

Map Unit Description (MN)

Wabasha 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]

1010--Pits, quarry

Pits, quarry

Extent: 100 percent of the unit

Landform(s): hills, valley sides

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: 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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1038--Udorthents, earthen dam

Udorthents, earthen dam

Extent: 100 percent of the unit

Landform(s): valleys

Slope gradient: 20 to 50 percent

Parent material: loamy material

Restrictive feature(s): greater than 60 inches

Flooding:

Ponding:

Drainage class: well 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)

Wabasha County, Minnesota

1041C--Riverwash sand, 2 to 12 percent slopes, frequently flooded

Riverwash, frequently flooded

Extent: 60 to 90 percent of the unit

Landform(s): levees on flood plains

Slope gradient: 2 to 12 percent

Parent material: sandy and gravelly alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor):

Wind erodibility group (WEG): 1

Wind erodibility index (WEI): 160

Kw factor (surface layer) .02

Land capability, nonirrigated 8s

Hydric soil: no

Hydrologic group:

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
C -- 0 to 80 in	stratified coarse sand to gravelly coarse sand	very rapid	0.80 to 3.20 in	6.1 to 7.8

Az--Arenzville silt loam

Arenzville, occasionally flooded

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: 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 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>
A -- 0 to 40 in	silt loam	moderate	8.03 to 9.64 in	5.6 to 7.8
2C -- 40 to 60 in	silt loam	moderate	3.54 to 4.33 in	5.6 to 7.8

Map Unit Description (MN)

Wabasha County, Minnesota

BbA--Bixby loam, 0 to 2 percent slopes

Bixby

Extent: 85 percent of the unit

Landform(s): terraces

Slope gradient: 0 to 2 percent

Parent material: till

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) .24

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	loam	moderate	1.76 to 2.09 in	5.6 to 6.5
Bt -- 11 to 28 in	clay loam	moderate	2.37 to 3.05 in	4.5 to 6.0
2C -- 28 to 60 in	sand	rapid	0.64 to 1.28 in	6.1 to 7.8

BbB--Bixby loam, 2 to 6 percent slopes

Bixby

Extent: 85 percent of the unit

Landform(s): terraces

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): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

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	loam	moderate	1.45 to 1.72 in	5.6 to 6.5
Bt -- 9 to 25 in	clay loam	moderate	2.26 to 2.91 in	4.5 to 6.0
2C -- 25 to 60 in	sand	rapid	0.69 to 1.39 in	6.1 to 7.8

Map Unit Description (MN)

Wabasha County, Minnesota

BfE--Boone loamy fine sand, 18 to 35 percent slopes

Boone

Extent: 90 percent of the unit

Landform(s): valley sides

Slope gradient: 18 to 35 percent

Parent material: sandstone residuum

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

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .24

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>
Ap --	0 to 5 in	loamy fine sand	rapid	0.51 to 0.67 in	3.5 to 7.3
A,Bw1 --	5 to 19 in	fine sand	rapid	0.41 to 1.65 in	3.5 to 7.3
Bw2,C --	19 to 36 in	fine sand	rapid	0.34 to 1.86 in	4.5 to 6.5
Cr --	36 to 60 in	weathered bedrock	moderate		

Map Unit Description (MN)

Wabasha County, Minnesota

BhB--Boone and Chelsea loamy fine sands, 2 to 6 percent slopes

Boone

Extent: 45 percent of the unit

Landform(s): hills

Slope gradient: 2 to 6 percent

Parent material: sandstone residuum

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

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

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 5 in	loamy fine sand	rapid	0.51 to 0.67 in	3.5 to 7.3
A,Bw1 -- 5 to 19 in	fine sand	rapid	0.41 to 1.65 in	3.5 to 7.3
Bw2,C -- 19 to 36 in	fine sand	rapid	0.34 to 1.86 in	4.5 to 6.5
Cr -- 36 to 60 in	weathered bedrock	moderate		

Chelsea

Extent: 45 percent of the unit

Landform(s): hills

Slope gradient: 2 to 6 percent

Parent material: eolian deposits

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) .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>
A,E -- 0 to 8 in	loamy fine sand	rapid	0.79 to 1.18 in	5.6 to 7.3
E&Bt -- 8 to 60 in	fine sand	rapid	3.12 to 4.16 in	5.1 to 6.5

Map Unit Description (MN)

Wabasha County, Minnesota

BhC--Boone and Chelsea loamy fine sands, 6 to 12 percent slopes

Boone

Extent: 45 percent of the unit

Landform(s): hills

Slope gradient: 6 to 12 percent

Parent material: sandstone residuum

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

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .24

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 5 in	loamy fine sand	rapid	0.51 to 0.67 in	3.5 to 7.3
A,Bw1 -- 5 to 19 in	fine sand	rapid	0.41 to 1.65 in	3.5 to 7.3
Bw2,C -- 19 to 36 in	fine sand	rapid	0.34 to 1.86 in	4.5 to 6.5
Cr -- 36 to 60 in	weathered bedrock	moderate		

Chelsea

Extent: 45 percent of the unit

Landform(s): hills

Slope gradient: 6 to 12 percent

Parent material: eolian deposits

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) .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>
A,E -- 0 to 8 in	loamy fine sand	rapid	0.79 to 1.18 in	5.6 to 7.3
E&Bt -- 8 to 60 in	fine sand	rapid	3.12 to 4.16 in	5.1 to 6.5

Map Unit Description (MN)

Wabasha County, Minnesota

BhD--Boone and Chelsea loamy fine sands, 12 to 18 percent slopes

Boone

Extent: 45 percent of the unit

Landform(s): hills

Slope gradient: 12 to 18 percent

Parent material: sandstone residuum

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

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .24

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>
Ap -- 0 to 5 in	loamy fine sand	rapid	0.51 to 0.67 in	3.5 to 7.3
A,Bw1 -- 5 to 19 in	fine sand	rapid	0.41 to 1.65 in	3.5 to 7.3
Bw2,C -- 19 to 36 in	fine sand	rapid	0.34 to 1.86 in	4.5 to 6.5
Cr -- 36 to 60 in	weathered bedrock	moderate		

Chelsea

Extent: 45 percent of the unit

Landform(s): hills

Slope gradient: 12 to 18 percent

Parent material: eolian deposits

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) .10

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,E -- 0 to 8 in	loamy fine sand	rapid	0.79 to 1.18 in	5.6 to 7.3
E&Bt -- 8 to 60 in	fine sand	rapid	3.12 to 4.16 in	5.1 to 6.5

Map Unit Description (MN)

Wabasha County, Minnesota

BkA--Burkhardt gravelly sandy loam, 0 to 2 percent slopes

Burkhardt

Extent: 85 percent of the unit

Landform(s): terraces

Slope gradient: 0 to 2 percent

Parent material: eolian deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

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	gravelly sandy loam	moderately rapid	1.18 to 1.57 in	5.1 to 6.5
Bw -- 10 to 13 in	sandy loam	moderately rapid	0.31 to 0.60 in	5.1 to 6.5
C -- 13 to 60 in	stratified sand to very gravelly coarse sand	rapid	0.94 to 1.87 in	5.6 to 6.5

BkB--Burkhardt gravelly sandy loam, 2 to 6 percent slopes

Burkhardt

Extent: 85 percent of the unit

Landform(s): terraces

Slope gradient: 2 to 6 percent

Parent material: eolian deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

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	gravelly sandy loam	moderately rapid	1.18 to 1.57 in	5.1 to 6.5
Bw -- 10 to 13 in	sandy loam	moderately rapid	0.31 to 0.60 in	5.1 to 6.5
C -- 13 to 60 in	stratified sand to very gravelly coarse sand	rapid	0.94 to 1.87 in	5.6 to 6.5

Map Unit Description (MN)

Wabasha County, Minnesota

BrA--Burkhardt loam, 0 to 2 percent slopes

Burkhardt

Extent: 85 percent of the unit

Landform(s): terraces

Slope gradient: 0 to 2 percent

Parent material: eolian deposits

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) .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 9 in	loam	moderately rapid	1.72 to 1.99 in	5.1 to 6.5
Bw -- 9 to 24 in	sandy loam	moderately rapid	1.50 to 2.84 in	5.1 to 6.5
C -- 24 to 60 in	stratified sand to very gravelly coarse sand	rapid	0.72 to 1.43 in	5.6 to 6.5

BrB--Burkhardt loam, 2 to 6 percent slopes

Burkhardt

Extent: 85 percent of the unit

Landform(s): terraces

Slope gradient: 2 to 6 percent

Parent material: eolian deposits

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) .28

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 9 in	loam	moderately rapid	1.72 to 1.99 in	5.1 to 6.5
Bw -- 9 to 17 in	sandy loam	moderately rapid	0.79 to 1.50 in	5.1 to 6.5
C -- 17 to 60 in	stratified sand to very gravelly coarse sand	rapid	0.86 to 1.72 in	5.6 to 6.5

Map Unit Description (MN)

Wabasha County, Minnesota

BtA--Burkhardt sandy loam, 0 to 2 percent slopes

Burkhardt

Extent: 85 percent of the unit

Landform(s): terraces

Slope gradient: 0 to 2 percent

Parent material: eolian deposits

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) .17

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	1.08 to 1.48 in	5.1 to 6.5
Bw -- 10 to 18 in	sandy loam	moderately rapid	0.83 to 1.57 in	5.1 to 6.5
C -- 18 to 60 in	stratified sand to very gravelly coarse sand	rapid	0.83 to 1.67 in	5.6 to 6.5

BtB--Burkhardt sandy loam, 2 to 6 percent slopes

Burkhardt

Extent: 85 percent of the unit

Landform(s): terraces

Slope gradient: 2 to 6 percent

Parent material: eolian deposits

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) .17

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	1.08 to 1.48 in	5.1 to 6.5
Bw -- 10 to 17 in	sandy loam	moderately rapid	0.71 to 1.35 in	5.1 to 6.5
C -- 17 to 60 in	stratified sand to very gravelly coarse sand	rapid	0.86 to 1.72 in	5.6 to 6.5

Map Unit Description (MN)

Wabasha County, Minnesota

BtC2--Burkhardt sandy loam, 6 to 12 percent slopes, moderately eroded

Burkhardt, moderately eroded

Extent: 85 percent of the unit

Landform(s): terraces

Slope gradient: 6 to 12 percent

Parent material: eolian deposits

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) .17

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 10 in	sandy loam	moderately rapid	1.08 to 1.48 in	5.1 to 6.5
Bw -- 10 to 17 in	sandy loam	moderately rapid	0.71 to 1.35 in	5.1 to 6.5
C -- 17 to 60 in	stratified sand to very gravelly coarse sand	rapid	0.86 to 1.72 in	5.6 to 6.5

CaB--Chaseburg fine sandy loam, 2 to 6 percent slopes

Chaseburg, occasionally flooded

Extent: 85 percent of the unit

Landform(s): drainageways

Slope gradient: 2 to 6 percent

Parent material: silty alluvium

Restrictive feature(s): greater than 60 inches

Flooding: occasional

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) .20

Land capability, nonirrigated 4w

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>
A -- 0 to 12 in	fine sandy loam	moderate	1.89 to 2.13 in	6.1 to 7.8
C -- 12 to 60 in	silt loam	moderate	8.65 to 10.57 in	5.6 to 7.8

Map Unit Description (MN)

Wabasha County, Minnesota

ChA--Chaseburg silt loam, 0 to 2 percent slopes

Chaseburg, occasionally flooded

Extent: 85 percent of the unit

Landform(s): drainageways

Slope gradient: 0 to 2 percent

Parent material: silty alluvium

Restrictive feature(s): greater than 60 inches

Flooding: occasional

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 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>
A -- 0 to 13 in	silt loam	moderate	2.86 to 3.12 in	6.1 to 7.8
C -- 13 to 60 in	silt loam	moderate	8.43 to 10.31 in	5.6 to 7.8

ChB--Chaseburg silt loam, 2 to 6 percent slopes

Chaseburg, occasionally flooded

Extent: 85 percent of the unit

Landform(s): drainageways

Slope gradient: 2 to 6 percent

Parent material: silty alluvium

Restrictive feature(s): greater than 60 inches

Flooding: occasional

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: 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>
A -- 0 to 13 in	silt loam	moderate	2.86 to 3.12 in	6.1 to 7.8
C -- 13 to 60 in	silt loam	moderate	8.43 to 10.31 in	5.6 to 7.8

Map Unit Description (MN)

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Co--Colo silty clay loam

Colo, frequently flooded

Extent: 85 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 2 percent

Parent material: silty alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent

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) .24

Land capability, nonirrigated 5w

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 10 in	silty clay loam	moderate	2.07 to 2.26 in	5.6 to 7.3
A2,A3 -- 10 to 34 in	silty clay loam	moderate	4.32 to 4.80 in	5.6 to 7.3
C -- 34 to 60 in	silt loam	moderate	4.68 to 5.20 in	6.1 to 7.3

DdC2--Dodgeville silt loam, 6 to 12 percent slopes, moderately eroded

Dodgeville, moderately eroded

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 6 to 12 percent

Parent material: loess over limestone residuum

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

Flooding: none

Ponding: none

Drainage class: well 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 3e

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>
Ap,A -- 0 to 13 in	silt loam	moderate	2.47 to 3.12 in	6.1 to 7.3
Bt1 -- 13 to 23 in	silt loam	moderate	0.89 to 2.17 in	5.1 to 6.5
2Bt2 -- 23 to 35 in	silt loam	slow	0.73 to 1.59 in	5.1 to 7.3
2R -- 35 to 39 in	weathered bedrock	moderately slow		

Map Unit Description (MN)

Wabasha County, Minnesota

DdD2--Dodgeville silt loam, 12 to 18 percent slopes, moderately eroded

Dodgeville, moderately eroded

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 12 to 18 percent

Parent material: loess over limestone residuum

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

Flooding: none

Ponding: none

Drainage class: well 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 4e

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>
Ap,A -- 0 to 10 in	silt loam	moderate	1.87 to 2.36 in	6.1 to 7.3
Bt1,2Bt2 -- 10 to 28 in	silt loam	moderate	1.63 to 3.98 in	5.1 to 6.5
2R -- 28 to 35 in	weathered bedrock	moderately slow		

DgC2--Dodgeville silt loam, shallow, 6 to 12 percent slopes, moderately eroded

Dodgeville, shallow, moderately eroded

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 6 to 12 percent

Parent material: loess over limestone residuum

Restrictive feature(s): lithic bedrock at 10 to 20 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 1

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated 4e

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>
Ap,A -- 0 to 8 in	silt loam	moderate	1.18 to 1.81 in	6.1 to 8.4
Bt1,2Bt2 -- 8 to 20 in	silt loam	moderate	1.83 to 2.69 in	6.1 to 8.4
2R -- 20 to 60 in	weathered bedrock	moderately slow		

Map Unit Description (MN)

Wabasha County, Minnesota

DgD2--Dodgeville silt loam, shallow, 12 to 18 percent slopes, moderately eroded

Dodgeville, shallow, moderately eroded

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 12 to 18 percent

Parent material: loess over limestone residuum

Restrictive feature(s): lithic bedrock at 10 to 20 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 1

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated 6e

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>
Ap,A -- 0 to 8 in	silt loam	moderate	1.18 to 1.81 in	6.1 to 8.4
Bt1,2Bt2 -- 8 to 20 in	silt loam	moderate	1.83 to 2.69 in	6.1 to 8.4
2R -- 20 to 60 in	weathered bedrock	moderately slow		

DgE--Dodgeville silt loam, shallow, 18 to 35 percent slopes

Dodgeville, shallow

Extent: 85 percent of the unit

Landform(s): valley sides

Slope gradient: 18 to 35 percent

Parent material: loess over limestone residuum

Restrictive feature(s): lithic bedrock at 10 to 20 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 1

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated 7e

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>
Ap,A -- 0 to 10 in	silt loam	moderate	1.48 to 2.26 in	6.1 to 8.4
Bt1,2Bt2 -- 10 to 20 in	silt loam	moderate	1.54 to 2.25 in	6.1 to 8.4
2R -- 20 to 60 in	weathered bedrock	moderately slow		

Map Unit Description (MN)

Wabasha County, Minnesota

DhA--Downs and Mt. Carroll silt loams, 0 to 2 percent slopes

Downs

Extent: 45 percent of the unit

Landform(s): loess hills

Slope gradient: 0 to 2 percent

Parent material: loess

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) .37

Land capability, nonirrigated 1

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>
Ap,A -- 0 to 15 in	silt loam	moderate	3.14 to 3.44 in	5.1 to 7.3
Bt1 -- 15 to 22 in	silt loam	moderate	1.49 to 1.63 in	5.1 to 7.3
Bt2,Bt3 -- 22 to 41 in	silt loam	moderate	3.40 to 3.78 in	4.5 to 7.3
C1,C2,C3 -- 41 to 60 in	silt loam	moderate	3.40 to 3.78 in	5.6 to 7.3

Mt. Carroll

Extent: 45 percent of the unit

Landform(s): loess hills

Slope gradient: 0 to 2 percent

Parent material: loess

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 1

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>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
Bt1 -- 8 to 30 in	silt loam	moderate	4.41 to 4.85 in	5.6 to 7.3
Bt2,C -- 30 to 60 in	silt loam	moderate	5.98 to 6.58 in	5.1 to 7.3

Map Unit Description (MN)

Wabasha County, Minnesota

DmA--Downs and Mt. Carroll silt loams, benches, 0 to 2 percent slopes

Downs, benches

Extent: 45 percent of the unit

Landform(s): terraces

Slope gradient: 0 to 2 percent

Parent material: loess

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) .37

Land capability, nonirrigated 1

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>
Ap,A -- 0 to 15 in	silt loam	moderate	3.14 to 3.44 in	5.1 to 7.3
Bt1 -- 15 to 22 in	silt loam	moderate	1.49 to 1.63 in	5.1 to 7.3
Bt2,Bt3 -- 22 to 41 in	silt loam	moderate	3.40 to 3.78 in	4.5 to 7.3
Bt4,C -- 41 to 60 in	silt loam	moderate	3.40 to 3.78 in	5.6 to 7.3

Mt. Carroll, benches

Extent: 45 percent of the unit

Landform(s): terraces

Slope gradient: 0 to 2 percent

Parent material: loess

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): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated 1

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>
Ap -- 0 to 12 in	silt loam	moderate	2.60 to 2.83 in	6.1 to 7.3
Bt1 -- 12 to 56 in	silt loam	moderate	8.82 to 9.70 in	5.6 to 7.3
Bt2,C -- 56 to 60 in	silt loam	moderate	0.79 to 0.87 in	5.1 to 7.3

Map Unit Description (MN)

Wabasha County, Minnesota

DmB--Downs and Mt. Carroll silt loams, benches, 2 to 6 percent slopes

Downs, benches

Extent: 45 percent of the unit

Landform(s): terraces

Slope gradient: 2 to 6 percent

Parent material: loess

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) .37

Land capability, nonirrigated 2e

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>
Ap,A -- 0 to 15 in	silt loam	moderate	3.14 to 3.44 in	5.1 to 7.3
Bt1 -- 15 to 22 in	silt loam	moderate	1.49 to 1.63 in	5.1 to 7.3
Bt2,Bt3 -- 22 to 41 in	silt loam	moderate	3.40 to 3.78 in	4.5 to 7.3
C1,C2,C3 -- 41 to 60 in	silt loam	moderate	3.40 to 3.78 in	5.6 to 7.3

Mt. Carroll, benches

Extent: 45 percent of the unit

Landform(s): terraces

Slope gradient: 2 to 6 percent

Parent material: loess

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): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated 2e

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>
Ap -- 0 to 12 in	silt loam	moderate	2.60 to 2.83 in	6.1 to 7.3
Bt1 -- 12 to 56 in	silt loam	moderate	8.82 to 9.70 in	5.6 to 7.3
Bt2,C -- 56 to 60 in	silt loam	moderate	0.79 to 0.87 in	5.1 to 7.3

Map Unit Description (MN)

Wabasha County, Minnesota

DnB--Dubuque silt loam, 2 to 6 percent slopes

Dubuque

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 2 to 6 percent

Parent material: loess over limestone residuum

Restrictive feature(s): lithic bedrock at 20 to 30 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 2

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: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,AB -- 0 to 13 in	silt loam	moderate	2.60 to 2.86 in	5.1 to 7.3
Bt1,Bt2 -- 13 to 32 in	silt loam	moderate	3.40 to 3.78 in	5.1 to 6.0
2Bt3 -- 32 to 36 in	clay	slow	0.47 to 0.59 in	5.1 to 6.0
3R -- 36 to 46 in	weathered bedrock	moderately slow		

Map Unit Description (MN)

Wabasha County, Minnesota

DnC2--Dubuque silt loam, 6 to 12 percent slopes, moderately eroded

Dubuque, moderately eroded

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 6 to 12 percent

Parent material: loess over limestone residuum

Restrictive feature(s): lithic bedrock at 20 to 30 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .37

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: C

Potential for frost action: high

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,AB	-- 0 to 8 in	silt loam	moderate	1.57 to 1.73 in	5.1 to 7.3
Bt1,Bt2	-- 8 to 24 in	silt loam	moderate	2.91 to 3.23 in	5.1 to 6.0
2Bt3	-- 24 to 28 in	clay	slow	0.47 to 0.59 in	5.1 to 6.0
3R	-- 28 to 38 in	weathered bedrock	moderately slow		

Map Unit Description (MN)

Wabasha County, Minnesota

DnD2--Dubuque silt loam, 12 to 18 percent slopes, moderately eroded

Dubuque, moderately eroded

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 12 to 18 percent

Parent material: loess over limestone residuum

Restrictive feature(s): lithic bedrock at 20 to 30 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .37

Land capability, nonirrigated 4e

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>
Ap,AB -- 0 to 8 in	silt loam	moderate	1.57 to 1.73 in	5.1 to 7.3
Bt1,Bt2 -- 8 to 24 in	silt loam	moderate	2.91 to 3.23 in	5.1 to 6.0
2Bt3 -- 24 to 28 in	clay	slow	0.47 to 0.59 in	5.1 to 6.0
3R -- 28 to 38 in	weathered bedrock	moderately slow		

Map Unit Description (MN)

Wabasha County, Minnesota

DnE--Dubuque silt loam, 18 to 25 percent slopes

Dubuque

Extent: 85 percent of the unit

Landform(s): valley sides

Slope gradient: 18 to 25 percent

Parent material: loess over limestone residuum

Restrictive feature(s): lithic bedrock at 20 to 30 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .37

Land capability, nonirrigated 7e

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>
Ap,AB -- 0 to 10 in	silt loam	moderate	1.97 to 2.17 in	5.1 to 7.3
Bt1,Bt2 -- 10 to 26 in	silt loam	moderate	2.91 to 3.23 in	5.1 to 6.0
2Bt3 -- 26 to 30 in	clay	slow	0.47 to 0.59 in	5.1 to 6.0
3R -- 30 to 40 in	weathered bedrock	moderately slow		

Map Unit Description (MN)

Wabasha County, Minnesota

DnF--Dubuque silt loam, 25 to 35 percent slopes

Dubuque

Extent: 85 percent of the unit

Landform(s): valley sides

Slope gradient: 25 to 35 percent

Parent material: loess over limestone residuum

Restrictive feature(s): lithic bedrock at 20 to 30 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .37

Land capability, nonirrigated 7e

Hydric soil: no

Hydrologic group: C

Potential for frost action: high

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,AB	-- 0 to 10 in	silt loam	moderate	1.97 to 2.17 in	5.1 to 7.3
Bt1,Bt2	-- 10 to 26 in	silt loam	moderate	2.91 to 3.23 in	5.1 to 6.0
2Bt3	-- 26 to 30 in	clay	slow	0.47 to 0.59 in	5.1 to 6.0
3R	-- 30 to 40 in	weathered bedrock	moderately slow		

Map Unit Description (MN)

Wabasha County, Minnesota

DrB--Dubuque silt loam, shallow, 2 to 6 percent slopes

Dubuque, shallow

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 2 to 6 percent

Parent material: loess over limestone residuum

Restrictive feature(s): lithic bedrock at 20 to 30 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .43

Land capability, nonirrigated 4e

Hydric soil: no

Hydrologic group: D

Potential for frost action: high

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,AB	-- 0 to 7 in	silt loam	moderate	1.42 to 1.56 in	5.1 to 7.3
Bt1,Bt2	-- 7 to 13 in	silt loam	moderate	1.06 to 1.18 in	5.1 to 6.0
2Bt3	-- 13 to 20 in	clay	slow	0.85 to 1.06 in	5.1 to 6.0
3R	-- 20 to 30 in	weathered bedrock	moderately slow		

Map Unit Description (MN)

Wabasha County, Minnesota

DrC2--Dubuque silt loam, shallow, 6 to 12 percent slopes, moderately eroded

Dubuque, shallow, moderately eroded

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 6 to 12 percent

Parent material: loess over limestone residuum

Restrictive feature(s): lithic bedrock at 20 to 30 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .43

Land capability, nonirrigated 6e

Hydric soil: no

Hydrologic group: 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,AB -- 0 to 6 in	silt loam	moderate	1.18 to 1.30 in	5.1 to 7.3
Bt1,Bt2 -- 6 to 12 in	silt loam	moderate	1.06 to 1.18 in	5.1 to 6.0
2Bt3 -- 12 to 18 in	clay	slow	0.76 to 0.94 in	5.1 to 6.0
3R -- 18 to 28 in	weathered bedrock	moderately slow		

Map Unit Description (MN)

Wabasha County, Minnesota

DrD2--Dubuque silt loam, shallow, 12 to 18 percent slopes, moderately eroded

Dubuque, shallow, moderately eroded

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 12 to 18 percent

Parent material: loess over limestone residuum

Restrictive feature(s): lithic bedrock at 20 to 30 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .43

Land capability, nonirrigated 6e

Hydric soil: no

Hydrologic group: D

Potential for frost action: high

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,AB --	0 to 6 in	silt loam	moderate	1.18 to 1.30 in	5.1 to 7.3
Bt1,Bt2 --	6 to 12 in	silt loam	moderate	1.06 to 1.18 in	5.1 to 6.0
2Bt3 --	12 to 18 in	clay	slow	0.76 to 0.94 in	5.1 to 6.0
3R --	18 to 28 in	weathered bedrock	moderately slow		

Map Unit Description (MN)

Wabasha County, Minnesota

DrE--Dubuque silt loam, shallow, 18 to 25 percent slopes

Dubuque, shallow

Extent: 85 percent of the unit

Landform(s): valley sides

Slope gradient: 18 to 25 percent

Parent material: loess over limestone residuum

Restrictive feature(s): lithic bedrock at 20 to 30 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .43

Land capability, nonirrigated 7e

Hydric soil: no

Hydrologic group: D

Potential for frost action: high

Representative soil profile:

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,AB	--	0 to 12 in	silt loam	moderate	2.36 to 2.60 in	5.1 to 7.3
Bt1,Bt2	--	12 to 14 in	silt loam	moderate	0.43 to 0.47 in	5.1 to 6.0
2Bt3	--	14 to 19 in	clay	slow	0.57 to 0.71 in	5.1 to 6.0
3R	--	19 to 29 in	weathered bedrock	moderately slow		

Map Unit Description (MN)

Wabasha County, Minnesota

DrF--Dubuque silt loam, shallow, 25 to 35 percent slopes

Dubuque, shallow

Extent: 85 percent of the unit

Landform(s): valley sides

Slope gradient: 25 to 35 percent

Parent material: loess over limestone residuum

Restrictive feature(s): lithic bedrock at 20 to 30 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .43

Land capability, nonirrigated 7e

Hydric soil: no

Hydrologic group: 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,AB -- 0 to 12 in	silt loam	moderate	2.36 to 2.60 in	5.1 to 7.3
Bt1,Bt2 -- 12 to 14 in	silt loam	moderate	0.43 to 0.47 in	5.1 to 6.0
2Bt3 -- 14 to 19 in	clay	slow	0.57 to 0.71 in	5.1 to 6.0
3R -- 19 to 29 in	weathered bedrock	moderately slow		

Du--Dune land

Dune land

Extent: 100 percent of the unit

Landform(s): dunes

Slope gradient: 6 to 12 percent

Parent material: eolian deposits

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)

Wabasha County, Minnesota

FaA--Fayette silt loam, uplands, 0 to 2 percent slopes

Fayette, uplands

Extent: 85 percent of the unit

Landform(s): loess hills

Slope gradient: 0 to 2 percent

Parent material: loess

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) .37

Land capability, nonirrigated 1

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>
Ap -- 0 to 8 in	silt loam	moderate	1.57 to 1.73 in	5.1 to 7.3
E -- 8 to 14 in	silt loam	moderate	1.26 to 1.39 in	5.1 to 7.3
Bt -- 14 to 43 in	silty clay loam	moderate	5.17 to 5.75 in	4.5 to 6.5
C1,C2 -- 43 to 60 in	silt loam	moderate	3.05 to 3.39 in	5.1 to 7.8

Map Unit Description (MN)

Wabasha County, Minnesota

FaE--Fayette silt loam, uplands, 18 to 25 percent slopes

Fayette, uplands

Extent: 85 percent of the unit

Landform(s): loess hills

Slope gradient: 18 to 25 percent

Parent material: loess

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) .37

Land capability, nonirrigated 6e

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>
A -- 0 to 2 in	silt loam	moderate	0.35 to 0.39 in	5.1 to 7.3
E -- 2 to 9 in	silt loam	moderate	1.28 to 1.42 in	5.1 to 7.3
Bt -- 9 to 33 in	silty clay loam	moderate	4.32 to 4.80 in	4.5 to 6.0
C1,C2 -- 33 to 60 in	silt loam	moderate	4.82 to 5.35 in	5.1 to 7.8

Map Unit Description (MN)

Wabasha County, Minnesota

FaF--Fayette silt loam, uplands, 25 to 35 percent slopes

Fayette, uplands

Extent: 85 percent of the unit

Landform(s): valley sides

Slope gradient: 25 to 35 percent

Parent material: loess

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) .37

Land capability, nonirrigated 7e

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>
Ap -- 0 to 2 in	silt loam	moderate	0.35 to 0.39 in	5.1 to 7.3
E -- 2 to 9 in	silt loam	moderate	1.28 to 1.42 in	5.1 to 7.3
Bt -- 9 to 33 in	silty clay loam	moderate	4.32 to 4.80 in	4.5 to 6.0
C1,C2 -- 33 to 60 in	silt loam	moderate	4.82 to 5.35 in	5.1 to 7.8

Map Unit Description (MN)

Wabasha County, Minnesota

FbA--Fayette silt loam, benches, 0 to 2 percent slopes

Fayette, benches

Extent: 85 percent of the unit

Landform(s): terraces

Slope gradient: 0 to 2 percent

Parent material: loess

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 1

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>
Ap --	0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
E --	8 to 11 in	silt loam	moderate	0.69 to 0.76 in	5.6 to 7.3
Bt --	11 to 45 in	silty clay loam	moderate	6.09 to 7.45 in	5.1 to 6.5
C1,C2 --	45 to 60 in	silt loam	moderate	2.69 to 2.99 in	5.1 to 7.8

Map Unit Description (MN)

Wabasha County, Minnesota

FbB--Fayette silt loam, benches, 2 to 6 percent slopes

Fayette, benches

Extent: 85 percent of the unit

Landform(s): terraces

Slope gradient: 2 to 6 percent

Parent material: loess

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: 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>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
E -- 8 to 11 in	silt loam	moderate	0.69 to 0.76 in	5.6 to 7.3
Bt -- 11 to 45 in	silt loam	moderate	6.09 to 7.45 in	5.1 to 6.5
C1,C2 -- 45 to 60 in	silt loam	moderate	2.69 to 2.99 in	5.1 to 7.8

Map Unit Description (MN)

Wabasha County, Minnesota

FbC2--Fayette silt loam, benches, 6 to 12 percent slopes, moderately eroded

Fayette, benches, moderately eroded

Extent: 85 percent of the unit

Landform(s): terraces

Slope gradient: 6 to 12 percent

Parent material: loess

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: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 6 in	silt loam	moderate	1.30 to 1.42 in	5.6 to 7.3
E -- 6 to 7 in	silt loam	moderate	0.26 to 0.28 in	5.6 to 7.3
Bt -- 7 to 40 in	silt loam	moderate	5.95 to 7.28 in	5.1 to 6.5
C1,C2 -- 40 to 60 in	silt loam	moderate	3.54 to 3.94 in	5.1 to 7.8

Map Unit Description (MN)

Wabasha County, Minnesota

GaB--Gale silt loam, 2 to 6 percent slopes

Gale

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 2 to 6 percent

Parent material: loess over sandstone residuum

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

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated 2e

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>
Ap -- 0 to 7 in	silt loam	moderate	1.56 to 1.70 in	4.5 to 7.3
Bt -- 7 to 27 in	silty clay loam	moderate	3.54 to 4.33 in	4.5 to 6.0
BC -- 27 to 29 in	silt loam	moderate	0.19 to 0.43 in	4.5 to 6.0
2C -- 29 to 37 in	fine sand	rapid	0.16 to 0.63 in	4.5 to 6.0
2Cr -- 37 to 60 in	weathered bedrock	moderate		

Map Unit Description (MN)

Wabasha County, Minnesota

GaC2--Gale silt loam, 6 to 12 percent slopes, moderately eroded

Gale, moderately eroded

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 6 to 12 percent

Parent material: loess over sandstone residuum

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

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated 3e

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>
Ap -- 0 to 7 in	silt loam	moderate	1.56 to 1.70 in	4.5 to 7.3
Bt -- 7 to 22 in	silty clay loam	moderate	2.69 to 3.29 in	4.5 to 6.0
BC -- 22 to 25 in	silt loam	moderate	0.25 to 0.57 in	4.5 to 6.0
2C -- 25 to 30 in	sand	rapid	0.09 to 0.38 in	4.5 to 6.0
2Cr -- 30 to 60 in	weathered bedrock	moderate		

Map Unit Description (MN)

Wabasha County, Minnesota

GaD2--Gale silt loam, 12 to 18 percent slopes, moderately eroded

Gale, moderately eroded

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 12 to 18 percent

Parent material: loess over sandstone residuum

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

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated 4e

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>
Ap -- 0 to 7 in	silt loam	moderate	1.56 to 1.70 in	4.5 to 7.3
Bt -- 7 to 22 in	silty clay loam	moderate	2.69 to 3.29 in	4.5 to 6.0
BC -- 22 to 25 in	silt loam	moderate	0.25 to 0.57 in	4.5 to 6.0
2C -- 25 to 30 in	sand	rapid	0.09 to 0.38 in	4.5 to 6.0
2Cr -- 30 to 60 in	weathered bedrock	moderate		

Map Unit Description (MN)

Wabasha County, Minnesota

GhC2--Gale-Hixton complex, shallow, 6 to 12 percent slopes, moderately eroded

Gale, shallow, moderately eroded

Extent: 50 percent of the unit

Landform(s): hills

Slope gradient: 6 to 12 percent

Parent material: loess over sandstone residuum

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

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated 3e

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>
Ap -- 0 to 7 in	silt loam	moderate	1.56 to 1.70 in	4.5 to 7.3
Bt -- 7 to 22 in	silty clay loam	moderate	2.69 to 3.29 in	4.5 to 6.0
BC -- 22 to 25 in	silt loam	moderate	0.25 to 0.57 in	4.5 to 6.0
2C -- 25 to 30 in	fine sand	rapid	0.09 to 0.38 in	4.5 to 6.0
2Cr -- 30 to 60 in	weathered bedrock	moderate		

Hixton, shallow, moderately eroded

Extent: 45 percent of the unit

Landform(s): hills

Slope gradient: 6 to 12 percent

Parent material: loamy slope alluvium over sandstone residuum

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

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 3e

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 8 in	fine sandy loam	moderate	1.02 to 1.18 in	5.1 to 7.3
Bt1,Bt2 -- 8 to 21 in	loam	moderate	1.56 to 2.47 in	5.1 to 6.0
BC -- 21 to 26 in	fine sandy loam	moderate	0.41 to 0.92 in	5.1 to 6.0
C -- 26 to 31 in	sand	rapid	0.15 to 0.36 in	5.1 to 6.0
2Cr -- 31 to 41 in	weathered bedrock	moderate		

Map Unit Description (MN)

Wabasha County, Minnesota

GhD2--Gale-Hixton complex, shallow, 12 to 18 percent slopes, moderately eroded

Gale, shallow, moderately eroded

Extent: 50 percent of the unit

Landform(s): hills

Slope gradient: 12 to 18 percent

Parent material: loess over sandstone residuum

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

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated 4e

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>
Ap -- 0 to 7 in	silt loam	moderate	1.56 to 1.70 in	4.5 to 7.3
Bt -- 7 to 22 in	silty clay loam	moderate	2.69 to 3.29 in	4.5 to 6.0
BC -- 22 to 25 in	silt loam	moderate	0.25 to 0.57 in	4.5 to 6.0
2C -- 25 to 30 in	fine sand	rapid	0.09 to 0.38 in	4.5 to 6.0
2Cr -- 30 to 60 in	weathered bedrock	moderate		

Hixton, shallow, moderately eroded

Extent: 45 percent of the unit

Landform(s): hills

Slope gradient: 12 to 18 percent

Parent material: loamy slope alluvium over sandstone residuum

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

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 4e

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 8 in	fine sandy loam	moderate	1.02 to 1.18 in	5.1 to 7.3
Bt1,Bt2 -- 8 to 21 in	loam	moderate	1.56 to 2.47 in	5.1 to 6.0
BC -- 21 to 26 in	fine sandy loam	moderate	0.41 to 0.92 in	5.1 to 6.0
C -- 26 to 31 in	sand	rapid	0.15 to 0.36 in	5.1 to 6.0
2Cr -- 31 to 41 in	weathered bedrock	moderate		

Map Unit Description (MN)

Wabasha County, Minnesota

GhE--Gale-Hixton complex, shallow, 18 to 25 percent slopes

Gale, shallow

Extent: 50 percent of the unit

Landform(s): hills

Slope gradient: 18 to 25 percent

Parent material: loess over sandstone residuum

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

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated 6e

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>
Ap -- 0 to 7 in	silt loam	moderate	1.56 to 1.70 in	4.5 to 7.3
Bt -- 7 to 22 in	silty clay loam	moderate	2.69 to 3.29 in	4.5 to 6.0
BC -- 22 to 25 in	silt loam	moderate	0.25 to 0.57 in	4.5 to 6.0
2C -- 25 to 30 in	fine sand	rapid	0.09 to 0.38 in	4.5 to 6.0
2Cr -- 30 to 60 in	weathered bedrock	moderate		

Hixton, shallow

Extent: 45 percent of the unit

Landform(s): hills

Slope gradient: 18 to 25 percent

Parent material: loamy slope alluvium over sandstone residuum

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

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 6e

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 8 in	fine sandy loam	moderate	1.02 to 1.18 in	5.1 to 7.3
Bt1,Bt2 -- 8 to 21 in	loam	moderate	1.56 to 2.47 in	5.1 to 6.0
BC -- 21 to 26 in	fine sandy loam	moderate	0.41 to 0.92 in	5.1 to 6.0
C -- 26 to 31 in	sand	rapid	0.15 to 0.36 in	5.1 to 6.0
2Cr -- 31 to 41 in	weathered bedrock	moderate		

Map Unit Description (MN)

Wabasha County, Minnesota

Gm--Garwin silt loam

Garwin, frequently flooded

Extent: 85 percent of the unit

Landform(s): drainageways

Slope gradient: 0 to 2 percent

Parent material: loess

Restrictive feature(s): greater than 60 inches

Flooding: frequent

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 --	0 to 11 in	silt loam	moderate	2.31 to 2.54 in	5.6 to 7.3
Bg --	11 to 28 in	silty clay loam	moderate	3.05 to 3.39 in	6.1 to 7.3
C --	28 to 60 in	silt loam	moderate	6.38 to 7.02 in	6.6 to 7.8

Map Unit Description (MN)

Wabasha County, Minnesota

GP--Pits, gravel-Udipsamments complex

Pits, gravel

Extent: 45 to 55 percent of the unit

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

Slope gradient: 0 to 50 percent

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: 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>

Udipsamments

Extent: 40 to 50 percent of the unit

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

Slope gradient: 0 to 25 percent

Parent material: sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding:

Ponding:

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>

Map Unit Description (MN)

Wabasha County, Minnesota

HfB--Hixton fine sandy loam, 2 to 6 percent slopes

Hixton

Extent: 85 percent of the unit

Landform(s): hills, valley sides

Slope gradient: 2 to 6 percent

Parent material: loamy slope alluvium over sandstone residuum

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

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 4e

Hydric soil: no

Hydrologic group: C

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	fine sandy loam	moderate	1.02 to 1.18 in	5.1 to 7.3
Bt1,Bt2 --	8 to 21 in	loam	moderate	1.56 to 2.47 in	5.1 to 6.0
BC --	21 to 26 in	fine sandy loam	moderate	0.41 to 0.92 in	5.1 to 6.0
C --	26 to 31 in	sand	rapid	0.15 to 0.36 in	5.1 to 6.0
2Cr --	31 to 41 in	weathered bedrock	moderate		

Map Unit Description (MN)

Wabasha County, Minnesota

HfC2--Hixton fine sandy loam, 6 to 12 percent slopes, moderately eroded

Hixton, moderately eroded

Extent: 85 percent of the unit

Landform(s): hills, valley sides

Slope gradient: 6 to 12 percent

Parent material: loamy slope alluvium over sandstone residuum

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

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 4e

Hydric soil: no

Hydrologic group: C

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	fine sandy loam	moderate	1.02 to 1.18 in	5.1 to 7.3
Bt1,Bt2 --	8 to 21 in	loam	moderate	1.56 to 2.47 in	5.1 to 6.0
BC --	21 to 26 in	fine sandy loam	moderate	0.41 to 0.92 in	5.1 to 6.0
C --	26 to 31 in	sand	rapid	0.15 to 0.36 in	5.1 to 6.0
2Cr --	31 to 41 in	weathered bedrock	moderate		

Map Unit Description (MN)

Wabasha County, Minnesota

HfD2--Hixton fine sandy loam, 12 to 18 percent slopes, moderately eroded

Hixton, moderately eroded

Extent: 85 percent of the unit

Landform(s): hills, valley sides

Slope gradient: 12 to 18 percent

Parent material: loamy slope alluvium over sandstone residuum

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

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 6e

Hydric soil: no

Hydrologic group: C

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	fine sandy loam	moderate	1.02 to 1.18 in	5.1 to 7.3
Bt1,Bt2 --	8 to 21 in	loam	moderate	1.56 to 2.47 in	5.1 to 6.0
BC --	21 to 26 in	fine sandy loam	moderate	0.41 to 0.92 in	5.1 to 6.0
C --	26 to 31 in	sand	rapid	0.15 to 0.36 in	5.1 to 6.0
2Cr --	31 to 41 in	weathered bedrock	moderate		

Map Unit Description (MN)

Wabasha County, Minnesota

HfE--Hixton fine sandy loam, 18 to 35 percent slopes

Hixton

Extent: 85 percent of the unit

Landform(s): valley sides

Slope gradient: 18 to 35 percent

Parent material: loamy slope alluvium over sandstone residuum

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

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 6e

Hydric soil: no

Hydrologic group: C

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	fine sandy loam	moderate	1.02 to 1.18 in	5.1 to 7.3
Bt1,Bt2 --	8 to 21 in	loam	moderate	1.56 to 2.47 in	5.1 to 6.0
BC --	21 to 26 in	fine sandy loam	moderate	0.41 to 0.92 in	5.1 to 6.0
C --	26 to 31 in	sand	rapid	0.15 to 0.36 in	5.1 to 6.0
2Cr --	31 to 41 in	weathered bedrock	moderate		

Map Unit Description (MN)

Wabasha County, Minnesota

Hu--Huntsville silt loam

Huntsville, occasionally flooded

Extent: 85 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 5 percent

Parent material: alluvium

Restrictive feature(s): greater than 60 inches

Flooding: occasional

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 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>
A -- 0 to 50 in	silt loam	moderate	11.00 to 12.00 in	5.6 to 7.8
C -- 50 to 60 in	silt loam	moderate	1.97 to 2.17 in	5.6 to 7.8

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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Map Unit Description (MN)

Wabasha County, Minnesota

MbA--Medary silt loam, 0 to 2 percent slopes

Medary

Extent: 85 percent of the unit

Landform(s): terraces

Slope gradient: 0 to 2 percent

Parent material: lacustrine deposits

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) .43

Land capability, nonirrigated 2s

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>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.1 to 6.5
Bt1 -- 8 to 14 in	silty clay loam	moderately slow	1.13 to 1.39 in	4.5 to 6.0
Bt2 -- 14 to 24 in	clay	slow	1.08 to 1.97 in	4.5 to 6.0
C -- 24 to 60 in	clay	slow	3.22 to 4.66 in	5.1 to 7.3

Map Unit Description (MN)

Wabasha County, Minnesota

MbB--Medary silt loam, 2 to 6 percent slopes

Medary

Extent: 85 percent of the unit

Landform(s): terraces

Slope gradient: 2 to 6 percent

Parent material: lacustrine deposits

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) .43

Land capability, nonirrigated 2e

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>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.1 to 6.5
Bt1 -- 8 to 14 in	silty clay loam	moderately slow	1.13 to 1.39 in	4.5 to 6.0
Bt2 -- 14 to 24 in	clay	slow	1.08 to 1.97 in	4.5 to 6.0
C -- 24 to 60 in	clay	slow	3.22 to 4.66 in	5.1 to 7.3

Map Unit Description (MN)

Wabasha County, Minnesota

MdA--Meridian sandy loam, 0 to 2 percent slopes

Meridian

Extent: 85 percent of the unit

Landform(s): terraces

Slope gradient: 0 to 2 percent

Parent material: loamy alluvium over 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) .20

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 11 in	sandy loam	moderate	1.43 to 1.98 in	6.1 to 7.8
Bt1,Bt2 -- 11 to 28 in	loam	moderate	2.03 to 3.72 in	6.1 to 7.8
C1 -- 28 to 30 in	fine sand	moderate	0.31 to 0.37 in	5.1 to 6.5
C2 -- 30 to 60 in	fine sand	moderately rapid	2.69 to 4.19 in	5.1 to 6.5

Map Unit Description (MN)

Wabasha County, Minnesota

MdB--Meridian sandy loam, 2 to 6 percent slopes

Meridian

Extent: 85 percent of the unit

Landform(s): swales

Slope gradient: 2 to 6 percent

Parent material: loamy alluvium over 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) .20

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	sandy loam	moderate	1.43 to 1.98 in	6.1 to 7.8
Bt1,Bt2 -- 11 to 28 in	loam	moderate	2.03 to 3.72 in	6.1 to 7.8
C1 -- 28 to 30 in	fine sand	moderate	0.31 to 0.37 in	5.1 to 6.5
C2 -- 30 to 60 in	fine sand	moderately rapid	2.69 to 4.19 in	5.1 to 6.5

Map Unit Description (MN)

Wabasha County, Minnesota

MdC2--Meridian sandy loam, 6 to 12 percent slopes, moderately eroded

Meridian, moderately eroded

Extent: 85 percent of the unit

Landform(s): swales

Slope gradient: 6 to 12 percent

Parent material: loamy alluvium over 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) .20

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	moderate	1.02 to 1.42 in	6.1 to 7.8
Bt1,Bt2 -- 8 to 25 in	loam	moderate	2.08 to 3.81 in	6.1 to 7.8
C1 -- 25 to 27 in	fine sand	moderate	0.25 to 0.30 in	5.1 to 6.5
C2 -- 27 to 60 in	fine sand	moderately rapid	2.98 to 4.63 in	5.1 to 6.5

Mn--Minneiska silt loam

Minneiska, occasionally flooded

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): 3

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,A -- 0 to 21 in	silt loam	moderately rapid	4.17 to 4.59 in	7.4 to 8.4
C1 -- 21 to 27 in	loamy sand	rapid	0.71 to 0.83 in	6.1 to 7.3
C2,C3 -- 27 to 60 in	loamy sand	rapid	3.97 to 4.63 in	6.1 to 7.3

Map Unit Description (MN)

Wabasha County, Minnesota

MuA--Muscatine silt loam, 0 to 2 percent slopes

Muscatine

Extent: 85 percent of the unit

Landform(s): drainageways

Slope gradient: 0 to 2 percent

Parent material: loess

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .37

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,A -- 0 to 13 in	silt loam	moderate	2.86 to 3.12 in	5.6 to 7.3
Bt1,Bt2 -- 13 to 32 in	silt loam	moderate	3.78 to 4.16 in	5.1 to 7.3
C -- 32 to 60 in	silt loam	moderate	5.59 to 6.15 in	6.1 to 8.4

MuB--Muscatine silt loam, 2 to 6 percent slopes

Muscatine

Extent: 85 percent of the unit

Landform(s): drainageways

Slope gradient: 2 to 6 percent

Parent material: loess

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

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/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,A -- 0 to 13 in	silt loam	moderate	2.86 to 3.12 in	5.6 to 7.3
Bt1,Bt2 -- 13 to 32 in	silt loam	moderate	3.78 to 4.16 in	5.1 to 7.3
C -- 32 to 60 in	silt loam	moderate	5.59 to 6.15 in	6.1 to 8.4

Map Unit Description (MN)

Wabasha County, Minnesota

N501B--Downs silt loam, 2 to 6 percent slopes

Downs

Extent: 85 to 99 percent of the unit

Landform(s): loess hills

Slope gradient: 2 to 6 percent

Parent material: loess

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: 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>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
E, BE -- 8 to 17 in	silt loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 17 to 39 in	silty clay loam	moderate	4.41 to 4.85 in	5.1 to 6.5
BC, C -- 39 to 60 in	silt loam	moderate	4.17 to 4.59 in	5.1 to 7.8

Map Unit Description (MN)

Wabasha County, Minnesota

N501C2--Downs silt loam, 6 to 12 percent slopes, moderately eroded

Downs, moderately eroded

Extent: 85 to 95 percent of the unit

Landform(s): loess hills

Slope gradient: 6 to 12 percent

Parent material: loess

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: 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>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
E, BE -- 8 to 17 in	silt loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 17 to 39 in	silty clay loam	moderate	4.41 to 4.85 in	5.1 to 6.5
BC, C -- 39 to 60 in	silt loam	moderate	4.17 to 4.59 in	5.1 to 7.8

Map Unit Description (MN)

Wabasha County, Minnesota

N501D2--Downs silt loam, 12 to 18 percent slopes, moderately eroded

Downs, moderately eroded

Extent: 85 to 95 percent of the unit

Landform(s): loess hills

Slope gradient: 12 to 18 percent

Parent material: loess

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: 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>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
E, BE -- 8 to 17 in	silt loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 17 to 39 in	silty clay loam	moderate	4.41 to 4.85 in	5.1 to 6.5
BC, C -- 39 to 60 in	silt loam	moderate	4.17 to 4.59 in	5.1 to 7.8

Map Unit Description (MN)

Wabasha County, Minnesota

N509F--Bellechester-Etter complex, 18 to 45 percent slopes

Bellechester

Extent: 30 to 70 percent of the unit

Landform(s): valley sides

Slope gradient: 18 to 45 percent

Parent material: sandy colluvium and/or residuum

Restrictive feature(s): paralithic bedrock at 36 to 71 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated 7s

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>
A -- 0 to 12 in	sandy loam	moderately rapid	1.42 to 1.65 in	6.1 to 7.8
Bw -- 12 to 19 in	loamy sand	rapid	0.71 to 0.99 in	5.6 to 7.8
C -- 19 to 36 in	fine sand	rapid	0.68 to 1.69 in	5.6 to 7.8
Cr -- 36 to 80 in	weathered bedrock	moderate		

Etter

Extent: 15 to 50 percent of the unit

Landform(s): valley sides

Slope gradient: 18 to 35 percent

Parent material: mixed loess and erosional sediments and the underlying sandstone residuum

Restrictive feature(s): paralithic bedrock at 35 to 80 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

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 16 in	sandy loam	moderate	2.58 to 2.91 in	5.6 to 7.3
Bw -- 16 to 31 in	sandy loam	moderate	1.80 to 2.84 in	4.5 to 7.3
2C -- 31 to 35 in	fine sand	rapid	0.20 to 0.39 in	4.5 to 8.4
2Cr -- 35 to 80 in	fine sand	moderate	2.24 to 4.49 in	4.5 to 8.4

Map Unit Description (MN)

Wabasha County, Minnesota

N514B--Joy-Ossian, occasionally flooded, complex, 1 to 5 percent slopes

Joy

Extent: 30 to 75 percent of the unit

Landform(s): drainageways

Slope gradient: 2 to 5 percent

Parent material: loess

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly 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 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,A -- 0 to 17 in	silt loam	moderate	3.72 to 4.06 in	5.6 to 7.3
Bt,Btg -- 17 to 49 in	silt loam	moderate	6.38 to 7.02 in	5.1 to 7.3
Cg -- 49 to 60 in	silt loam	moderate	1.87 to 2.43 in	6.1 to 8.4

Ossian, occasionally flooded

Extent: 15 to 40 percent of the unit

Landform(s): drainageways

Slope gradient: 1 to 3 percent

Parent material: silty 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): 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,A -- 0 to 15 in	silt loam	moderate	3.29 to 3.59 in	5.6 to 7.3
AB -- 15 to 23 in	silt loam	moderate	1.57 to 1.73 in	5.6 to 7.3
Bg -- 23 to 66 in	silt loam	moderate	8.66 to 9.53 in	5.6 to 7.3
BCg -- 66 to 80 in	silt loam	moderate	2.76 to 3.03 in	6.1 to 7.8

Map Unit Description (MN)

Wabasha County, Minnesota

N517A--Oak Center-Mt. Carroll complex, 0 to 2 percent slopes

Oak Center

Extent: 25 to 85 percent of the unit

Landform(s): structural benches

Slope gradient: 0 to 2 percent

Parent material: loess over sandy residuum over sandstone bedrock

Restrictive feature(s): paralithic bedrock at 40 to 80 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 1

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>
Ap -- 0 to 9 in	silt loam	moderate	1.99 to 2.17 in	5.6 to 7.3
Bt -- 9 to 54 in	silt loam	moderate	8.98 to 9.87 in	5.1 to 7.3
2Bt -- 54 to 56 in	fine sandy loam	moderate	0.24 to 0.37 in	5.1 to 6.5
3C -- 56 to 62 in	fine sand	rapid	0.24 to 0.41 in	5.1 to 6.5
3Cr -- 62 to 80 in	weathered bedrock	moderate		

Mt. Carroll

Extent: 15 to 55 percent of the unit

Landform(s): structural benches

Slope gradient: 0 to 2 percent

Parent material: loess

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 1

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>
Ap -- 0 to 7 in	silt loam	moderate	1.56 to 1.70 in	5.6 to 7.3
E, BE -- 7 to 17 in	silt loam	moderate	1.97 to 2.17 in	5.6 to 7.3
Bt -- 17 to 55 in	silt loam	moderate	7.64 to 8.40 in	5.1 to 7.3
BC -- 55 to 62 in	silt loam	moderate	1.34 to 1.47 in	5.6 to 7.8
C -- 62 to 80 in	silt loam	moderate	3.26 to 3.62 in	5.6 to 8.4

Map Unit Description (MN)

Wabasha County, Minnesota

N518B--Lindstrom silt loam, 2 to 6 percent slopes

Lindstrom

Extent: 65 to 85 percent of the unit

Landform(s): valley sides

Slope gradient: 2 to 6 percent

Parent material: silty alluvium over colluvium

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) .32

Land capability, nonirrigated 2e

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>
Ap,A -- 0 to 29 in	silt loam	moderate	6.41 to 6.99 in	5.6 to 7.3
Bw -- 29 to 60 in	silt loam	moderate	6.14 to 6.76 in	5.6 to 7.3
C -- 60 to 80 in	loam	moderate	3.41 to 4.42 in	6.6 to 7.8

N518C2--Lindstrom silt loam, 6 to 12 percent slopes, moderately eroded

Lindstrom, moderately eroded

Extent: 65 to 85 percent of the unit

Landform(s): valley sides

Slope gradient: 6 to 12 percent

Parent material: silty alluvium over colluvium

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) .32

Land capability, nonirrigated 3e

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>
Ap,A -- 0 to 29 in	silt loam	moderate	6.41 to 6.99 in	5.6 to 7.3
Bw -- 29 to 60 in	silt loam	moderate	6.14 to 6.76 in	5.6 to 7.3
C -- 60 to 80 in	loam	moderate	3.41 to 4.42 in	6.6 to 7.8

Map Unit Description (MN)

Wabasha County, Minnesota

N518D2--Lindstrom silt loam, 12 to 18 percent slopes, moderately eroded

Lindstrom, moderately eroded

Extent: 70 to 90 percent of the unit

Landform(s): valley sides

Slope gradient: 12 to 18 percent

Parent material: silty alluvium over colluvium

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: 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>
Ap,A -- 0 to 29 in	silt loam	moderate	6.41 to 6.99 in	5.6 to 7.3
Bw -- 29 to 60 in	silt loam	moderate	6.14 to 6.76 in	5.6 to 7.3
C -- 60 to 80 in	loam	moderate	3.41 to 4.42 in	6.6 to 7.8

N519B--Vasa silt loam, 1 to 4 percent slopes

Vasa

Extent: 65 to 90 percent of the unit

Landform(s): loess hills

Slope gradient: 1 to 4 percent

Parent material: loess over loamy 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): 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: high

<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
Bt -- 9 to 53 in	silt loam	moderate	8.82 to 9.70 in	5.1 to 7.3
2Bt -- 53 to 80 in	loam	moderate	4.55 to 5.09 in	5.1 to 7.3

Map Unit Description (MN)

Wabasha County, Minnesota

N520B--Hersey-Oak Center-Mt. Carroll complex, 2 to 6 percent slopes

Hersey

Extent: 15 to 85 percent of the unit

Landform(s): loess hills

Slope gradient: 2 to 6 percent

Parent material: loess over loamy 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: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
Bt -- 8 to 58 in	silt loam	moderate	10.00 to 11.00 in	5.1 to 7.3
2Bt -- 58 to 80 in	clay loam	moderate	3.09 to 4.19 in	5.1 to 7.3

Oak Center

Extent: 10 to 40 percent of the unit

Landform(s): hills

Slope gradient: 2 to 6 percent

Parent material: loess over sandy residuum over sandstone bedrock

Restrictive feature(s): paralithic bedrock at 40 to 80 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 2e

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>
Ap -- 0 to 9 in	silt loam	moderate	1.99 to 2.17 in	5.6 to 7.3
Bt -- 9 to 54 in	silt loam	moderate	8.98 to 9.87 in	5.1 to 7.3
2Bt -- 54 to 56 in	fine sandy loam	moderate	0.24 to 0.35 in	5.1 to 6.5
3C -- 56 to 62 in	fine sand	rapid	0.24 to 0.41 in	5.1 to 6.5
3Cr -- 62 to 80 in	weathered bedrock	moderate		

Map Unit Description (MN)

Wabasha County, Minnesota

N520B--Hersey-Oak Center-Mt. Carroll complex, 2 to 6 percent slopes

Mt. Carroll

Extent: 5 to 25 percent of the unit

Landform(s): loess hills

Slope gradient: 2 to 6 percent

Parent material: loess

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: 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>
Ap -- 0 to 7 in	silt loam	moderate	1.56 to 1.70 in	5.6 to 7.3
E, BE -- 7 to 17 in	silt loam	moderate	1.97 to 2.17 in	5.6 to 7.3
Bt -- 17 to 55 in	silt loam	moderate	7.64 to 8.40 in	5.1 to 7.3
BC -- 55 to 62 in	silt loam	moderate	1.34 to 1.47 in	5.6 to 7.8
C -- 62 to 80 in	silt loam	moderate	3.26 to 3.62 in	5.6 to 8.4

Map Unit Description (MN)

Wabasha County, Minnesota

N520C2--Hersey-Oak Center-Mt. Carroll complex, 6 to 12 percent slopes, moderately eroded

Hersey, moderately eroded

Extent: 15 to 85 percent of the unit

Landform(s): loess hills

Slope gradient: 6 to 12 percent

Parent material: loess over loamy 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: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
Bt -- 8 to 58 in	silt loam	moderate	10.00 to 11.00 in	5.1 to 7.3
2Bt -- 58 to 80 in	clay loam	moderate	3.09 to 4.19 in	5.1 to 7.3

Oak Center, moderately eroded

Extent: 10 to 45 percent of the unit

Landform(s): hills

Slope gradient: 6 to 12 percent

Parent material: loess over sandy residuum over sandstone bedrock

Restrictive feature(s): paralithic bedrock at 40 to 80 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 3e

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>
Ap -- 0 to 9 in	silt loam	moderate	1.99 to 2.17 in	5.6 to 7.3
Bt -- 9 to 54 in	silt loam	moderate	8.98 to 9.87 in	5.1 to 7.3
2Bt -- 54 to 56 in	fine sandy loam	moderate	0.24 to 0.35 in	5.1 to 6.5
3C -- 56 to 62 in	fine sand	rapid	0.24 to 0.41 in	5.1 to 6.5
3Cr -- 62 to 80 in	weathered bedrock	moderate		

Map Unit Description (MN)

Wabasha County, Minnesota

N520C2--Hersey-Oak Center-Mt. Carroll complex, 6 to 12 percent slopes, moderately eroded

Mt. Carroll, moderately eroded

Extent: 5 to 25 percent of the unit

Landform(s): loess hills

Slope gradient: 6 to 12 percent

Parent material: loess

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: 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>
Ap -- 0 to 7 in	silt loam	moderate	1.56 to 1.70 in	5.6 to 7.3
E, BE -- 7 to 17 in	silt loam	moderate	1.97 to 2.17 in	5.6 to 7.3
Bt -- 17 to 55 in	silt loam	moderate	7.64 to 8.40 in	5.1 to 7.3
BC -- 55 to 62 in	silt loam	moderate	1.34 to 1.47 in	5.6 to 7.8
C -- 62 to 80 in	silt loam	moderate	3.26 to 3.62 in	5.6 to 8.4

Map Unit Description (MN)

Wabasha County, Minnesota

N521B--Mt. Carroll silt loam, 2 to 6 percent slopes

Mt. Carroll

Extent: 90 to 100 percent of the unit

Landform(s): loess hills

Slope gradient: 2 to 6 percent

Parent material: loess

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: 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>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
Bt -- 8 to 36 in	silt loam	moderate	5.59 to 6.15 in	5.1 to 7.3
Bw -- 36 to 50 in	silt loam	moderate	2.83 to 3.12 in	5.6 to 7.8
BC -- 50 to 62 in	silt loam	moderate	2.13 to 2.36 in	7.4 to 8.4
C -- 62 to 80 in	silt loam	moderate	3.26 to 3.62 in	7.4 to 8.4

Map Unit Description (MN)

Wabasha County, Minnesota

N521C2--Mt. Carroll silt loam, 6 to 12 percent slopes, moderately eroded

Mt. Carroll, moderately eroded

Extent: 80 to 95 percent of the unit

Landform(s): loess hills

Slope gradient: 6 to 12 percent

Parent material: loess

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: 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>
Ap --	0 to 8 in	silt loam		moderate	1.73 to 1.89 in	5.6 to 7.3
Bt --	8 to 36 in	silt loam		moderate	5.59 to 6.15 in	5.1 to 7.3
Bw --	36 to 50 in	silt loam		moderate	2.83 to 3.12 in	5.6 to 7.8
BC --	50 to 62 in	silt loam		moderate	2.13 to 2.36 in	7.4 to 8.4
C --	62 to 80 in	silt loam		moderate	3.26 to 3.62 in	7.4 to 8.4

Map Unit Description (MN)

Wabasha County, Minnesota

N521D2--Mt. Carroll silt loam, 12 to 18 percent slopes, moderately eroded

Mt. Carroll, moderately eroded

Extent: 75 to 100 percent of the unit

Landform(s): loess hills

Slope gradient: 12 to 18 percent

Parent material: loess

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: 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>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
Bt -- 8 to 36 in	silt loam	moderate	5.59 to 6.15 in	5.1 to 7.3
Bw -- 36 to 50 in	silt loam	moderate	2.83 to 3.12 in	5.6 to 7.8
BC -- 50 to 62 in	silt loam	moderate	2.13 to 2.36 in	7.4 to 8.4
C -- 62 to 80 in	silt loam	moderate	3.26 to 3.62 in	7.4 to 8.4

Map Unit Description (MN)

Wabasha County, Minnesota

N526F--Gale-Oak Center complex, 18 to 45 percent slopes

Gale

Extent: 20 to 85 percent of the unit

Landform(s): valley sides

Slope gradient: 18 to 45 percent

Parent material: loess over sandstone bedrock

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

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

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: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 9 in	silt loam	moderate	1.99 to 2.17 in	5.6 to 7.3
Bt -- 9 to 30 in	silt loam	moderate	4.17 to 4.59 in	5.1 to 7.3
2Cr -- 30 to 80 in	weathered bedrock	moderate		

Oak Center

Extent: 15 to 45 percent of the unit

Landform(s): valley sides

Slope gradient: 18 to 45 percent

Parent material: loess over sandy residuum over sandstone bedrock

Restrictive feature(s): paralithic bedrock at 40 to 80 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: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 9 in	silt loam	moderate	1.99 to 2.17 in	5.6 to 7.3
Bt -- 9 to 54 in	silt loam	moderate	8.98 to 9.87 in	5.1 to 7.3
2Bt -- 54 to 56 in	fine sandy loam	moderate	0.24 to 0.35 in	5.1 to 6.5
3C -- 56 to 62 in	fine sand	rapid	0.24 to 0.41 in	5.1 to 6.5
3Cr -- 62 to 80 in	weathered bedrock	moderate		

Map Unit Description (MN)

Wabasha County, Minnesota

N555B--Tama-Dinsmore complex, 2 to 6 percent slopes

Tama

Extent: 15 to 80 percent of the unit

Landform(s): loess hills

Slope gradient: 2 to 6 percent

Parent material: loess

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: 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>
Ap,A -- 0 to 13 in	silt loam	moderate	2.86 to 3.12 in	5.6 to 7.3
Bt -- 13 to 44 in	silt loam	moderate	6.22 to 6.84 in	5.1 to 6.5
BC -- 44 to 76 in	silt loam	moderate	6.38 to 7.02 in	5.6 to 7.8
C -- 76 to 80 in	silt loam	moderate	0.79 to 0.87 in	5.6 to 8.4

Dinsmore

Extent: 15 to 75 percent of the unit

Landform(s): loess hills

Slope gradient: 2 to 6 percent

Parent material: loess over loamy 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: 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>
Ap,A -- 0 to 16 in	silt loam	moderate	3.55 to 3.87 in	5.6 to 7.3
Bt -- 16 to 48 in	silty clay loam	moderate	6.38 to 7.02 in	5.1 to 7.3
2BC -- 48 to 80 in	loam	moderately slow	5.10 to 6.06 in	6.1 to 8.3

Map Unit Description (MN)

Wabasha County, Minnesota

N555C2--Tama-Dinsmore complex, 6 to 12 percent slopes, moderately eroded

Tama, moderately eroded

Extent: 20 to 80 percent of the unit

Landform(s): loess hills

Slope gradient: 6 to 12 percent

Parent material: loess

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: 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>
Ap,A -- 0 to 13 in	silt loam	moderate	2.86 to 3.12 in	5.6 to 7.3
Bt -- 13 to 44 in	silt loam	moderate	6.22 to 6.84 in	5.1 to 6.5
BC -- 44 to 76 in	silt loam	moderate	6.38 to 7.02 in	5.6 to 7.8
C -- 76 to 80 in	silt loam	moderate	0.79 to 0.87 in	5.6 to 8.4

Dinsmore, moderately eroded

Extent: 15 to 75 percent of the unit

Landform(s): loess hills

Slope gradient: 6 to 12 percent

Parent material: loess over loamy 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: 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>
Ap,A -- 0 to 16 in	silt loam	moderate	3.55 to 3.87 in	5.6 to 7.3
Bt -- 16 to 48 in	silty clay loam	moderate	6.38 to 7.02 in	5.1 to 7.3
2BC -- 48 to 80 in	loam	moderately slow	5.10 to 6.06 in	6.1 to 8.3

Map Unit Description (MN)

Wabasha County, Minnesota

N572C2--Downs-Hersey, bedrock substratum, complex, 6 to 12 percent slopes, moderately eroded

Downs, moderately eroded

Extent: 45 to 75 percent of the unit

Landform(s): loess hills

Slope gradient: 6 to 12 percent

Parent material: loess

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: 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>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
E, BE -- 8 to 17 in	silt loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 17 to 39 in	silty clay loam	moderate	4.41 to 4.85 in	5.1 to 6.5
BC, C -- 39 to 60 in	silt loam	moderate	4.17 to 4.59 in	5.1 to 7.8

Hersey, bedrock substratum, moderately eroded

Extent: 15 to 45 percent of the unit

Landform(s): loess hills

Slope gradient: 6 to 12 percent

Parent material: loess over loamy till over limestone bedrock

Restrictive feature(s): lithic bedrock at 60 to 80 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: high

<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
Bt -- 9 to 60 in	silt loam	moderate	10.16 to 11.17 in	5.1 to 6.5
2BC -- 60 to 70 in	clay loam	moderate	1.43 to 1.94 in	5.1 to 7.3
3R -- 70 to 80 in	weathered bedrock	rapid		

Map Unit Description (MN)

Wabasha County, Minnesota

N572D2--Downs-Hersey, bedrock substratum, complex, 12 to 18 percent slopes, moderately eroded

Downs, moderately eroded

Extent: 45 to 80 percent of the unit

Landform(s): loess hills

Slope gradient: 12 to 18 percent

Parent material: loess

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: 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>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
E, BE -- 8 to 17 in	silt loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 17 to 39 in	silty clay loam	moderate	4.41 to 4.85 in	5.1 to 6.5
BC, C -- 39 to 60 in	silt loam	moderate	4.17 to 4.59 in	5.1 to 7.8

Hersey, bedrock substratum, moderately eroded

Extent: 15 to 45 percent of the unit

Landform(s): loess hills

Slope gradient: 12 to 18 percent

Parent material: loess over loamy till over limestone bedrock

Restrictive feature(s): lithic bedrock at 60 to 80 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) .49

Land capability, nonirrigated 4e

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>
Ap -- 0 to 9 in	silt loam	moderate	1.99 to 2.17 in	5.6 to 7.3
Bt -- 9 to 60 in	silt loam	moderate	10.16 to 11.17 in	5.1 to 6.5
2BC -- 60 to 70 in	clay loam	moderate	1.43 to 1.94 in	5.1 to 7.3
3R -- 70 to 80 in	weathered bedrock	rapid		

Map Unit Description (MN)

Wabasha County, Minnesota

N574B--Downs-Hersey complex, 2 to 6 percent slopes

Downs

Extent: 15 to 80 percent of the unit

Landform(s): loess hills

Slope gradient: 2 to 6 percent

Parent material: loess

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: 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>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
E, BE -- 8 to 17 in	silt loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 17 to 39 in	silty clay loam	moderate	4.41 to 4.85 in	5.1 to 6.5
BC, C -- 39 to 60 in	silt loam	moderate	4.17 to 4.59 in	5.1 to 7.8

Hersey

Extent: 15 to 80 percent of the unit

Landform(s): loess hills

Slope gradient: 2 to 6 percent

Parent material: loess over loamy 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: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
Bt -- 8 to 58 in	silt loam	moderate	10.00 to 11.00 in	5.1 to 6.5
2Bt -- 58 to 80 in	clay loam	moderate	3.09 to 4.19 in	5.1 to 7.3

Map Unit Description (MN)

Wabasha County, Minnesota

N574C2--Downs-Hersey complex, 6 to 12 percent slopes, moderately eroded

Downs, moderately eroded

Extent: 20 to 80 percent of the unit

Landform(s): loess hills

Slope gradient: 6 to 12 percent

Parent material: loess

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: 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>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
E, BE -- 8 to 17 in	silt loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 17 to 39 in	silty clay loam	moderate	4.41 to 4.85 in	5.1 to 6.5
BC, C -- 39 to 60 in	silt loam	moderate	4.17 to 4.59 in	5.1 to 7.8

Hersey, moderately eroded

Extent: 15 to 75 percent of the unit

Landform(s): loess hills

Slope gradient: 6 to 12 percent

Parent material: loess over loamy 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: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
Bt -- 8 to 58 in	silt loam	moderate	10.00 to 11.00 in	5.1 to 6.5
2Bt -- 58 to 80 in	clay loam	moderate	3.09 to 4.19 in	5.1 to 7.3

Map Unit Description (MN)

Wabasha County, Minnesota

N574D2--Downs-Hersey complex, 12 to 18 percent slopes, moderately eroded

Downs, moderately eroded

Extent: 15 to 60 percent of the unit

Landform(s): loess hills

Slope gradient: 12 to 18 percent

Parent material: loess

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: 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>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
E, BE -- 8 to 17 in	silt loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 17 to 39 in	silty clay loam	moderate	4.41 to 4.85 in	5.1 to 6.5
BC, C -- 39 to 60 in	silt loam	moderate	4.17 to 4.59 in	5.1 to 7.8

Hersey, moderately eroded

Extent: 15 to 60 percent of the unit

Landform(s): loess hills

Slope gradient: 12 to 18 percent

Parent material: loess over loamy 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) .49

Land capability, nonirrigated 4e

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>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
Bt -- 8 to 58 in	silt loam	moderate	10.00 to 11.00 in	5.1 to 6.5
2Bt -- 58 to 80 in	clay loam	moderate	3.09 to 4.19 in	5.1 to 7.3

Map Unit Description (MN)

Wabasha County, Minnesota

N578B--Barremills silt loam, drainageway, 1 to 5 percent slopes, occasionally flooded

Barremills, drainageway, occasionally flooded

Extent: 75 to 98 percent of the unit

Landform(s): drainageways

Slope gradient: 1 to 5 percent

Parent material: silty slope alluvium over loess

Restrictive feature(s): greater than 60 inches

Flooding: occasional

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: high

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,AB --	0 to 27 in	silt loam	moderate	5.98 to 6.52 in	5.6 to 7.3
Bt --	27 to 65 in	silt loam	moderate	7.56 to 8.31 in	5.1 to 7.3
BC --	65 to 80 in	silt loam	moderate	2.99 to 3.29 in	5.1 to 7.3

Map Unit Description (MN)

Wabasha County, Minnesota

N580G--Brodale, very flaggy-Bellechester-Rock outcrop complex, 45 to 90 percent slopes

Brodale, very flaggy

Extent: 20 to 70 percent of the unit

Landform(s): valley sides

Slope gradient: 45 to 90 percent

Parent material: loamy-skeletal colluvium

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .10

Land capability, nonirrigated 7s

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 12 in	very flaggy loam	moderate	0.83 to 1.77 in	6.6 to 8.4
C -- 12 to 60 in	very flaggy loam	moderately rapid	1.92 to 7.20 in	7.4 to 8.4

Bellechester

Extent: 15 to 30 percent of the unit

Landform(s): valley sides

Slope gradient: 45 to 90 percent

Parent material: sandy colluvium and/or residuum

Restrictive feature(s): paralithic bedrock at 40 to 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 1

Wind erodibility index (WEI): 220

Kw factor (surface layer) .05

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 16 in	sand	rapid	0.81 to 1.29 in	6.1 to 8.4
Bw1,Bw2,BC -- 16 to 42 in	sand	rapid	0.78 to 2.60 in	6.6 to 8.4
Cr -- 42 to 60 in	weathered bedrock	moderate		

Map Unit Description (MN)

Wabasha County, Minnesota

N580G--Brodale, very flaggy-Bellechester-Rock outcrop complex, 45 to 90 percent slopes

Rock outcrop

Extent: 5 to 15 percent of the unit

Landform(s): valley sides

Slope gradient:

Parent material:

Restrictive feature(s): lithic bedrock

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 8

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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N584E--Downs silt loam, valleys, 18 to 25 percent slopes

Downs, valleys

Extent: 45 to 85 percent of the unit

Landform(s): valley sides

Slope gradient: 18 to 25 percent

Parent material: loess

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: 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>
A -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
E, BE -- 8 to 17 in	silt loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 17 to 39 in	silty clay loam	moderate	4.41 to 4.85 in	5.1 to 6.5
BC, C -- 39 to 60 in	silt loam	moderate	4.17 to 4.59 in	5.1 to 7.8

Map Unit Description (MN)

Wabasha County, Minnesota

N585B--Mt. Carroll-Hersey complex, 2 to 6 percent slopes

Mt. Carroll

Extent: 15 to 85 percent of the unit

Landform(s): loess hills

Slope gradient: 2 to 6 percent

Parent material: loess

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: 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>
Ap -- 0 to 7 in	silt loam	moderate	1.56 to 1.70 in	5.6 to 7.3
E, BE -- 7 to 17 in	silt loam	moderate	1.97 to 2.17 in	5.6 to 7.3
Bt -- 17 to 55 in	silt loam	moderate	7.64 to 8.40 in	5.1 to 7.3
BC -- 55 to 62 in	silt loam	moderate	1.34 to 1.47 in	5.6 to 7.8
C -- 62 to 80 in	silt loam	moderate	3.26 to 3.62 in	5.6 to 8.4

Hersey

Extent: 15 to 85 percent of the unit

Landform(s): loess hills

Slope gradient: 2 to 6 percent

Parent material: loess over loamy 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: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
Bt -- 8 to 58 in	silt loam	moderate	10.00 to 11.00 in	5.1 to 7.3
2Bt -- 58 to 80 in	clay loam	moderate	3.09 to 4.19 in	5.1 to 7.3

Map Unit Description (MN)

Wabasha County, Minnesota

N585C2--Mt. Carroll-Hersey complex, 6 to 12 percent slopes, moderately eroded

Mt. Carroll, moderately eroded

Extent: 20 to 80 percent of the unit

Landform(s): loess hills

Slope gradient: 6 to 12 percent

Parent material: loess

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: 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>
Ap -- 0 to 7 in	silt loam	moderate	1.56 to 1.70 in	5.6 to 7.3
E, BE -- 7 to 17 in	silt loam	moderate	1.97 to 2.17 in	5.6 to 7.3
Bt -- 17 to 55 in	silt loam	moderate	7.64 to 8.40 in	5.1 to 7.3
BC -- 55 to 62 in	silt loam	moderate	1.34 to 1.47 in	5.6 to 7.8
C -- 62 to 80 in	silt loam	moderate	3.26 to 3.62 in	5.6 to 8.4

Hersey, moderately eroded

Extent: 15 to 75 percent of the unit

Landform(s): loess hills

Slope gradient: 6 to 12 percent

Parent material: loess over loamy 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: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
Bt -- 8 to 58 in	silt loam	moderate	10.00 to 11.00 in	5.1 to 7.3
2Bt -- 58 to 80 in	clay loam	moderate	3.09 to 4.19 in	5.1 to 7.3

Map Unit Description (MN)

Wabasha County, Minnesota

N585D2--Mt. Carroll-Hersey complex, 12 to 18 percent slopes, moderately eroded

Mt. Carroll, moderately eroded

Extent: 15 to 60 percent of the unit

Landform(s): loess hills

Slope gradient: 12 to 18 percent

Parent material: loess

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: 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>
Ap -- 0 to 7 in	silt loam	moderate	1.56 to 1.70 in	5.6 to 7.3
E, BE -- 7 to 17 in	silt loam	moderate	1.97 to 2.17 in	5.6 to 7.3
Bt -- 17 to 55 in	silt loam	moderate	7.64 to 8.40 in	5.1 to 7.3
BC -- 55 to 62 in	silt loam	moderate	1.34 to 1.47 in	5.6 to 7.8
C -- 62 to 80 in	silt loam	moderate	3.26 to 3.62 in	5.6 to 8.4

Hersey, moderately eroded

Extent: 15 to 60 percent of the unit

Landform(s): loess hills

Slope gradient: 12 to 18 percent

Parent material: loess over loamy 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) .49

Land capability, nonirrigated 4e

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>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
Bt -- 8 to 58 in	silt loam	moderate	10.00 to 11.00 in	5.1 to 7.3
2Bt -- 58 to 80 in	clay loam	moderate	3.09 to 4.19 in	5.1 to 7.3

Map Unit Description (MN)

Wabasha County, Minnesota

N590B--Tama silt loam, valleys, 2 to 6 percent slopes

Tama, valleys

Extent: 65 to 90 percent of the unit

Landform(s): valley sides

Slope gradient: 2 to 6 percent

Parent material: loess

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: 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>
Ap,A -- 0 to 16 in	silt loam	moderate	3.55 to 3.87 in	5.6 to 7.3
Bt -- 16 to 58 in	silt loam	moderate	8.35 to 9.18 in	5.1 to 6.5
BC -- 58 to 80 in	silt loam	moderate	4.41 to 4.85 in	5.6 to 7.8

N590C2--Tama silt loam, valleys, 6 to 12 percent slopes, moderately eroded

Tama, valleys, moderately eroded

Extent: 65 to 95 percent of the unit

Landform(s): valley sides

Slope gradient: 6 to 12 percent

Parent material: loess

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: 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>
Ap,A -- 0 to 16 in	silt loam	moderate	3.55 to 3.87 in	5.6 to 7.3
Bt -- 16 to 58 in	silt loam	moderate	8.35 to 9.18 in	5.1 to 6.5
BC -- 58 to 80 in	silt loam	moderate	4.41 to 4.85 in	5.6 to 7.8

Map Unit Description (MN)

Wabasha County, Minnesota

N590D2--Tama silt loam, valleys, 12 to 18 percent slopes, moderately eroded

Tama, valleys, moderately eroded

Extent: 40 to 90 percent of the unit

Landform(s): valley sides

Slope gradient: 12 to 18 percent

Parent material: loess

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: 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>
Ap,A -- 0 to 16 in	silt loam	moderate	3.55 to 3.87 in	5.6 to 7.3
Bt -- 16 to 58 in	silt loam	moderate	8.35 to 9.18 in	5.1 to 6.5
BC -- 58 to 80 in	silt loam	moderate	4.41 to 4.85 in	5.6 to 7.8

N606A--Tama silt loam, sandy substratum, 0 to 3 percent slopes

Tama, sandy substratum

Extent: 45 to 75 percent of the unit

Landform(s): stream terraces

Slope gradient: 0 to 3 percent

Parent material: loess over sandy and gravelly 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): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated 1

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>
Ap -- 0 to 11 in	silt loam	moderate	2.43 to 2.65 in	5.6 to 7.3
AB -- 11 to 18 in	silt loam	moderate	1.42 to 1.56 in	5.6 to 7.3
Bt -- 18 to 72 in	silt loam	moderate	10.79 to 11.87 in	5.1 to 6.5
2BC -- 72 to 80 in	loamy sand	very rapid	0.16 to 0.79 in	5.1 to 6.5

Map Unit Description (MN)

Wabasha County, Minnesota

N614A--Kalmarville-Radford complex, 0 to 3 percent slopes, frequently flooded

Kalmarville, frequently flooded

Extent: 15 to 75 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 2 percent

Parent material: coarse-loamy alluvium over sandy alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent

Ponding: none

Drainage class: poorly 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 5w

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>
A -- 0 to 43 in	silt loam	moderate	9.44 to 10.30 in	5.6 to 7.8
2Cg -- 43 to 60 in	sand	rapid	0.85 to 1.69 in	5.6 to 7.8

Radford, frequently flooded

Extent: 15 to 50 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 3 percent

Parent material: silty alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent

Ponding: none

Drainage class: somewhat poorly 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 3w

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>
A -- 0 to 12 in	silt loam	moderate	2.60 to 2.83 in	5.6 to 7.8
C -- 12 to 33 in	silt loam	moderate	4.25 to 4.68 in	6.1 to 7.8
Ab -- 33 to 72 in	silt loam	moderate	6.63 to 9.35 in	6.1 to 7.8
Bgb -- 72 to 80 in	silt loam	moderate	1.18 to 1.73 in	6.1 to 7.8

Map Unit Description (MN)

Wabasha County, Minnesota

N619A--Kennebec-Lawson, channeled, complex, 0 to 3 percent slopes, flooded

Kennebec, occasionally flooded

Extent: 20 to 75 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 3 percent

Parent material: silty alluvium

Restrictive feature(s): greater than 60 inches

Flooding: occasional

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 1

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>
Ap,A -- 0 to 41 in	silt loam	moderate	9.01 to 9.83 in	5.6 to 7.3
AC -- 41 to 54 in	silt loam	moderate	2.34 to 2.86 in	6.1 to 7.3
C -- 54 to 80 in	silt loam	moderate	4.68 to 5.72 in	6.1 to 7.3

Lawson, channeled, frequently flooded

Extent: 20 to 75 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 3 percent

Parent material: silty alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .37

Land capability, nonirrigated 5w

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,A -- 0 to 30 in	silt loam	moderate	6.58 to 7.18 in	6.1 to 7.8
C -- 30 to 60 in	silt loam	moderately rapid	4.49 to 6.58 in	6.1 to 7.8

Map Unit Description (MN)

Wabasha County, Minnesota

N638G--Brodale, flaggy-Bellechester complex, 30 to 70 percent slopes

Brodale, flaggy

Extent: 20 to 75 percent of the unit

Landform(s): valley sides

Slope gradient: 30 to 70 percent

Parent material: loamy colluvium

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .17

Land capability, nonirrigated 7s

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 12 in channery loam	moderate	1.54 to 2.01 in	6.6 to 8.4
C --	12 to 60 in very flaggy loam	moderately rapid	3.36 to 7.20 in	7.4 to 8.4

Bellechester

Extent: 15 to 30 percent of the unit

Landform(s): valley sides

Slope gradient: 30 to 70 percent

Parent material: sandy colluvium and/or residuum

Restrictive feature(s): paralithic bedrock at 40 to 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) .10

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 16 in loamy sand	rapid	1.61 to 2.26 in	6.1 to 7.8
Bw,BC --	16 to 42 in sand	rapid	1.04 to 2.08 in	6.6 to 8.4
Cr --	42 to 60 in weathered bedrock	moderate		

Map Unit Description (MN)

Wabasha County, Minnesota

N639F--Frontenac-Lacrescent complex, 20 to 45 percent slopes

Frontenac

Extent: 20 to 85 percent of the unit

Landform(s): valley sides

Slope gradient: 20 to 45 percent

Parent material: loamy sediments over loamy-skeletal colluvium

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>
A,AB -- 0 to 12 in	silt loam	moderate	2.60 to 2.83 in	5.6 to 7.3
Bw -- 12 to 30 in	silt loam	moderate	3.08 to 3.98 in	5.6 to 7.3
2C -- 30 to 80 in	very channery loam	moderately rapid	3.00 to 8.00 in	6.6 to 7.8

Lacrescent

Extent: 15 to 60 percent of the unit

Landform(s): valley sides

Slope gradient: 20 to 45 percent

Parent material: silty and loamy sediments over loamy-skeletal colluvium

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 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 10 in	silt loam	moderate	2.17 to 2.36 in	6.1 to 7.3
AB -- 10 to 17 in	channery silt loam	moderate	1.20 to 1.35 in	6.1 to 7.3
2Bw -- 17 to 28 in	very channery silt loam	moderately rapid	0.77 to 1.76 in	6.1 to 7.3
2C -- 28 to 60 in	very channery silt loam	moderately rapid	2.23 to 5.10 in	7.4 to 7.8

Map Unit Description (MN)

Wabasha County, Minnesota

N639G--Frontenac-Lacrescent complex, 30 to 70 percent slopes

Frontenac

Extent: 20 to 85 percent of the unit

Landform(s): valley sides

Slope gradient: 30 to 70 percent

Parent material: loamy sediments over loamy-skeletal colluvium

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>
A,AB -- 0 to 12 in	silt loam	moderate	2.60 to 2.83 in	5.6 to 7.3
Bw -- 12 to 30 in	silt loam	moderate	3.08 to 3.98 in	5.6 to 7.3
2C -- 30 to 80 in	very channery loam	moderately rapid	3.00 to 8.00 in	6.6 to 7.8

Lacrescent

Extent: 15 to 60 percent of the unit

Landform(s): valley sides

Slope gradient: 30 to 70 percent

Parent material: silty and loamy sediments over loamy-skeletal colluvium

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 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 10 in	silt loam	moderate	2.17 to 2.36 in	6.1 to 7.3
AB -- 10 to 17 in	channery silt loam	moderate	1.20 to 1.35 in	6.1 to 7.3
2Bw -- 17 to 28 in	very channery silt loam	moderately rapid	0.77 to 1.76 in	6.1 to 7.3
2C -- 28 to 60 in	very channery silt loam	moderately rapid	2.23 to 5.10 in	7.4 to 7.8

Map Unit Description (MN)

Wabasha County, Minnesota

N640G--Lacrescent, flaggy-Frontenac-Rock outcrop complex, 45 to 90 percent slopes

Lacrescent, flaggy

Extent: 20 to 80 percent of the unit

Landform(s): valley sides

Slope gradient: 45 to 90 percent

Parent material: silty and loamy sediments over loamy-skeletal colluvium

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): 7

Wind erodibility index (WEI): 38

Kw factor (surface layer) .17

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,AB -- 0 to 17 in	flaggy silt loam	moderate	3.05 to 3.72 in	6.6 to 7.3
2Bw -- 17 to 28 in	very channery silt loam	moderately rapid	0.88 to 1.65 in	6.1 to 7.3
2C -- 28 to 60 in	very channery silt loam	moderately rapid	2.23 to 5.10 in	7.4 to 7.8

Frontenac

Extent: 15 to 45 percent of the unit

Landform(s): valley sides

Slope gradient: 45 to 90 percent

Parent material: loamy sediments over loamy-skeletal colluvium

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>
A,AB -- 0 to 12 in	silt loam	moderate	2.60 to 2.83 in	5.6 to 7.3
Bw -- 12 to 30 in	silt loam	moderate	3.08 to 3.98 in	5.6 to 7.3
2C -- 30 to 80 in	very channery loam	moderately rapid	3.00 to 8.00 in	6.6 to 7.8

Map Unit Description (MN)

Wabasha County, Minnesota

N640G--Lacrescent, flaggy-Frontenac-Rock outcrop complex, 45 to 90 percent slopes

Rock outcrop

Extent: 5 to 15 percent of the unit

Landform(s): valley sides

Slope gradient:

Parent material:

Restrictive feature(s): lithic bedrock

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 8

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>

N641F--Brodale channery loam, 20 to 45 percent slopes, flaggy

Brodale, flaggy

Extent: 55 to 85 percent of the unit

Landform(s): valley sides

Slope gradient: 20 to 45 percent

Parent material: loamy-skeletal colluvium

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .17

Land capability, nonirrigated 7s

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 12 in	flaggy loam	moderate	1.54 to 2.01 in	6.6 to 8.4
C -- 12 to 60 in	very flaggy loam	moderately rapid	3.36 to 7.20 in	7.4 to 8.4

Map Unit Description (MN)

Wabasha County, Minnesota

N644A--Abscota loamy sand, 0 to 3 percent slopes, occasionally flooded

Abscota, occasionally flooded

Extent: 60 to 85 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 3 percent

Parent material: sandy 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): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .05

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 5 in	loamy sand	rapid	0.46 to 0.56 in	5.6 to 7.3
Bw -- 5 to 14 in	loamy sand	rapid	0.45 to 1.00 in	5.6 to 7.8
C -- 14 to 60 in	sand	very rapid	0.91 to 4.57 in	6.1 to 7.8

Map Unit Description (MN)

Wabasha County, Minnesota

N645A--Nodaway-Minneiska complex, 0 to 3 percent slopes, frequently flooded

Nodaway, frequently flooded

Extent: 15 to 50 percent of the unit

Landform(s): -- error in exists on --

Slope gradient: 0 to 3 percent

Parent material: silty 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): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated 5w

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>
A -- 0 to 7 in	silt loam	moderate	1.42 to 1.63 in	6.1 to 7.3
C1 -- 7 to 31 in	stratified silt loam to silty clay loam	moderate	4.80 to 5.52 in	6.1 to 7.3
C2 -- 31 to 42 in	stratified silt loam to silty clay loam	moderate	2.20 to 2.54 in	6.1 to 7.3
C3 -- 42 to 80 in	stratified silt loam to silty clay loam	moderate	7.56 to 8.69 in	6.1 to 7.3

Minneiska, frequently flooded

Extent: 15 to 40 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 3 percent

Parent material: loamy alluvium over loamy to sandy sediment

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): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated 5w

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 10 in	fine sandy loam	moderately rapid	1.48 to 1.77 in	7.4 to 8.4
C -- 10 to 60 in	stratified sand to silt loam	moderately rapid	6.50 to 9.00 in	7.4 to 8.4

Map Unit Description (MN)

Wabasha County, Minnesota

N646A--Ceresco-Spillville complex, 0 to 3 percent slopes, frequently flooded

Ceresco, frequently flooded

Extent: 20 to 75 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 3 percent

Parent material: loamy alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .17

Land capability, nonirrigated 5w

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>
A -- 0 to 12 in	sandy loam	moderately rapid	1.54 to 2.13 in	6.1 to 7.8
Bw -- 12 to 21 in	sandy loam	moderately rapid	0.81 to 1.54 in	6.1 to 7.8
Bg -- 21 to 30 in	loamy fine sand	rapid	0.54 to 1.00 in	5.6 to 7.3
Cg -- 30 to 48 in	sandy loam	moderately rapid	0.72 to 3.44 in	7.4 to 8.4

Spillville, frequently flooded

Extent: 15 to 30 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 3 percent

Parent material: loamy alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .15

Land capability, nonirrigated 5w

Hydric soil: no

Hydrologic group: B/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 54 in	loam	moderate	10.79 to 11.87 in	5.6 to 7.3
C -- 54 to 80 in	loam	moderate	3.12 to 4.94 in	5.6 to 7.3

Map Unit Description (MN)

Wabasha County, Minnesota

N647A--Dunnbot-Scotah complex, 0 to 3 percent slopes, frequently flooded

Dunnbot, frequently flooded

Extent: 20 to 50 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 3 percent

Parent material: stratified loamy alluvium over sandy alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated 5w

Hydric soil: no

Hydrologic group: A

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 9 in	fine sandy loam	moderately rapid	1.45 to 1.63 in	6.1 to 7.8
A2,A3,A4 -- 9 to 36 in	stratified very fine sandy loam to silt loam	moderately rapid	2.68 to 4.55 in	6.1 to 7.8
Bw -- 36 to 45 in	sandy loam	moderately rapid	0.81 to 1.54 in	6.1 to 7.8
C -- 45 to 72 in	fine sand	rapid	1.63 to 2.17 in	5.6 to 7.3

Scotah, frequently flooded

Extent: 15 to 50 percent of the unit

Landform(s): natural levees on flood plains

Slope gradient: 0 to 3 percent

Parent material: sandy 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): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated 5w

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 4 in	sandy loam	moderately rapid	0.51 to 0.71 in	5.6 to 7.3
BC -- 4 to 49 in	loamy sand	rapid	2.24 to 4.94 in	5.6 to 7.3
C -- 49 to 80 in	stratified sand to gravelly sand	very rapid	0.62 to 3.11 in	5.6 to 7.3

Map Unit Description (MN)

Wabasha County, Minnesota

N648A--Glendora-Kalmarville complex, 0 to 2 percent slopes, frequently flooded

Glendora, frequently flooded

Extent: 25 to 85 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 2 percent

Parent material: sandy alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .15

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>
A -- 0 to 8 in	sandy loam	moderately rapid	1.02 to 1.18 in	5.6 to 7.8
Cg -- 8 to 21 in	stratified sand to loamy sand	rapid	0.65 to 1.43 in	5.6 to 7.8
C -- 21 to 60 in	sand	rapid	1.95 to 3.90 in	5.6 to 7.8

Kalmarville, frequently flooded

Extent: 15 to 50 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 2 percent

Parent material: coarse-loamy alluvium over sandy alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent

Ponding: none

Drainage class: poorly 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 5w

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>
A -- 0 to 43 in	silt loam	moderate	9.44 to 10.30 in	5.6 to 7.8
2Cg -- 43 to 60 in	sand	rapid	0.85 to 1.69 in	5.6 to 7.8

Map Unit Description (MN)

Wabasha County, Minnesota

N649A--Shandep loam, channeled, 0 to 2 percent slopes, frequently flooded

Shandep, channeled, frequently flooded

Extent: 65 to 95 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 2 percent

Parent material: loamy alluvium over sandy and gravelly alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 7w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 5 in	loam	moderate	1.02 to 1.13 in	6.1 to 7.3
A --	5 to 29 in	clay loam	moderate	4.08 to 5.28 in	6.1 to 7.3
Bg1 --	29 to 37 in	clay loam	moderate	1.18 to 1.57 in	6.1 to 7.3
Bg2 --	37 to 45 in	loam	moderate	1.18 to 1.57 in	6.1 to 7.8
2Cg --	45 to 60 in	loamy sand	very rapid	0.30 to 1.50 in	6.6 to 8.4

Map Unit Description (MN)

Wabasha County, Minnesota

N650F--Downs-Oak Center complex, 25 to 35 percent slopes

Downs

Extent: 45 to 85 percent of the unit

Landform(s): valley sides

Slope gradient: 25 to 35 percent

Parent material: loess

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: 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>
A -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
E, BE -- 8 to 17 in	silt loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 17 to 39 in	silty clay loam	moderate	4.41 to 4.85 in	5.1 to 6.5
BC, C -- 39 to 60 in	silt loam	moderate	4.17 to 4.59 in	5.1 to 7.8

Oak Center

Extent: 15 to 40 percent of the unit

Landform(s): valley sides

Slope gradient: 25 to 35 percent

Parent material: loess over sandy residuum over sandstone bedrock

Restrictive feature(s): paralithic bedrock at 40 to 80 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 7e

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>
A -- 0 to 9 in	silt loam	moderate	1.99 to 2.17 in	5.6 to 7.3
Bt -- 9 to 54 in	silt loam	moderate	8.98 to 9.87 in	5.1 to 7.3
2Bt -- 54 to 56 in	fine sandy loam	moderate	0.24 to 0.35 in	5.1 to 6.5
3C -- 56 to 62 in	fine sand	rapid	0.24 to 0.41 in	5.1 to 6.5
3Cr -- 62 to 80 in	weathered bedrock	moderate		

Map Unit Description (MN)

Wabasha County, Minnesota

N660A--Minneiska sandy loam, 0 to 2 percent slopes, occasionally flooded

Minneiska, occasionally flooded

Extent: 70 to 90 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 2 percent

Parent material: loamy alluvium over loamy to sandy sediment

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): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

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>
A -- 0 to 10 in	sandy loam	moderately rapid	1.28 to 1.77 in	7.4 to 8.4
C -- 10 to 60 in	stratified sand to silt loam	moderately rapid	6.50 to 9.00 in	7.4 to 8.4

N665A--Rawles silt loam, 0 to 2 percent slopes, occasionally flooded

Rawles, occasionally flooded

Extent: 60 to 90 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 2 percent

Parent material: silty 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) .32

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>
Ap -- 0 to 8 in	silt loam	moderate	1.65 to 1.81 in	6.6 to 8.4
C -- 8 to 26 in	silt loam	moderate	3.62 to 3.98 in	6.6 to 8.4
Ab -- 26 to 60 in	silt loam	moderate	7.11 to 7.79 in	6.1 to 7.8

Map Unit Description (MN)

Wabasha County, Minnesota

N670A--Dockery silt loam, 0 to 2 percent slopes, occasionally flooded

Dockery, occasionally flooded

Extent: 70 to 90 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 2 percent

Parent material: silty alluvium

Restrictive feature(s): greater than 60 inches

Flooding: occasional

Ponding: none

Drainage class: somewhat 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: 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 8 in	silt loam	moderate	1.73 to 1.89 in	6.1 to 7.3
C -- 8 to 60 in	silt loam	moderate	10.39 to 12.47 in	6.1 to 7.8

N675D--Elizabeth silt loam, 6 to 18 percent slopes

Elizabeth

Extent: 55 to 85 percent of the unit

Landform(s): hills

Slope gradient: 6 to 18 percent

Parent material: thin loess over loamy residuum weathered from limestone and dolomite

Restrictive feature(s): lithic bedrock at 4 to 20 inches

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 1

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .37

Land capability, nonirrigated 6s

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>
A1 -- 0 to 6 in	silt loam	moderate	1.06 to 1.42 in	6.1 to 8.4
A2 -- 6 to 10 in	cobbly silt loam	moderate	0.63 to 0.91 in	6.1 to 8.4
A3 -- 10 to 19 in	extremely cobbly loam	moderate	0.18 to 0.91 in	6.1 to 8.4
2R -- 19 to 60 in	weathered bedrock	moderately slow		

Map Unit Description (MN)

Wabasha County, Minnesota

PaA--Plainfield fine sand, 0 to 2 percent slopes

Plainfield

Extent: 90 percent of the unit

Landform(s): 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) .05

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 7 in	fine sand	rapid	0.28 to 0.64 in	5.1 to 7.3
Bw1,Bw2 -- 7 to 26 in	sand	rapid	0.76 to 1.32 in	4.5 to 6.5
C -- 26 to 60 in	sand	rapid	1.02 to 2.37 in	4.5 to 6.5

PaB--Plainfield fine sand, 2 to 6 percent slopes

Plainfield

Extent: 90 percent of the unit

Landform(s): 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) .05

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 7 in	fine sand	rapid	0.28 to 0.64 in	5.1 to 7.3
Bw1,Bw2 -- 7 to 26 in	sand	rapid	0.76 to 1.32 in	4.5 to 6.5
C -- 26 to 60 in	sand	rapid	1.02 to 2.37 in	4.5 to 6.5

Map Unit Description (MN)

Wabasha County, Minnesota

PaC--Plainfield fine sand, 6 to 12 percent slopes

Plainfield

Extent: 90 percent of the unit

Landform(s): 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) .05

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 7 in	fine sand	rapid	0.28 to 0.64 in	5.1 to 7.3
Bw1,Bw2 -- 7 to 26 in	sand	rapid	0.76 to 1.32 in	4.5 to 6.5
C -- 26 to 60 in	sand	rapid	1.02 to 2.37 in	4.5 to 6.5

PbA--Port Byron silt loam, 0 to 2 percent slopes

Port Byron

Extent: 85 percent of the unit

Landform(s): loess hills

Slope gradient: 0 to 2 percent

Parent material: loess

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 1

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>
Ap,AB -- 0 to 17 in	silt loam	moderate	3.72 to 4.06 in	5.1 to 8.4
Bw -- 17 to 41 in	silt loam	moderate	4.80 to 5.28 in	5.6 to 7.3
C -- 41 to 60 in	silt loam	moderate	3.78 to 4.16 in	5.6 to 8.4

Map Unit Description (MN)

Wabasha County, Minnesota

PoA--Port Byron silt loam, benches, 0 to 2 percent slopes

Port Byron, benches

Extent: 85 percent of the unit

Landform(s): terraces

Slope gradient: 0 to 2 percent

Parent material: loess

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 1

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>
Ap,AB -- 0 to 17 in	silt loam	moderate	3.72 to 4.06 in	5.1 to 8.4
Bw -- 17 to 41 in	silt loam	moderate	4.80 to 5.28 in	5.6 to 7.3
C -- 41 to 60 in	silt loam	moderate	3.78 to 4.16 in	5.6 to 8.4

PoB--Port Byron silt loam, benches, 2 to 6 percent slopes

Port Byron, benches

Extent: 85 percent of the unit

Landform(s): terraces

Slope gradient: 2 to 6 percent

Parent material: loess

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: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,AB -- 0 to 11 in	silt loam	moderate	2.43 to 2.65 in	5.1 to 8.4
Bw -- 11 to 35 in	silt loam	moderate	4.80 to 5.28 in	5.6 to 7.3
C -- 35 to 60 in	silt loam	moderate	4.96 to 5.46 in	5.6 to 8.4

Map Unit Description (MN)

Wabasha County, Minnesota

RaA--Racine silt loam, 0 to 2 percent slopes

Racine

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 0 to 2 percent

Parent material: loess over 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 1

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 6 in	silt loam	moderate	1.30 to 1.42 in	5.1 to 7.3
E -- 6 to 13 in	silt loam	moderate	1.56 to 1.70 in	5.1 to 7.3
Bt1 -- 13 to 20 in	clay loam	moderate	1.42 to 1.56 in	4.5 to 6.0
Bt2,Bt3 -- 20 to 37 in	fine sandy loam	moderate	2.54 to 3.22 in	4.5 to 6.0
C -- 37 to 60 in	clay loam	moderately slow	2.28 to 3.43 in	6.6 to 8.4

Map Unit Description (MN)

Wabasha County, Minnesota

RaB--Racine silt loam, 2 to 6 percent slopes

Racine

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 2 to 6 percent

Parent material: loess over 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: 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 6 in	silt loam	moderate	1.30 to 1.42 in	5.1 to 7.3
E --	6 to 12 in	silt loam	moderate	1.30 to 1.42 in	5.1 to 7.3
Bt1 --	12 to 20 in	clay loam	moderate	1.65 to 1.82 in	4.5 to 6.0
Bt2,Bt3 --	20 to 35 in	fine sandy loam	moderate	2.24 to 2.84 in	4.5 to 6.0
C --	35 to 60 in	clay loam	moderately slow	2.48 to 3.72 in	6.6 to 8.4

Map Unit Description (MN)

Wabasha County, Minnesota

RaC2--Racine silt loam, 6 to 12 percent slopes, moderately eroded

Racine, moderately eroded

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 6 to 12 percent

Parent material: loess over 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: C

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 6 in	silt loam	moderate	1.30 to 1.42 in	5.1 to 7.3
E --	6 to 8 in	silt loam	moderate	0.43 to 0.47 in	5.1 to 7.3
Bt1 --	8 to 18 in	clay loam	moderate	2.05 to 2.25 in	4.5 to 6.0
Bt2,Bt3 --	18 to 35 in	fine sandy loam	moderate	2.54 to 3.22 in	4.5 to 6.0
C --	35 to 60 in	clay loam	moderately slow	2.48 to 3.72 in	6.6 to 8.4

Map Unit Description (MN)

Wabasha County, Minnesota

RaD2--Racine silt loam, 12 to 18 percent slopes, moderately eroded

Racine, moderately eroded

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 12 to 18 percent

Parent material: loess over 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: C

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 6 in	silt loam	moderate	1.30 to 1.42 in	5.1 to 7.3
E --	6 to 8 in	silt loam	moderate	0.43 to 0.47 in	5.1 to 7.3
Bt1 --	8 to 16 in	clay loam	moderate	1.65 to 1.82 in	4.5 to 6.0
Bt2,Bt3 --	16 to 33 in	fine sandy loam	moderate	2.54 to 3.22 in	4.5 to 6.0
C --	33 to 60 in	clay loam	moderately slow	2.68 to 4.02 in	6.6 to 8.4

Map Unit Description (MN)

Wabasha County, Minnesota

ReB--Renova silt loam, 2 to 6 percent slopes

Renova

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 2 to 6 percent

Parent material: loess over 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 11 in	silt loam	moderate	2.43 to 2.65 in	5.6 to 6.5
Bt1,Bt2 --	11 to 24 in	silty clay loam	moderate	2.60 to 2.86 in	4.5 to 6.0
2Bt3,2Bt4 --	24 to 52 in	sandy clay loam	moderate	4.75 to 5.31 in	4.5 to 7.3
3C --	52 to 60 in	loam	moderately slow	0.79 to 1.18 in	7.4 to 8.4

Map Unit Description (MN)

Wabasha County, Minnesota

ReC2--Renova silt loam, 6 to 12 percent slopes, moderately eroded

Renova, moderately eroded

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 6 to 12 percent

Parent material: loess over 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 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 6.5
Bt1,Bt2 --	8 to 20 in	silty clay loam	moderate	2.44 to 2.69 in	4.5 to 6.0
2Bt3,2Bt4 --	20 to 52 in	sandy clay loam	moderate	5.42 to 6.06 in	4.5 to 7.3
3C --	52 to 60 in	loam	moderately slow	0.79 to 1.18 in	7.4 to 8.4

Map Unit Description (MN)

Wabasha County, Minnesota

ReD2--Renova silt loam, 12 to 18 percent slopes, moderately eroded

Renova, moderately eroded

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 12 to 18 percent

Parent material: loess over 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: 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 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 6.5
Bt1,Bt2 --	8 to 20 in	silty clay loam	moderate	2.44 to 2.69 in	4.5 to 6.0
2Bt3,2Bt4 --	20 to 36 in	sandy clay loam	moderate	2.68 to 2.99 in	4.5 to 7.3
3C --	36 to 60 in	loam	moderately slow	2.40 to 3.60 in	7.4 to 8.4

Map Unit Description (MN)

Wabasha County, Minnesota

ReE--Renova silt loam, 18 to 25 percent slopes

Renova

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 18 to 25 percent

Parent material: loess over 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: 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 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 6.5
Bt1,Bt2 -- 8 to 20 in	silty clay loam	moderate	2.44 to 2.69 in	4.5 to 6.0
2Bt3,2Bt4 -- 20 to 36 in	sandy clay loam	moderate	2.68 to 2.99 in	4.5 to 7.3
3C -- 36 to 60 in	loam	moderately slow	2.40 to 3.60 in	7.4 to 8.4

Map Unit Description (MN)

Wabasha County, Minnesota

ReF--Renova silt loam, 25 to 35 percent slopes

Renova

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 25 to 35 percent

Parent material: loess over 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: 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 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 6.5
Bt1,Bt2 -- 8 to 20 in	silty clay loam	moderate	2.44 to 2.69 in	4.5 to 6.0
2Bt3,2Bt4 -- 20 to 36 in	sandy clay loam	moderate	2.68 to 2.99 in	4.5 to 7.3
3C -- 36 to 60 in	loam	moderately slow	2.40 to 3.60 in	7.4 to 8.4

Map Unit Description (MN)

Wabasha County, Minnesota

RkB--Renova-Wykoﬀ complex, 2 to 6 percent slopes

Renova

Extent: 50 percent of the unit

Landform(s): hills

Slope gradient: 2 to 6 percent

Parent material: loess over 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 8 in	loam	moderate	1.73 to 1.89 in	5.6 to 6.5
Bt1,Bt2 -- 8 to 22 in	silty clay loam	moderate	2.83 to 3.12 in	4.5 to 6.0
2Bt3,2Bt4 -- 22 to 52 in	sandy clay loam	moderate	5.09 to 5.69 in	4.5 to 7.3
3C -- 52 to 60 in	loam	moderately slow	0.79 to 1.18 in	7.4 to 8.4

Wykoﬀ

Extent: 30 percent of the unit

Landform(s): hills

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): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .20

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	gravelly loam	moderate	1.34 to 1.81 in	5.6 to 7.3
E -- 8 to 22 in	loam	moderate	1.84 to 2.69 in	5.1 to 6.5
Bt1 -- 22 to 27 in	sandy loam	moderate	0.52 to 0.90 in	5.1 to 6.5
Bt2 -- 27 to 35 in	gravelly sand	moderate	0.66 to 1.49 in	5.1 to 6.5
C -- 35 to 60 in	sand	moderate	1.98 to 4.46 in	5.6 to 6.5

Map Unit Description (MN)

Wabasha County, Minnesota

RkC2--Renova-Wykoff complex, 6 to 12 percent slopes, moderately eroded

Renova, moderately eroded

Extent: 50 percent of the unit

Landform(s): hills

Slope gradient: 6 to 12 percent

Parent material: loess over 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 8 in	loam	moderate	1.73 to 1.89 in	5.6 to 6.5
Bt1,Bt2 -- 8 to 22 in	silty clay loam	moderate	2.83 to 3.12 in	4.5 to 6.0
2Bt3,2Bt4 -- 22 to 52 in	sandy clay loam	moderate	5.09 to 5.69 in	4.5 to 7.3
3C -- 52 to 60 in	loam	moderately slow	0.79 to 1.18 in	7.4 to 8.4

Wykoff, moderately eroded

Extent: 30 percent of the unit

Landform(s): hills

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): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .17

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	gravelly loam	moderate	1.34 to 1.81 in	5.6 to 7.3
E -- 8 to 22 in	loam	moderate	1.84 to 2.69 in	5.1 to 6.5
Bt1 -- 22 to 27 in	sandy loam	moderate	0.52 to 0.90 in	5.1 to 6.5
Bt2 -- 27 to 35 in	gravelly sand	moderate	0.66 to 1.49 in	5.1 to 6.5
C -- 35 to 60 in	sand	moderate	1.98 to 4.46 in	5.6 to 6.5

Map Unit Description (MN)

Wabasha County, Minnesota

RkD2--Renova-Wykoﬀ complex, 12 to 18 percent slopes, moderately eroded

Renova, moderately eroded

Extent: 45 percent of the unit

Landform(s): hills

Slope gradient: 12 to 18 percent

Parent material: loess over 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 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	loam	moderate	1.73 to 1.89 in	5.6 to 6.5
Bt1,Bt2 -- 8 to 22 in	silty clay loam	moderate	2.83 to 3.12 in	4.5 to 6.0
2Bt3,2Bt4 -- 22 to 52 in	sandy clay loam	moderate	5.09 to 5.69 in	4.5 to 7.3
3C -- 52 to 60 in	loam	moderately slow	0.79 to 1.18 in	7.4 to 8.4

Wykoﬀ, moderately eroded

Extent: 35 percent of the unit

Landform(s): hills

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): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

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	gravelly loam	moderate	1.34 to 1.81 in	5.6 to 7.3
E -- 8 to 22 in	loam	moderate	1.84 to 2.69 in	5.1 to 6.5
Bt1 -- 22 to 27 in	sandy loam	moderate	0.52 to 0.90 in	5.1 to 6.5
Bt2 -- 27 to 35 in	gravelly sand	moderate	0.66 to 1.49 in	5.1 to 6.5
C -- 35 to 60 in	sand	moderate	1.98 to 4.46 in	5.6 to 6.5

Map Unit Description (MN)

Wabasha County, Minnesota

SbD2--Seaton-Bold soils, 12 to 18 percent slopes, moderately eroded

Seaton, moderately eroded

Extent: 55 percent of the unit

Landform(s): hills

Slope gradient: 12 to 18 percent

Parent material: loess

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: 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>
Ap -- 0 to 7 in	silt loam	moderate	1.56 to 1.70 in	5.6 to 7.3
Bt1,Bt2 -- 7 to 26 in	silt loam	moderate	3.78 to 4.16 in	4.5 to 7.3
C1,C2 -- 26 to 60 in	silt loam	moderate	6.77 to 7.45 in	5.6 to 8.4

Bold, moderately eroded

Extent: 30 percent of the unit

Landform(s): hills

Slope gradient: 12 to 18 percent

Parent material: loess

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): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .43

Land capability, nonirrigated 6e

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>
Ap -- 0 to 7 in	silt loam	moderate	1.49 to 1.70 in	7.4 to 8.4
C1,C2 -- 7 to 60 in	silt loam	moderate	10.55 to 12.66 in	7.4 to 8.4

Map Unit Description (MN)

Wabasha County, Minnesota

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

Sparta

Extent: 90 percent of the unit

Landform(s): 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) .20

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 15 in	loamy fine sand	moderately rapid	1.35 to 1.80 in	5.1 to 7.3
Bw1,Bw2 -- 15 to 30 in	loamy fine sand	rapid	0.75 to 1.65 in	5.1 to 7.3
C -- 30 to 60 in	sand	rapid	1.20 to 2.09 in	5.1 to 7.8

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

Sparta

Extent: 90 percent of the unit

Landform(s): 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) .20

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 15 in	loamy fine sand	moderately rapid	1.35 to 1.80 in	5.1 to 7.3
Bw1,Bw2 -- 15 to 30 in	loamy fine sand	rapid	0.75 to 1.65 in	5.1 to 7.3
C -- 30 to 60 in	sand	rapid	1.20 to 2.09 in	5.1 to 7.8

Map Unit Description (MN)

Wabasha County, Minnesota

St--Stony colluvial land

Stony colluvial land

Extent: 90 percent of the unit

Landform(s): drainageways

Slope gradient: 1 to 15 percent

Parent material: colluvium

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated 6s

Hydric soil: no

Hydrologic group:

Potential for frost action: low

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

Tell

Extent: 85 percent of the unit

Landform(s): terraces

Slope gradient: 0 to 2 percent

Parent material: alluvium over eolian deposits

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): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated 2s

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>
Ap -- 0 to 7 in	silt loam	moderate	1.56 to 1.70 in	5.1 to 7.3
E -- 7 to 12 in	silt loam	moderate	1.04 to 1.13 in	5.1 to 7.3
Bt1,Bt2 -- 12 to 26 in	silty clay loam	moderate	2.55 to 3.12 in	5.1 to 6.5
Bt3 -- 26 to 36 in	very fine sandy loam	moderate	1.08 to 1.87 in	5.1 to 6.5
BC,C -- 36 to 60 in	fine sand	rapid	0.96 to 1.68 in	5.1 to 6.5

Map Unit Description (MN)

Wabasha County, Minnesota

ThB--Tell silt loam, 2 to 6 percent slopes

Tell

Extent: 85 percent of the unit

Landform(s): terraces

Slope gradient: 2 to 6 percent

Parent material: alluvium over eolian deposits

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): 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: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 7 in	silt loam	moderate	1.56 to 1.70 in	5.1 to 7.3
E -- 7 to 10 in	silt loam	moderate	0.61 to 0.66 in	5.1 to 7.3
Bt1,Bt2 -- 10 to 26 in	silty clay loam	moderate	2.91 to 3.55 in	5.1 to 6.5
Bt3 -- 26 to 36 in	very fine sandy loam	moderate	1.08 to 1.87 in	5.1 to 6.5
BC,C -- 36 to 60 in	fine sand	rapid	0.96 to 1.68 in	5.1 to 6.5

Tm--Terrace escarpments, loamy

Terrace escarpments, loamy

Extent: 95 percent of the unit

Landform(s): terraces

Slope gradient: 12 to 30 percent

Parent material: colluvium

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated 7e

Hydric soil: no

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>
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Map Unit Description (MN)

Wabasha County, Minnesota

Ts--Terrace escarpments, sandy

Terrace escarpments, sandy

Extent: 90 percent of the unit

Landform(s): terraces

Slope gradient: 20 to 50 percent

Parent material: colluvium

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 7s

Hydric soil: no

Hydrologic group:

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
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W--Water

Water

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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Map Unit Description (MN)

Wabasha County, Minnesota

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

Waukegan

Extent: 85 percent of the unit

Landform(s): terraces

Slope gradient: 0 to 2 percent

Parent material: alluvium 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) .32

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,A1,A2 -- 0 to 19 in	silt loam	moderate	4.16 to 4.54 in	5.6 to 7.3
Bw1,Bw2 -- 19 to 34 in	silt loam	moderate	2.99 to 3.29 in	5.1 to 7.3
2BC,2C -- 34 to 60 in	gravelly coarse sand	rapid	0.52 to 1.04 in	5.6 to 7.8

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

Waukegan

Extent: 85 percent of the unit

Landform(s): terraces

Slope gradient: 2 to 6 percent

Parent material: alluvium 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) .32

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,A1,A2 -- 0 to 11 in	silt loam	moderate	2.43 to 2.65 in	5.6 to 7.3
Bw1,Bw2 -- 11 to 30 in	silt loam	moderate	3.78 to 4.16 in	5.1 to 7.3
BC,C -- 30 to 60 in	gravelly coarse sand	rapid	0.60 to 1.20 in	5.6 to 7.8

Map Unit Description (MN)

Wabasha County, Minnesota

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

Waukegan, moderately eroded

Extent: 85 percent of the unit

Landform(s): terraces

Slope gradient: 6 to 12 percent

Parent material: alluvium 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) .32

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,A1,A2 -- 0 to 9 in	silt loam	moderate	1.99 to 2.17 in	5.6 to 7.3
Bw1,Bw2 -- 9 to 25 in	silt loam	moderate	3.23 to 3.55 in	5.1 to 7.3
BC,C -- 25 to 60 in	gravelly coarse sand	rapid	0.69 to 1.39 in	5.6 to 7.8

WhB--Whalan silt loam, 2 to 6 percent slopes

Whalan

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 2 to 6 percent

Parent material: till over limestone residuum

Restrictive feature(s): lithic bedrock at 20 to 40 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: 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,AB -- 0 to 11 in	silt loam	moderate	2.43 to 2.65 in	5.6 to 7.3
Bt1,2Bt2 -- 11 to 28 in	clay loam	moderate	2.88 to 3.22 in	5.1 to 6.5
3C -- 28 to 31 in	clay	moderately slow	0.47 to 0.60 in	5.6 to 7.8
4R -- 31 to 41 in	weathered bedrock	moderately slow		

Map Unit Description (MN)

Wabasha County, Minnesota

WhC2--Whalan silt loam, 6 to 12 percent slopes, moderately eroded

Whalan, moderately eroded

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 6 to 12 percent

Parent material: till over limestone residuum

Restrictive feature(s): lithic bedrock at 20 to 40 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: 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,AB -- 0 to 10 in	silt loam	moderate	2.17 to 2.36 in	5.6 to 7.3
Bt1,2Bt2 -- 10 to 26 in	clay loam	moderate	2.74 to 3.07 in	5.1 to 6.5
3C -- 26 to 30 in	clay	moderately slow	0.59 to 0.75 in	5.6 to 7.8
4R -- 30 to 40 in	weathered bedrock	moderately slow		

Map Unit Description (MN)

Wabasha County, Minnesota

WhD2--Whalan silt loam, 12 to 18 percent slopes, moderately eroded

Whalan, moderately eroded

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 12 to 18 percent

Parent material: till over limestone residuum

Restrictive feature(s): lithic bedrock at 20 to 40 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: 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,AB -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
Bt1,2Bt2 -- 8 to 25 in	clay loam	moderate	2.94 to 3.29 in	5.1 to 6.5
3C -- 25 to 29 in	clay	moderately slow	0.59 to 0.75 in	5.6 to 7.8
4R -- 29 to 39 in	weathered bedrock	moderately slow		

Map Unit Description (MN)

Wabasha County, Minnesota

WsB--Whalan silt loam, shallow, 2 to 6 percent slopes

Whalan, shallow

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 2 to 6 percent

Parent material: till over limestone residuum

Restrictive feature(s): lithic bedrock at 8 to 20 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 1

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .37

Land capability, nonirrigated 4s

Hydric soil: no

Hydrologic group: D

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,AB -- 0 to 9 in	silt loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt1,2Bt2 -- 9 to 15 in	clay loam	moderate	1.18 to 1.30 in	5.6 to 7.3
3C -- 15 to 20 in	clay	slow	0.61 to 0.77 in	6.6 to 7.3
4R -- 20 to 30 in	weathered bedrock	moderately slow		

Map Unit Description (MN)

Wabasha County, Minnesota

WsC2--Whalan silt loam, shallow, 6 to 12 percent slopes, moderately eroded

Whalan, shallow, moderately eroded

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 6 to 12 percent

Parent material: till over limestone residuum

Restrictive feature(s): lithic bedrock at 8 to 20 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 1

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .37

Land capability, nonirrigated 6s

Hydric soil: no

Hydrologic group: D

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,AB -- 0 to 6 in	silt loam	moderate	1.18 to 1.30 in	5.6 to 7.3
Bt1,2Bt2 -- 6 to 14 in	clay loam	moderate	1.65 to 1.82 in	5.6 to 7.3
3C -- 14 to 16 in	clay	slow	0.24 to 0.30 in	6.6 to 7.3
4R -- 16 to 26 in	weathered bedrock	moderately slow		

Map Unit Description (MN)

Wabasha County, Minnesota

WsD2--Whalan silt loam, shallow, 12 to 18 percent slopes, moderately eroded

Whalan, shallow, moderately eroded

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 12 to 18 percent

Parent material: till over limestone residuum

Restrictive feature(s): lithic bedrock at 8 to 20 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 1

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .43

Land capability, nonirrigated 6s

Hydric soil: no

Hydrologic group: D

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,AB -- 0 to 8 in	silt loam	moderate	1.57 to 1.73 in	5.6 to 7.3
Bt1,2Bt2 -- 8 to 12 in	clay loam	moderate	0.79 to 0.87 in	5.6 to 7.3
3C -- 12 to 15 in	clay	slow	0.38 to 0.47 in	6.6 to 7.3
4R -- 15 to 25 in	weathered bedrock	moderately slow		

Map Unit Description (MN)

Wabasha County, Minnesota

WsE--Whalan silt loam, 18 to 25 percent slopes

Whalan

Extent: 85 percent of the unit

Landform(s): valley sides

Slope gradient: 18 to 25 percent

Parent material: till over limestone residuum

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: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,AB -- 0 to 10 in	silt loam	moderate	1.97 to 2.36 in	5.1 to 7.3
Bt1,2Bt2 -- 10 to 18 in	clay loam	moderate	1.41 to 1.57 in	5.1 to 7.3
3C -- 18 to 30 in	clay	moderate	0.94 to 1.65 in	5.6 to 7.3
4C -- 30 to 60 in	very channery loamy sand	moderately rapid	0.90 to 2.69 in	7.4 to 8.4

Map Unit Description (MN)

Wabasha County, Minnesota

WsF--Whalan silt loam, 25 to 35 percent slopes

Whalan

Extent: 85 percent of the unit

Landform(s): valley sides

Slope gradient: 25 to 35 percent

Parent material: till over limestone residuum

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 7e

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,AB -- 0 to 10 in	silt loam	moderate	1.97 to 2.36 in	5.1 to 7.3
Bt1,2Bt2 -- 10 to 18 in	clay loam	moderate	1.41 to 1.57 in	5.1 to 7.3
3C -- 18 to 30 in	clay	moderate	0.94 to 1.65 in	5.6 to 7.3
4C -- 30 to 60 in	very channery loamy sand	moderately rapid	0.90 to 2.69 in	7.4 to 8.4

Map Unit Description (MN)

Wabasha County, Minnesota

WvB--Wykoff gravelly loam, 2 to 6 percent slopes

Wykoff

Extent: 85 percent of the unit

Landform(s): hills

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): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .20

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	gravelly loam	moderate	1.54 to 2.08 in	5.6 to 7.3
E -- 9 to 15 in	loam	moderate	0.77 to 1.12 in	5.1 to 6.5
Bt1 -- 15 to 23 in	sandy loam	moderate	0.87 to 1.50 in	5.1 to 6.5
Bt2 -- 23 to 30 in	gravelly sand	moderate	0.57 to 1.28 in	5.1 to 6.5
C -- 30 to 60 in	sand	moderate	2.39 to 5.39 in	5.6 to 6.5

Map Unit Description (MN)

Wabasha County, Minnesota

WvC2--Wykoff gravelly loam, 6 to 12 percent slopes, moderately eroded

Wykoff, moderately eroded

Extent: 85 percent of the unit

Landform(s): hills

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): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .20

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	gravelly loam	moderate	1.54 to 2.08 in	5.6 to 7.3
E -- 9 to 15 in	loam	moderate	0.77 to 1.12 in	5.1 to 6.5
Bt1 -- 15 to 23 in	sandy loam	moderate	0.87 to 1.50 in	5.1 to 6.5
Bt2 -- 23 to 30 in	gravelly sand	moderate	0.57 to 1.28 in	5.1 to 6.5
C -- 30 to 60 in	sand	moderate	2.39 to 5.39 in	5.6 to 6.5

Map Unit Description (MN)

Wabasha County, Minnesota

WvD2--Wykoff gravelly loam, 12 to 18 percent slopes, moderately eroded

Wykoff, moderately eroded

Extent: 85 percent of the unit

Landform(s): hills

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): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

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 9 in	gravelly loam	moderate	1.54 to 2.08 in	5.6 to 7.3
E -- 9 to 15 in	loam	moderate	0.77 to 1.12 in	5.1 to 6.5
Bt1 -- 15 to 23 in	sandy loam	moderate	0.87 to 1.50 in	5.1 to 6.5
Bt2 -- 23 to 30 in	gravelly sand	moderate	0.57 to 1.28 in	5.1 to 6.5
C -- 30 to 60 in	sand	moderate	2.39 to 5.39 in	5.6 to 6.5

Map Unit Description (MN)

Wabasha County, Minnesota

WvE--Wykoff gravelly loam, 18 to 35 percent slopes

Wykoff

Extent: 85 percent of the unit

Landform(s): hills

Slope gradient: 18 to 35 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): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .20

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	gravelly loam	moderate	1.54 to 2.08 in	5.6 to 7.3
E --	9 to 15 in	loam	moderate	0.77 to 1.12 in	5.1 to 6.5
Bt1 --	15 to 23 in	sandy loam	moderate	0.87 to 1.50 in	5.1 to 6.5
Bt2 --	23 to 30 in	gravelly sand	moderate	0.57 to 1.28 in	5.1 to 6.5
C --	30 to 60 in	sand	moderate	2.39 to 5.39 in	5.6 to 6.5

Map Unit Description (MN)

Wabasha County, Minnesota

Zb--Zumbro loamy fine sand

Zumbro, occasionally flooded

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): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .17

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,A -- 0 to 13 in	loamy fine sand	rapid	1.30 to 1.56 in	5.6 to 7.8
C1,C2 -- 13 to 30 in	fine sand	rapid	1.69 to 2.03 in	5.6 to 7.8
C3,C4 -- 30 to 60 in	fine sand	rapid	1.80 to 3.29 in	6.1 to 7.8

ZgA--Zwingle silt loam, 0 to 2 percent slopes

Zwingle

Extent: 85 percent of the unit

Landform(s): terraces

Slope gradient: 0 to 2 percent

Parent material: fine textured alluvium

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) .37

Land capability, nonirrigated 3w

Hydric soil: yes

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>
Ap,A1 -- 0 to 8 in	silt loam	moderate	1.57 to 1.73 in	4.5 to 7.3
A2,Bw,C -- 8 to 60 in	clay	impermeable	6.24 to 8.31 in	4.5 to 6.5

Map Unit Description (MN)

Wabasha County, Minnesota

ZgB--Zwingle silt loam, 2 to 6 percent slopes

Zwingle

Extent: 85 percent of the unit

Landform(s): terraces

Slope gradient: 2 to 6 percent

Parent material: fine textured alluvium

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) .37

Land capability, nonirrigated 3e

Hydric soil: yes

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>
Ap,A1 -- 0 to 8 in	silt loam	moderate	1.57 to 1.73 in	4.5 to 7.3
A2,Bw,C -- 8 to 60 in	clay	impermeable	6.24 to 8.31 in	4.5 to 6.5

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.