

Map Unit Description (MN)

Scott County, Minnesota

[Data apply to the entire extent of the map unit within the survey area. Map unit and soil properties for a specific parcel of land may vary somewhat and should be determined by onsite investigation]

AaA--Alluvial land, 0 to 2 percent slopes

Alluvial land, occasionally flooded

Extent: 90 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 2 percent

Parent material: alluvium

Restrictive feature(s): greater than 60 inches

Flooding: occasional

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated: 2w

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	loam	moderately rapid	1.97 to 2.17 in	7.4 to 8.4
A1 -- 10 to 60 in	stratified silt loam to sand	moderately rapid	6.50 to 9.00 in	7.4 to 8.4

AaB--Alluvial land, 2 to 6 percent slopes

Alluvial land, occasionally flooded

Extent: 90 percent of the unit

Landform(s): flood plains

Slope gradient: 2 to 6 percent

Parent material: alluvium

Restrictive feature(s): greater than 60 inches

Flooding: occasional

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated: 2w

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	loam	moderately rapid	1.97 to 2.17 in	7.4 to 8.4
A1 -- 10 to 60 in	stratified silt loam to sand	moderately rapid	6.50 to 9.00 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

Ab--Alluvial land, frequent overflow, 0 to 6 percent slopes

Alluvial land, frequent overflow

Extent: 90 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 6 percent

Parent material: alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated: 5w

Hydric soil: yes

Hydrologic group: A/D

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1 -- 0 to 10 in	loam	moderately rapid	1.97 to 2.17 in	7.4 to 8.4
A2 -- 10 to 60 in	stratified silt loam to sand	moderately rapid	6.50 to 9.00 in	7.4 to 8.4

Ba--Beach materials, sandy

Beaches, sandy

Extent: 90 percent of the unit

Landform(s): beaches on lakes

Slope gradient: 0 to 3 percent

Parent material: beach sand

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 1

Wind erodibility index (WEI): 220

Kw factor (surface layer) .02

Land capability, nonirrigated: 5s

Hydric soil: no

Hydrologic group:

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 5 in	sand	rapid	0.20 to 0.36 in	6.1 to 7.8
C -- 5 to 60 in	gravelly sand	rapid	1.09 to 5.47 in	6.7 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

Bb--Beach materials and muck

Beaches, sandy

Extent: 45 percent of the unit

Landform(s): shorelines on marshes

Slope gradient: 0 to 2 percent

Parent material: beach sand

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 1

Wind erodibility index (WEI): 220

Kw factor (surface layer) .02

Land capability, nonirrigated: 5w

Hydric soil: yes

Hydrologic group:

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 11 in	sand	rapid	0.88 to 1.10 in	6.1 to 7.8
C -- 11 to 60 in	fine sand	rapid	2.93 to 4.88 in	6.1 to 8.4

Muck soil

Extent: 45 percent of the unit

Landform(s): shorelines on marshes

Slope gradient: 0 to 2 percent

Parent material: organic material

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .02

Land capability, nonirrigated: 5w

Hydric soil: yes

Hydrologic group: A/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Oa1 -- 0 to 10 in	muck	moderately rapid	3.44 to 4.43 in	
Oa2 -- 10 to 60 in	muck	moderately rapid	17.50 to 22.50 in	

Map Unit Description (MN)

Scott County, Minnesota

Bc--Blue Earth mucky silty clay loam, 0 to 1 percent slopes

Blue Earth

Extent: 90 percent of the unit

Landform(s): depressions on moraines

Slope gradient: 0 to 1 percent

Parent material: coprogenous earth over till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .32

Land capability, nonirrigated: 3w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1 -- 0 to 12 in	mucky silty clay loam	moderate	2.13 to 2.83 in	7.4 to 8.4
Cg -- 12 to 40 in	clay loam	moderate	5.10 to 6.80 in	7.4 to 8.4
2Cg -- 40 to 60 in	clay loam	moderate	2.76 to 3.15 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

BdB--Kingsley, Mahtomedi and Hayden complex, 2 to 6 percent slopes

Kingsley

Extent: 40 percent of the unit

Landform(s): moraines

Slope gradient: 2 to 6 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: C

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.63 to 1.99 in	5.6 to 6.5
Bt -- 9 to 31 in	sandy loam	moderately slow	2.87 to 3.53 in	5.1 to 7.3
C -- 31 to 60 in	sandy loam	moderately slow	3.16 to 4.02 in	5.6 to 7.8

Mahtomedi

Extent: 40 percent of the unit

Landform(s): moraines

Slope gradient: 2 to 6 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .15

Land capability, nonirrigated: 4s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	gravelly loamy sand	rapid	0.47 to 0.79 in	5.1 to 6.5
Bw -- 8 to 30 in	sand	rapid	1.32 to 1.76 in	5.1 to 6.5
C -- 30 to 60 in	gravelly sand	rapid	1.20 to 2.69 in	5.1 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

BdB--Kingsley, Mahtomedi and Hayden complex, 2 to 6 percent slopes

Hayden

Extent: 20 percent of the unit

Landform(s): moraines

Slope gradient: 2 to 6 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 9 to 26 in	loam	moderate	2.54 to 3.22 in	5.1 to 7.3
C -- 26 to 60 in	loam	moderate	4.74 to 6.43 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

BdC--Kingsley, Mahtomedi and Hayden complex, 6 to 12 percent slopes

Kingsley

Extent: 40 percent of the unit

Landform(s): moraines

Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: C

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.63 to 1.99 in	5.6 to 6.5
Bt -- 9 to 31 in	sandy loam	moderately slow	2.87 to 3.53 in	5.1 to 7.3
C -- 31 to 60 in	sandy loam	moderately slow	3.16 to 4.02 in	5.6 to 7.8

Mahtomedi

Extent: 40 percent of the unit

Landform(s): moraines

Slope gradient: 6 to 12 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .15

Land capability, nonirrigated: 6s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	gravelly loamy sand	rapid	0.47 to 0.79 in	5.1 to 6.5
Bw -- 8 to 30 in	sand	rapid	1.32 to 1.76 in	5.1 to 6.5
C -- 30 to 60 in	gravelly sand	rapid	1.20 to 2.69 in	5.1 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

BdC--Kingsley, Mahtomedi and Hayden complex, 6 to 12 percent slopes

Hayden

Extent: 20 percent of the unit

Landform(s): moraines

Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 9 to 26 in	loam	moderate	2.54 to 3.22 in	5.1 to 7.3
C -- 26 to 60 in	loam	moderate	4.74 to 6.43 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

BdC2--Kingsley, Mahtomedi and Hayden complex, 6 to 12 percent slopes, moderately eroded

Kingsley, moderately eroded

Extent: 40 percent of the unit

Landform(s): moraines

Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: C

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.63 to 1.99 in	5.6 to 6.5
Bt -- 9 to 31 in	sandy loam	moderately slow	2.87 to 3.53 in	5.1 to 7.3
C -- 31 to 60 in	sandy loam	moderately slow	3.16 to 4.02 in	5.6 to 7.8

Mahtomedi, moderately eroded

Extent: 40 percent of the unit

Landform(s): moraines

Slope gradient: 6 to 12 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .15

Land capability, nonirrigated: 6s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	gravelly loamy sand	rapid	0.47 to 0.79 in	5.1 to 6.5
Bw -- 8 to 30 in	sand	rapid	1.32 to 1.76 in	5.1 to 6.5
C -- 30 to 60 in	gravelly sand	rapid	1.20 to 2.69 in	5.1 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

BdC2--Kingsley, Mahtomedi and Hayden complex, 6 to 12 percent slopes, moderately eroded

Hayden, moderately eroded

Extent: 20 percent of the unit

Landform(s): moraines

Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 9 to 26 in	loam	moderate	2.54 to 3.22 in	5.1 to 7.3
C -- 26 to 60 in	loam	moderate	4.74 to 6.43 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

BdD--Kingsley, Mahtomedi and Hayden complex, 12 to 18 percent slopes

Kingsley

Extent: 40 percent of the unit

Landform(s): moraines

Slope gradient: 12 to 18 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 4e

Hydric soil: no

Hydrologic group: C

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.63 to 1.99 in	5.6 to 6.5
Bt -- 9 to 31 in	sandy loam	moderately slow	2.87 to 3.53 in	5.1 to 7.3
C -- 31 to 60 in	sandy loam	moderately slow	3.16 to 4.02 in	5.6 to 7.8

Mahtomedi

Extent: 40 percent of the unit

Landform(s): moraines

Slope gradient: 12 to 18 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .15

Land capability, nonirrigated: 6s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	gravelly loamy sand	rapid	0.47 to 0.79 in	5.1 to 6.5
Bw -- 8 to 30 in	sand	rapid	1.32 to 1.76 in	5.1 to 6.5
C -- 30 to 60 in	gravelly sand	rapid	1.20 to 2.69 in	5.1 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

BdD--Kingsley, Mahtomedi and Hayden complex, 12 to 18 percent slopes

Hayden

Extent: 20 percent of the unit

Landform(s): moraines

Slope gradient: 12 to 18 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated: 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 9 to 26 in	loam	moderate	2.54 to 3.22 in	5.1 to 7.3
C -- 26 to 60 in	loam	moderate	4.74 to 6.43 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

BdD2--Kingsley, Mahtomedi and Hayden complex, 12 to 18 percent slopes, moderately eroded

Kingsley, moderately eroded

Extent: 40 percent of the unit

Landform(s): moraines

Slope gradient: 12 to 18 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 4e

Hydric soil: no

Hydrologic group: C

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.63 to 1.99 in	5.6 to 6.5
Bt -- 9 to 31 in	sandy loam	moderately slow	2.87 to 3.53 in	5.1 to 7.3
C -- 31 to 60 in	sandy loam	moderately slow	3.16 to 4.02 in	5.6 to 7.8

Mahtomedi, moderately eroded

Extent: 40 percent of the unit

Landform(s): moraines

Slope gradient: 12 to 18 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .15

Land capability, nonirrigated: 6s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	gravelly loamy sand	rapid	0.47 to 0.79 in	5.1 to 6.5
Bw -- 8 to 30 in	sand	rapid	1.32 to 1.76 in	5.1 to 6.5
C -- 30 to 60 in	gravelly sand	rapid	1.20 to 2.69 in	5.1 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

BdD2--Kingsley, Mahtomedi and Hayden complex, 12 to 18 percent slopes, moderately eroded

Hayden, moderately eroded

Extent: 20 percent of the unit

Landform(s): moraines

Slope gradient: 12 to 18 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated: 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 9 to 26 in	loam	moderate	2.54 to 3.22 in	5.1 to 7.3
C -- 26 to 60 in	loam	moderate	4.74 to 6.43 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

BdE2--Kingsley, Mahtomedi and Hayden complex, 18 to 25 percent slopes

Kingsley, moderately eroded

Extent: 40 percent of the unit

Landform(s): moraines

Slope gradient: 18 to 25 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 6e

Hydric soil: no

Hydrologic group: C

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.63 to 1.99 in	5.6 to 6.5
Bt -- 9 to 31 in	sandy loam	moderately slow	2.87 to 3.53 in	5.1 to 7.3
C -- 31 to 60 in	sandy loam	moderately slow	3.16 to 4.02 in	5.6 to 7.8

Mahtomedi, moderately eroded

Extent: 40 percent of the unit

Landform(s): moraines

Slope gradient: 18 to 25 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .15

Land capability, nonirrigated: 6s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	gravelly loamy sand	rapid	0.47 to 0.79 in	5.1 to 6.5
Bw -- 8 to 30 in	sand	rapid	1.32 to 1.76 in	5.1 to 6.5
C -- 30 to 60 in	gravelly sand	rapid	1.20 to 2.69 in	5.1 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

BdE2--Kingsley, Mahtomedi and Hayden complex, 18 to 25 percent slopes

Hayden, moderately eroded

Extent: 20 percent of the unit

Landform(s): moraines

Slope gradient: 18 to 25 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated: 6e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 9 to 26 in	loam	moderate	2.54 to 3.22 in	5.1 to 7.3
C -- 26 to 60 in	loam	moderate	4.74 to 6.43 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

BdF--Kingsley, Mahtomedi and Hayden complex, 25 to 50 percent slopes

Kingsley

Extent: 40 percent of the unit

Landform(s): moraines

Slope gradient: 25 to 40 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 7e

Hydric soil: no

Hydrologic group: C

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 9 in	loam	moderate	1.63 to 1.99 in	5.6 to 6.5
Bt -- 9 to 31 in	sandy loam	moderately slow	2.87 to 3.53 in	5.1 to 7.3
C -- 31 to 60 in	sandy loam	moderately slow	3.16 to 4.02 in	5.6 to 7.8

Mahtomedi

Extent: 40 percent of the unit

Landform(s): moraines

Slope gradient: 25 to 45 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .15

Land capability, nonirrigated: 7s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 8 in	gravelly loamy sand	rapid	0.47 to 0.79 in	5.1 to 6.5
Bw -- 8 to 30 in	sand	rapid	1.32 to 1.76 in	5.1 to 6.5
C -- 30 to 60 in	gravelly sand	rapid	1.20 to 2.69 in	5.1 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

BdF--Kingsley, Mahtomedi and Hayden complex, 25 to 50 percent slopes

Hayden

Extent: 20 percent of the unit

Landform(s): moraines

Slope gradient: 25 to 50 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated: 7e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 9 to 26 in	loam	moderate	2.54 to 3.22 in	5.1 to 7.3
C -- 26 to 60 in	loam	moderate	4.74 to 6.43 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

BeD3--Kingsley, Mahtomedi and Hayden complex, 12 to 18 percent slopes, severely eroded

Kingsley, severely eroded

<p><i>Extent:</i> 40 percent of the unit</p> <p><i>Landform(s):</i> moraines</p> <p><i>Slope gradient:</i> 12 to 18 percent</p> <p><i>Parent material:</i> till</p> <p><i>Restrictive feature(s):</i> greater than 60 inches</p> <p><i>Flooding:</i> none</p> <p><i>Ponding:</i> none</p> <p><i>Drainage class:</i> well drained</p>	<p><i>Soil loss tolerance (T factor):</i> 4</p> <p><i>Wind erodibility group (WEG):</i> 5</p> <p><i>Wind erodibility index (WEI):</i> 56</p> <p><i>Kw factor (surface layer)</i> .37</p> <p><i>Land capability, nonirrigated:</i> 4e</p> <p><i>Hydric soil:</i> no</p> <p><i>Hydrologic group:</i> C</p> <p><i>Potential for frost action:</i> low</p>
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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.63 to 1.99 in	5.6 to 6.5
Bt -- 9 to 31 in	sandy loam	moderately slow	2.87 to 3.53 in	5.1 to 7.3
C -- 31 to 60 in	sandy loam	moderately slow	3.16 to 4.02 in	5.6 to 7.8

Mahtomedi, severely eroded

<p><i>Extent:</i> 40 percent of the unit</p> <p><i>Landform(s):</i> moraines</p> <p><i>Slope gradient:</i> 12 to 18 percent</p> <p><i>Parent material:</i> outwash</p> <p><i>Restrictive feature(s):</i> greater than 60 inches</p> <p><i>Flooding:</i> none</p> <p><i>Ponding:</i> none</p> <p><i>Drainage class:</i> excessively drained</p>	<p><i>Soil loss tolerance (T factor):</i> 4</p> <p><i>Wind erodibility group (WEG):</i> 2</p> <p><i>Wind erodibility index (WEI):</i> 134</p> <p><i>Kw factor (surface layer)</i> .15</p> <p><i>Land capability, nonirrigated:</i> 6s</p> <p><i>Hydric soil:</i> no</p> <p><i>Hydrologic group:</i> A</p> <p><i>Potential for frost action:</i> low</p>
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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	gravelly loamy sand	rapid	0.47 to 0.79 in	5.1 to 6.5
Bw -- 8 to 30 in	sand	rapid	1.32 to 1.76 in	5.1 to 6.5
C -- 30 to 60 in	gravelly sand	rapid	1.20 to 2.69 in	5.1 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

BeD3--Kingsley, Mahtomedi and Hayden complex, 12 to 18 percent slopes, severely eroded

Hayden, severely eroded

Extent: 20 percent of the unit

Landform(s): moraines

Slope gradient: 12 to 18 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated: 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 9 to 26 in	loam	moderate	2.54 to 3.22 in	5.1 to 7.3
C -- 26 to 60 in	loam	moderate	4.74 to 6.43 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

BeE3--Kingsley, Mahtomedi and Hayden complex, 18 to 25 percent slopes

Kingsley, severely eroded

Extent: 40 percent of the unit

Landform(s): moraines

Slope gradient: 18 to 25 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 6e

Hydric soil: no

Hydrologic group: C

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.63 to 1.99 in	5.6 to 6.5
Bt -- 9 to 31 in	sandy loam	moderately slow	2.87 to 3.53 in	5.1 to 7.3
C -- 31 to 60 in	sandy loam	moderately slow	3.16 to 4.02 in	5.6 to 7.8

Mahtomedi, severely eroded

Extent: 40 percent of the unit

Landform(s): moraines

Slope gradient: 18 to 25 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .15

Land capability, nonirrigated: 6s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	gravelly loamy sand	rapid	0.47 to 0.79 in	5.1 to 6.5
Bw -- 8 to 30 in	sand	rapid	1.32 to 1.76 in	5.1 to 6.5
C -- 30 to 60 in	gravelly sand	rapid	1.20 to 2.69 in	5.1 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

BeE3--Kingsley, Mahtomedi and Hayden complex, 18 to 25 percent slopes

Hayden, severely eroded

Extent: 20 percent of the unit

Landform(s): moraines

Slope gradient: 18 to 25 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated: 6e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 9 to 26 in	loam	moderate	2.54 to 3.22 in	5.1 to 7.3
C -- 26 to 60 in	loam	moderate	4.74 to 6.43 in	7.4 to 8.4

CaB--Clarion loam, 2 to 6 percent slopes

Clarion

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 2 to 6 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 16 in	loam	moderate	3.23 to 3.55 in	5.6 to 7.3
Bw -- 16 to 38 in	clay loam	moderate	3.68 to 4.11 in	5.6 to 7.8
C -- 38 to 60 in	clay loam	moderate	3.75 to 4.19 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

CaB2--Clarion loam, 2 to 6 percent slopes, moderately eroded

Clarion, moderately eroded

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 2 to 6 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 11 in	loam	moderate	2.20 to 2.43 in	5.6 to 7.3
Bw -- 11 to 16 in	clay loam	moderate	0.87 to 0.97 in	5.6 to 7.8
C -- 16 to 60 in	clay loam	moderate	7.43 to 8.30 in	7.4 to 8.4

CaC--Clarion loam, 6 to 12 percent slopes

Clarion

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 16 in	loam	moderate	3.23 to 3.55 in	5.6 to 7.3
Bw -- 16 to 38 in	clay loam	moderate	3.68 to 4.11 in	5.6 to 7.3
C -- 38 to 60 in	clay loam	moderate	3.75 to 4.19 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

CaC2--Clarion loam, 6 to 12 percent slopes, moderately eroded

Clarion, moderately eroded

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 11 in	loam	moderate	2.20 to 2.43 in	5.6 to 7.3
Bw -- 11 to 16 in	clay loam	moderate	0.87 to 0.97 in	5.6 to 7.3
C -- 16 to 60 in	clay loam	moderate	7.43 to 8.30 in	7.4 to 8.4

CbC3--Clarion soils, 6 to 12 percent slopes, severely eroded

Clarion, severely eroded

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 11 in	loam	moderate	2.20 to 2.43 in	5.6 to 7.3
Bw -- 11 to 16 in	clay loam	moderate	0.87 to 0.97 in	5.6 to 7.3
C -- 16 to 60 in	clay loam	moderate	7.43 to 8.30 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

Cc--Comfrey silty clay loam

Comfrey

Extent: 95 percent of the unit

Landform(s): flats on flood plains, swales on flood plains

Slope gradient: 0 to 2 percent

Parent material: alluvium

Restrictive feature(s): greater than 60 inches

Flooding: occasional

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1 -- 0 to 14 in	silty clay loam	moderate	2.55 to 3.12 in	6.6 to 7.8
A2 -- 14 to 24 in	silty clay loam	moderate	1.57 to 1.97 in	6.6 to 7.8
Cg -- 24 to 60 in	clay loam	moderate	5.37 to 6.81 in	6.6 to 8.4

CdA--Copaston silt loam, 0 to 2 percent slopes

Copaston

Extent: 85 percent of the unit

Landform(s): stream terraces

Slope gradient: 0 to 2 percent

Parent material: alluvial sediment over bedrock

Restrictive feature(s): lithic bedrock at 12 to 20 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 1

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .32

Land capability, nonirrigated: 3s

Hydric soil: no

Hydrologic group: D

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 13 in	silt loam	moderate	2.60 to 2.86 in	5.6 to 7.3
AB -- 13 to 20 in	silt loam	moderately rapid	1.06 to 1.20 in	5.6 to 7.3
Bw -- 20 to 26 in	loam	moderately rapid	0.71 to 0.83 in	5.6 to 7.8
2R -- 26 to 36 in	unweathered bedrock	moderate		

Map Unit Description (MN)

Scott County, Minnesota

CdB--Copaston silt loam, 2 to 6 percent slopes

Copaston

Extent: 85 percent of the unit

Landform(s): stream terraces

Slope gradient: 2 to 6 percent

Parent material: alluvial sediment over bedrock

Restrictive feature(s): lithic bedrock at 12 to 20 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 1

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .32

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: D

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 13 in	silt loam	moderate	2.60 to 2.86 in	5.6 to 7.3
AB -- 13 to 20 in	silt loam	moderately rapid	1.06 to 1.20 in	5.6 to 7.3
Bw -- 20 to 26 in	loam	moderately rapid	0.71 to 0.83 in	5.6 to 7.8
2R -- 26 to 36 in	unweathered bedrock	moderate		

Map Unit Description (MN)

Scott County, Minnesota

CdB2--Copaston silt loam, 2 to 6 percent slopes, moderately eroded

Copaston, moderately eroded

Extent: 85 percent of the unit

Landform(s): stream terraces

Slope gradient: 2 to 6 percent

Parent material: alluvial sediment over bedrock

Restrictive feature(s): lithic bedrock at 12 to 20 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 1

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .32

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: D

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 13 in	silt loam	moderate	2.60 to 2.86 in	5.6 to 7.3
AB -- 13 to 20 in	silt loam	moderately rapid	1.06 to 1.20 in	5.6 to 7.3
Bw -- 20 to 26 in	loam	moderately rapid	0.71 to 0.83 in	5.6 to 7.8
2R -- 26 to 36 in	unweathered bedrock	moderate		

DaA--Dakota loam, 0 to 2 percent slopes

Dakota

Extent: 90 percent of the unit

Landform(s): stream terraces, outwash plains, moraines

Slope gradient: 0 to 2 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated: 2s

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 14 in	loam	moderate	2.83 to 3.12 in	5.1 to 7.3
Bt -- 14 to 24 in	loam	moderate	1.48 to 1.87 in	5.1 to 7.3
2C -- 24 to 60 in	sand	rapid	0.72 to 3.58 in	5.1 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

DaB--Dakota loam, 2 to 6 percent slopes

Dakota

Extent: 90 percent of the unit

Landform(s): stream terraces, outwash plains, moraines

Slope gradient: 2 to 6 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 14 in	loam	moderate	2.83 to 3.12 in	5.1 to 7.3
Bt -- 14 to 24 in	loam	moderate	1.48 to 1.87 in	5.1 to 7.3
2C -- 24 to 60 in	sand	rapid	0.72 to 3.58 in	5.1 to 7.8

DaB2--Dakota loam, 2 to 6 percent slopes, moderately eroded

Dakota, moderately eroded

Extent: 90 percent of the unit

Landform(s): stream terraces, outwash plains, moraines

Slope gradient: 2 to 6 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 14 in	loam	moderate	2.83 to 3.12 in	5.1 to 7.3
Bt -- 14 to 24 in	loam	moderate	1.48 to 1.87 in	5.1 to 7.3
2C -- 24 to 60 in	sand	rapid	0.72 to 3.58 in	5.1 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

DaC2--Dakota loam, 6 to 12 percent slopes, moderately eroded

Dakota, moderately eroded

Extent: 100 percent of the unit

Landform(s): stream terraces, outwash plains, moraines

Slope gradient: 6 to 12 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 14 in	loam	moderate	2.83 to 3.12 in	5.1 to 7.3
Bt -- 14 to 24 in	loam	moderate	1.48 to 1.87 in	5.1 to 7.3
2C -- 24 to 60 in	sand	rapid	0.72 to 3.58 in	5.1 to 7.8

DbA--Dickman sandy loam, 0 to 2 percent slopes

Dickman

Extent: 90 percent of the unit

Landform(s): stream terraces

Slope gradient: 0 to 2 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated: 3s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 12 in	sandy loam	moderately rapid	1.54 to 1.77 in	5.6 to 6.5
Bw -- 12 to 21 in	sandy loam	moderately rapid	1.09 to 1.27 in	5.6 to 7.3
2C -- 21 to 60 in	sand	rapid	0.78 to 2.73 in	5.6 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

DbB--Dickman sandy loam, 2 to 6 percent slopes

Dickman

Extent: 90 percent of the unit

Landform(s): stream terraces

Slope gradient: 2 to 6 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 12 in	sandy loam	moderately rapid	1.54 to 1.77 in	5.6 to 6.5
Bw -- 12 to 20 in	sandy loam	moderately rapid	0.99 to 1.16 in	5.6 to 7.3
2C -- 20 to 60 in	sand	rapid	0.80 to 2.78 in	5.6 to 7.8

DbB2--Dickman sandy loam, 2 to 6 percent slopes, moderately eroded

Dickman, moderately eroded

Extent: 90 percent of the unit

Landform(s): stream terraces

Slope gradient: 2 to 6 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	sandy loam	moderately rapid	1.28 to 1.48 in	5.6 to 6.5
Bw -- 10 to 18 in	sandy loam	moderately rapid	0.99 to 1.16 in	5.6 to 7.3
2C -- 18 to 60 in	sand	rapid	0.83 to 2.92 in	5.6 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

DbC2--Dickman sandy loam, 6 to 12 percent slopes, moderately eroded

Dickman, moderately eroded

Extent: 90 percent of the unit

Landform(s): stream terraces

Slope gradient: 6 to 12 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated: 4e

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	sandy loam	moderately rapid	1.18 to 1.36 in	5.6 to 6.5
Bw -- 9 to 16 in	sandy loam	moderately rapid	0.85 to 0.99 in	5.6 to 7.3
2C -- 16 to 60 in	sand	rapid	0.87 to 3.06 in	5.6 to 7.8

Dc--Dorchester loam and silt loam

Dorchester

Extent: 85 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 2 percent

Parent material: alluvium

Restrictive feature(s): greater than 60 inches

Flooding: occasional

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .49

Land capability, nonirrigated: 2w

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1 -- 0 to 30 in	silt loam	moderate	5.98 to 6.58 in	7.4 to 8.4
A2 -- 30 to 60 in	silty clay loam	moderate	6.58 to 7.18 in	6.6 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

Dd--Dorchester silty clay loam

Dorchester

Extent: 85 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 2 percent

Parent material: alluvium

Restrictive feature(s): greater than 60 inches

Flooding: occasional

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .43

Land capability, nonirrigated: 2w

Hydric soil: no

Hydrologic group: C

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1 -- 0 to 30 in	silty clay loam	moderate	5.98 to 6.58 in	7.4 to 8.4
A2 -- 30 to 60 in	silty clay loam	moderate	6.58 to 7.18 in	6.6 to 8.4

De--Duelm variant, fine sandy loam

Duelm, variant

Extent: 90 percent of the unit

Landform(s): flats on stream terraces

Slope gradient: 0 to 2 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated: 3s

Hydric soil: no

Hydrologic group: A/D

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	fine sandy loam	moderately rapid	1.28 to 1.77 in	5.6 to 7.3
AB -- 10 to 17 in	sandy loam	moderately rapid	0.85 to 1.20 in	5.6 to 7.3
Bw -- 17 to 30 in	fine sand	rapid	1.17 to 1.43 in	5.6 to 7.3
C -- 30 to 60 in	sand	rapid	1.50 to 2.99 in	6.1 to 7.3

Map Unit Description (MN)

Scott County, Minnesota

Df--Dundas silt loam, 0 to 2 percent slopes

Dundas

Extent: 85 percent of the unit

Landform(s): flats on moraines

Slope gradient: 0 to 2 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 13 in	silt loam	moderate	2.86 to 3.12 in	5.6 to 7.3
Btg -- 13 to 44 in	silty clay loam	moderately slow	4.67 to 5.91 in	5.1 to 7.3
Cg -- 44 to 60 in	clay loam	moderately slow	2.20 to 2.99 in	7.4 to 8.4

Dg--Dune land

Dune land

Extent: 100 percent of the unit

Landform(s): dunes on stream terraces

Slope gradient:

Parent material: eolian sand

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Hydric soil: no

Hydrologic group:

Potential for frost action:

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
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Map Unit Description (MN)

Scott County, Minnesota

EaA--Estherville loam and sandy loam, 0 to 2 percent slopes

Estherville

Extent: 90 percent of the unit

Landform(s): stream terraces, outwash plains, moraines

Slope gradient: 0 to 2 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .32

Land capability, nonirrigated: 3s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 12 in	loam	moderately rapid	2.24 to 2.60 in	5.6 to 7.3
Bw -- 12 to 22 in	loam	moderately rapid	1.33 to 1.84 in	5.6 to 7.3
2C -- 22 to 60 in	gravelly coarse sand	rapid	0.76 to 1.51 in	6.6 to 8.4

EaB--Estherville loam and sandy loam, 2 to 6 percent slopes

Estherville

Extent: 90 percent of the unit

Landform(s): stream terraces, outwash plains, moraines

Slope gradient: 2 to 6 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .32

Land capability, nonirrigated: 3s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 12 in	loam	moderately rapid	2.24 to 2.60 in	5.6 to 7.3
Bw -- 12 to 20 in	loam	moderately rapid	1.07 to 1.49 in	5.6 to 7.3
2C -- 20 to 60 in	gravelly coarse sand	rapid	0.80 to 1.59 in	6.6 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

EaB2--Estherville loam and sandy loam, 2 to 6 percent slopes, moderately eroded

Estherville, moderately eroded

Extent: 90 percent of the unit

Landform(s): stream terraces, outwash plains, moraines

Slope gradient: 2 to 6 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .32

Land capability, nonirrigated: 3s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	loam	moderately rapid	1.87 to 2.17 in	5.6 to 7.3
Bw -- 10 to 18 in	loam	moderately rapid	1.07 to 1.49 in	5.6 to 7.3
2C -- 18 to 60 in	gravelly coarse sand	rapid	0.83 to 1.67 in	6.6 to 8.4

EaC--Estherville loam and sandy loam, 6 to 12 percent slopes

Estherville

Extent: 90 percent of the unit

Landform(s): stream terraces, outwash plains, moraines

Slope gradient: 6 to 12 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .32

Land capability, nonirrigated: 4s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	loam	moderately rapid	1.87 to 2.17 in	5.6 to 7.3
Bw -- 10 to 18 in	loam	moderately rapid	1.07 to 1.49 in	5.6 to 7.3
2C -- 18 to 60 in	gravelly coarse sand	rapid	0.83 to 1.67 in	6.6 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

EaC2--Estherville loam and sandy loam, 6 to 12 percent slopes ,moderately eroded

Estherville, moderately eroded

Extent: 90 percent of the unit

Landform(s): stream terraces, outwash plains, moraines

Slope gradient: 6 to 12 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .32

Land capability, nonirrigated: 4s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	loam	moderately rapid	1.87 to 2.17 in	5.6 to 7.3
Bw -- 10 to 16 in	loam	moderately rapid	0.82 to 1.13 in	5.6 to 7.3
2C -- 16 to 60 in	gravelly coarse sand	rapid	0.87 to 1.75 in	6.6 to 8.4

EbB--Salida gravelly sandy loam, 0 to 6 percent slopes

Salida

Extent: 90 percent of the unit

Landform(s): stream terraces, outwash plains, moraines

Slope gradient: 0 to 6 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .17

Land capability, nonirrigated: 6s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	gravelly sandy loam	moderately rapid	0.98 to 1.18 in	6.1 to 8.4
Bw -- 10 to 20 in	gravelly loamy coarse sand	very rapid	0.20 to 0.41 in	7.4 to 8.4
C -- 20 to 60 in	very gravelly coarse sand	very rapid	0.80 to 1.59 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

EbB2--Salida gravelly sandy loam, 0 to 6 percent slopes, moderately eroded

Salida, moderately eroded

Extent: 90 percent of the unit

Landform(s): stream terraces, outwash plains, moraines

Slope gradient: 0 to 6 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .17

Land capability, nonirrigated: 6s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	gravelly sandy loam	moderately rapid	0.91 to 1.09 in	6.1 to 8.4
Bw -- 9 to 18 in	gravelly loamy coarse sand	very rapid	0.18 to 0.36 in	7.4 to 8.4
C -- 18 to 60 in	very gravelly coarse sand	very rapid	0.83 to 1.67 in	7.4 to 8.4

EbC--Salida gravelly sandy loam, 6 to 12 percent slopes

Salida

Extent: 90 percent of the unit

Landform(s): stream terraces, outwash plains, moraines

Slope gradient: 6 to 12 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .17

Land capability, nonirrigated: 6s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	gravelly sandy loam	moderately rapid	0.91 to 1.09 in	6.1 to 8.4
Bw -- 9 to 16 in	gravelly loamy coarse sand	very rapid	0.14 to 0.28 in	7.4 to 8.4
C -- 16 to 60 in	very gravelly coarse sand	very rapid	0.87 to 1.75 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

EbC2--Salida gravelly sandy loam, 6 to 12 percent slopes, moderately eroded

Salida, moderately eroded

Extent: 90 percent of the unit

Landform(s): stream terraces, outwash plains, moraines

Slope gradient: 6 to 12 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .17

Land capability, nonirrigated: 6s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	gravelly sandy loam	moderately rapid	0.91 to 1.09 in	6.1 to 8.4
Bw -- 9 to 15 in	gravelly loamy coarse sand	very rapid	0.12 to 0.24 in	7.4 to 8.4
C -- 15 to 60 in	very gravelly coarse sand	very rapid	0.90 to 1.80 in	7.4 to 8.4

Fa--Faxon silty clay loam, 0 to 2 percent slopes

Faxon

Extent: 85 percent of the unit

Landform(s): flats on stream terraces

Slope gradient: 0 to 2 percent

Parent material: alluvium over bedrock

Restrictive feature(s): lithic bedrock at 20 to 40 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated: 4w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 20 in	silty clay loam	moderate	4.02 to 4.82 in	6.6 to 7.8
Bg -- 20 to 29 in	clay loam	moderate	1.09 to 1.72 in	6.6 to 7.8
2R -- 29 to 33 in	unweathered bedrock	moderate		

Map Unit Description (MN)

Scott County, Minnesota

Ga--Glencoe silty clay loam

Glencoe

Extent: 90 percent of the unit

Landform(s): depressions on moraines

Slope gradient: 0 to 1 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated: 3w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A1 -- 0 to 19 in	silty clay loam	moderate	3.40 to 4.16 in	6.1 to 7.8
Bg -- 19 to 33 in	clay loam	moderate	2.13 to 2.69 in	6.6 to 7.8
Cg -- 33 to 60 in	clay loam	moderate	4.02 to 5.09 in	6.6 to 7.8

Gp--Pits, gravel

Pits, gravel

Extent: 100 percent of the unit

Landform(s): outwash plains, stream terraces, moraines

Slope gradient: 0 to 50 percent

Parent material: sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding:

Ponding:

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Hydric soil:

Hydrologic group:

Potential for frost action:

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
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Map Unit Description (MN)

Scott County, Minnesota

HaB--Hayden loam, 0 to 6 percent slopes

Hayden

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 0 to 6 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 9 to 45 in	clay loam	moderate	5.37 to 6.81 in	5.1 to 7.3
C -- 45 to 60 in	loam	moderate	2.09 to 2.84 in	7.4 to 8.4

HaB2--Hayden loam, 2 to 6 percent slopes, moderately eroded

Hayden, moderately eroded

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 2 to 6 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 9 to 45 in	clay loam	moderate	5.37 to 6.81 in	5.1 to 7.3
C -- 45 to 60 in	loam	moderate	2.09 to 2.84 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

HaC--Hayden loam, 6 to 12 percent slopes

Hayden

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 9 to 45 in	clay loam	moderate	5.37 to 6.81 in	5.1 to 7.3
C -- 45 to 60 in	loam	moderate	2.09 to 2.84 in	7.4 to 8.4

HaC2--Hayden loam, 6 to 12 percent slopes, moderately eroded

Hayden, moderately eroded

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 9 to 45 in	clay loam	moderate	5.37 to 6.81 in	5.1 to 7.3
C -- 45 to 60 in	loam	moderate	2.09 to 2.84 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

HaD--Hayden loam, 12 to 18 percent slopes

Hayden

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 12 to 18 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 9 to 45 in	clay loam	moderate	5.37 to 6.81 in	5.1 to 7.3
C -- 45 to 60 in	loam	moderate	2.09 to 2.84 in	7.4 to 8.4

HaD2--Hayden loam, 12 to 18 percent slopes, moderately eroded

Hayden, moderately eroded

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 12 to 18 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 9 to 45 in	clay loam	moderate	5.37 to 6.81 in	5.1 to 7.3
C -- 45 to 60 in	loam	moderate	2.09 to 2.84 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

HaE2--Hayden loam, 18 to 25 percent slopes

Hayden, moderately eroded

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 18 to 25 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 6e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 9 to 45 in	clay loam	moderate	5.37 to 6.81 in	5.1 to 7.3
C -- 45 to 60 in	loam	moderate	2.09 to 2.84 in	7.4 to 8.4

HaF2--Hayden loam, 25 to 35 percent slopes

Hayden

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 25 to 35 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 7e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 9 to 45 in	clay loam	moderate	5.37 to 6.81 in	5.1 to 7.3
C -- 45 to 60 in	loam	moderate	2.09 to 2.84 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

HbB--Hayden sandy loam, 0 to 6 percent slopes

Hayden

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 0 to 6 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	sandy loam	moderately rapid	1.10 to 1.42 in	5.6 to 7.3
Bt -- 8 to 32 in	sandy clay loam	moderate	3.60 to 4.56 in	5.1 to 7.3
C -- 32 to 60 in	sandy loam	moderate	3.91 to 5.31 in	7.4 to 8.4

HbB2--Hayden sandy loam, 0 to 6 percent slopes, moderately eroded

Hayden, moderately eroded

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 0 to 6 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	sandy loam	moderately rapid	1.10 to 1.42 in	5.6 to 7.3
Bt -- 8 to 32 in	sandy clay loam	moderate	3.60 to 4.56 in	5.1 to 7.3
C -- 32 to 60 in	sandy loam	moderate	3.91 to 5.31 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

HbC--Hayden sandy loam, 6 to 12 percent slopes

Hayden

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	sandy loam	moderately rapid	1.10 to 1.42 in	5.6 to 7.3
Bt -- 8 to 32 in	sandy clay loam	moderate	3.60 to 4.56 in	5.1 to 7.3
C -- 32 to 60 in	sandy loam	moderate	3.91 to 5.31 in	7.4 to 8.4

HbC2--Hayden sandy loam, 6 to 12 percent slopes, moderately eroded

Hayden, moderately eroded

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	sandy loam	moderately rapid	1.10 to 1.42 in	5.6 to 7.3
Bt -- 8 to 32 in	sandy clay loam	moderate	3.60 to 4.56 in	5.1 to 7.3
C -- 32 to 60 in	sandy loam	moderate	3.91 to 5.31 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

HbD--Hayden sandy loam, 12 to 18 percent slopes

Hayden

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 12 to 18 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated: 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	sandy loam	moderately rapid	1.10 to 1.42 in	5.6 to 7.3
Bt -- 8 to 32 in	sandy clay loam	moderate	3.60 to 4.56 in	5.1 to 7.3
C -- 32 to 60 in	sandy loam	moderate	3.91 to 5.31 in	7.4 to 8.4

HbD2--Hayden sandy loam, 12 to 18 percent slopes, moderately eroded

Hayden, moderately eroded

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 12 to 18 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated: 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	sandy loam	moderately rapid	1.10 to 1.42 in	5.6 to 7.3
Bt -- 8 to 32 in	sandy clay loam	moderate	3.60 to 4.56 in	5.1 to 7.3
C -- 32 to 60 in	sandy loam	moderate	3.91 to 5.31 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

HbD3--Hayden sandy clay loam, 12 to 18 percent slopes, severely eroded

Hayden, severely eroded

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 12 to 18 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .20

Land capability, nonirrigated: 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	sandy clay loam	moderate	1.57 to 1.73 in	5.6 to 7.3
Bt -- 8 to 24 in	sandy clay loam	moderate	2.42 to 3.07 in	5.1 to 7.3
C -- 24 to 60 in	sandy loam	moderate	5.02 to 6.81 in	7.4 to 8.4

HbE2--Hayden sandy loam, 18 to 25 percent slopes

Hayden, moderately eroded

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 18 to 25 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated: 6e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	sandy loam	moderately rapid	1.10 to 1.42 in	5.6 to 7.3
Bt -- 8 to 32 in	sandy clay loam	moderate	3.60 to 4.56 in	5.1 to 7.3
C -- 32 to 60 in	sandy loam	moderate	3.91 to 5.31 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

HbE3--Hayden sandy clay loam, 18 to 25 percent slopes

Hayden, severely eroded

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 18 to 25 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .17

Land capability, nonirrigated: 6e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	sandy clay loam	moderate	1.57 to 1.73 in	5.6 to 7.3
Bt -- 8 to 24 in	sandy clay loam	moderate	2.42 to 3.07 in	5.1 to 7.3
C -- 24 to 60 in	sandy loam	moderate	5.02 to 6.81 in	7.4 to 8.4

HbF2--Hayden sandy loam, 25 to 35 percent slopes

Hayden

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 25 to 35 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated: 7e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 8 in	sandy loam	moderately rapid	1.10 to 1.42 in	5.6 to 7.3
Bt -- 8 to 32 in	sandy clay loam	moderate	3.60 to 4.56 in	5.1 to 7.3
C -- 32 to 60 in	sandy loam	moderate	3.91 to 5.31 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

HcC3--Hayden soils, 6 to 12 percent slopes, severely eroded

Hayden, severely eroded

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	clay loam	moderate	1.57 to 1.73 in	5.6 to 7.3
Bt -- 8 to 24 in	clay loam	moderate	2.42 to 3.07 in	5.1 to 7.3
C -- 24 to 60 in	loam	moderate	5.02 to 6.81 in	7.4 to 8.4

HcD3--Hayden soils, 12 to 18 percent slopes, severely eroded

Hayden, severely eroded

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 12 to 18 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	clay loam	moderate	1.57 to 1.73 in	5.6 to 7.3
Bt -- 8 to 24 in	clay loam	moderate	2.42 to 3.07 in	5.1 to 7.3
C -- 24 to 60 in	loam	moderate	5.02 to 6.81 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

HcE3--Hayden soils, 18 to 25 percent slopes

Hayden, severely eroded

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 18 to 25 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 6e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	clay loam	moderate	1.57 to 1.73 in	5.6 to 7.3
Bt -- 8 to 24 in	clay loam	moderate	2.42 to 3.07 in	5.1 to 7.3
C -- 24 to 60 in	loam	moderate	5.02 to 6.81 in	7.4 to 8.4

HdA--Sparta fine sand, 0 to 2 percent slopes

Sparta

Extent: 90 percent of the unit

Landform(s): stream terraces

Slope gradient: 0 to 2 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 1

Wind erodibility index (WEI): 250

Kw factor (surface layer) .10

Land capability, nonirrigated: 4s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 12 in	fine sand	rapid	0.71 to 1.06 in	5.1 to 7.3
Bw -- 12 to 38 in	fine sand	rapid	1.30 to 2.86 in	5.1 to 7.3
C -- 38 to 60 in	fine sand	rapid	0.88 to 1.54 in	5.1 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

HdB--Sparta fine sand, 2 to 6 percent slopes

Sparta

Extent: 90 percent of the unit

Landform(s): stream terraces

Slope gradient: 2 to 6 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 1

Wind erodibility index (WEI): 250

Kw factor (surface layer) .10

Land capability, nonirrigated: 4s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 12 in	fine sand	rapid	0.71 to 1.06 in	5.1 to 7.3
Bw -- 12 to 38 in	fine sand	rapid	1.30 to 2.86 in	5.1 to 7.3
C -- 38 to 60 in	fine sand	rapid	0.88 to 1.54 in	5.1 to 7.8

HdB2--Sparta fine sand, 2 to 6 percent slopes

Sparta

Extent: 90 percent of the unit

Landform(s): stream terraces

Slope gradient: 2 to 6 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 1

Wind erodibility index (WEI): 250

Kw factor (surface layer) .10

Land capability, nonirrigated: 4s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 12 in	fine sand	rapid	0.71 to 1.06 in	5.1 to 7.3
Bw -- 12 to 38 in	fine sand	rapid	1.30 to 2.86 in	5.1 to 7.3
C -- 38 to 60 in	fine sand	rapid	0.88 to 1.54 in	5.1 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

HdC--Sparta fine sand, 6 to 12 percent slopes

Sparta

<p><i>Extent:</i> 90 percent of the unit</p> <p><i>Landform(s):</i> stream terraces</p> <p><i>Slope gradient:</i> 6 to 12 percent</p> <p><i>Parent material:</i> outwash</p> <p><i>Restrictive feature(s):</i> greater than 60 inches</p> <p><i>Flooding:</i> none</p> <p><i>Ponding:</i> none</p> <p><i>Drainage class:</i> excessively drained</p>	<p><i>Soil loss tolerance (T factor):</i> 5</p> <p><i>Wind erodibility group (WEG):</i> 1</p> <p><i>Wind erodibility index (WEI):</i> 250</p> <p><i>Kw factor (surface layer)</i> .10</p> <p><i>Land capability, nonirrigated:</i> 6s</p> <p><i>Hydric soil:</i> no</p> <p><i>Hydrologic group:</i> A</p> <p><i>Potential for frost action:</i> low</p>
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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 12 in	fine sand	rapid	0.71 to 1.06 in	5.1 to 7.3
Bw -- 12 to 38 in	fine sand	rapid	1.30 to 2.86 in	5.1 to 7.3
C -- 38 to 60 in	fine sand	rapid	0.88 to 1.54 in	5.1 to 7.8

HdC2--Sparta fine sand, 6 to 12 percent slopes

Sparta

<p><i>Extent:</i> 90 percent of the unit</p> <p><i>Landform(s):</i> stream terraces</p> <p><i>Slope gradient:</i> 6 to 12 percent</p> <p><i>Parent material:</i> outwash</p> <p><i>Restrictive feature(s):</i> greater than 60 inches</p> <p><i>Flooding:</i> none</p> <p><i>Ponding:</i> none</p> <p><i>Drainage class:</i> excessively drained</p>	<p><i>Soil loss tolerance (T factor):</i> 5</p> <p><i>Wind erodibility group (WEG):</i> 1</p> <p><i>Wind erodibility index (WEI):</i> 250</p> <p><i>Kw factor (surface layer)</i> .10</p> <p><i>Land capability, nonirrigated:</i> 6s</p> <p><i>Hydric soil:</i> no</p> <p><i>Hydrologic group:</i> A</p> <p><i>Potential for frost action:</i> low</p>
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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 12 in	fine sand	rapid	0.71 to 1.06 in	5.1 to 7.3
Bw -- 12 to 38 in	fine sand	rapid	1.30 to 2.86 in	5.1 to 7.3
C -- 38 to 60 in	fine sand	rapid	0.88 to 1.54 in	5.1 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

HeA--Sparta loamy fine sand, 0 to 2 percent slopes

Sparta

Extent: 90 percent of the unit

Landform(s): stream terraces

Slope gradient: 0 to 2 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .32

Land capability, nonirrigated: 4s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 10 in	loamy fine sand	moderately rapid	0.89 to 1.18 in	5.1 to 7.3
Bw -- 10 to 38 in	fine sand	rapid	1.40 to 3.07 in	5.1 to 7.3
C -- 38 to 60 in	fine sand	rapid	0.88 to 1.54 in	5.1 to 7.8

HeB--Sparta loamy fine sand, 2 to 6 percent slopes

Sparta

Extent: 90 percent of the unit

Landform(s): stream terraces

Slope gradient: 2 to 6 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .32

Land capability, nonirrigated: 4s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	loamy fine sand	moderately rapid	0.89 to 1.18 in	5.1 to 7.3
Bw -- 10 to 38 in	fine sand, fine sand	rapid	1.40 to 3.07 in	5.1 to 7.3
C -- 38 to 60 in	fine sand, fine sand	rapid	0.88 to 1.54 in	5.1 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

HeB2--Sparta loamy fine sand, 2 to 6 percent slopes

Sparta

Extent: 90 percent of the unit

Landform(s): stream terraces

Slope gradient: 2 to 6 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .32

Land capability, nonirrigated: 4s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	loamy fine sand	moderately rapid	0.89 to 1.18 in	5.1 to 7.3
Bw -- 10 to 38 in	fine sand	rapid	1.40 to 3.07 in	5.1 to 7.3
C -- 38 to 60 in	fine sand	rapid	0.88 to 1.54 in	5.1 to 7.8

HeC--Sparta loamy fine sand, 6 to 12 percent slopes

Sparta

Extent: 90 percent of the unit

Landform(s): stream terraces

Slope gradient: 6 to 12 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .32

Land capability, nonirrigated: 6s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	loamy fine sand	moderately rapid	0.89 to 1.18 in	5.1 to 7.3
Bw -- 10 to 38 in	fine sand	rapid	1.40 to 3.07 in	5.1 to 7.3
C -- 38 to 60 in	fine sand	rapid	0.88 to 1.54 in	5.1 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

HeC2--Sparta loamy fine sand, 6 to 12 percent slopes

Sparta

Extent: 90 percent of the unit

Landform(s): stream terraces

Slope gradient: 6 to 12 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .32

Land capability, nonirrigated: 6s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	loamy fine sand	moderately rapid	0.89 to 1.18 in	5.1 to 7.3
Bw -- 10 to 38 in	fine sand	rapid	1.40 to 3.07 in	5.1 to 7.3
C -- 38 to 60 in	fine sand	rapid	0.88 to 1.54 in	5.1 to 7.8

la--Isanti fine sandy loam

Isanti

Extent: 85 percent of the unit

Landform(s): swales on stream terraces

Slope gradient: 0 to 2 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated: 4w

Hydric soil: yes

Hydrologic group: A/D

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 26 in	fine sandy loam	rapid	3.38 to 4.68 in	5.1 to 6.5
Bg -- 26 to 31 in	loamy fine sand	rapid	0.31 to 0.41 in	5.1 to 6.5
Cg -- 31 to 60 in	fine sand	rapid	1.44 to 2.01 in	5.6 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

INT--Water, intermittent

Water, intermittent

Extent: 100 percent of the unit

Landform(s):

Slope gradient:

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG): 8

Wind erodibility index (WEI): 0

Kw factor (surface layer)

Land capability, nonirrigated:

Hydric soil:

Hydrologic group:

Potential for frost action:

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
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KaA--Kasota silt loam, 0 to 2 percent slopes

Kasota

Extent: 85 percent of the unit

Landform(s): stream terraces

Slope gradient: 0 to 2 percent

Parent material: glaciofluvial sediments over outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .37

Land capability, nonirrigated: 2s

Hydric soil: no

Hydrologic group: C

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 14 in	silt loam	moderate	2.83 to 3.40 in	5.6 to 7.3
Bt -- 14 to 27 in	clay loam	moderately slow	1.51 to 2.27 in	5.6 to 6.5
2C -- 27 to 60 in	gravelly sand	rapid	0.66 to 1.98 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

KaB--Kasota silt loam, 2 to 6 percent slopes

Kasota

Extent: 85 percent of the unit

Landform(s): stream terraces

Slope gradient: 2 to 6 percent

Parent material: glaciofluvial sediments over outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .37

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: C

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 14 in	silt loam	moderate	2.83 to 3.40 in	5.6 to 7.3
Bt -- 14 to 27 in	clay loam	moderately slow	1.51 to 2.27 in	5.6 to 6.5
2C -- 27 to 60 in	gravelly sand	rapid	0.66 to 1.98 in	7.4 to 8.4

LaA--Wadena loam, 0 to 2 percent slopes

Wadena

Extent: 90 percent of the unit

Landform(s): outwash plains, moraines

Slope gradient: 0 to 2 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated: 2s

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 16 in	loam	moderate	3.23 to 3.55 in	6.1 to 7.3
Bw -- 16 to 25 in	loam	moderate	1.27 to 1.72 in	5.6 to 7.3
2C -- 25 to 60 in	gravelly coarse sand	very rapid	0.69 to 1.39 in	6.6 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

LaB--Estherville loam, 2 to 6 percent slopes

Estherville

Extent: 90 percent of the unit

Landform(s): outwash plains, moraines

Slope gradient: 2 to 6 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .32

Land capability, nonirrigated: 3s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 12 in	loam	moderately rapid	2.24 to 2.60 in	5.6 to 7.3
Bw -- 12 to 20 in	loam	moderately rapid	1.07 to 1.49 in	5.6 to 7.3
2C -- 20 to 60 in	gravelly coarse sand	rapid	0.80 to 1.59 in	6.6 to 8.4

LaB2--Estherville loam, 2 to 6 percent slopes, moderately eroded

Estherville, moderately eroded

Extent: 90 percent of the unit

Landform(s): outwash plains, moraines

Slope gradient: 2 to 6 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .32

Land capability, nonirrigated: 3s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	loam	moderately rapid	1.87 to 2.17 in	5.6 to 7.3
Bw -- 10 to 18 in	loam	moderately rapid	1.07 to 1.49 in	5.6 to 7.3
2C -- 18 to 60 in	gravelly coarse sand	rapid	0.83 to 1.67 in	6.6 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

LaC--Estherville loam, 6 to 12 percent slopes

Estherville

Extent: 90 percent of the unit

Landform(s): outwash plains, moraines

Slope gradient: 6 to 12 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .32

Land capability, nonirrigated: 4s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	loam	moderately rapid	1.87 to 2.17 in	5.6 to 7.3
Bw -- 10 to 18 in	loam	moderately rapid	1.07 to 1.49 in	5.6 to 7.3
2C -- 18 to 60 in	gravelly coarse sand	rapid	0.83 to 1.67 in	6.6 to 8.4

LaC2--Estherville loam, 6 to 12 percent slopes, moderately eroded

Estherville, moderately eroded

Extent: 90 percent of the unit

Landform(s): outwash plains, moraines

Slope gradient: 6 to 12 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .32

Land capability, nonirrigated: 4s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	loam	moderately rapid	1.87 to 2.17 in	5.6 to 7.3
Bw -- 10 to 16 in	loam	moderately rapid	0.82 to 1.13 in	5.6 to 7.3
2C -- 16 to 60 in	gravelly coarse sand	rapid	0.87 to 1.75 in	6.6 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

LaD--Estherville loam, 12 to 18 percent slopes

Estherville

<p><i>Extent:</i> 90 percent of the unit</p> <p><i>Landform(s):</i> outwash plains, moraines</p> <p><i>Slope gradient:</i> 12 to 18 percent</p> <p><i>Parent material:</i> outwash</p> <p><i>Restrictive feature(s):</i> greater than 60 inches</p> <p><i>Flooding:</i> none</p> <p><i>Ponding:</i> none</p> <p><i>Drainage class:</i> somewhat excessively drained</p>	<p><i>Soil loss tolerance (T factor):</i> 2</p> <p><i>Wind erodibility group (WEG):</i> 5</p> <p><i>Wind erodibility index (WEI):</i> 56</p> <p><i>Kw factor (surface layer)</i> .32</p> <p><i>Land capability, nonirrigated:</i> 6e</p> <p><i>Hydric soil:</i> no</p> <p><i>Hydrologic group:</i> A</p> <p><i>Potential for frost action:</i> low</p>
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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	loam	moderately rapid	1.87 to 2.17 in	5.6 to 7.3
Bw -- 10 to 16 in	loam	moderately rapid	0.82 to 1.13 in	5.6 to 7.3
2C -- 16 to 60 in	gravelly coarse sand	rapid	0.87 to 1.75 in	6.6 to 8.4

LaD2--Estherville loam, 12 to 18 percent slopes, moderately eroded

Estherville, moderately eroded

<p><i>Extent:</i> 90 percent of the unit</p> <p><i>Landform(s):</i> outwash plains, moraines</p> <p><i>Slope gradient:</i> 12 to 18 percent</p> <p><i>Parent material:</i> outwash</p> <p><i>Restrictive feature(s):</i> greater than 60 inches</p> <p><i>Flooding:</i> none</p> <p><i>Ponding:</i> none</p> <p><i>Drainage class:</i> somewhat excessively drained</p>	<p><i>Soil loss tolerance (T factor):</i> 2</p> <p><i>Wind erodibility group (WEG):</i> 5</p> <p><i>Wind erodibility index (WEI):</i> 56</p> <p><i>Kw factor (surface layer)</i> .32</p> <p><i>Land capability, nonirrigated:</i> 6e</p> <p><i>Hydric soil:</i> no</p> <p><i>Hydrologic group:</i> A</p> <p><i>Potential for frost action:</i> low</p>
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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	loam	moderately rapid	1.50 to 1.73 in	5.6 to 7.3
Bw -- 8 to 14 in	loam	moderately rapid	0.82 to 1.13 in	5.6 to 7.3
2C -- 14 to 60 in	gravelly coarse sand	rapid	0.91 to 1.83 in	6.6 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

LbB--Estherville-Burnsville complex, 2 to 6 percent slopes

Estherville

Extent: 55 percent of the unit
Landform(s): outwash plains, moraines
Slope gradient: 2 to 6 percent
Parent material: outwash
Restrictive feature(s): greater than 60 inches
Flooding: none
Ponding: none
Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 2
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw factor (surface layer) .24
Land capability, nonirrigated: 3s
Hydric soil: no
Hydrologic group: A
Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	sandy loam	moderately rapid	1.28 to 1.77 in	5.6 to 7.3
Bw -- 10 to 18 in	sandy loam	moderately rapid	1.07 to 1.49 in	5.6 to 7.3
2C -- 18 to 60 in	gravelly coarse sand	rapid	0.83 to 1.67 in	6.6 to 8.4

Burnsville

Extent: 40 percent of the unit
Landform(s): outwash plains, moraines
Slope gradient: 2 to 6 percent
Parent material: outwash
Restrictive feature(s): greater than 60 inches
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw factor (surface layer) .28
Land capability, nonirrigated: 3s
Hydric soil: no
Hydrologic group: A
Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 5 in	sandy loam	moderately rapid	0.51 to 0.82 in	5.6 to 7.3
Bt -- 5 to 21 in	sandy loam	moderately rapid	1.89 to 2.20 in	5.6 to 7.3
2C -- 21 to 60 in	gravelly coarse sand	rapid	0.78 to 1.56 in	6.6 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

LbB2--Estherville-Burnsville complex, 2 to 6 percent slopes, moderately eroded

Estherville, moderately eroded

Extent: 55 percent of the unit
Landform(s): outwash plains, moraines
Slope gradient: 2 to 6 percent
Parent material: outwash
Restrictive feature(s): greater than 60 inches
Flooding: none
Ponding: none
Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 2
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw factor (surface layer) .24
Land capability, nonirrigated: 3s
Hydric soil: no
Hydrologic group: A
Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	sandy loam	moderately rapid	1.28 to 1.77 in	5.6 to 7.3
Bw -- 10 to 18 in	sandy loam	moderately rapid	1.07 to 1.49 in	5.6 to 7.3
2C -- 18 to 60 in	gravelly coarse sand	rapid	0.83 to 1.67 in	6.6 to 8.4

Burnsville, moderately eroded

Extent: 40 percent of the unit
Landform(s): outwash plains, moraines
Slope gradient: 2 to 6 percent
Parent material: outwash
Restrictive feature(s): greater than 60 inches
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw factor (surface layer) .28
Land capability, nonirrigated: 3s
Hydric soil: no
Hydrologic group: A
Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 5 in	sandy loam	moderately rapid	0.51 to 0.82 in	5.6 to 7.3
Bt -- 5 to 21 in	sandy loam	moderately rapid	1.89 to 2.20 in	5.6 to 7.3
2C -- 21 to 60 in	gravelly coarse sand	rapid	0.78 to 1.56 in	6.6 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

LbC--Estherville-Burnsville complex, 6 to 12 percent slopes

Estherville

Extent: 55 percent of the unit
Landform(s): outwash plains, moraines
Slope gradient: 6 to 12 percent
Parent material: outwash
Restrictive feature(s): greater than 60 inches
Flooding: none
Ponding: none
Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 2
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw factor (surface layer) .24
Land capability, nonirrigated: 4s
Hydric soil: no
Hydrologic group: A
Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	sandy loam	moderately rapid	1.28 to 1.77 in	5.6 to 7.3
Bw -- 10 to 18 in	sandy loam	moderately rapid	1.07 to 1.49 in	5.6 to 7.3
2C -- 18 to 60 in	gravelly coarse sand	rapid	0.83 to 1.67 in	6.6 to 8.4

Burnsville

Extent: 40 percent of the unit
Landform(s): outwash plains, moraines
Slope gradient: 6 to 12 percent
Parent material: outwash
Restrictive feature(s): greater than 60 inches
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw factor (surface layer) .28
Land capability, nonirrigated: 4e
Hydric soil: no
Hydrologic group: A
Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 5 in	sandy loam	moderately rapid	0.51 to 0.82 in	5.6 to 7.3
Bt -- 5 to 21 in	sandy loam	moderately rapid	1.89 to 2.20 in	5.6 to 7.3
2C -- 21 to 60 in	gravelly coarse sand	rapid	0.78 to 1.56 in	6.6 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

LbC2--Estherville-Burnsville complex, 6 to 12 percent slopes, moderately eroded

Estherville, moderately eroded

Extent: 55 percent of the unit
Landform(s): outwash plains, moraines
Slope gradient: 6 to 12 percent
Parent material: outwash
Restrictive feature(s): greater than 60 inches
Flooding: none
Ponding: none
Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 2
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw factor (surface layer) .24
Land capability, nonirrigated: 4s
Hydric soil: no
Hydrologic group: A
Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	sandy loam	moderately rapid	1.28 to 1.77 in	5.6 to 7.3
Bw -- 10 to 18 in	sandy loam	moderately rapid	1.07 to 1.49 in	5.6 to 7.3
2C -- 18 to 60 in	gravelly coarse sand	rapid	0.83 to 1.67 in	6.6 to 8.4

Burnsville, moderately eroded

Extent: 40 percent of the unit
Landform(s): outwash plains, moraines
Slope gradient: 6 to 12 percent
Parent material: outwash
Restrictive feature(s): greater than 60 inches
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw factor (surface layer) .28
Land capability, nonirrigated: 4e
Hydric soil: no
Hydrologic group: A
Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 5 in	sandy loam	moderately rapid	0.51 to 0.82 in	5.6 to 7.3
Bt -- 5 to 21 in	sandy loam	moderately rapid	1.89 to 2.20 in	5.6 to 7.3
2C -- 21 to 60 in	gravelly coarse sand	rapid	0.78 to 1.56 in	6.6 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

LbD--Estherville-Burnsville complex, 12 to 50 percent slopes

Estherville

Extent: 55 percent of the unit
Landform(s): outwash plains, moraines
Slope gradient: 12 to 50 percent
Parent material: outwash
Restrictive feature(s): greater than 60 inches
Flooding: none
Ponding: none
Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 2
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw factor (surface layer) .24
Land capability, nonirrigated: 6e
Hydric soil: no
Hydrologic group: A
Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	sandy loam	moderately rapid	1.28 to 1.77 in	5.6 to 7.3
Bw -- 10 to 18 in	sandy loam	moderately rapid	1.07 to 1.49 in	5.6 to 7.3
2C -- 18 to 60 in	gravelly coarse sand	rapid	0.83 to 1.67 in	6.6 to 8.4

Burnsville

Extent: 40 percent of the unit
Landform(s): outwash plains, moraines
Slope gradient: 12 to 50 percent
Parent material: outwash
Restrictive feature(s): greater than 60 inches
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw factor (surface layer) .28
Land capability, nonirrigated: 7e
Hydric soil: no
Hydrologic group: A
Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 5 in	sandy loam	moderately rapid	0.51 to 0.82 in	5.6 to 7.3
Bt -- 5 to 21 in	sandy loam	moderately rapid	1.89 to 2.20 in	5.6 to 7.3
2C -- 21 to 60 in	gravelly coarse sand	rapid	0.78 to 1.56 in	6.6 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

LcB--Lester loam, 2 to 6 percent slopes

Lester

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 2 to 6 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 9 to 38 in	clay loam	moderate	4.31 to 5.46 in	5.1 to 7.3
C -- 38 to 60 in	loam	moderate	3.09 to 4.19 in	7.4 to 8.4

LcB2--Lester loam, 2 to 6 percent slopes, moderately eroded

Lester, moderately eroded

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 2 to 6 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 9 to 38 in	clay loam	moderate	4.31 to 5.46 in	5.1 to 7.3
C -- 38 to 60 in	loam	moderate	3.09 to 4.19 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

LcC--Lester loam, 6 to 12 percent slopes

Lester

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 9 to 38 in	clay loam	moderate	4.31 to 5.46 in	5.1 to 7.3
C -- 38 to 60 in	loam	moderate	3.09 to 4.19 in	7.4 to 8.4

LcC2--Lester loam, 6 to 12 percent slopes, moderately eroded

Lester, moderately eroded

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 9 to 38 in	clay loam	moderate	4.31 to 5.46 in	5.1 to 7.3
C -- 38 to 60 in	loam	moderate	3.09 to 4.19 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

LcD--Lester loam, 12 to 18 percent slopes

Lester

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 12 to 18 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 9 to 38 in	clay loam	moderate	4.31 to 5.46 in	5.1 to 7.3
C -- 38 to 60 in	loam	moderate	3.09 to 4.19 in	7.4 to 8.4

LcD2--Lester loam, 12 to 18 percent slopes, moderately eroded

Lester, moderately eroded

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 12 to 18 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 9 to 38 in	clay loam	moderate	4.31 to 5.46 in	5.1 to 7.3
C -- 38 to 60 in	loam	moderate	3.09 to 4.19 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

LcE2--Lester loam, 18 to 25 percent slopes

Lester, moderately eroded

Extent: 90 percent of the unit

Landform(s): moraines

Slope gradient: 18 to 25 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 6e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 9 to 38 in	clay loam	moderate	4.31 to 5.46 in	5.1 to 7.3
C -- 38 to 60 in	loam	moderate	3.09 to 4.19 in	7.4 to 8.4

LcF2--Lester loam, 25 to 35 percent slopes

Lester

Extent: 100 percent of the unit

Landform(s): moraines

Slope gradient: 25 to 35 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 7e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 9 to 38 in	clay loam	moderate	4.31 to 5.46 in	5.1 to 7.3
C -- 38 to 60 in	loam	moderate	3.09 to 4.19 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

LdC3--Lester soils, 6 to 12 percent slopes, severely eroded

Lester, severely eroded

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated: 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	clay loam	moderate	1.54 to 1.72 in	5.6 to 7.3
Bt -- 9 to 26 in	clay loam	moderate	2.54 to 3.22 in	5.1 to 7.3
C -- 26 to 60 in	loam	moderate	4.74 to 6.43 in	7.4 to 8.4

LdD3--Lester soils, 12 to 18 percent slopes, severely eroded

Lester, severely eroded

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 12 to 18 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated: 6e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	clay loam	moderate	1.54 to 1.72 in	5.6 to 7.3
Bt -- 9 to 26 in	clay loam	moderate	2.54 to 3.22 in	5.1 to 7.3
C -- 26 to 60 in	loam	moderate	4.74 to 6.43 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

LdE3--Lester soils, 18 to 25 percent slopes

Lester, severely eroded

Extent: 90 percent of the unit

Landform(s): moraines

Slope gradient: 18 to 25 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated: 7e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	clay loam	moderate	1.54 to 1.72 in	5.6 to 7.3
Bt -- 9 to 26 in	clay loam	moderate	2.54 to 3.22 in	5.1 to 7.3
C -- 26 to 60 in	loam	moderate	4.74 to 6.43 in	7.4 to 8.4

LdF3--Lester soils, 25 to 35 percent slopes

Lester

Extent: 100 percent of the unit

Landform(s): moraines

Slope gradient: 25 to 35 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated: 7e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	clay loam	moderate	1.54 to 1.72 in	5.6 to 7.3
Bt -- 9 to 26 in	clay loam	moderate	2.54 to 3.22 in	5.1 to 7.3
C -- 26 to 60 in	loam	moderate	4.74 to 6.43 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

Le--Le Sueur loam

Le Sueur

Extent: 90 percent of the unit

Landform(s): moraines

Slope gradient: 1 to 3 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated: 1

Hydric soil: no

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 17 in	loam	moderate	3.39 to 4.06 in	5.6 to 7.3
Bt -- 17 to 35 in	clay loam	moderate	2.72 to 3.44 in	5.1 to 7.3
C -- 35 to 60 in	loam	moderate	3.72 to 4.71 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

Lf--Le Sueur-Lester complex

Le Sueur

<p><i>Extent:</i> 55 percent of the unit</p> <p><i>Landform(s):</i> moraines</p> <p><i>Slope gradient:</i> 1 to 3 percent</p> <p><i>Parent material:</i> till</p> <p><i>Restrictive feature(s):</i> greater than 60 inches</p> <p><i>Flooding:</i> none</p> <p><i>Ponding:</i> none</p> <p><i>Drainage class:</i> moderately well drained</p>	<p><i>Soil loss tolerance (T factor):</i> 5</p> <p><i>Wind erodibility group (WEG):</i> 6</p> <p><i>Wind erodibility index (WEI):</i> 48</p> <p><i>Kw factor (surface layer)</i> .28</p> <p><i>Land capability, nonirrigated:</i> 1</p> <p><i>Hydric soil:</i> no</p> <p><i>Hydrologic group:</i> B/D</p> <p><i>Potential for frost action:</i> high</p>
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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 13 in	loam	moderate	2.60 to 3.12 in	5.6 to 7.3
Bt -- 13 to 50 in	clay loam	moderate	5.55 to 7.03 in	5.1 to 7.3
C -- 50 to 60 in	loam	moderate	1.48 to 1.87 in	7.4 to 8.4

Lester

<p><i>Extent:</i> 35 percent of the unit</p> <p><i>Landform(s):</i> moraines</p> <p><i>Slope gradient:</i> 2 to 5 percent</p> <p><i>Parent material:</i> till</p> <p><i>Restrictive feature(s):</i> greater than 60 inches</p> <p><i>Flooding:</i> none</p> <p><i>Ponding:</i> none</p> <p><i>Drainage class:</i> well drained</p>	<p><i>Soil loss tolerance (T factor):</i> 5</p> <p><i>Wind erodibility group (WEG):</i> 6</p> <p><i>Wind erodibility index (WEI):</i> 48</p> <p><i>Kw factor (surface layer)</i> .32</p> <p><i>Land capability, nonirrigated:</i> 2e</p> <p><i>Hydric soil:</i> no</p> <p><i>Hydrologic group:</i> B</p> <p><i>Potential for frost action:</i> moderate</p>
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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam, loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 9 to 38 in	clay loam, clay loam	moderate	4.31 to 5.46 in	5.1 to 7.3
C -- 38 to 60 in	loam	moderate	3.09 to 4.19 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

M-W--Water, miscellaneous

Water, miscellaneous

Extent: 100 percent of the unit

Landform(s):

Slope gradient:

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding:

Ponding:

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Hydric soil:

Hydrologic group:

Potential for frost action:

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
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Ma--Marsh

Marsh

Extent: 100 percent of the unit

Landform(s): marshes

Slope gradient: 0 to 1 percent

Parent material: organic material

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 8

Wind erodibility index (WEI): 0

Kw factor (surface layer) .02

Land capability, nonirrigated: 8w

Hydric soil: yes

Hydrologic group: A/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Oa1 -- 0 to 9 in	muck	moderately rapid	3.17 to 4.07 in	
Oa2 -- 9 to 60 in	muck	moderately rapid	17.78 to 22.85 in	

Map Unit Description (MN)

Scott County, Minnesota

Oa--Oshawa silty clay loam

Oshawa

Extent: 95 percent of the unit

Landform(s): oxbows on flood plains

Slope gradient: 0 to 1 percent

Parent material: alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .32

Land capability, nonirrigated: 6w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 20 in	silty clay loam	moderately slow	3.61 to 4.42 in	7.4 to 7.8
Cg -- 20 to 60 in	silty clay loam	moderately slow	6.76 to 7.56 in	7.4 to 7.8

PaA--Palms muck, 0 to 2 percent slopes

Palms

Extent: 85 percent of the unit

Landform(s): depressions on moraines

Slope gradient: 0 to 2 percent

Parent material: organic material over loamy sediments

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 1

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .02

Land capability, nonirrigated: 3w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Oap -- 0 to 24 in	muck	moderately rapid	8.41 to 10.81 in	
Cg -- 24 to 60 in	clay loam	moderate	5.02 to 7.88 in	

Map Unit Description (MN)

Scott County, Minnesota

PaB--Palms muck, sloping, 2 to 12 percent slopes

Palms, sloping

Extent: 85 percent of the unit

Landform(s): toes on bluffs

Slope gradient: 2 to 12 percent

Parent material: organic material over loamy sediments

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: very poorly drained

Soil loss tolerance (T factor): 1

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .02

Land capability, nonirrigated: 7w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Oa -- 0 to 24 in	muck	moderately rapid	8.41 to 10.81 in	
Cg -- 24 to 60 in	clay loam	moderate	5.02 to 7.88 in	

PbA--Houghton muck, 0 to 2 percent slopes

Houghton

Extent: 90 percent of the unit

Landform(s): depressions on moraines

Slope gradient: 0 to 2 percent

Parent material: organic material

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .02

Land capability, nonirrigated: 3w

Hydric soil: yes

Hydrologic group: A/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Oap -- 0 to 10 in	muck	moderately rapid	3.44 to 4.43 in	
Oa -- 10 to 60 in	muck	moderately rapid	17.50 to 22.50 in	

Map Unit Description (MN)

Scott County, Minnesota

PbB--Houghton muck, sloping, 2 to 6 percent slopes

Houghton, sloping

Extent: 90 percent of the unit

Landform(s): toes on bluffs

Slope gradient: 2 to 6 percent

Parent material: organic material

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: very poorly drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .02

Land capability, nonirrigated: 6w

Hydric soil: yes

Hydrologic group: A/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Oa1 -- 0 to 10 in	muck	moderately rapid	3.44 to 4.43 in	
Oa2 -- 10 to 60 in	muck	moderately rapid	17.50 to 22.50 in	

Ra--Oshawa silty clay loam

Oshawa

Extent: 90 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 1 percent

Parent material: alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent

Ponding: none

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .32

Land capability, nonirrigated: 6w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 20 in	silty clay loam	moderately slow	3.61 to 4.42 in	7.4 to 7.8
Cg -- 20 to 60 in	silty clay loam	moderately slow	6.76 to 7.56 in	7.4 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

Sa--Sandstone outcrops

Rock outcrop, sandstone

Extent: 100 percent of the unit

Landform(s): terraces

Slope gradient:

Parent material: residuum

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Hydric soil: no

Hydrologic group:

Potential for frost action:

Representative soil profile:

Texture

Permeability

*Available water
capacity*

pH

Sb--Steep land, Hayden-Lester materials

Steep land

Extent: 100 percent of the unit

Landform(s): escarpments

Slope gradient:

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Hydric soil: no

Hydrologic group:

Potential for frost action:

Representative soil profile:

Texture

Permeability

*Available water
capacity*

pH

Map Unit Description (MN)

Scott County, Minnesota

Sc--Stony land

Stony land

Extent: 100 percent of the unit

Landform(s): terraces

Slope gradient:

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Hydric soil: no

Hydrologic group:

Potential for frost action:

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
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Ta--Terrace escarpments

Terrace escarpments

Extent: 100 percent of the unit

Landform(s): escarpments on terraces

Slope gradient:

Parent material: variable glacial sediments

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Hydric soil: no

Hydrologic group:

Potential for frost action:

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
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Map Unit Description (MN)

Scott County, Minnesota

TbB--Terril loam, 2 to 6 percent slopes

Terril

<i>Extent:</i> 90 percent of the unit	<i>Soil loss tolerance (T factor):</i> 5
<i>Landform(s):</i> moraines, stream terraces	<i>Wind erodibility group (WEG):</i> 6
<i>Slope gradient:</i> 2 to 6 percent	<i>Wind erodibility index (WEI):</i> 48
<i>Parent material:</i> colluvium over till	<i>Kw factor (surface layer)</i> .28
<i>Restrictive feature(s):</i> greater than 60 inches	<i>Land capability, nonirrigated:</i> 2e
<i>Flooding:</i> none	<i>Hydric soil:</i> no
<i>Ponding:</i> none	<i>Hydrologic group:</i> B
<i>Drainage class:</i> moderately well drained	<i>Potential for frost action:</i> moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A1 -- 0 to 39 in	loam	moderate	7.80 to 8.57 in	6.1 to 7.3
Bw -- 39 to 47 in	loam	moderate	1.02 to 1.50 in	6.1 to 7.3
C -- 47 to 60 in	loam	moderate	1.43 to 2.34 in	6.1 to 7.8

TbC--Terril loam, 6 to 12 percent slopes

Terril

<i>Extent:</i> 90 percent of the unit	<i>Soil loss tolerance (T factor):</i> 5
<i>Landform(s):</i> moraines, stream terraces	<i>Wind erodibility group (WEG):</i> 6
<i>Slope gradient:</i> 6 to 12 percent	<i>Wind erodibility index (WEI):</i> 48
<i>Parent material:</i> colluvium over till	<i>Kw factor (surface layer)</i> .28
<i>Restrictive feature(s):</i> greater than 60 inches	<i>Land capability, nonirrigated:</i> 3e
<i>Flooding:</i> none	<i>Hydric soil:</i> no
<i>Ponding:</i> none	<i>Hydrologic group:</i> B
<i>Drainage class:</i> moderately well drained	<i>Potential for frost action:</i> moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A1 -- 0 to 39 in	loam	moderate	7.80 to 8.57 in	6.1 to 7.3
Bw -- 39 to 47 in	loam	moderate	1.02 to 1.50 in	6.1 to 7.3
C -- 47 to 60 in	loam	moderate	1.43 to 2.34 in	6.1 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

TbD--Terril loam, 12 to 18 percent slopes

Terril

<i>Extent:</i> 100 percent of the unit	<i>Soil loss tolerance (T factor):</i> 5
<i>Landform(s):</i> moraines, stream terraces	<i>Wind erodibility group (WEG):</i> 6
<i>Slope gradient:</i> 12 to 18 percent	<i>Wind erodibility index (WEI):</i> 48
<i>Parent material:</i> colluvium over till	<i>Kw factor (surface layer)</i> .28
<i>Restrictive feature(s):</i> greater than 60 inches	<i>Land capability, nonirrigated:</i> 4e
<i>Flooding:</i> none	<i>Hydric soil:</i> no
<i>Ponding:</i> none	<i>Hydrologic group:</i> B
<i>Drainage class:</i> moderately well drained	<i>Potential for frost action:</i> moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A1 -- 0 to 39 in	loam	moderate	7.80 to 8.57 in	6.1 to 7.3
Bw -- 39 to 47 in	loam	moderate	1.02 to 1.50 in	6.1 to 7.3
C -- 47 to 60 in	loam	moderate	1.43 to 2.34 in	6.1 to 7.8

TbE--Terril loam, 18 to 25 percent slopes

Terril

<i>Extent:</i> 100 percent of the unit	<i>Soil loss tolerance (T factor):</i> 5
<i>Landform(s):</i> moraines, stream terraces	<i>Wind erodibility group (WEG):</i> 6
<i>Slope gradient:</i> 18 to 25 percent	<i>Wind erodibility index (WEI):</i> 48
<i>Parent material:</i> colluvium over till	<i>Kw factor (surface layer)</i> .28
<i>Restrictive feature(s):</i> greater than 60 inches	<i>Land capability, nonirrigated:</i> 6e
<i>Flooding:</i> none	<i>Hydric soil:</i> no
<i>Ponding:</i> none	<i>Hydrologic group:</i> B
<i>Drainage class:</i> moderately well drained	<i>Potential for frost action:</i> moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1,A2 -- 0 to 39 in	loam	moderate	7.80 to 8.57 in	6.1 to 7.3
Bw -- 39 to 47 in	loam	moderate	1.02 to 1.50 in	6.1 to 7.3
C -- 47 to 60 in	loam	moderate	1.43 to 2.34 in	6.1 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

TcA--Terril loam, 0 to 2 percent slopes

Terril

<p><i>Extent:</i> 85 percent of the unit</p> <p><i>Landform(s):</i> moraines, stream terraces</p> <p><i>Slope gradient:</i> 0 to 2 percent</p> <p><i>Parent material:</i> colluvium over till</p> <p><i>Restrictive feature(s):</i> greater than 60 inches</p> <p><i>Flooding:</i> none</p> <p><i>Ponding:</i> none</p> <p><i>Drainage class:</i> moderately well drained</p>	<p><i>Soil loss tolerance (T factor):</i> 5</p> <p><i>Wind erodibility group (WEG):</i> 6</p> <p><i>Wind erodibility index (WEI):</i> 48</p> <p><i>Kw factor (surface layer)</i> .28</p> <p><i>Land capability, nonirrigated:</i> 1</p> <p><i>Hydric soil:</i> no</p> <p><i>Hydrologic group:</i> B</p> <p><i>Potential for frost action:</i> moderate</p>
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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A1 -- 0 to 39 in	loam	moderate	7.80 to 8.57 in	6.1 to 7.3
Bw -- 39 to 47 in	loam	moderate	1.34 to 1.50 in	6.1 to 7.3
C -- 47 to 60 in	loam	moderate	2.08 to 2.34 in	6.1 to 7.8

TcB--Terril loam, 2 to 6 percent slopes

Terril

<p><i>Extent:</i> 85 percent of the unit</p> <p><i>Landform(s):</i> moraines, stream terraces</p> <p><i>Slope gradient:</i> 2 to 6 percent</p> <p><i>Parent material:</i> colluvium over till</p> <p><i>Restrictive feature(s):</i> greater than 60 inches</p> <p><i>Flooding:</i> none</p> <p><i>Ponding:</i> none</p> <p><i>Drainage class:</i> moderately well drained</p>	<p><i>Soil loss tolerance (T factor):</i> 5</p> <p><i>Wind erodibility group (WEG):</i> 6</p> <p><i>Wind erodibility index (WEI):</i> 48</p> <p><i>Kw factor (surface layer)</i> .28</p> <p><i>Land capability, nonirrigated:</i> 2e</p> <p><i>Hydric soil:</i> no</p> <p><i>Hydrologic group:</i> B</p> <p><i>Potential for frost action:</i> moderate</p>
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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A1 -- 0 to 39 in	loam	moderate	7.80 to 8.57 in	6.1 to 7.3
Bw -- 39 to 47 in	loam	moderate	1.34 to 1.50 in	6.1 to 7.3
C -- 47 to 60 in	loam	moderate	2.08 to 2.34 in	6.1 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

TcC--Terril loam, 6 to 12 percent slopes

Terril

<p><i>Extent:</i> 100 percent of the unit</p> <p><i>Landform(s):</i> moraines, stream terraces</p> <p><i>Slope gradient:</i> 6 to 12 percent</p> <p><i>Parent material:</i> colluvium over till</p> <p><i>Restrictive feature(s):</i> greater than 60 inches</p> <p><i>Flooding:</i> none</p> <p><i>Ponding:</i> none</p> <p><i>Drainage class:</i> moderately well drained</p>	<p><i>Soil loss tolerance (T factor):</i> 5</p> <p><i>Wind erodibility group (WEG):</i> 6</p> <p><i>Wind erodibility index (WEI):</i> 48</p> <p><i>Kw factor (surface layer)</i> .28</p> <p><i>Land capability, nonirrigated:</i> 3e</p> <p><i>Hydric soil:</i> no</p> <p><i>Hydrologic group:</i> B</p> <p><i>Potential for frost action:</i> moderate</p>
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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A1 -- 0 to 39 in	loam	moderate	7.80 to 8.57 in	6.1 to 7.3
Bw -- 39 to 47 in	loam	moderate	1.34 to 1.50 in	6.1 to 7.3
C -- 47 to 60 in	loam	moderate	2.08 to 2.34 in	6.1 to 7.8

TcD--Terril loam, 12 to 18 percent slopes

Terril

<p><i>Extent:</i> 100 percent of the unit</p> <p><i>Landform(s):</i> moraines, stream terraces</p> <p><i>Slope gradient:</i> 12 to 18 percent</p> <p><i>Parent material:</i> colluvium over till</p> <p><i>Restrictive feature(s):</i> greater than 60 inches</p> <p><i>Flooding:</i> none</p> <p><i>Ponding:</i> none</p> <p><i>Drainage class:</i> moderately well drained</p>	<p><i>Soil loss tolerance (T factor):</i> 5</p> <p><i>Wind erodibility group (WEG):</i> 6</p> <p><i>Wind erodibility index (WEI):</i> 48</p> <p><i>Kw factor (surface layer)</i> .28</p> <p><i>Land capability, nonirrigated:</i> 4e</p> <p><i>Hydric soil:</i> no</p> <p><i>Hydrologic group:</i> B</p> <p><i>Potential for frost action:</i> moderate</p>
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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A1 -- 0 to 39 in	loam	moderate	7.80 to 8.57 in	6.1 to 7.3
Bw -- 39 to 47 in	loam	moderate	1.34 to 1.50 in	6.1 to 7.3
C -- 47 to 60 in	loam	moderate	2.08 to 2.34 in	6.1 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

TcE--Terril loam, 18 to 25 percent slopes

Terril

<i>Extent:</i> 100 percent of the unit	<i>Soil loss tolerance (T factor):</i> 5
<i>Landform(s):</i> moraines, stream terraces	<i>Wind erodibility group (WEG):</i> 6
<i>Slope gradient:</i> 18 to 25 percent	<i>Wind erodibility index (WEI):</i> 48
<i>Parent material:</i> colluvium over till	<i>Kw factor (surface layer)</i> .28
<i>Restrictive feature(s):</i> greater than 60 inches	<i>Land capability, nonirrigated:</i> 6e
<i>Flooding:</i> none	<i>Hydric soil:</i> no
<i>Ponding:</i> none	<i>Hydrologic group:</i> B
<i>Drainage class:</i> moderately well drained	<i>Potential for frost action:</i> moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1,A2 -- 0 to 39 in	loam	moderate	7.80 to 8.57 in	6.1 to 7.3
Bw -- 39 to 47 in	loam	moderate	1.34 to 1.50 in	6.1 to 7.3
C -- 47 to 60 in	loam	moderate	2.08 to 2.34 in	6.1 to 7.8

W--Water

Water

<i>Extent:</i> 100 percent of the unit	<i>Soil loss tolerance (T factor):</i>
<i>Landform(s):</i>	<i>Wind erodibility group (WEG):</i>
<i>Slope gradient:</i>	<i>Wind erodibility index (WEI):</i>
<i>Parent material:</i>	<i>Kw factor (surface layer)</i>
<i>Restrictive feature(s):</i> greater than 60 inches	<i>Land capability, nonirrigated:</i>
<i>Flooding:</i>	<i>Hydric soil:</i>
<i>Ponding:</i>	<i>Hydrologic group:</i>
<i>Drainage class:</i>	<i>Potential for frost action:</i>

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
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Map Unit Description (MN)

Scott County, Minnesota

WaA--Waukegan silt loam, 0 to 2 percent slopes

Waukegan

Extent: 90 percent of the unit

Landform(s): stream terraces

Slope gradient: 0 to 2 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .37

Land capability, nonirrigated: 2s

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 11 in	silt loam	moderate	2.43 to 2.65 in	5.6 to 7.3
Bw -- 11 to 31 in	silt loam	moderate	4.02 to 4.42 in	5.1 to 7.3
2C -- 31 to 60 in	gravelly sand	rapid	0.57 to 1.15 in	5.6 to 7.8

WaB--Waukegan silt loam, 2 to 6 percent slopes

Waukegan

Extent: 90 percent of the unit

Landform(s): stream terraces

Slope gradient: 2 to 6 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .37

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 11 in	silt loam	moderate	2.43 to 2.65 in	5.6 to 7.3
Bw -- 11 to 31 in	silt loam	moderate	4.02 to 4.42 in	5.1 to 7.3
2C -- 31 to 60 in	gravelly sand	rapid	0.57 to 1.15 in	5.6 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

WaB2--Waukegan silt loam, 2 to 6 percent slopes, moderately eroded

Waukegan, moderately eroded

Extent: 90 percent of the unit

Landform(s): stream terraces

Slope gradient: 2 to 6 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .37

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	silt loam	moderate	1.99 to 2.17 in	5.6 to 7.3
Bw -- 9 to 27 in	silt loam	moderate	3.54 to 3.90 in	5.1 to 7.3
2C -- 27 to 60 in	gravelly sand	rapid	0.66 to 1.32 in	5.6 to 7.8

WaC2--Waukegan silt loam, 6 to 12 percent slopes, moderately eroded

Waukegan, moderately eroded

Extent: 90 percent of the unit

Landform(s): stream terraces

Slope gradient: 6 to 12 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .37

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	silt loam	moderate	1.99 to 2.17 in	5.6 to 7.3
Bw -- 9 to 25 in	silt loam	moderate	3.23 to 3.55 in	5.1 to 7.3
2C -- 25 to 60 in	gravelly sand	rapid	0.69 to 1.39 in	5.6 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

WaD2--Waukegan silt loam, 12 to 18 percent slopes, moderately eroded

Waukegan, moderately eroded

Extent: 90 percent of the unit

Landform(s): stream terraces

Slope gradient: 12 to 18 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .37

Land capability, nonirrigated: 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

Representative soil profile:

		Texture	Permeability	Available water capacity	pH
Ap --	0 to 9 in	silt loam	moderate	1.99 to 2.17 in	5.6 to 7.3
Bw --	9 to 24 in	silt loam	moderate	2.99 to 3.29 in	5.1 to 7.3
2C --	24 to 60 in	gravelly sand	rapid	0.72 to 1.43 in	5.6 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

Wb--Webster-Glencoe silty clay loams

Webster

Extent: 70 percent of the unit

Landform(s): swales on moraines

Slope gradient: 0 to 2 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A1 -- 0 to 15 in	silty clay loam	moderate	2.84 to 3.14 in	6.6 to 7.3
Bg -- 15 to 30 in	clay loam	moderate	2.39 to 2.69 in	6.6 to 7.8
Cg -- 30 to 60 in	loam	moderate	4.19 to 5.69 in	7.4 to 8.4

Glencoe

Extent: 30 percent of the unit

Landform(s): depressions on moraines

Slope gradient: 0 to 1 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated: 3w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A1 -- 0 to 19 in	silty clay loam	moderate	3.40 to 4.16 in	6.1 to 7.8
Bg -- 19 to 33 in	clay loam	moderate	2.13 to 2.69 in	6.6 to 7.8
Cg -- 33 to 60 in	clay loam	moderate	4.02 to 5.09 in	6.6 to 7.8

Map Unit Description (MN)

Scott County, Minnesota

Wc--Webster-Le Sueur silty clay loams

Webster

<p><i>Extent:</i> 70 percent of the unit</p> <p><i>Landform(s):</i> swales on moraines</p> <p><i>Slope gradient:</i> 0 to 2 percent</p> <p><i>Parent material:</i> till</p> <p><i>Restrictive feature(s):</i> greater than 60 inches</p> <p><i>Flooding:</i> none</p> <p><i>Ponding:</i> none</p> <p><i>Drainage class:</i> poorly drained</p>	<p><i>Soil loss tolerance (T factor):</i> 5</p> <p><i>Wind erodibility group (WEG):</i> 6</p> <p><i>Wind erodibility index (WEI):</i> 48</p> <p><i>Kw factor (surface layer)</i> .28</p> <p><i>Land capability, nonirrigated:</i> 2w</p> <p><i>Hydric soil:</i> yes</p> <p><i>Hydrologic group:</i> B/D</p> <p><i>Potential for frost action:</i> high</p>
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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A1 -- 0 to 15 in	silty clay loam	moderate	2.84 to 3.14 in	6.6 to 7.3
Bg -- 15 to 30 in	clay loam	moderate	2.39 to 2.69 in	6.6 to 7.8
Cg -- 30 to 60 in	loam	moderate	4.19 to 5.69 in	7.4 to 8.4

Le Sueur

<p><i>Extent:</i> 30 percent of the unit</p> <p><i>Landform(s):</i> moraines</p> <p><i>Slope gradient:</i> 1 to 3 percent</p> <p><i>Parent material:</i> till</p> <p><i>Restrictive feature(s):</i> greater than 60 inches</p> <p><i>Flooding:</i> none</p> <p><i>Ponding:</i> none</p> <p><i>Drainage class:</i> moderately well drained</p>	<p><i>Soil loss tolerance (T factor):</i> 5</p> <p><i>Wind erodibility group (WEG):</i> 6</p> <p><i>Wind erodibility index (WEI):</i> 48</p> <p><i>Kw factor (surface layer)</i> .32</p> <p><i>Land capability, nonirrigated:</i> 1</p> <p><i>Hydric soil:</i> no</p> <p><i>Hydrologic group:</i> B/D</p> <p><i>Potential for frost action:</i> high</p>
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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 13 in	silty clay loam	moderate	2.21 to 2.60 in	5.6 to 7.3
Bt -- 13 to 50 in	clay loam	moderate	5.55 to 7.03 in	5.1 to 7.3
C -- 50 to 60 in	loam	moderate	1.48 to 1.87 in	7.4 to 8.4

Map Unit Description (MN)

Scott County, Minnesota

ZaA--Sartell fine sand, 0 to 2 percent slopes

Sartell

Extent: 90 percent of the unit

Landform(s): stream terraces

Slope gradient: 0 to 2 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 1

Wind erodibility index (WEI): 250

Kw factor (surface layer) .10

Land capability, nonirrigated: 4s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	fine sand	rapid	0.89 to 1.08 in	5.1 to 6.0
Bw -- 10 to 26 in	sand	rapid	0.97 to 1.61 in	5.1 to 6.0
C -- 26 to 60 in	sand	rapid	1.69 to 3.05 in	5.6 to 7.3

ZaA2--Sartell fine sand, 0 to 2 percent slopes, moderately eroded

Sartell, moderately eroded

Extent: 90 percent of the unit

Landform(s): stream terraces

Slope gradient: 0 to 2 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 1

Wind erodibility index (WEI): 250

Kw factor (surface layer) .10

Land capability, nonirrigated: 4s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	fine sand	rapid	0.89 to 1.08 in	5.1 to 6.0
Bw -- 10 to 26 in	sand	rapid	0.97 to 1.61 in	5.1 to 6.0
C -- 26 to 60 in	sand	rapid	1.69 to 3.05 in	5.6 to 7.3

Map Unit Description (MN)

Scott County, Minnesota

ZaB--Sartell fine sand, 2 to 6 percent slopes

Sartell

Extent: 90 percent of the unit

Landform(s): stream terraces

Slope gradient: 2 to 6 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 1

Wind erodibility index (WEI): 250

Kw factor (surface layer) .10

Land capability, nonirrigated: 4s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	fine sand	rapid	0.89 to 1.08 in	5.1 to 6.0
Bw -- 10 to 26 in	sand	rapid	0.97 to 1.61 in	5.1 to 6.0
C -- 26 to 60 in	sand	rapid	1.69 to 3.05 in	5.6 to 7.3

ZaB2--Sartell fine sand, 2 to 6 percent slopes, moderately eroded

Sartell, moderately eroded

Extent: 90 percent of the unit

Landform(s): stream terraces

Slope gradient: 2 to 6 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 1

Wind erodibility index (WEI): 250

Kw factor (surface layer) .10

Land capability, nonirrigated: 4s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	fine sand, fine sand	rapid	0.89 to 1.08 in	5.1 to 6.0
Bw -- 10 to 26 in	sand	rapid	0.97 to 1.61 in	5.1 to 6.0
C -- 26 to 60 in	sand	rapid	1.69 to 3.05 in	5.6 to 7.3

Map Unit Description (MN)

Scott County, Minnesota

ZaC2--Sartell fine sand, 6 to 12 percent slopes, moderately eroded

Sartell, moderately eroded

Extent: 100 percent of the unit

Landform(s): stream terraces

Slope gradient: 6 to 12 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 1

Wind erodibility index (WEI): 250

Kw factor (surface layer) .10

Land capability, nonirrigated: 6s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	fine sand	rapid	0.89 to 1.08 in	5.1 to 6.0
Bw -- 10 to 26 in	sand	rapid	0.97 to 1.61 in	5.1 to 6.0
C -- 26 to 60 in	sand	rapid	1.69 to 3.05 in	5.6 to 7.3

This report provides a semitabular listing of some soil and site properties and interpretations that are valuable in communicating the concept of a map unit. The report also provides easy access to the commonly used conservation planning information in one place. The major soil components in each map unit are displayed. Minor components may be displayed if they are included in the database and are selected at the time the report is generated.