 1 to 4 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Flooding: None
Wet soil moisture status is highest (depth, months): 2.0 feet, May
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, January
February August
September October November
December
Ponding: None
Available water capacity to a depth of 60 inches: 5.6 inches
Content of organic matter in the upper 10 inches: 0.7 percent
Typical profile:
H1--0 to 3 inches; fine sandy loam
H2--3 to 15 inches; fine sandy loam
H3--15 to 28 inches; sandy loam
H4--28 to 42 inches; sandy loam
H5--42 to 60 inches; sandy loam

166--Ronneby Loam

Component Description

Ronneby and similar soils

Extent: 85 percent of the unit
Slope range: 0 to 2 percent
Surface layer texture: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months): 1.0 feet, April May
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, January
February August
Ponding: None
Available water capacity to a depth of 60 inches: 6.7 inches
Content of organic matter in the upper 10 inches: 3.0 percent
Typical profile:
H1--0 to 4 inches; loam
H2--4 to 22 inches; sandy loam
H3--22 to 35 inches; sandy loam
H4--35 to 45 inches; sandy loam
H5--45 to 60 inches;

167B--Baudette Silt Loam, 1 To 5 Percent Slopes

Component Description

Baudette and similar soils

Extent: 90 percent of the unit
Slope range: 1 to 5 percent
Surface layer texture: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Flooding: None
Wet soil moisture status is highest (depth, months): 2.5 feet, May

Wet soil moisture status is lowest (depth, months): More than 6.6 feet, January
February August
September October November
December

Ponding: None

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

Content of organic matter in the upper 10 inches: 1.4 percent

Typical profile:

H1--0 to 4 inches; silt loam

H2--4 to 13 inches; silt loam

H3--13 to 35 inches; silt loam

H4--35 to 60 inches; silt loam

186--Nemadji Loamy Fine Sand

Component Description

Nemadji and similar soils

Extent: 85 percent of the unit

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

Flooding: None

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

Wet soil moisture status is lowest (depth, months): More than 6.6 feet, January
February July August

September October November

December

Ponding: None

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

Content of organic matter in the upper 10 inches: 1.8 percent

Typical profile:

H1--0 to 11 inches; loamy fine sand

H2--11 to 34 inches; fine sand

H3--34 to 60 inches; fine sand

188B--Omega Loamy Fine Sand, 2 To 6 Percent Slopes

Component Description

Omega and similar soils

Extent: 85 percent of the unit

Slope range: 2 to 6 percent

Surface layer texture: Loamy fine sand

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

Drainage class: Somewhat excessively drained

Flooding: None

Depth to wet soil moisture status: More than 6.6 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: 1.2 percent

Typical profile:

H1--0 to 11 inches; loamy fine sand

H2--11 to 60 inches; fine sand

188C--Omega Loamy Fine Sand, 6 To 12 Percent Slopes

Component Description

Omega and similar soils

Extent: 85 percent of the unit

Slope range: 6 to 12 percent

Surface layer texture: Loamy fine sand

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

Drainage class: Somewhat excessively drained

Flooding: None

Depth to wet soil moisture status: More than 6.6 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.4 inches
Content of organic matter in the upper 10 inches: 1.2 percent
Typical profile:
H1--0 to 16 inches; loamy fine sand
H2--16 to 60 inches; fine sand

188E--Omega Loamy Sand, 12 To 25 Percent Slopes

Component Description

Omega and similar soils

Extent: 85 percent of the unit
Slope range: 12 to 25 percent
Surface layer texture: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 3.8 inches
Content of organic matter in the upper 10 inches: 0.8 percent
Typical profile:
H1--0 to 5 inches; loamy sand
H2--5 to 60 inches; fine sand

202--Meehan Loamy Sand

Component Description

Meehan and similar soils

Extent: 90 percent of the unit
Slope range: 0 to 2 percent
Surface layer texture: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months): 1.0 feet, May
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, July
August September
Ponding: None
Available water capacity to a depth of 60 inches: 4.3 inches
Content of organic matter in the upper 10 inches: 1.3 percent
Typical profile:
H1--0 to 7 inches; loamy sand
H2--7 to 28 inches; sand
H3--28 to 60 inches; sand

204B--Branstad Loam, 2 To 6 Percent Slopes

Component Description

Branstad and similar soils

Extent: 85 percent of the unit
Slope range: 2 to 6 percent
Surface layer texture: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Flooding: None
Wet soil moisture status is highest (depth, months): 2.5 feet, May
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, July
August September
Ponding: None
Available water capacity to a depth of 60 inches: 8.5 inches
Content of organic matter in the upper 10 inches: 0.8 percent
Typical profile:
H1--0 to 2 inches; loam
H2--2 to 17 inches; fine sandy loam
H3--17 to 36 inches; loam
H4--36 to 43 inches; loam

H5--43 to 60 inches; loam

204C--Cushing Loam, 6 To 12 Percent Slopes

Component Description

Cushing and similar soils

Extent: 85 percent of the unit
Slope range: 6 to 12 percent
Surface layer texture: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 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: 2.0 percent
Typical profile:
H1--0 to 12 inches; loam
H2--12 to 25 inches; loam
H3--25 to 44 inches; loam
H4--44 to 60 inches; loam

204E--Cushing Loam, 12 To 25 Percent Slopes

Component Description

Cushing and similar soils

Extent: 85 percent of the unit
Slope range: 12 to 25 percent
Surface layer texture: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 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: 1.3 percent
Typical profile:
H1--0 to 5 inches; loam
H2--5 to 15 inches; loam
H3--15 to 29 inches; loam
H4--29 to 60 inches; loam

218--Watab Fine Sand

Component Description

Watab and similar soils

Extent: 85 percent of the unit
Slope range: 0 to 2 percent
Surface layer texture: Fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface May
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, August
September
Ponding: None
Available water capacity to a depth of 60 inches: 4.3 inches
Content of organic matter in the upper 10 inches: 0.6 percent
Typical profile:
H1--0 to 7 inches; fine sand
H2--7 to 28 inches; loamy fine sand
H3--28 to 36 inches; fine sand
H4--36 to 54 inches; sandy loam
H5--54 to 60 inches; sandy loam

240B--Warba Very Fine Sandy Loam, 1 To 6 Percent Slopes

Component Description

Warba and similar soils

Extent: 85 percent of the unit
Slope range: 1 to 6 percent
Surface layer texture: Very fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Flooding: None
Wet soil moisture status is highest (depth, months): 3.5 feet, May
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, January
February July August
September October November
December
Ponding: None
Available water capacity to a depth of 60 inches: 11.2 inches
Content of organic matter in the upper 10 inches: 2.0 percent
Typical profile:
H1--0 to 14 inches; very fine sandy loam
H2--14 to 46 inches; clay loam
H3--46 to 60 inches; loam

240C--Warba Very Fine Sandy Loam, 6 To 12 Percent Slopes

Component Description

Warba and similar soils

Extent: 85 percent of the unit
Slope range: 6 to 12 percent
Surface layer texture: Very fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 11.1 inches
Content of organic matter in the upper 10 inches: 2.0 percent
Typical profile:
H1--0 to 11 inches; very fine sandy loam
H2--11 to 42 inches; clay loam
H3--42 to 60 inches; loam

243--Stuntz Very Fine Sandy Loam

Component Description

Stuntz and similar soils

Extent: 85 percent of the unit
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
Flooding: None
Wet soil moisture status is highest (depth, months): 1.5 feet, May June
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, January
February August
September October November
December
Ponding: None
Available water capacity to a depth of 60 inches: 11.0 inches
Content of organic matter in the upper 10 inches: 1.6 percent
Typical profile:
H1--0 to 7 inches; very fine sandy loam
H2--7 to 37 inches; clay loam
H3--37 to 60 inches; loam

266--Freer Silt Loam

Component Description

Freer and similar soils

Extent: 85 percent of the unit
Slope range: 0 to 2 percent
Surface layer texture: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months): 1.0 feet, May
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, August
September
Ponding: None
Available water capacity to a depth of 60 inches: 7.8 inches
Content of organic matter in the upper 10 inches: 0.8 percent
Typical profile:
H1--0 to 6 inches; silt loam
H2--6 to 21 inches; silt loam
H3--21 to 27 inches; loam
H4--27 to 35 inches; loam
H5--35 to 47 inches; sandy loam
H6--47 to 60 inches; sandy loam

268B--Cromwell Fine Sandy Loam, 1 To 6 Percent Slopes

Component Description

Cromwell and similar soils

Extent: 85 percent of the unit
Slope range: 1 to 6 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 6.1 inches
Content of organic matter in the upper 10 inches: 1.2 percent
Typical profile:
H1--0 to 23 inches; fine sandy loam
H2--23 to 60 inches; gravelly sand

268C--Cromwell Sandy Loam, 6 To 12 Percent Slopes

Component Description

Cromwell and similar soils

Extent: 85 percent of the unit
Slope range: 6 to 12 percent
Surface layer texture: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 5.8 inches
Content of organic matter in the upper 10 inches: 1.2 percent
Typical profile:
H1--0 to 20 inches; sandy loam
H2--20 to 60 inches; gravelly sand

268E--Cromwell Fine Sandy Loam, 12 To 25 Percent Slopes

Component Description

Cromwell and similar soils

Extent: 85 percent of the unit
Slope range: 12 to 25 percent

Surface layer texture: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 5.2 inches
Content of organic matter in the upper 10 inches: 1.2 percent
Typical profile:
H1--0 to 15 inches; fine sandy loam
H2--15 to 60 inches; gravelly sand

268F--Cromwell Fine Sandy Loam, 25 To 40 Percent Slopes

Component Description

Cromwell and similar soils

Extent: 85 percent of the unit
Slope range: 25 to 40 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 5.6 inches
Content of organic matter in the upper 10 inches: 1.2 percent
Typical profile:
H1--0 to 18 inches; fine sandy loam
H2--18 to 60 inches; gravelly sand

292--Alstad Loam

Component Description

Alstad and similar soils

Extent: 85 percent of the unit
Slope range: 0 to 3 percent
Surface layer texture: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months): 1.0 feet, May
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, July
August
Ponding: None
Available water capacity to a depth of 60 inches: 8.8 inches
Content of organic matter in the upper 10 inches: 1.8 percent
Typical profile:
H1--0 to 4 inches; loam
H2--4 to 14 inches; loam
H3--14 to 22 inches; loam
H4--22 to 52 inches; loam
H5--52 to 60 inches; loam

302B--Rosholt Fine Sandy Loam, 2 To 6 Percent Slopes

Component Description

Rosholt and similar soils

Extent: 85 percent of the unit
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
Flooding: None
Depth to wet soil moisture status: More than 6.6 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: 1.9 percent

Typical profile:

H1--0 to 9 inches; fine sandy loam

H2--9 to 15 inches; fine sandy loam

H3--15 to 22 inches; sandy loam

H4--22 to 30 inches; gravelly loamy sand

H5--30 to 60 inches;

302C--Rosholt Fine Sandy Loam, 6 To 12 Percent Slopes

Component Description

Rosholt and similar soils

Extent: 85 percent of the unit

Slope range: 6 to 12 percent

Surface layer texture: Fine sandy loam

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

Drainage class: Well drained

Flooding: None

Depth to wet soil moisture status: More than 6.6 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 5.3 inches

Content of organic matter in the upper 10 inches: 0.8 percent

Typical profile:

H1--0 to 2 inches; fine sandy loam

H2--2 to 14 inches; fine sandy loam

H3--14 to 26 inches; sandy loam

H4--26 to 31 inches; gravelly loamy sand

H5--31 to 60 inches;

346--Talmoon Fine Sandy Loam

Component Description

Talmoon and similar soils

Extent: 85 percent of the unit

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

Flooding: None

Wet soil moisture status is highest (depth, months): 0.5 foot, May

Wet soil moisture status is lowest (depth, months): More than 6.6 feet, August
September

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:

H1--0 to 10 inches; fine sandy loam

H2--10 to 17 inches; loam

H3--17 to 31 inches; clay loam

H4--31 to 60 inches; loam

428--Hassman Muck

Component Description

Hassman and similar soils

Extent: 90 percent of the unit

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 November

Wet soil moisture status is lowest (depth, months): More than 6.6 feet,
September

Ponding is shallowest (depth, months): 0.5 foot, January March June November

December

Ponding is deepest (depth, months): 1.0 foot, April May
Available water capacity to a depth of 60 inches: 10.1 inches
Content of organic matter in the upper 10 inches: 29.9 percent
Typical profile:
H1--0 to 4 inches; muck
H2--4 to 8 inches; silty clay loam
H3--8 to 45 inches; silty clay
H4--45 to 60 inches; silty clay loam

454B--Mahtomedi Loamy Coarse Sand, 2 To 6 Percent Slopes

Component Description

Mahtomedi and similar soils

Extent: 90 percent of the unit
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
Flooding: None
Depth to wet soil moisture status: More than 6.6 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: 0.4 percent
Typical profile:
H1--0 to 3 inches; loamy coarse sand
H2--3 to 6 inches; loamy coarse sand
H3--6 to 28 inches; gravelly sand
H4--28 to 60 inches; gravelly sand

454C--Mahtomedi Loamy Coarse Sand, 6 To 12 Percent Slopes

Component Description

Mahtomedi and similar soils

Extent: 90 percent of the unit
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
Flooding: None
Depth to wet soil moisture status: More than 6.6 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: 0.4 percent
Typical profile:
H1--0 to 4 inches; loamy coarse sand
H2--4 to 17 inches; gravelly coarse sand
H3--17 to 38 inches; gravelly sand
H4--38 to 60 inches; gravelly sand

454E--Mahtomedi Loamy Coarse Sand, 12 To 25 Percent Slopes

Component Description

Mahtomedi and similar soils

Extent: 90 percent of the unit
Slope range: 12 to 25 percent
Surface layer texture: Loamy coarse sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 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: 0.3 percent
Typical profile:
H1--0 to 1 inches; loamy coarse sand

H2--1 to 14 inches; loamy coarse sand
H3--14 to 25 inches; gravelly sand
H4--25 to 60 inches; gravelly sand

454F--Mahtomedi Gravelly Loamy Sand, 25 To 40 Percent Slopes

Component Description

Mahtomedi and similar soils

Extent: 90 percent of the unit
Slope range: 25 to 40 percent
Surface layer texture: Gravelly loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 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: 0.3 percent
Typical profile:
H1--0 to 2 inches; gravelly loamy sand
H2--2 to 15 inches; loamy coarse sand
H3--15 to 30 inches; gravelly sand
H4--30 to 60 inches; gravelly sand

458B--Menahga Loamy Sand, 1 To 6 Percent Slopes

Component Description

Menahga and similar soils

Extent: 85 percent of the unit
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
Flooding: None
Depth to wet soil moisture status: More than 6.6 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: 1.2 percent
Typical profile:
H1--0 to 14 inches; loamy sand
H2--14 to 25 inches; sand
H3--25 to 60 inches; sand

458C--Menahga Loamy Sand, 6 To 12 Percent Slopes

Component Description

Menahga and similar soils

Extent: 90 percent of the unit
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
Flooding: None
Depth to wet soil moisture status: More than 6.6 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 3.8 inches
Content of organic matter in the upper 10 inches: 0.9 percent
Typical profile:
H1--0 to 4 inches; loamy sand
H2--4 to 23 inches; sand
H3--23 to 60 inches; sand

458E--Menahga Loamy Sand, 12 To 25 Percent Slopes

Component Description

Menahga and similar soils

Extent: 90 percent of the unit
Slope range: 12 to 25 percent
Surface layer texture: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 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: 1.2 percent
Typical profile:
H1--0 to 10 inches; loamy sand
H2--10 to 25 inches; sand
H3--25 to 60 inches; sand

464B--Brennyville Silt Loam, 2 To 5 Percent Slopes

Component Description

Brennyville and similar soils

Extent: 85 percent of the unit
Slope range: 2 to 5 percent
Surface layer texture: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Flooding: None
Wet soil moisture status is highest (depth, months): 2.0 feet, April
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, July
August September October
Ponding: None
Available water capacity to a depth of 60 inches: 7.0 inches
Content of organic matter in the upper 10 inches: 1.9 percent
Typical profile:
H1--0 to 5 inches; silt loam
H2--5 to 18 inches; silt loam
H3--18 to 24 inches; silt loam
H4--24 to 32 inches; loam
H5--32 to 38 inches; sandy loam
H6--38 to 60 inches; sandy loam

469B--Hillcity Silt Loam, 1 To 6 Percent Slopes

Component Description

Hillcity and similar soils

Extent: 95 percent of the unit
Slope range: 1 to 6 percent
Surface layer texture: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Flooding: None
Wet soil moisture status is highest (depth, months): 3.5 feet, May
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, January
February March June July
August September October
November December
Ponding: None
Available water capacity to a depth of 60 inches: 11.6 inches
Content of organic matter in the upper 10 inches: 1.4 percent
Typical profile:
H1--0 to 6 inches; silt loam
H2--6 to 20 inches; silt loam
H3--20 to 43 inches; silt loam
H4--43 to 60 inches; loam

502--Dusler Silt Loam

Component Description

Dusler and similar soils

Extent: 85 percent of the unit
Slope range: 0 to 2 percent
Surface layer texture: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months): 1.5 feet, May
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, January
February March July
August September October
November December
Ponding: None
Available water capacity to a depth of 60 inches: 10.4 inches
Content of organic matter in the upper 10 inches: 1.4 percent
Typical profile:
H1--0 to 5 inches; silt loam
H2--5 to 21 inches; fine sandy loam
H3--21 to 50 inches; clay loam
H4--50 to 60 inches; loam

504B--Duluth Fine Sandy Loam, 1 To 6 Percent Slopes

Component Description

Duluth and similar soils

Extent: 85 percent of the unit
Slope range: 1 to 6 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Flooding: None
Wet soil moisture status is highest (depth, months): 3.5 feet, May
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, January
February March June July
August September October
November December
Ponding: None
Available water capacity to a depth of 60 inches: 10.4 inches
Content of organic matter in the upper 10 inches: 1.2 percent
Typical profile:
H1--0 to 11 inches; fine sandy loam
H2--11 to 41 inches; clay loam
H3--41 to 60 inches; loam

504C--Duluth Fine Sandy Loam, 6 To 12 Percent Slopes

Component Description

Duluth and similar soils

Extent: 85 percent of the unit
Slope range: 6 to 12 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 10.4 inches
Content of organic matter in the upper 10 inches: 1.2 percent
Typical profile:
H1--0 to 12 inches; fine sandy loam
H2--12 to 49 inches; clay loam
H3--49 to 60 inches; loam

504E--Duluth Fine Sandy Loam, 12 To 25 Percent Slopes

Component Description

Duluth and similar soils

Extent: 85 percent of the unit
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
Flooding: None
Depth to wet soil moisture status: More than 6.6 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 10.5 inches
Content of organic matter in the upper 10 inches: 1.2 percent
Typical profile:
H1--0 to 14 inches; fine sandy loam
H2--14 to 37 inches; clay loam
H3--37 to 60 inches; loam

531--Beseman Muck

Component Description

Beseman and similar soils

Extent: 90 percent of the unit
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 January
February March May June
July August September October
November December
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, April
Ponding is shallowest (depth, months): 0.5 foot, January February March April
August September October
December
Ponding is deepest (depth, months): 2.0 feet, May June
Available water capacity to a depth of 60 inches: 27.0 inches
Content of organic matter in the upper 10 inches: 62.0 percent
Typical profile:
H1--0 to 14 inches; muck
H2--14 to 40 inches; muck
H3--40 to 60 inches; silty clay loam

532--Sago Muck

Component Description

Sago and similar soils

Extent: 90 percent of the unit
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 June July
November
Wet soil moisture status is lowest (depth, months): 1.0 foot, January February
August
September December
Ponding is shallowest (depth, months): 0.5 foot, March June July October November
Ponding is deepest (depth, months): 1.0 foot, April May
Available water capacity to a depth of 60 inches: 12.7 inches
Content of organic matter in the upper 10 inches: 72.5 percent
Typical profile:
H1--0 to 11 inches; muck
H2--11 to 60 inches; stratified fine sand to silt loam

533--Loxley Peat

Component Description

Loxley and similar soils

Extent: 90 percent of the unit

Slope range: 0 to 1 percent

Surface layer texture: Peat

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 June November

Wet soil moisture status is lowest (depth, months): 1.0 foot, January February
August

September December

Ponding is shallowest (depth, months): 0.5 foot, March June July October November

Ponding is deepest (depth, months): 1.0 foot, April May

Available water capacity to a depth of 60 inches: 24.3 inches

Content of organic matter in the upper 10 inches: 80.0 percent

Typical profile:

H1--0 to 3 inches; peat

H2--3 to 60 inches; muck

540--Seelyeville Muck

Component Description

Seelyeville and similar soils

Extent: 90 percent of the unit

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 June July

October November

Wet soil moisture status is lowest (depth, months): 0.5 foot, January February
August

September December

Ponding is shallowest (depth, months): 0.5 foot, January February March July

August September October

December

Ponding is deepest (depth, months): 1.0 foot, April May June November

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:

H1--0 to 9 inches; muck

H2--9 to 60 inches; muck

541--Rifle Peat

Component Description

Rifle and similar soils

Extent: 90 percent of the unit

Slope range: 0 to 1 percent

Surface layer texture: Peat

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 June November

Wet soil moisture status is lowest (depth, months): 1.0 foot, January February
August

September

Ponding is shallowest (depth, months): 0.5 foot, March June July October November

December

Ponding is deepest (depth, months): 1.0 foot, April May
Available water capacity to a depth of 60 inches: 32.8 inches
Content of organic matter in the upper 10 inches: 87.0 percent
Typical profile:
H1--0 to 10 inches; peat
H2--10 to 60 inches; mucky peat

543--Markey Muck

Component Description

Markey and similar soils

Extent: 85 percent of the unit
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 June November
Wet soil moisture status is lowest (depth, months): 1.0 foot, January February
August
September December
Ponding is shallowest (depth, months): 0.5 foot, March June July October November
Ponding is deepest (depth, months): 1.0 foot, April May
Available water capacity to a depth of 60 inches: 15.5 inches
Content of organic matter in the upper 10 inches: 70.0 percent
Typical profile:
H1--0 to 35 inches; muck
H2--35 to 60 inches; sand

544--Cathro Muck

Component Description

Cathro and similar soils

Extent: 90 percent of the unit
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 June November
Wet soil moisture status is lowest (depth, months): 1.0 foot, January February
August
September December
Ponding is shallowest (depth, months): 0.5 foot, March June July October November
Ponding is deepest (depth, months): 1.0 foot, April May
Available water capacity to a depth of 60 inches: 21.0 inches
Content of organic matter in the upper 10 inches: 72.5 percent
Typical profile:
H1--0 to 20 inches; muck
H2--20 to 38 inches; muck
H3--38 to 60 inches; loam

546--Lupton Muck

Component Description

Lupton and similar soils

Extent: 90 percent of the unit
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 April May
June November

Wet soil moisture status is lowest (depth, months): 1.0 foot, January February
August
September December
Ponding: None
Available water capacity to a depth of 60 inches: 23.9 inches
Content of organic matter in the upper 10 inches: 80.0 percent
Typical profile:
H1--0 to 13 inches; muck
H2--13 to 60 inches; muck

549--Greenwood Peat

Component Description

Greenwood and similar soils

Extent: 85 percent of the unit
Slope range: 0 to 1 percent
Surface layer texture: Peat
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 June July August

November

Wet soil moisture status is lowest (depth, months): 1.0 foot, January February
Ponding: None
Available water capacity to a depth of 60 inches: 31.3 inches
Content of organic matter in the upper 10 inches: 65.0 percent
Typical profile:
H1--0 to 14 inches; peat
H2--14 to 60 inches; mucky peat

563--Northwood Muck

Component Description

Northwood and similar soils

Extent: 85 percent of the unit
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 June July

November

Wet soil moisture status is lowest (depth, months): 0.5 foot, January February
August

September October December

Ponding is shallowest (depth, months): 0.5 foot, January February March June July

October November December

Ponding is deepest (depth, months): 1.0 foot, April May
Available water capacity to a depth of 60 inches: 10.3 inches
Content of organic matter in the upper 10 inches: 62.2 percent
Typical profile:
H1--0 to 9 inches; muck
H2--9 to 13 inches; loamy sand
H3--13 to 35 inches; coarse sand
H4--35 to 60 inches; loam

564--Friendship Loamy Sand

Component Description

Friendship and similar soils

Extent: 85 percent of the unit
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
Flooding: None
Wet soil moisture status is highest (depth, months): 3.5 feet, May November
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, July
August September
Ponding: None
Available water capacity to a depth of 60 inches: 4.1 inches
Content of organic matter in the upper 10 inches: 0.6 percent
Typical profile:
H1--0 to 3 inches; loamy sand
H2--3 to 6 inches; loamy sand
H3--6 to 39 inches; sand
H4--39 to 60 inches; sand

607--Pengilly Silt Loam

Component Description

Pengilly and similar soils

Extent: 85 percent of the unit
Slope range: 0 to 2 percent
Surface layer texture: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Flooding does not occur (months): January February March November December
Flooding is most likely (frequency, months): Frequent April May June July August
September October
Wet soil moisture status is highest (depth, months): 0.5 foot, April May June
November
Wet soil moisture status is lowest (depth, months): 1.5 feet, January February
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: 1.5 percent
Typical profile:
H1--0 to 4 inches; silt loam
H2--4 to 60 inches; stratified loamy very fine sand to silt loam

615--Cowhorn Loamy Very Fine Sand

Component Description

Cowhorn and similar soils

Extent: 90 percent of the unit
Slope range: 0 to 3 percent
Surface layer texture: Loamy very fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months): 1.5 feet, April May
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, January
February 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: 1.3 percent
Typical profile:
H1--0 to 7 inches; loamy very fine sand
H2--7 to 39 inches; loamy very fine sand
H3--39 to 60 inches; very fine sand

617B--Goodland Silt Loam, 1 To 10 Percent Slopes

Component Description

Goodland and similar soils

Extent: 85 percent of the unit
Slope range: 1 to 10 percent

Surface layer texture: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 6.6 inches
Content of organic matter in the upper 10 inches: 1.2 percent
Typical profile:
H1--0 to 12 inches; silt loam
H2--12 to 24 inches; sandy loam
H3--24 to 33 inches; loamy sand
H4--33 to 60 inches; coarse sand

618B--Itasca Silt Loam, 1 To 6 Percent Slopes

Component Description

Itasca and similar soils

Extent: 85 percent of the unit
Slope range: 1 to 6 percent
Surface layer texture: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 10.4 inches
Content of organic matter in the upper 10 inches: 1.8 percent
Typical profile:
H1--0 to 11 inches; silt loam
H2--11 to 21 inches; silt loam
H3--21 to 28 inches; sandy loam
H4--28 to 60 inches; sandy loam

621--Morph Very Fine Sandy Loam

Component Description

Morph and similar soils

Extent: 85 percent of the unit
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
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot, April May
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, July August September
Ponding: None
Available water capacity to a depth of 60 inches: 9.4 inches
Content of organic matter in the upper 10 inches: 2.5 percent
Typical profile:
H1--0 to 13 inches; very fine sandy loam
H2--13 to 33 inches; fine sandy loam
H3--33 to 60 inches; stratified loamy sand to silty clay loam

625--Sandwich Loamy Sand

Component Description

Sandwich and similar soils

Extent: 85 percent of the unit
Slope range: 0 to 2 percent
Surface layer texture: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot, May

Wet soil moisture status is lowest (depth, months): More than 6.6 feet, January
February July August
September October December
Ponding: None
Available water capacity to a depth of 60 inches: 5.8 inches
Content of organic matter in the upper 10 inches: 1.1 percent
Typical profile:
H1--0 to 6 inches; loamy sand
H2--6 to 34 inches; sand
H3--34 to 55 inches; loam
H4--55 to 60 inches; loam

627--Tawas Muck

Component Description

Tawas and similar soils

Extent: 90 percent of the unit
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 June November
Wet soil moisture status is lowest (depth, months): 1.0 foot, January February
August
September
Ponding is shallowest (depth, months): 0.5 foot, March June July October November
December
Ponding is deepest (depth, months): 1.0 foot, April May
Available water capacity to a depth of 60 inches: 13.5 inches
Content of organic matter in the upper 10 inches: 50.0 percent
Typical profile:
H1--0 to 13 inches; muck
H2--13 to 31 inches; muck
H3--31 to 60 inches; coarse sand

628--Talmoon Muck, Depressional

Component Description

Talmoon and similar soils

Extent: 85 percent of the unit
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 June November
Wet soil moisture status is lowest (depth, months): 1.5 feet, September
Ponding is shallowest (depth, months): 0.5 foot, March June July October November
Ponding is deepest (depth, months): 1.0 foot, April May
Available water capacity to a depth of 60 inches: 11.2 inches
Content of organic matter in the upper 10 inches: 13.4 percent
Typical profile:
H1--0 to 4 inches; muck
H2--4 to 20 inches; fine sandy loam
H3--20 to 42 inches; loam
H4--42 to 60 inches; loam

629B--Wawina Loamy Very Fine Sand, 1 To 10 Percent Slopes

Component Description

Wawina and similar soils

Extent: 90 percent of the unit
Slope range: 1 to 10 percent

Surface layer texture: Loamy very fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 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: 1.2 percent
Typical profile:
H1--0 to 23 inches; loamy very fine sand
H2--23 to 60 inches; very fine sand

672--Willosippi Loam

Component Description

Willosippi and similar soils

Extent: 90 percent of the unit
Slope range: 0 to 2 percent
Surface layer texture: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot, April May
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, July
August September
Ponding: None
Available water capacity to a depth of 60 inches: 10.4 inches
Content of organic matter in the upper 10 inches: 2.4 percent
Typical profile:
H1--0 to 7 inches; loam
H2--7 to 12 inches; fine sandy loam
H3--12 to 42 inches; stratified silty clay loam to loamy sand
H4--42 to 60 inches; stratified silty clay loam to loamy sand

685--Oesterle Fine Sandy Loam

Component Description

Oesterle and similar soils

Extent: 85 percent of the unit
Slope range: 0 to 3 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months): 1.0 feet, April May
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, July
August September
Ponding: None
Available water capacity to a depth of 60 inches: 5.6 inches
Content of organic matter in the upper 10 inches: 2.5 percent
Typical profile:
H1--0 to 10 inches; fine sandy loam
H2--10 to 21 inches; sandy loam
H3--21 to 34 inches; loamy coarse sand, gravelly sand
H4--34 to 60 inches;

732B--Bushville Loamy Fine Sand, 1 To 6 Percent Slopes

Component Description

Bushville and similar soils

Extent: 85 percent of the unit
Slope range: 1 to 6 percent
Surface layer texture: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Flooding: None

Wet soil moisture status is highest (depth, months): 1.5 feet, April May
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, January
February July August
September October December
Ponding: None
Available water capacity to a depth of 60 inches: 4.4 inches
Content of organic matter in the upper 10 inches: 0.8 percent
Typical profile:
H1--0 to 11 inches; loamy fine sand
H2--11 to 26 inches; loamy sand
H3--26 to 31 inches; sandy loam
H4--31 to 50 inches; sandy loam
H5--50 to 60 inches; sandy loam

734--Cormant Loamy Fine Sand, Stratified Substratum

Component Description

Cormant and similar soils

Extent: 90 percent of the unit
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
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot, April May
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, January
February March August
September October November
December
Ponding: None
Available water capacity to a depth of 60 inches: 8.1 inches
Content of organic matter in the upper 10 inches: 3.2 percent
Typical profile:
H1--0 to 8 inches; loamy fine sand
H2--8 to 60 inches; stratified sand to silty clay loam

736--Ronneby-Mora Complex

Component Description

Ronneby and similar soils

Extent: 50 percent of the unit
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
Flooding: None
Wet soil moisture status is highest (depth, months): 1.0 feet, April May
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, January
February August
Ponding: None
Available water capacity to a depth of 60 inches: 6.7 inches
Content of organic matter in the upper 10 inches: 2.9 percent
Typical profile:
H1--0 to 5 inches; fine sandy loam
H2--5 to 28 inches; sandy loam
H3--28 to 37 inches; sandy loam
H4--37 to 46 inches; sandy loam
H5--46 to 60 inches;

Mora and similar soils

Extent: 40 percent of the unit
Slope range: 1 to 4 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Flooding: None
Wet soil moisture status is highest (depth, months): 2.0 feet, May

Wet soil moisture status is lowest (depth, months): More than 6.6 feet, January
February August
September October November
December

Ponding: None

Available water capacity to a depth of 60 inches: 5.3 inches

Content of organic matter in the upper 10 inches: 0.7 percent

Typical profile:

H1--0 to 3 inches; fine sandy loam

H2--3 to 7 inches; fine sandy loam

H3--7 to 25 inches; sandy loam

H4--25 to 43 inches; sandy loam

H5--43 to 60 inches; sandy loam

738B--Milaca-Millward Complex, 2 To 8 Percent Slopes

Component Description

Milaca and similar soils

Extent: 50 percent of the unit

Slope range: 3 to 8 percent

Surface layer texture: Fine sandy loam

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

Drainage class: Moderately well drained

Flooding: None

Wet soil moisture status is highest (depth, months): 3.0 feet, May

Wet soil moisture status is lowest (depth, months): More than 6.6 feet, January
February March July

August September October

November December

Ponding: None

Available water capacity to a depth of 60 inches: 4.9 inches

Content of organic matter in the upper 10 inches: 0.4 percent

Typical profile:

H1--0 to 4 inches; fine sandy loam

H2--4 to 17 inches; fine sandy loam

H3--17 to 22 inches; sandy loam

H4--22 to 33 inches; sandy loam

H5--33 to 60 inches; sandy loam

Millward and similar soils

Extent: 35 percent of the unit

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

Flooding: None

Depth to wet soil moisture status: More than 6.6 feet all year

Ponding: None

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

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

Typical profile:

H1--0 to 4 inches; fine sandy loam

H2--4 to 21 inches; fine sandy loam

H3--21 to 34 inches; sand

H4--34 to 46 inches; sandy loam

H5--46 to 60 inches; sandy loam

738C--Milaca-Millward Complex, 8 To 15 Percent Slopes

Component Description

Milaca and similar soils

Extent: 50 percent of the unit

Slope range: 8 to 15 percent

Surface layer texture: Sandy loam

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

Drainage class: Well drained

Flooding: None

Depth to wet soil moisture status: More than 6.6 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:

H1--0 to 3 inches; sandy loam

H2--3 to 14 inches; fine sandy loam

H3--14 to 21 inches; sandy loam

H4--21 to 32 inches; sandy loam

H5--32 to 60 inches; sandy loam

Millward and similar soils

Extent: 35 percent of the unit

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

Flooding: None

Depth to wet soil moisture status: More than 6.6 feet all year

Ponding: None

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

Content of organic matter in the upper 10 inches: 2.6 percent

Typical profile:

H1--0 to 8 inches; fine sandy loam

H2--8 to 23 inches; fine sandy loam

H3--23 to 34 inches; sand

H4--34 to 43 inches; sandy loam

H5--43 to 60 inches; sandy loam

759--Waukenabo Fine Sandy Loam

Component Description

Waukenabo and similar soils

Extent: 85 percent of the unit

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

Flooding: None

Wet soil moisture status is highest (depth, months): 0.5 foot, April May

Wet soil moisture status is lowest (depth, months): More than 6.6 feet, July

August September

Ponding: None

Available water capacity to a depth of 60 inches: 8.5 inches

Content of organic matter in the upper 10 inches: 2.6 percent

Typical profile:

H1--0 to 6 inches; fine sandy loam

H2--6 to 15 inches; loamy sand

H3--15 to 28 inches; sandy loam

H4--28 to 30 inches; very fine sandy loam

H5--30 to 60 inches; stratified fine sand to clay loam

795--Redby Loamy Fine Sand, Stratified Substratum

Component Description

Redby and similar soils

Extent: 90 percent of the unit

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

Flooding: None

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

Wet soil moisture status is lowest (depth, months): More than 6.6 feet, January

February March August

September October November

December

Ponding: None

Available water capacity to a depth of 60 inches: 5.3 inches

Content of organic matter in the upper 10 inches: 1.0 percent
Typical profile:
H1--0 to 7 inches; loamy fine sand
H2--7 to 25 inches; sand
H3--25 to 42 inches; fine sand
H4--42 to 60 inches; stratified fine sand to fine sandy loam

797--Mooselake And Lupton Mucky Peats

Component Description

Lupton and similar soils

Extent: 45 percent of the unit
Slope range: 0 to 1 percent
Surface layer texture: Mucky peat
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 April May
June November
Wet soil moisture status is lowest (depth, months): 1.0 foot, January February
August
September December
Ponding: At 0.5 foot all year
Available water capacity to a depth of 60 inches: 24.7 inches
Content of organic matter in the upper 10 inches: 64.0 percent
Typical profile:
H1--0 to 8 inches; mucky peat
H2--8 to 60 inches; muck

Mooselake and similar soils

Extent: 45 percent of the unit
Slope range: 0 to 1 percent
Surface layer texture: Mucky peat
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 June October
November
Wet soil moisture status is lowest (depth, months): 0.5 foot, January February
July August
September December
Ponding is shallowest (depth, months): 0.5 foot, March June October November
Ponding is deepest (depth, months): 1.0 foot, April May
Available water capacity to a depth of 60 inches: 26.9 inches
Content of organic matter in the upper 10 inches: 62.0 percent
Typical profile:
H1--0 to 3 inches; mucky peat
H2--3 to 60 inches; mucky peat

798--Sago And Roscommon Soils

Component Description

Roscommon and similar soils

Extent: 45 percent of the unit
Slope range: 0 to 1 percent
Surface layer texture: Mucky loamy sand
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 June July
November
Wet soil moisture status is lowest (depth, months): 1.0 foot, January February
August
September December
Ponding is shallowest (depth, months): 0.5 foot, March June July October November
Ponding is deepest (depth, months): 1.0 foot, April May

Available water capacity to a depth of 60 inches: 4.6 inches
Content of organic matter in the upper 10 inches: 5.7 percent
Typical profile:
H1--0 to 6 inches; mucky loamy sand
H2--6 to 60 inches; sand

Sago and similar soils

Extent: 45 percent of the unit
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 June July

November

Wet soil moisture status is lowest (depth, months): 1.0 foot, January February
August

September December

Ponding is shallowest (depth, months): 0.5 foot, March June July October November
Ponding is deepest (depth, months): 1.0 foot, April May
Available water capacity to a depth of 60 inches: 13.2 inches
Content of organic matter in the upper 10 inches: 72.5 percent
Typical profile:
H1--0 to 13 inches; muck
H2--13 to 60 inches; stratified fine sand to silt loam

799--Seelyeville-Bowstring Association

Component Description

Bowstring and similar soils

Extent: 45 percent of the unit
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 does not occur (months): January February August September December

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

Wet soil moisture status is highest (depth, months): At the surface January
February March April May

June October November December

Wet soil moisture status is lowest (depth, months): 0.5 foot, July August
September

Ponding: None

Available water capacity to a depth of 60 inches: 22.6 inches

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

Typical profile:

H1--0 to 38 inches; muck

H2--38 to 43 inches; stratified sand to fine sandy loam

H3--43 to 60 inches; muck

Seelyeville and similar soils

Extent: 45 percent of the unit

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 does not occur (months): January February August September December

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

Wet soil moisture status is highest (depth, months): At the surface January
February March April May

June October November December

Wet soil moisture status is lowest (depth, months): 0.5 foot, July August
September

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:

H1--0 to 28 inches; muck

H2--28 to 60 inches; muck

869--Lobo And Waskish Peats

Component Description

Lobo and similar soils

Extent: 70 percent of the unit
Slope range: 0 to 1 percent
Surface layer texture: Peat
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): 0.5 foot, April May June
July November

December

Wet soil moisture status is lowest (depth, months): 2.0 feet, February
Ponding: None
Available water capacity to a depth of 60 inches: 34.3 inches
Content of organic matter in the upper 10 inches: 62.0 percent
Typical profile:
H1--0 to 44 inches; peat
H2--44 to 60 inches; mucky peat

Waskish and similar soils

Extent: 20 percent of the unit
Slope range: 0 to 1 percent
Surface layer texture: Peat
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): 0.5 foot, May June November
Wet soil moisture status is lowest (depth, months): 2.0 feet, January February
September

Ponding: None
Available water capacity to a depth of 60 inches: 35.9 inches
Content of organic matter in the upper 10 inches: 94.5 percent
Typical profile:
H1--0 to 60 inches; peat

870B--Itasca-Goodland Complex, 2 To 6 Percent Slopes

Component Description

Itasca and similar soils

Extent: 55 percent of the unit
Slope range: 2 to 6 percent
Surface layer texture: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 10.1 inches
Content of organic matter in the upper 10 inches: 1.8 percent
Typical profile:
H1--0 to 12 inches; silt loam
H2--12 to 16 inches; silt loam
H3--16 to 37 inches; sandy loam
H4--37 to 60 inches; sandy loam

Goodland and similar soils

Extent: 30 percent of the unit
Slope range: 2 to 6 percent
Surface layer texture: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 7.4 inches

Content of organic matter in the upper 10 inches: 1.2 percent
Typical profile:
H1--0 to 13 inches; silt loam
H2--13 to 30 inches; sandy loam
H3--30 to 41 inches; loamy sand
H4--41 to 60 inches; coarse sand

870C--Itasca-Goodland Complex, 6 To 12 Percent Slopes

Component Description

Itasca and similar soils

Extent: 55 percent of the unit
Slope range: 6 to 12 percent
Surface layer texture: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 feet all year
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:
H1--0 to 4 inches; silt loam
H2--4 to 14 inches; silt loam
H3--14 to 49 inches; sandy loam
H4--49 to 60 inches; sandy loam

Goodland and similar soils

Extent: 30 percent of the unit
Slope range: 6 to 12 percent
Surface layer texture: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 6.7 inches
Content of organic matter in the upper 10 inches: 1.2 percent
Typical profile:
H1--0 to 12 inches; silt loam
H2--12 to 25 inches; sandy loam
H3--25 to 33 inches; loamy sand
H4--33 to 60 inches; coarse sand

870E--Itasca-Goodland Complex, 12 To 25 Percent Slopes

Component Description

Itasca and similar soils

Extent: 50 percent of the unit
Slope range: 12 to 25 percent
Surface layer texture: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 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: 0.9 percent
Typical profile:
H1--0 to 2 inches; silt loam
H2--2 to 14 inches; silt loam
H3--14 to 53 inches; sandy loam
H4--53 to 60 inches; sandy loam

Goodland and similar soils

Extent: 35 percent of the unit
Slope range: 12 to 25 percent
Surface layer texture: Silt loam

Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 6.3 inches
Content of organic matter in the upper 10 inches: 1.1 percent
Typical profile:
H1--0 to 8 inches; silt loam
H2--8 to 23 inches; sandy loam
H3--23 to 34 inches; loamy sand
H4--34 to 60 inches; coarse sand

872--Pengilly-Winterfield Association

Component Description

Pengilly and similar soils

Extent: 60 percent of the unit
Slope range: 0 to 2 percent
Surface layer texture: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained

Flooding does not occur (months): January February March December

Flooding is most likely (frequency, months): Frequent April May June July

Wet soil moisture status is highest (depth, months): 0.5 foot, April May June
November

Wet soil moisture status is lowest (depth, months): 1.5 feet, February 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: 1.5 percent

Typical profile:

H1--0 to 4 inches; silt loam

H2--4 to 60 inches; stratified loamy very fine sand to silt loam

Winterfield and similar soils

Extent: 25 percent of the unit

Slope range: 0 to 4 percent

Surface layer texture: Loamy fine sand

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

Drainage class: Somewhat poorly drained

Flooding does not occur (months): June July August September October

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

November December

Wet soil moisture status is highest (depth, months): 0.5 foot, April May

Wet soil moisture status is lowest (depth, months): 3.0 feet, January February
August

September

Ponding: None

Available water capacity to a depth of 60 inches: 5.1 inches

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

Typical profile:

H1--0 to 6 inches; loamy fine sand

H2--6 to 41 inches; loamy fine sand

H3--41 to 60 inches; sand

928C--Cushing-Mahtomedi Complex, 2 To 10 Percent Slopes

Component Description

Cushing and similar soils

Extent: 50 percent of the unit

Slope range: 2 to 10 percent

Surface layer texture: Very fine sandy loam

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

Drainage class: Well drained

Flooding: None

Depth to wet soil moisture status: More than 6.6 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: 1.5 percent
Typical profile:
H1--0 to 16 inches; very fine sandy loam
H2--16 to 19 inches; loam
H3--19 to 44 inches; loam
H4--44 to 60 inches; loam

Mahtomedi and similar soils

Extent: 35 percent of the unit
Slope range: 2 to 10 percent
Surface layer texture: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 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:
H1--0 to 4 inches; loamy sand
H2--4 to 15 inches; coarse sand
H3--15 to 26 inches; gravelly coarse sand
H4--26 to 60 inches; gravelly sand

928D--Cushing-Mahtomedi Complex, 10 To 25 Percent Slopes

Component Description

Cushing and similar soils

Extent: 45 percent of the unit
Slope range: 10 to 25 percent
Surface layer texture: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 9.1 inches
Content of organic matter in the upper 10 inches: 1.6 percent
Typical profile:
H1--0 to 7 inches; loam
H2--7 to 17 inches; loam
H3--17 to 30 inches; loam
H4--30 to 60 inches; loam

Mahtomedi and similar soils

Extent: 40 percent of the unit
Slope range: 10 to 25 percent
Surface layer texture: Loamy coarse sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 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:
H1--0 to 3 inches; loamy coarse sand
H2--3 to 13 inches; coarse sand
H3--13 to 25 inches; gravelly coarse sand
H4--25 to 60 inches; gravelly sand

928F--Cushing-Mahtomedi Complex, 25 To 40 Percent Slopes

Component Description

Cushing and similar soils

Extent: 45 percent of the unit

Slope range: 25 to 35 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 8.9 inches
Content of organic matter in the upper 10 inches: 0.9 percent
Typical profile:
H1--0 to 4 inches; fine sandy loam
H2--4 to 14 inches; loam
H3--14 to 35 inches; loam
H4--35 to 60 inches; loam

Mahtomedi and similar soils

Extent: 40 percent of the unit
Slope range: 25 to 40 percent
Surface layer texture: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 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:
H1--0 to 4 inches; loamy sand
H2--4 to 20 inches; coarse sand
H3--20 to 35 inches; gravelly coarse sand
H4--35 to 60 inches; gravelly sand

980--Blackhoof And Mahtowa Soils

Component Description

Blackhoof and similar soils

Extent: 45 percent of the unit
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 June July
October November
Wet soil moisture status is lowest (depth, months): 0.5 foot, January February
August
September December
Ponding is shallowest (depth, months): 0.5 foot, March July August October
November December
Ponding is deepest (depth, months): 1.0 foot, April May June
Available water capacity to a depth of 60 inches: 14.0 inches
Content of organic matter in the upper 10 inches: 37.5 percent
Typical profile:
H1--0 to 10 inches; muck
H2--10 to 14 inches; clay loam
H3--14 to 60 inches; loam

Mahtowa and similar soils

Extent: 45 percent of the unit
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 June July
October November
Wet soil moisture status is lowest (depth, months): 0.5 foot, January February
August

September December

Ponding is shallowest (depth, months): 0.5 foot, March July August October

November December

Ponding is deepest (depth, months): 1.0 foot, April May June

Available water capacity to a depth of 60 inches: 11.6 inches

Content of organic matter in the upper 10 inches: 12.5 percent

Typical profile:

H1--0 to 3 inches; muck

H2--3 to 11 inches; loam

H3--11 to 60 inches; loam

990--Twig And Giese Soils

Component Description

Giese and similar soils

Extent: 45 percent of the unit

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 June July

October November

Wet soil moisture status is lowest (depth, months): 0.5 foot, January February

August

September December

Ponding is shallowest (depth, months): 0.5 foot, March July August October

November December

Ponding is deepest (depth, months): 1.0 foot, April May June

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

Content of organic matter in the upper 10 inches: 18.3 percent

Typical profile:

H1--0 to 4 inches; muck

H2--4 to 10 inches; loam

H3--10 to 21 inches; fine sandy loam

H4--21 to 43 inches; fine sandy loam

H5--43 to 70 inches; fine sandy loam

H6--70 to 80 inches; fine sandy loam

Twig and similar soils

Extent: 45 percent of the unit

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 June July

October November

Wet soil moisture status is lowest (depth, months): 0.5 foot, January February

August

September December

Ponding is shallowest (depth, months): 0.5 foot, March July August October

November December

Ponding is deepest (depth, months): 1.0 foot, April May June

Available water capacity to a depth of 60 inches: 9.5 inches

Content of organic matter in the upper 10 inches: 37.5 percent

Typical profile:

H1--0 to 10 inches; muck

H2--10 to 16 inches; loam

H3--16 to 44 inches; fine sandy loam

H4--44 to 52 inches; sandy loam

H5--52 to 60 inches; sandy loam

1002--Borosaprists And Fluvaquents Soils, Frequently Flooded

Component Description

Borosaprists and similar soils

Extent: 50 percent of the unit

Slope range: 0 to 2 percent

Surface layer texture: Muck

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

Drainage class: Very poorly drained

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

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

Wet soil moisture status is highest (depth, months): At the surface April May June November

Wet soil moisture status is lowest (depth, months): 3.0 feet, February

Ponding: None

Available water capacity to a depth of 60 inches: 21.2 inches

Content of organic matter in the upper 10 inches: 62.0 percent

Typical profile:

H1--0 to 27 inches; muck

H2--27 to 48 inches; muck

H3--48 to 60 inches; stratified sand to silt loam

Fluvaquents and similar soils

Extent: 40 percent of the unit

Slope range: 0 to 2 percent

Surface layer texture: Silt loam

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

Drainage class: Very poorly drained

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

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

Wet soil moisture status is highest (depth, months): At the surface April May June November

Wet soil moisture status is lowest (depth, months): 1.0 foot, January February August

September

Ponding: None

Available water capacity to a depth of 60 inches: 10.8 inches

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

Typical profile:

H1--0 to 16 inches; silt loam

H2--16 to 60 inches; stratified loamy sand to silt loam

1030--Pits, Gravel-Udipsamments Complex

Component Description

Pits

Extent: 50 percent of the unit

Slope range: 1 to 50 percent

Udipsamments and similar soils

Extent: 45 percent of the unit

Slope range: 1 to 50 percent

Surface layer texture: Sand

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

Drainage class: Excessively drained

Flooding: None

Ponding: None

Available water capacity to a depth of 60 inches: 4.3 inches

Typical profile:

H1--0 to 14 inches; sand

H2--14 to 60 inches; sand

H3--60 to 80 inches; coarse sand

1031--Histosols, Ponded

Component Description

Histosols and similar soils

Extent: 90 percent of the unit

Slope range: 0 to 1 percent

Surface layer texture: Mucky peat

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 June November
December
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, July
Ponding is shallowest (depth, months): 0.5 foot, January March August October
December
Ponding is deepest (depth, months): 2.0 feet, May June
Available water capacity to a depth of 60 inches: 17.4 inches
Content of organic matter in the upper 10 inches: 59.5 percent
Typical profile:
H1--0 to 40 inches; mucky peat
H2--40 to 60 inches; fine sand

1072--Udorthents, Shallow (sanitary Landfill)

Component Description

Udorthents
Extent: 95 percent of the unit
Slope range: 0 to 30 percent
Surface layer texture: Sandy loam
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 feet all year
Available water capacity to a depth of 60 inches: 3.0 inches
Content of organic matter in the upper 10 inches: 0.8 percent
Typical profile:
H1--0 to 20 inches; sandy loam
H2--20 to 80 inches; variable

1115--Newson Loamy Sand

Component Description

Newson and similar soils

Extent: 85 percent of the unit
Slope range: 0 to 2 percent
Surface layer texture: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface April May
June November
Wet soil moisture status is lowest (depth, months): 1.0 foot, February August
September
Ponding is shallowest (depth, months): 0.5 foot, April July October November
December
Ponding is deepest (depth, months): 1.0 foot, May June
Available water capacity to a depth of 60 inches: 5.0 inches
Content of organic matter in the upper 10 inches: 4.6 percent
Typical profile:
H1--0 to 6 inches; loamy sand
H2--6 to 23 inches; sand
H3--23 to 60 inches; sand

1150--Jevne Fine Sandy Loam

Component Description

Jevne and similar soils

Extent: 85 percent of the unit
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
Flooding: None

Wet soil moisture status is highest (depth, months): 0.5 foot, April May
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, July
August September
Ponding: None
Available water capacity to a depth of 60 inches: 10.4 inches
Content of organic matter in the upper 10 inches: 4.1 percent
Typical profile:
H1--0 to 6 inches; fine sandy loam
H2--6 to 19 inches; loam
H3--19 to 43 inches; loam
H4--43 to 60 inches; stratified clay loam to loamy sand

1154--Sax Muck

Component Description

Sax and similar soils

Extent: 85 percent of the unit
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 November
December
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, June
Ponding is shallowest (depth, months): 0.5 foot, April July October November
December
Ponding is deepest (depth, months): 1.0 foot, May June
Available water capacity to a depth of 60 inches: 13.9 inches
Content of organic matter in the upper 10 inches: 47.5 percent
Typical profile:
H1--0 to 12 inches; muck
H2--12 to 15 inches; silt loam
H3--15 to 39 inches; silt loam
H4--39 to 60 inches; silty clay loam

1353B--Cutaway Loamy Fine Sand, 1 To 6 Percent Slopes

Component Description

Cutaway and similar soils

Extent: 85 percent of the unit
Slope range: 1 to 6 percent
Surface layer texture: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Flooding: None
Wet soil moisture status is highest (depth, months): 3.5 feet, May
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, January
February March June July
August September October
November December
Ponding: None
Available water capacity to a depth of 60 inches: 8.0 inches
Content of organic matter in the upper 10 inches: 1.2 percent
Typical profile:
H1--0 to 11 inches; loamy fine sand
H2--11 to 26 inches; loamy sand
H3--26 to 49 inches; loam
H4--49 to 60 inches; loam

1354A--Aftad Fine Sandy Loam, 0 To 3 Percent Slopes

Component Description

Aftad and similar soils

Extent: 85 percent of the unit

Slope range: 0 to 3 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Flooding: None
Wet soil moisture status is highest (depth, months): 2.5 feet, April May
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, July
August
Ponding: None
Available water capacity to a depth of 60 inches: 8.5 inches
Content of organic matter in the upper 10 inches: 1.1 percent
Typical profile:
H1--0 to 3 inches; fine sandy loam
H2--3 to 25 inches; loamy fine sand
H3--25 to 44 inches; very fine sandy loam
H4--44 to 60 inches; stratified sandy loam to silt loam

1356--Water, Miscellaneous

Component Description

Water, miscellaneous
Extent: 100 percent of the unit
Geomorphic description:
Depression

1372--Wealthwood Loamy Fine Sand

Component Description

Wealthwood and similar soils

Extent: 85 percent of the unit
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
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot, May
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, January
February March July
August September October
December
Ponding: None
Available water capacity to a depth of 60 inches: 7.2 inches
Content of organic matter in the upper 10 inches: 1.6 percent
Typical profile:
H1--0 to 4 inches; loamy fine sand
H2--4 to 28 inches; loamy fine sand
H3--28 to 42 inches; stratified silty clay loam to sand
H4--42 to 60 inches; stratified silt loam to sand

1375B--Alban Fine Sandy Loam, 3 To 8 Percent Slopes

Component Description

Alban and similar soils

Extent: 85 percent of the unit
Slope range: 3 to 8 percent
Surface layer texture: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Flooding: None
Depth to wet soil moisture status: More than 6.6 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: 0.8 percent
Typical profile:
H1--0 to 5 inches; fine sandy loam
H2--5 to 23 inches; fine sandy loam

H3--23 to 29 inches; fine sandy loam
H4--29 to 60 inches; stratified silt to fine sand

1878--Hamre Muck

Component Description

Hamre and similar soils

Extent: 85 percent of the unit
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 June October
November December
Wet soil moisture status is lowest (depth, months): 0.5 foot, January February
July August
September
Ponding is shallowest (depth, months): 0.5 foot, March June July October December
Ponding is deepest (depth, months): 1.0 foot, April May November
Available water capacity to a depth of 60 inches: 13.1 inches
Content of organic matter in the upper 10 inches: 90.0 percent
Typical profile:
H1--0 to 10 inches; muck
H2--10 to 17 inches; loam
H3--17 to 60 inches; loam

1982--Baudette-Spooner Complex

Component Description

Baudette and similar soils

Extent: 55 percent of the unit
Slope range: 0 to 2 percent
Surface layer texture: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Flooding: None
Wet soil moisture status is highest (depth, months): 2.5 feet, May
Wet soil moisture status is lowest (depth, months): More than 6.6 feet, January
February August
September October November
December
Ponding: None
Available water capacity to a depth of 60 inches: 12.0 inches
Content of organic matter in the upper 10 inches: 1.5 percent
Typical profile:
H1--0 to 4 inches; silt loam
H2--4 to 9 inches; silt loam
H3--9 to 21 inches; silt loam
H4--21 to 60 inches; silt loam

Spooner and similar soils

Extent: 35 percent of the unit
Slope range: 0 to 2 percent
Surface layer texture: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot, April May
Wet soil moisture status is lowest (depth, months): 4.9 feet, August
Ponding: None
Available water capacity to a depth of 60 inches: 11.8 inches
Content of organic matter in the upper 10 inches: 2.4 percent
Typical profile:
H1--0 to 7 inches; silt loam
H2--7 to 22 inches; silt loam
H3--22 to 27 inches; silt loam

H4--27 to 60 inches; silt loam

1983--Cathro Muck, Stratified Substratum

Component Description

Cathro and similar soils

Extent: 90 percent of the unit

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 June November

Wet soil moisture status is lowest (depth, months): 1.0 foot, January February
August

September

Ponding is shallowest (depth, months): 0.5 foot, March June July October November

December

Ponding is deepest (depth, months): 1.0 foot, April May

Available water capacity to a depth of 60 inches: 19.4 inches

Content of organic matter in the upper 10 inches: 72.5 percent

Typical profile:

H1--0 to 16 inches; muck

H2--16 to 35 inches; muck

H3--35 to 60 inches; stratified silty clay loam to sand

1984--Leafriver Muck

Component Description

Leafriver and similar soils

Extent: 90 percent of the unit

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 June July

November

Wet soil moisture status is lowest (depth, months): 0.5 foot, January February
August

September October December

Ponding is shallowest (depth, months): 0.5 foot, March June July October November

December

Ponding is deepest (depth, months): 1.0 foot, April May

Available water capacity to a depth of 60 inches: 8.6 inches

Content of organic matter in the upper 10 inches: 70.0 percent

Typical profile:

H1--0 to 13 inches; muck

H2--13 to 17 inches; sand

H3--17 to 60 inches; sand

CW--Census Water

Component Description

Census water

Extent: 100 percent of the unit

W--Water

Component Description

Water

Extent: 100 percent of the unit

