

Map Unit Description (MN)

Redwood 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]

27A--Dickinson fine sandy loam, 0 to 2 percent slopes

Dickinson

Extent: 90 percent of the unit
Landform(s): moraine
Slope gradient: 0 to 2 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 4
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw (surface layer): .20
Land capability class, nonirrigated: 3s
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 17 in	fine sandy loam	moderately rapid	2.7 to 3.0 in	6.1 to 7.3
H2 -- 17 to 36 in	fine sandy loam	moderately rapid	2.8 to 3.2 in	6.1 to 7.3
H3 -- 36 to 60 in	sand	rapid	1.2 to 1.7 in	6.1 to 7.3

27B--Dickinson fine sandy loam, 2 to 6 percent slopes

Dickinson

Extent: 90 percent of the unit
Landform(s): moraine
Slope gradient: 2 to 6 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 4
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw (surface layer): .20
Land capability class, nonirrigated: 3e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 17 in	fine sandy loam	moderately rapid	2.7 to 3.0 in	6.1 to 7.3
H2 -- 17 to 36 in	fine sandy loam	moderately rapid	2.8 to 3.2 in	6.1 to 7.3
H3 -- 36 to 60 in	sand	rapid	1.2 to 1.7 in	6.1 to 7.3

31E--Storden loam, 18 to 25 percent slopes

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31E--Storden loam, 18 to 25 percent slopes

Storden

Extent: 85 percent of the unit

Landform(s): moraine

Slope gradient: 18 to 25 percent

Parent material:

Restrictive feature(s):

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 (surface layer): .28

Land capability class, nonirrigated: 6e

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

Representative soil profile:

Texture

H1	--	0 to 10 in	loam
H2	--	10 to 37 in	loam
H3	--	37 to 60 in	loam

Permeability

moderate
moderate
moderate

Available water

capacity

2.0 to 2.2 in
4.6 to 5.2 in
3.9 to 4.3 in

pH

7.4 to 8.4
7.4 to 8.4
7.4 to 8.4

31F--Storden loam, 25 to 40 percent slopes

Storden

Extent: 85 percent of the unit

Landform(s): moraine

Slope gradient: 25 to 40 percent

Parent material:

Restrictive feature(s):

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 (surface layer): .28

Land capability class, nonirrigated: 7e

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

Representative soil profile:

Texture

H1	--	0 to 8 in	loam
H2	--	8 to 37 in	loam
H3	--	37 to 60 in	loam

Permeability

moderate
moderate
moderate

Available water

capacity

1.6 to 1.7 in
5.0 to 5.5 in
3.9 to 4.3 in

pH

7.4 to 8.4
7.4 to 8.4
7.4 to 8.4

39A--Wadena loam, 0 to 2 percent slopes

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39A--Wadena loam, 0 to 2 percent slopes

Wadena

Extent: 90 percent of the unit

Landform(s): moraine

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

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 (surface layer): .24

Land capability class, nonirrigated: 2s

Hydric soil: no

Hydrologic group: B

Potential frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 13 in	loam	moderate	2.6 to 2.9 in	6.1 to 7.3
H2 -- 13 to 29 in	loam	moderate	2.7 to 3.1 in	6.1 to 7.3
H3 -- 29 to 60 in	stratified gravelly coarse sand to sand	very rapid	0.6 to 1.2 in	7.4 to 8.4

39B--Wadena loam, 2 to 6 percent slopes

Wadena

Extent: 90 percent of the unit

Landform(s): moraine

Slope gradient: 2 to 6 percent

Parent material:

Restrictive feature(s):

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 (surface layer): .24

Land capability class, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 13 in	loam	moderate	2.6 to 2.9 in	6.1 to 7.3
H2 -- 13 to 29 in	loam	moderate	2.7 to 3.1 in	6.1 to 7.3
H3 -- 29 to 60 in	stratified gravelly coarse sand to sand	very rapid	0.6 to 1.2 in	7.4 to 8.4

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41A--Estherville sandy loam, 0 to 2 percent slopes

Estherville

Extent: 90 percent of the unit

Landform(s): moraine

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw (surface layer): .20

Land capability class, nonirrigated: 3s

Hydric soil: no

Hydrologic group: B

Potential frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 9 in	sandy loam	moderately rapid	1.2 to 1.4 in	6.1 to 7.3
H2 -- 9 to 19 in	sandy loam	moderately rapid	1.2 to 1.4 in	6.1 to 7.3
H3 -- 19 to 60 in	gravelly coarse sand	rapid	0.8 to 1.6 in	7.4 to 8.4

41B--Estherville sandy loam, 2 to 6 percent slopes

Estherville

Extent: 90 percent of the unit

Landform(s): moraine

Slope gradient: 2 to 6 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw (surface layer): .20

Land capability class, nonirrigated: 3s

Hydric soil: no

Hydrologic group: B

Potential frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 9 in	sandy loam	moderately rapid	1.2 to 1.4 in	6.1 to 7.3
H2 -- 9 to 19 in	sandy loam	moderately rapid	1.2 to 1.4 in	6.1 to 7.3
H3 -- 19 to 60 in	gravelly coarse sand	rapid	0.8 to 1.6 in	7.4 to 8.4

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42C--Salida gravelly sandy loam, 2 to 12 percent slopes

Salida

Extent: 90 percent of the unit

Landform(s): moraine

Slope gradient: 2 to 12 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 8

Wind erodibility index (WEI): 0

Kw (surface layer): .10

Land capability class, nonirrigated: 4s

Hydric soil: no

Hydrologic group: A

Potential frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 8 in	gravelly sandy loam	moderately rapid	1.0 to 1.2 in	6.1 to 7.3
H2 -- 8 to 60 in	very gravelly sand	very rapid	2.6 to 3.6 in	7.4 to 8.4

42E--Salida gravelly sandy loam, 12 to 35 percent slopes

Salida

Extent: 90 percent of the unit

Landform(s): moraine

Slope gradient: 12 to 35 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 8

Wind erodibility index (WEI): 0

Kw (surface layer): .10

Land capability class, nonirrigated: 7s

Hydric soil: no

Hydrologic group: A

Potential frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 8 in	gravelly sandy loam	moderately rapid	1.0 to 1.2 in	6.1 to 7.3
H2 -- 8 to 60 in	very gravelly sand	very rapid	2.6 to 3.6 in	7.4 to 8.4

86--Canisteo clay loam

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86--Canisteo clay loam

Canisteo

Extent: 85 percent of the unit

Landform(s): flat

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw (surface layer): .24

Land capability class, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: B/D

Potential frost action: high

Representative soil profile:

Texture

H1 --	0 to 18 in	clay loam
H2 --	18 to 29 in	clay loam
H3 --	29 to 60 in	loam

Permeability

moderate
moderate
moderate

Available water

capacity

3.1 to 3.4 in	7.4 to 8.4
1.7 to 2.1 in	7.4 to 8.4
5.2 to 5.8 in	7.4 to 8.4

pH

7.4 to 8.4
7.4 to 8.4
7.4 to 8.4

94B--Terril loam, 2 to 6 percent slopes

Terril

Extent: 85 percent of the unit

Landform(s): moraine

Slope gradient: 2 to 6 percent

Parent material:

Restrictive feature(s):

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 (surface layer): .24

Land capability class, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

Representative soil profile:

Texture

H1 --	0 to 24 in	loam
H2 --	24 to 34 in	loam
H3 --	34 to 60 in	loam

Permeability

moderate
moderate
moderate

Available water

capacity

4.8 to 5.3 in	6.1 to 7.3
2.0 to 2.2 in	6.1 to 7.3
4.4 to 4.9 in	6.1 to 7.3

pH

6.1 to 7.3
6.1 to 7.3
6.1 to 7.3

94C--Terril loam, 6 to 12 percent slopes

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94C--Terril loam, 6 to 12 percent slopes

Terril

Extent: 85 percent of the unit

Landform(s): moraine

Slope gradient: 6 to 12 percent

Parent material:

Restrictive feature(s):

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 (surface layer): .24

Land capability class, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

Representative soil profile:

	<i>Texture</i>
H1 -- 0 to 24 in	loam
H2 -- 24 to 34 in	loam
H3 -- 34 to 60 in	loam

Texture

Permeability

moderate
moderate
moderate

Available water

capacity

4.8 to 5.3 in
2.0 to 2.2 in
4.4 to 4.9 in

pH

6.1 to 7.3
6.1 to 7.3
6.1 to 7.3

113--Webster clay loam

Webster

Extent: 85 percent of the unit

Landform(s): swale

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

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 (surface layer): .24

Land capability class, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: B/D

Potential frost action: high

Representative soil profile:

	<i>Texture</i>
H1 -- 0 to 19 in	clay loam
H2 -- 19 to 33 in	clay loam
H3 -- 33 to 60 in	clay loam

Texture

Permeability

moderate
moderate
moderate

Available water

capacity

3.2 to 3.6 in
2.1 to 2.7 in
3.7 to 4.3 in

pH

6.6 to 7.3
6.6 to 7.3
7.4 to 8.4

114--Glencoe silty clay loam

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114--Glencoe silty clay loam

Glencoe

Extent: 85 percent of the unit

Landform(s): depression

Slope gradient: 0 to 1 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw (surface layer): .28

Land capability class, nonirrigated: 3w

Hydric soil: yes

Hydrologic group: B/D

Potential frost action: high

Representative soil profile:

Texture

H1 --	0 to 10 in	silty clay loam
H2 --	10 to 26 in	silty clay loam
H3 --	26 to 33 in	silty clay loam
H4 --	33 to 60 in	clay loam

Permeability

moderate
moderate
moderate
moderate

Available water

capacity *pH*

1.8 to 2.2 in	6.1 to 7.3
2.9 to 3.6 in	6.1 to 7.3
1.1 to 1.3 in	6.6 to 7.3
3.7 to 4.3 in	7.4 to 7.8

128A--Grogan loam, 0 to 2 percent slopes

Grogan

Extent: 85 percent of the unit

Landform(s): moraine

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

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 (surface layer): .32

Land capability class, nonirrigated: 1

Hydric soil: no

Hydrologic group: B

Potential frost action: high

Representative soil profile:

Texture

H1 --	0 to 15 in	loam
H2 --	15 to 34 in	very fine sandy loam
H3 --	34 to 60 in	sr to loamy very fine sand to silt loam

Permeability

moderately rapid
moderately rapid
moderately rapid

Available water

capacity *pH*

3.0 to 3.3 in	6.1 to 7.3
3.2 to 3.6 in	6.1 to 7.3
4.4 to 4.9 in	7.4 to 8.4

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128B--Grogan loam, 2 to 6 percent slopes

Grogan

Extent: 85 percent of the unit
Landform(s): moraine
Slope gradient: 2 to 6 percent
Parent material:
Restrictive feature(s):
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 (surface layer): .32
Land capability class, nonirrigated: 2e
Hydric soil: no
Hydrologic group: B
Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 15 in	loam	moderately rapid	3.0 to 3.3 in	6.1 to 7.3
H2 -- 15 to 34 in	very fine sandy loam	moderately rapid	3.2 to 3.6 in	6.1 to 7.3
H3 -- 34 to 60 in	sr to loamy very fine sand to silt loam	moderately rapid	4.4 to 4.9 in	7.4 to 8.4

134--Okoboji silty clay loam

Okoboji

Extent: 85 percent of the unit
Landform(s): depression
Slope gradient: 0 to 1 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: frequent
Drainage class: very poorly drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4
Wind erodibility index (WEI): 86
Kw (surface layer): .32
Land capability class, nonirrigated: 3w
Hydric soil: yes
Hydrologic group: B/D
Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 8 in	silty clay loam	moderately slow	1.4 to 1.7 in	6.1 to 7.8
H2 -- 8 to 48 in	silty clay loam	moderately slow	7.2 to 8.8 in	6.6 to 7.8
H3 -- 48 to 60 in	silty clay loam	moderately slow	1.9 to 2.2 in	7.4 to 8.4

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149B--Everly clay loam, 2 to 4 percent slopes

Everly

Extent: 85 percent of the unit
Landform(s): moraine
Slope gradient: 2 to 4 percent
Parent material:
Restrictive feature(s):
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 (surface layer): .24
Land capability class, nonirrigated: 2e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 14 in	clay loam	moderate	2.4 to 2.7 in	6.1 to 7.3
H2 -- 14 to 40 in	clay loam	moderate	3.9 to 4.9 in	6.1 to 7.3
H3 -- 40 to 60 in	clay loam	moderately slow	2.8 to 3.1 in	7.4 to 8.4

149B2--Everly clay loam, 3 to 6 percent slopes, eroded

Everly

Extent: 85 percent of the unit
Landform(s): moraine
Slope gradient: 3 to 6 percent
Parent material:
Restrictive feature(s):
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 (surface layer): .24
Land capability class, nonirrigated: 2e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 14 in	clay loam	moderate	2.4 to 2.7 in	5.6 to 7.3
H2 -- 14 to 40 in	clay loam	moderate	3.9 to 4.9 in	6.1 to 7.3
H3 -- 40 to 60 in	clay loam	moderately slow	2.8 to 3.1 in	7.4 to 8.4

227--Lemond loam

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227--Lemond loam

Lemond

Extent: 85 percent of the unit
Landform(s): flat
Slope gradient: 0 to 2 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: poorly drained

Soil loss tolerance (T factor): 4
Wind erodibility group (WEG): 4L
Wind erodibility index (WEI): 86
Kw (surface layer): .24
Land capability class, nonirrigated: 2w
Hydric soil: yes
Hydrologic group: B/D
Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 12 in	loam	moderately rapid	2.4 to 2.6 in	7.4 to 8.4
H2 -- 12 to 32 in	sandy loam	moderately rapid	2.4 to 2.8 in	7.4 to 8.4
H3 -- 32 to 60 in	loamy sand	rapid	2.2 to 2.8 in	7.4 to 8.4

241--Letri clay loam

Letri

Extent: 85 percent of the unit
Landform(s): swale
Slope gradient: 0 to 2 percent
Parent material:
Restrictive feature(s):
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 (surface layer): .28
Land capability class, nonirrigated: 2w
Hydric soil: yes
Hydrologic group: B/D
Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 18 in	clay loam	moderate	3.1 to 3.4 in	6.1 to 7.3
H2 -- 18 to 28 in	clay loam	moderate	1.5 to 1.9 in	6.1 to 7.3
H3 -- 28 to 60 in	loam	moderately slow	5.4 to 6.1 in	7.4 to 8.4

247--Linder loam

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247--Linder loam

Linder

Extent: 85 percent of the unit

Landform(s): moraine

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw (surface layer): .24

Land capability class, nonirrigated: 2s

Hydric soil: no

Hydrologic group: B

Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 18 in	loam	moderate	3.6 to 4.0 in	6.1 to 7.3
H2 -- 18 to 28 in	sandy loam	moderately rapid	1.2 to 1.4 in	6.1 to 7.3
H3 -- 28 to 60 in	gravelly loamy coarse sand	very rapid	0.6 to 1.3 in	7.4 to 8.4

255--Mayer loam

Mayer

Extent: 85 percent of the unit

Landform(s): flat

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw (surface layer): .24

Land capability class, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: B/D

Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 22 in	loam	moderate	4.4 to 4.9 in	7.4 to 8.4
H2 -- 22 to 32 in	silt loam	moderate	2.0 to 2.2 in	7.4 to 8.4
H3 -- 32 to 60 in	gravelly coarse sand	rapid	0.6 to 1.1 in	7.4 to 8.4

269--Millington loam

This report shows only the major soils in each map unit. Others may exist.

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Map Unit Description (MN)

Redwood 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]

269--Millington loam

Millington

Extent: 85 percent of the unit
Landform(s): flood plain
Slope gradient: 0 to 2 percent
Parent material:
Restrictive feature(s):
Flooding: occasional
Ponding: none
Drainage class: poorly drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4L
Wind erodibility index (WEI): 86
Kw (surface layer): .28
Land capability class, nonirrigated: 2w
Hydric soil: yes
Hydrologic group: B/D
Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 36 in	loam	moderate	7.2 to 7.9 in	7.4 to 8.4
H2 -- 36 to 60 in	sr to sandy loam to silty clay	moderate	3.1 to 4.6 in	7.4 to 8.4

282--Hanska fine sandy loam

Hanska

Extent: 85 percent of the unit
Landform(s): flat
Slope gradient: 0 to 2 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: poorly drained

Soil loss tolerance (T factor): 4
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw (surface layer): .28
Land capability class, nonirrigated: 2w
Hydric soil: yes
Hydrologic group: B/D
Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 18 in	fine sandy loam	moderately rapid	2.9 to 3.3 in	6.1 to 7.3
H2 -- 18 to 38 in	sandy loam	moderately rapid	2.4 to 2.8 in	6.1 to 7.3
H3 -- 38 to 60 in	sand	rapid	1.1 to 1.5 in	6.6 to 7.8

313--Spillville loam, occasionally flooded

This report shows only the major soils in each map unit. Others may exist.

Map Unit Description (MN)

Redwood 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]

313--Spillville loam, occasionally flooded

Spillville

Extent: 85 percent of the unit

Landform(s): flood plain

Slope gradient: 0 to 1 percent

Parent material:

Restrictive feature(s):

Flooding: occasional

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw (surface layer): .24

Land capability class, nonirrigated: 2w

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

Representative soil profile:

Texture

H1 -- 0 to 48 in loam
H2 -- 48 to 60 in loam

<i>Permeability</i>	<i>Available water</i>	
	<i>capacity</i>	<i>pH</i>
moderate	9.6 to 10.6 in	6.1 to 7.3
moderately rapid	2.0 to 2.2 in	6.1 to 7.3

317--Oshawa silty clay loam

Oshawa

Extent: 85 percent of the unit

Landform(s): flood plain

Slope gradient: 0 to 1 percent

Parent material:

Restrictive feature(s):

Flooding: frequent

Ponding: none

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 8

Wind erodibility index (WEI): 0

Kw (surface layer): .28

Land capability class, nonirrigated: 6w

Hydric soil: yes

Hydrologic group: D

Potential frost action: high

Representative soil profile:

Texture

H1 -- 0 to 39 in silty clay loam
H2 -- 39 to 60 in silty clay loam

<i>Permeability</i>	<i>Available water</i>	
	<i>capacity</i>	<i>pH</i>
moderately slow	7.0 to 8.6 in	7.4 to 7.8
moderately slow	3.3 to 4.0 in	7.4 to 7.8

321--Tilfer clay loam

This report shows only the major soils in each map unit. Others may exist.

Map Unit Description (MN)

Redwood 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]

321--Tilfer clay loam

Tilfer

Extent: 85 percent of the unit

Landform(s): flat

Slope gradient: 0 to 2 percent

Parent material:

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

Flooding: occasional

Ponding: none

Drainage class: very poorly drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw (surface layer): .28

Land capability class, nonirrigated: 3w

Hydric soil: yes

Hydrologic group: B/D

Potential frost action: high

Representative soil profile:

Texture

H1 --	0 to 19 in	clay loam
H2 --	19 to 32 in	loam
H3 --	32 to 36 in	unweathered bedrock

Permeability

moderate
moderate
very slow

Available water

capacity

3.2 to 3.6 in
2.2 to 2.5 in

pH

7.4 to 8.4
7.4 to 8.4

327A--Dickman sandy loam, 0 to 2 percent slopes

Dickman

Extent: 90 percent of the unit

Landform(s): moraine

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw (surface layer): .20

Land capability class, nonirrigated: 3s

Hydric soil: no

Hydrologic group: A

Potential frost action: low

Representative soil profile:

Texture

H1 --	0 to 12 in	sandy loam
H2 --	12 to 19 in	sandy loam
H3 --	19 to 60 in	fine sand

Permeability

moderately rapid
moderately rapid
rapid

Available water

capacity

1.5 to 1.8 in
0.9 to 1.0 in
2.0 to 2.9 in

pH

6.1 to 6.5
6.1 to 7.3
6.1 to 7.8

This report shows only the major soils in each map unit. Others may exist.

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Map Unit Description (MN)

Redwood 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]

327B--Dickman sandy loam, 2 to 6 percent slopes

Dickman

Extent: 90 percent of the unit

Landform(s): moraine

Slope gradient: 2 to 6 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw (surface layer): .20

Land capability class, nonirrigated: 3e

Hydric soil: no

Hydrologic group: A

Potential frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 12 in	sandy loam	moderately rapid	1.5 to 1.8 in	6.1 to 7.3
H2 -- 12 to 19 in	sandy loam	moderately rapid	0.9 to 1.0 in	6.1 to 7.3
H3 -- 19 to 60 in	fine sand	rapid	2.0 to 2.9 in	6.1 to 7.8

345--Wilmonton clay loam

Wilmonton

Extent: 85 percent of the unit

Landform(s): moraine

Slope gradient: 1 to 3 percent

Parent material:

Restrictive feature(s):

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 (surface layer): .28

Land capability class, nonirrigated: 1

Hydric soil: no

Hydrologic group: B

Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 15 in	clay loam	moderate	2.5 to 2.8 in	6.1 to 7.3
H2 -- 15 to 39 in	clay loam	moderately slow	3.6 to 4.6 in	6.1 to 7.3
H3 -- 39 to 60 in	clay loam	moderately slow	2.9 to 3.3 in	7.4 to 8.4

This report shows only the major soils in each map unit. Others may exist.

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Map Unit Description (MN)

Redwood 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]

390--Spillville loam, frequently flooded

Spillville

Extent: 85 percent of the unit

Landform(s): flood plain

Slope gradient: 0 to 1 percent

Parent material:

Restrictive feature(s):

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 (surface layer): .24

Land capability class, nonirrigated: 5w

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

Representative soil profile:

Texture

H1 -- 0 to 50 in loam
H2 -- 50 to 60 in sandy loam

<i>Permeability</i>	<i>Available water</i>	
	<i>capacity</i>	<i>pH</i>
moderate	10.0 to 11.0 in	6.1 to 7.3
moderately rapid	1.1 to 1.3 in	6.1 to 7.3

392--Biscay loam

Biscay

Extent: 85 percent of the unit

Landform(s): flat

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw (surface layer): .28

Land capability class, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: B/D

Potential frost action: high

Representative soil profile:

Texture

H1 -- 0 to 22 in loam
H2 -- 22 to 30 in loam
H3 -- 30 to 33 in sandy loam
H4 -- 33 to 60 in stratified gravelly coarse sand to loamy sand

<i>Permeability</i>	<i>Available water</i>	
	<i>capacity</i>	<i>pH</i>
moderate	4.4 to 4.9 in	6.1 to 7.3
moderate	1.3 to 1.5 in	6.6 to 7.3
moderately rapid	0.3 to 0.4 in	7.4 to 8.4
rapid	0.5 to 1.1 in	7.4 to 8.4

This report shows only the major soils in each map unit. Others may exist.

Map Unit Description (MN)

Redwood 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]

399--Biscay loam, depressional

Biscay

Extent: 85 percent of the unit

Landform(s): depression

Slope gradient: 0 to 1 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw (surface layer): .28

Land capability class, nonirrigated: 3w

Hydric soil: yes

Hydrologic group: B/D

Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 31 in	loam	moderate	6.2 to 6.8 in	6.1 to 7.3
H2 -- 31 to 35 in	sandy loam	moderately rapid	0.5 to 0.6 in	6.6 to 7.3
H3 -- 35 to 60 in	stratified gravelly coarse sand to loamy sand	rapid	0.5 to 1.0 in	7.4 to 8.4

421B--Ves loam, 1 to 4 percent slopes

Ves

Extent: 85 percent of the unit

Landform(s): moraine

Slope gradient: 1 to 4 percent

Parent material:

Restrictive feature(s):

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 (surface layer): .24

Land capability class, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 10 in	loam	moderate	2.0 to 2.2 in	6.1 to 7.3
H2 -- 10 to 25 in	loam	moderate	2.6 to 2.9 in	6.1 to 7.3
H3 -- 25 to 39 in	loam	moderate	2.3 to 2.6 in	7.4 to 8.4
H4 -- 39 to 60 in	loam	moderate	3.5 to 4.0 in	7.4 to 8.4

This report shows only the major soils in each map unit. Others may exist.

Map Unit Description (MN)

Redwood 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]

421B2--Ves loam, 3 to 6 percent slopes, eroded

Ves

Extent: 85 percent of the unit
Landform(s): moraine
Slope gradient: 3 to 6 percent
Parent material:
Restrictive feature(s):
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 (surface layer): .24
Land capability class, nonirrigated: 2e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 10 in loam		moderate	2.0 to 2.2 in	6.1 to 7.8
H2 -- 10 to 25 in loam		moderate	2.6 to 2.9 in	6.6 to 7.8
H3 -- 25 to 39 in loam		moderate	2.3 to 2.6 in	7.4 to 8.4
H4 -- 39 to 60 in loam		moderate	3.5 to 4.0 in	7.4 to 8.4

423--Seaforth loam

Seaforth

Extent: 85 percent of the unit
Landform(s): moraine
Slope gradient: 1 to 3 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: moderately well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4L
Wind erodibility index (WEI): 86
Kw (surface layer): .24
Land capability class, nonirrigated: 2s
Hydric soil: no
Hydrologic group: B
Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 15 in loam		moderate	3.0 to 3.3 in	7.4 to 8.4
H2 -- 15 to 21 in clay loam		moderate	0.9 to 1.1 in	7.4 to 8.4
H3 -- 21 to 60 in loam		moderate	6.6 to 7.4 in	7.4 to 8.4

This report shows only the major soils in each map unit. Others may exist.

Map Unit Description (MN)

Redwood 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]

446--Normania loam

Normania

Extent: 85 percent of the unit

Landform(s): moraine

Slope gradient: 1 to 2 percent

Parent material:

Restrictive feature(s):

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 (surface layer): .24

Land capability class, nonirrigated: 1

Hydric soil: no

Hydrologic group: B

Potential frost action: high

Representative soil profile:

Texture

H1 --	0 to 17 in	loam
H2 --	17 to 28 in	clay loam
H3 --	28 to 60 in	loam

Permeability

moderate
moderate
moderate

Available water

capacity

3.4 to 3.7 in
1.7 to 2.1 in
5.4 to 6.1 in

pH

6.1 to 7.3
6.6 to 7.3
7.4 to 8.4

562--Knoke silty clay loam

Knoke

Extent: 85 percent of the unit

Landform(s): depression

Slope gradient: 0 to 1 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw (surface layer): .32

Land capability class, nonirrigated: 3w

Hydric soil: yes

Hydrologic group: B/D

Potential frost action: high

Representative soil profile:

Texture

H1 --	0 to 15 in	silty clay loam
H2 --	15 to 60 in	clay loam

Permeability

moderately slow
moderately slow

Available water

capacity

2.7 to 3.3 in
7.6 to 8.5 in

pH

7.4 to 8.4
7.4 to 8.4

574--Du Page loam

This report shows only the major soils in each map unit. Others may exist.

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Map Unit Description (MN)

Redwood 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]

574--Du Page loam

Du Page

Extent: 85 percent of the unit

Landform(s): flood plain

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: occasional

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw (surface layer): .28

Land capability class, nonirrigated: 2w

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

Representative soil profile:

Texture

H1 -- 0 to 32 in loam
H2 -- 32 to 60 in loam

<i>Permeability</i>	<i>Available water</i>	
	<i>capacity</i>	<i>pH</i>
moderate	6.4 to 7.0 in	7.4 to 8.4
moderate	4.8 to 5.3 in	7.4 to 8.4

575--Nishna clay loam

Nishna

Extent: 85 percent of the unit

Landform(s): flood plain

Slope gradient: 0 to 1 percent

Parent material:

Restrictive feature(s):

Flooding: occasional

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4

Wind erodibility index (WEI): 86

Kw (surface layer): .37

Land capability class, nonirrigated: 3w

Hydric soil: yes

Hydrologic group: C/D

Potential frost action: moderate

Representative soil profile:

Texture

H1 -- 0 to 45 in silty clay loam
H2 -- 45 to 60 in silty clay

<i>Permeability</i>	<i>Available water</i>	
	<i>capacity</i>	<i>pH</i>
very slow	8.1 to 9.9 in	7.4 to 8.4
very slow	1.6 to 2.2 in	7.4 to 8.4

654--Revere clay loam

This report shows only the major soils in each map unit. Others may exist.

Map Unit Description (MN)

Redwood 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]

654--Revere clay loam

Revere

Extent: 85 percent of the unit
Landform(s): flat
Slope gradient: 0 to 2 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: poorly drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4L
Wind erodibility index (WEI): 86
Kw (surface layer): .24
Land capability class, nonirrigated: 2w
Hydric soil: yes
Hydrologic group: B/D
Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 15 in	clay loam	moderate	2.5 to 2.8 in	7.4 to 8.4
H2 -- 15 to 35 in	clay loam	moderate	3.0 to 3.8 in	7.4 to 8.4
H3 -- 35 to 60 in	loam	moderate	4.2 to 4.7 in	7.4 to 8.4

818--Lemond-Linder-Estherville complex

Lemond

Extent: 45 percent of the unit
Landform(s): flat
Slope gradient: 0 to 2 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: poorly drained

Soil loss tolerance (T factor): 4
Wind erodibility group (WEG): 4L
Wind erodibility index (WEI): 86
Kw (surface layer): .15
Land capability class, nonirrigated: 3w
Hydric soil: yes
Hydrologic group: B/D
Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 17 in	gravelly sandy loam	moderately rapid	2.2 to 2.5 in	7.4 to 7.8
H2 -- 17 to 28 in	sandy loam	moderately rapid	1.3 to 1.5 in	7.4 to 7.8
H3 -- 28 to 44 in	loamy sand	rapid	1.5 to 1.8 in	7.4 to 8.4
H4 -- 44 to 60 in	sandy loam	moderate	1.7 to 2.0 in	7.4 to 8.4

This report shows only the major soils in each map unit. Others may exist.

Map Unit Description (MN)

Redwood 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]

818--Lemond-Linder-Estherville complex

Linder

Extent: 25 percent of the unit

Landform(s): beach

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw (surface layer): .20

Land capability class, nonirrigated: 2s

Hydric soil: no

Hydrologic group: B

Potential frost action: high

Representative soil profile:

Texture

H1 --	0 to 18 in	sandy loam
H2 --	18 to 28 in	sandy loam
H3 --	28 to 60 in	gravelly loamy coarse sand

<i>Permeability</i>	<i>Available water</i>	
	<i>capacity</i>	<i>pH</i>
moderate	2.4 to 2.7 in	6.1 to 7.3
moderately rapid	1.2 to 1.4 in	6.1 to 7.3
very rapid	2.6 to 3.2 in	7.4 to 8.4

Estherville

Extent: 25 percent of the unit

Landform(s): beach

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw (surface layer): .20

Land capability class, nonirrigated: 3s

Hydric soil: no

Hydrologic group: B

Potential frost action: low

Representative soil profile:

Texture

H1 --	0 to 9 in	sandy loam
H2 --	9 to 19 in	sandy loam
H3 --	19 to 60 in	gravelly coarse sand

<i>Permeability</i>	<i>Available water</i>	
	<i>capacity</i>	<i>pH</i>
moderately rapid	1.2 to 1.4 in	6.1 to 7.3
moderately rapid	1.2 to 1.4 in	6.1 to 7.3
rapid	0.8 to 1.6 in	7.4 to 8.4

882--Millington-Zumbro complex

This report shows only the major soils in each map unit. Others may exist.

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Map Unit Description (MN)

Redwood 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]

882--Millington-Zumbro complex

Millington

Extent: 55 percent of the unit

Landform(s): flood plain

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: frequent

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw (surface layer): .28

Land capability class, nonirrigated: 5w

Hydric soil: yes

Hydrologic group: B/D

Potential frost action: high

Representative soil profile:

Texture

H1 --	0 to 38 in	loam
H2 --	38 to 60 in	sr to sandy loam to silty clay

<i>Permeability</i>	<i>Available water</i>	
	<i>capacity</i>	<i>pH</i>
moderate	7.6 to 8.3 in	7.4 to 8.4
moderate	2.9 to 4.2 in	7.4 to 8.4

Zumbro

Extent: 20 percent of the unit

Landform(s): flood plain

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: frequent

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw (surface layer): .20

Land capability class, nonirrigated: 3s

Hydric soil: yes

Hydrologic group: A

Potential frost action: low

Representative soil profile:

Texture

H1 --	0 to 10 in	fine sandy loam
H2 --	10 to 42 in	loamy fine sand
H3 --	42 to 60 in	fine sand
H4 --	60 to 64 in	fine sand

<i>Permeability</i>	<i>Available water</i>	
	<i>capacity</i>	<i>pH</i>
moderately rapid	1.6 to 1.8 in	6.1 to 7.8
rapid	2.6 to 3.2 in	6.1 to 7.8
rapid	0.9 to 1.2 in	6.1 to 7.8
rapid	0.1 to 0.3 in	7.4 to 7.8

883--Du Page-Zumbro complex

This report shows only the major soils in each map unit. Others may exist.

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Map Unit Description (MN)

Redwood 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]

883--Du Page-Zumbro complex

Du Page

Extent: 60 percent of the unit

Landform(s): flood plain

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: occasional

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw (surface layer): .28

Land capability class, nonirrigated: 2w

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

Representative soil profile:

Texture

H1 --	0 to 40 in	loam
H2 --	40 to 60 in	sr to loam to gravelly sandy clay loam

<i>Permeability</i>	<i>Available water</i>	
	<i>capacity</i>	<i>pH</i>
moderate	8.0 to 8.8 in	6.6 to 8.4
moderately rapid	3.0 to 3.3 in	7.9 to 8.4

Zumbro

Extent: 20 percent of the unit

Landform(s): flood plain

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: occasional

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw (surface layer): .17

Land capability class, nonirrigated: 3s

Hydric soil: no

Hydrologic group: A

Potential frost action: low

Representative soil profile:

Texture

H1 --	0 to 10 in	loamy sand
H2 --	10 to 50 in	loamy sand
H3 --	50 to 60 in	fine sand

<i>Permeability</i>	<i>Available water</i>	
	<i>capacity</i>	<i>pH</i>
rapid	1.0 to 1.2 in	6.1 to 7.8
rapid	4.0 to 4.8 in	6.1 to 7.8
rapid	0.5 to 0.7 in	7.4 to 7.8

884--Delft-Webster complex

This report shows only the major soils in each map unit. Others may exist.

Map Unit Description (MN)

Redwood 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]

884--Delft-Webster complex

Delft

Extent: 50 percent of the unit
Landform(s): swale
Slope gradient: 1 to 2 percent
Parent material:
Restrictive feature(s):
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 (surface layer): .24
Land capability class, nonirrigated: 2w
Hydric soil: yes
Hydrologic group: B/D
Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 10 in	loam	moderate	2.0 to 2.2 in	6.1 to 7.3
H2 -- 10 to 28 in	clay loam	moderate	3.6 to 4.0 in	6.1 to 7.3
H3 -- 28 to 47 in	loam	moderate	3.2 to 3.6 in	6.6 to 7.8
H4 -- 47 to 60 in	loam	moderate	2.2 to 2.5 in	7.4 to 8.4

Webster

Extent: 45 percent of the unit
Landform(s): swale
Slope gradient: 0 to 2 percent
Parent material:
Restrictive feature(s):
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 (surface layer): .24
Land capability class, nonirrigated: 2w
Hydric soil: yes
Hydrologic group: B/D
Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 20 in	clay loam	moderate	3.4 to 3.8 in	6.6 to 7.3
H2 -- 20 to 49 in	clay loam	moderate	4.3 to 5.5 in	6.6 to 7.3
H3 -- 49 to 60 in	loam	moderate	1.9 to 2.1 in	7.4 to 8.4

894B2--Everly-Storden complex, 3 to 6 percent slopes, eroded

This report shows only the major soils in each map unit. Others may exist.

Map Unit Description (MN)

Redwood 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]

894B2--Everly-Storden complex, 3 to 6 percent slopes, eroded

Everly

Extent: 45 percent of the unit
Landform(s): moraine
Slope gradient: 3 to 6 percent
Parent material:
Restrictive feature(s):
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 (surface layer): .24
Land capability class, nonirrigated: 2e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 10 in clay loam		moderate	1.7 to 1.9 in	6.1 to 7.3
H2 -- 10 to 35 in clay loam		moderate	3.8 to 4.8 in	6.1 to 7.3
H3 -- 35 to 60 in loam		moderately slow	4.2 to 4.7 in	7.4 to 8.4

Storden

Extent: 35 percent of the unit
Landform(s): moraine
Slope gradient: 4 to 6 percent
Parent material:
Restrictive feature(s):
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 (surface layer): .28
Land capability class, nonirrigated: 2e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 10 in loam		moderate	2.0 to 2.2 in	7.4 to 8.4
H2 -- 10 to 37 in loam		moderate	4.6 to 5.2 in	7.4 to 8.4
H3 -- 37 to 60 in loam		moderate	3.9 to 4.3 in	7.4 to 8.4

894C2--Storden-Everly complex, 6 to 12 percent slopes, eroded

This report shows only the major soils in each map unit. Others may exist.

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Map Unit Description (MN)

Redwood 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]

894C2--Storden-Everly complex, 6 to 12 percent slopes, eroded

Storden

Extent: 45 percent of the unit
Landform(s): moraine
Slope gradient: 6 to 12 percent
Parent material:
Restrictive feature(s):
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 (surface layer): .28
Land capability class, nonirrigated: 3e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 7 in loam		moderate	1.4 to 1.6 in	7.4 to 8.4
H2 -- 7 to 37 in loam		moderate	5.1 to 5.7 in	7.4 to 8.4
H3 -- 37 to 60 in loam		moderate	3.9 to 4.3 in	7.4 to 8.4

Everly

Extent: 35 percent of the unit
Landform(s): moraine
Slope gradient: 6 to 12 percent
Parent material:
Restrictive feature(s):
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 (surface layer): .24
Land capability class, nonirrigated: 3e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 10 in clay loam		moderate	1.7 to 1.9 in	6.1 to 7.3
H2 -- 10 to 24 in clay loam		moderate	2.1 to 2.7 in	6.1 to 7.3
H3 -- 24 to 60 in loam		moderately slow	6.1 to 6.8 in	7.4 to 8.4

894D2--Storden-Everly complex, 12 to 18 percent slopes, eroded

This report shows only the major soils in each map unit. Others may exist.

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Map Unit Description (MN)

Redwood 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]

894D2--Storden-Everly complex, 12 to 18 percent slopes, eroded

Storden

Extent: 50 percent of the unit
Landform(s): moraine
Slope gradient: 12 to 18 percent
Parent material:
Restrictive feature(s):
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 (surface layer): .28
Land capability class, nonirrigated: 4e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 7 in loam		moderate	1.4 to 1.6 in	7.4 to 8.4
H2 -- 7 to 37 in loam		moderate	5.1 to 5.7 in	7.4 to 8.4
H3 -- 37 to 60 in loam		moderate	3.9 to 4.3 in	7.4 to 8.4

Everly

Extent: 30 percent of the unit
Landform(s): moraine
Slope gradient: 12 to 18 percent
Parent material:
Restrictive feature(s):
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 (surface layer): .24
Land capability class, nonirrigated: 4e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 10 in clay loam		moderate	1.7 to 1.9 in	6.1 to 7.3
H2 -- 10 to 24 in clay loam		moderate	2.1 to 2.7 in	6.1 to 7.3
H3 -- 24 to 60 in loam		moderately slow	6.1 to 6.8 in	7.4 to 8.4

954B2--Ves-Storden loams, 3 to 6 percent slopes, eroded

This report shows only the major soils in each map unit. Others may exist.

Map Unit Description (MN)

Redwood 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]

954B2--Ves-Storden loams, 3 to 6 percent slopes, eroded

Ves

Extent: 50 percent of the unit
Landform(s): moraine
Slope gradient: 3 to 6 percent
Parent material:
Restrictive feature(s):
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 (surface layer): .24
Land capability class, nonirrigated: 2e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 10 in loam		moderate	2.0 to 2.2 in	6.1 to 7.8
H2 -- 10 to 24 in loam		moderate	2.4 to 2.7 in	6.6 to 7.8
H3 -- 24 to 39 in loam		moderate	2.5 to 2.8 in	7.4 to 8.4
H4 -- 39 to 60 in loam		moderate	3.5 to 4.0 in	7.4 to 8.4

Storden

Extent: 35 percent of the unit
Landform(s): moraine
Slope gradient: 4 to 6 percent
Parent material:
Restrictive feature(s):
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 (surface layer): .28
Land capability class, nonirrigated: 2e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 8 in loam		moderate	1.6 to 1.7 in	7.4 to 8.4
H2 -- 8 to 37 in loam		moderate	5.0 to 5.5 in	7.4 to 8.4
H3 -- 37 to 60 in loam		moderate	3.9 to 4.3 in	7.4 to 8.4

954C2--Storden-Ves loams, 6 to 12 percent slopes, eroded

This report shows only the major soils in each map unit. Others may exist.

Map Unit Description (MN)

Redwood 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]

954C2--Storden-Ves loams, 6 to 12 percent slopes, eroded

Storden

Extent: 50 percent of the unit
Landform(s): moraine
Slope gradient: 6 to 12 percent
Parent material:
Restrictive feature(s):
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 (surface layer): .28
Land capability class, nonirrigated: 3e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 8 in loam		moderate	1.6 to 1.7 in	7.4 to 8.4
H2 -- 8 to 37 in loam		moderate	5.0 to 5.5 in	7.4 to 8.4
H3 -- 37 to 60 in loam		moderate	3.9 to 4.3 in	7.4 to 8.4

Ves

Extent: 25 percent of the unit
Landform(s): moraine
Slope gradient: 6 to 12 percent
Parent material:
Restrictive feature(s):
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 (surface layer): .24
Land capability class, nonirrigated: 3e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 10 in loam		moderate	2.0 to 2.2 in	6.1 to 7.8
H2 -- 10 to 24 in loam		moderate	2.4 to 2.7 in	6.6 to 7.8
H3 -- 24 to 39 in loam		moderate	2.5 to 2.8 in	7.4 to 8.4
H4 -- 39 to 60 in loam		moderate	3.5 to 4.0 in	7.4 to 8.4

954D2--Storden-Ves loams, 12 to 18 percent slopes, eroded

This report shows only the major soils in each map unit. Others may exist.

Map Unit Description (MN)

Redwood 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]

954D2--Storden-Ves loams, 12 to 18 percent slopes, eroded

Storden

Extent: 60 percent of the unit
Landform(s): moraine
Slope gradient: 12 to 18 percent
Parent material:
Restrictive feature(s):
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 (surface layer): .28
Land capability class, nonirrigated: 4e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 8 in loam		moderate	1.6 to 1.7 in	7.4 to 8.4
H2 -- 8 to 37 in loam		moderate	5.0 to 5.5 in	7.4 to 8.4
H3 -- 37 to 60 in loam		moderate	3.9 to 4.3 in	7.4 to 8.4

Ves

Extent: 20 percent of the unit
Landform(s): moraine
Slope gradient: 12 to 18 percent
Parent material:
Restrictive feature(s):
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 (surface layer): .24
Land capability class, nonirrigated: 4e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 10 in loam		moderate	2.0 to 2.2 in	6.1 to 7.8
H2 -- 10 to 24 in loam		moderate	2.4 to 2.7 in	6.6 to 7.8
H3 -- 24 to 39 in loam		moderate	2.5 to 2.8 in	7.4 to 8.4
H4 -- 39 to 60 in loam		moderate	3.5 to 4.0 in	7.4 to 8.4

992E--Rock outcrop-Copaston complex, 2 to 40 percent slopes

This report shows only the major soils in each map unit. Others may exist.

Map Unit Description (MN)

Redwood 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]

992E--Rock outcrop-Copaston complex, 2 to 40 percent slopes

Rock outcrop

Extent: 50 percent of the unit
Landform(s): moraine
Slope gradient:
Parent material:
Restrictive feature(s):
Flooding:
Ponding:
Drainage class:

Soil loss tolerance (T factor):
Wind erodibility group (WEG):
Wind erodibility index (WEI):
Kw (surface layer):
Land capability class, nonirrigated:
Hydric soil:
Hydrologic group:
Potential 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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Copaston

Extent: 35 percent of the unit
Landform(s): moraine
Slope gradient: 2 to 40 percent
Parent material:
Restrictive feature(s): bedrock (lithic) at 12 to 20 inches
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 1
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw (surface layer): .28
Land capability class, nonirrigated: 6e
Hydric soil: no
Hydrologic group: D
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 14 in	sandy loam	moderate	1.8 to 2.1 in	6.1 to 7.3
H2 -- 14 to 18 in	sandy loam	moderately rapid	0.5 to 0.6 in	6.1 to 7.8
H3 -- 18 to 22 in	unweathered bedrock	very slow		

999B2--Ves-Estherville-Storden complex, 3 to 6 percent slopes, eroded

This report shows only the major soils in each map unit. Others may exist.

Map Unit Description (MN)

Redwood 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]

999B2--Ves-Estherville-Storden complex, 3 to 6 percent slopes, eroded

Ves

Extent: 30 percent of the unit
Landform(s): moraine
Slope gradient: 3 to 6 percent
Parent material:
Restrictive feature(s):
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 (surface layer): .24
Land capability class, nonirrigated: 2e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 10 in	loam	moderate	2.0 to 2.2 in	6.1 to 7.8
H2 -- 10 to 22 in	loam	moderate	2.1 to 2.3 in	6.6 to 7.8
H3 -- 22 to 39 in	loam	moderate	2.9 to 3.2 in	7.4 to 8.4
H4 -- 39 to 60 in	loam	moderate	3.5 to 4.0 in	7.4 to 8.4

Estherville

Extent: 30 percent of the unit
Landform(s): moraine
Slope gradient: 3 to 6 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw (surface layer): .20
Land capability class, nonirrigated: 3s
Hydric soil: no
Hydrologic group: B
Potential frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 10 in	sandy loam	moderately rapid	1.3 to 1.5 in	6.1 to 7.3
H2 -- 10 to 19 in	sandy loam	moderately rapid	1.1 to 1.3 in	6.1 to 7.3
H3 -- 19 to 60 in	gravelly coarse sand	rapid	0.8 to 1.6 in	7.4 to 8.4

This report shows only the major soils in each map unit. Others may exist.

Map Unit Description (MN)

Redwood 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]

999B2--Ves-Estherville-Storden complex, 3 to 6 percent slopes, eroded

Storden

Extent: 20 percent of the unit
Landform(s): moraine
Slope gradient: 4 to 6 percent
Parent material:
Restrictive feature(s):
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 (surface layer): .28
Land capability class, nonirrigated: 2e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 11 in loam		moderate	2.2 to 2.4 in	7.4 to 8.4
H2 -- 11 to 37 in loam		moderate	4.4 to 4.9 in	7.4 to 8.4
H3 -- 37 to 60 in loam		moderate	3.9 to 4.3 in	7.4 to 8.4

999C2--Storden-Estherville-Ves loams, 6 to 12 percent slopes, eroded

Storden

Extent: 30 percent of the unit
Landform(s): moraine
Slope gradient: 6 to 12 percent
Parent material:
Restrictive feature(s):
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 (surface layer): .28
Land capability class, nonirrigated: 3e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 11 in loam		moderate	2.2 to 2.4 in	7.4 to 8.4
H2 -- 11 to 37 in loam		moderate	4.4 to 4.9 in	7.4 to 8.4
H3 -- 37 to 60 in loam		moderate	3.9 to 4.3 in	7.4 to 8.4

This report shows only the major soils in each map unit. Others may exist.

Map Unit Description (MN)

Redwood 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]

999C2--Storden-Estherville-Ves loams, 6 to 12 percent slopes, eroded

Estherville

Extent: 30 percent of the unit

Landform(s): moraine

Slope gradient: 6 to 12 percent

Parent material:

Restrictive feature(s):

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 (surface layer): .20

Land capability class, nonirrigated: 4s

Hydric soil: no

Hydrologic group: B

Potential frost action: low

Representative soil profile:

Texture

H1 --	0 to 10 in	loam
H2 --	10 to 19 in	sandy loam
H3 --	19 to 60 in	gravelly coarse sand

Available water

<i>Permeability</i>	<i>capacity</i>	<i>pH</i>
moderately rapid	2.0 to 2.2 in	6.1 to 7.3
moderately rapid	1.1 to 1.3 in	6.1 to 7.3
rapid	0.8 to 1.6 in	7.4 to 8.4

Ves

Extent: 20 percent of the unit

Landform(s): moraine

Slope gradient: 6 to 12 percent

Parent material:

Restrictive feature(s):

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 (surface layer): .24

Land capability class, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

Representative soil profile:

Texture

H1 --	0 to 10 in	loam
H2 --	10 to 22 in	loam
H3 --	22 to 39 in	loam
H4 --	39 to 60 in	loam

Available water

<i>Permeability</i>	<i>capacity</i>	<i>pH</i>
moderate	2.0 to 2.2 in	6.1 to 7.8
moderate	2.1 to 2.3 in	6.6 to 7.8
moderate	2.9 to 3.2 in	7.4 to 8.4
moderate	3.5 to 4.0 in	7.4 to 8.4

999D2--Storden-Estherville-Ves complex, 12 to 18 percent slopes, eroded

This report shows only the major soils in each map unit. Others may exist.

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Map Unit Description (MN)

Redwood 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]

999D2--Storden-Estherville-Ves complex, 12 to 18 percent slopes, eroded

Storden

Extent: 30 percent of the unit
Landform(s): moraine
Slope gradient: 12 to 18 percent
Parent material:
Restrictive feature(s):
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 (surface layer): .28
Land capability class, nonirrigated: 4e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 11 in	loam	moderate	2.2 to 2.4 in	7.4 to 8.4
H2 -- 11 to 37 in	loam	moderate	4.4 to 4.9 in	7.4 to 8.4
H3 -- 37 to 60 in	loam	moderate	3.9 to 4.3 in	7.4 to 8.4

Estherville

Extent: 30 percent of the unit
Landform(s): moraine
Slope gradient: 12 to 18 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw (surface layer): .20
Land capability class, nonirrigated: 6e
Hydric soil: no
Hydrologic group: B
Potential frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 10 in	sandy loam	moderately rapid	1.3 to 1.5 in	6.1 to 7.3
H2 -- 10 to 19 in	sandy loam	moderately rapid	1.1 to 1.3 in	6.1 to 7.3
H3 -- 19 to 60 in	gravelly coarse sand	rapid	0.8 to 1.6 in	7.4 to 8.4

This report shows only the major soils in each map unit. Others may exist.

Map Unit Description (MN)

Redwood 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]

999D2--Storden-Estherville-Ves complex, 12 to 18 percent slopes, eroded

Ves

Extent: 15 percent of the unit
Landform(s): moraine
Slope gradient: 12 to 18 percent
Parent material:
Restrictive feature(s):
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 (surface layer): .24
Land capability class, nonirrigated: 4e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 10 in	loam	moderate	2.0 to 2.2 in	6.1 to 7.8
H2 -- 10 to 22 in	loam	moderate	2.1 to 2.3 in	6.6 to 7.8
H3 -- 22 to 39 in	loam	moderate	2.9 to 3.2 in	7.4 to 8.4
H4 -- 39 to 60 in	loam	moderate	3.5 to 4.0 in	7.4 to 8.4

1016--Udorthents, loamy

Udorthents

Extent: 100 percent of the unit
Landform(s): moraine
Slope gradient: 0 to 2 percent
Parent material:
Restrictive feature(s):
Flooding:
Ponding:
Drainage class:

Soil loss tolerance (T factor):
Wind erodibility group (WEG):
Wind erodibility index (WEI):
Kw (surface layer):
Land capability class, nonirrigated:
Hydric soil:
Hydrologic group:
Potential 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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1029--Pits, gravel

This report shows only the major soils in each map unit. Others may exist.

Map Unit Description (MN)

Redwood 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]

1029--Pits, gravel

Pits

Extent: 100 percent of the unit

Landform(s):

Slope gradient:

Parent material:

Restrictive feature(s):

Flooding:

Ponding:

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw (surface layer):

Land capability class, nonirrigated:

Hydric soil:

Hydrologic group:

Potential 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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1053--Aquolls, ponded

Aquolls

Extent: 100 percent of the unit

Landform(s): depression

Slope gradient: 0 to 1 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: frequent

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw (surface layer):

Land capability class, nonirrigated:

Hydric soil: yes

Hydrologic group:

Potential 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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1833--Coland clay loam, occasionally flooded

This report shows only the major soils in each map unit. Others may exist.

Map Unit Description (MN)

Redwood 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]

1833--Coland clay loam, occasionally flooded

Coland

Extent: 85 percent of the unit
Landform(s): flood plain
Slope gradient: 0 to 2 percent
Parent material:
Restrictive feature(s):
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 (surface layer): .24
Land capability class, nonirrigated: 2w
Hydric soil: yes
Hydrologic group: B/D
Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 10 in	clay loam	moderate	1.7 to 1.9 in	6.1 to 7.3
H2 -- 10 to 39 in	clay loam	moderate	5.0 to 5.5 in	6.1 to 7.3
H3 -- 39 to 60 in	loam	moderately rapid	3.5 to 4.0 in	7.4 to 7.8

1834--Coland clay loam, frequently flooded

Coland

Extent: 85 percent of the unit
Landform(s): flood plain
Slope gradient: 0 to 2 percent
Parent material:
Restrictive feature(s):
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 (surface layer): .24
Land capability class, nonirrigated: 5w
Hydric soil: yes
Hydrologic group: B/D
Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 10 in	clay loam	moderate	1.7 to 1.9 in	6.1 to 7.3
H2 -- 10 to 39 in	clay loam	moderate	5.0 to 5.5 in	6.1 to 7.3
H3 -- 39 to 60 in	loam	moderately rapid	3.5 to 4.0 in	7.4 to 7.8

1850--Oshawa variant stony clay loam

This report shows only the major soils in each map unit. Others may exist.

Map Unit Description (MN)

Redwood 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]

1850--Oshawa variant stony clay loam

Oshawa variant

Extent: 85 percent of the unit

Landform(s): flood plain

Slope gradient: 1 to 3 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 8

Wind erodibility index (WEI): 0

Kw (surface layer): .28

Land capability class, nonirrigated: 7w

Hydric soil: yes

Hydrologic group: D

Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 13 in	stony clay loam	moderately slow	2.2 to 2.5 in	7.4 to 8.4
H2 -- 13 to 42 in	clay loam	moderately slow	5.0 to 5.5 in	7.4 to 8.4
H3 -- 42 to 60 in	silty clay loam	moderately slow	2.8 to 3.4 in	7.4 to 8.4

1851B--Blue Earth mucky clay loam, sloping

Blue Earth

Extent: 85 percent of the unit

Landform(s): swale

Slope gradient: 1 to 3 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw (surface layer): .28

Land capability class, nonirrigated: 7w

Hydric soil: yes

Hydrologic group: B/D

Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 10 in	mucky clay loam	moderately slow	1.8 to 2.4 in	7.4 to 8.4
H2 -- 10 to 52 in	mucky clay loam	moderately slow	7.6 to 10.1 in	7.4 to 8.4
H3 -- 52 to 60 in	clay loam	moderately slow	1.1 to 1.3 in	7.4 to 8.4

1852F--Terril-Swanlake loams, 25 to 70 percent slopes

This report shows only the major soils in each map unit. Others may exist.

Map Unit Description (MN)

Redwood 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]

1852F--Terril-Swanlake loams, 25 to 70 percent slopes

Terril

Extent: 50 percent of the unit

Landform(s): moraine

Slope gradient: 25 to 60 percent

Parent material:

Restrictive feature(s):

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 (surface layer): .24

Land capability class, nonirrigated: 7e

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 24 in loam		moderate	4.8 to 5.3 in	6.1 to 7.3
H2 -- 24 to 36 in loam		moderate	2.4 to 2.6 in	6.1 to 7.3
H3 -- 36 to 60 in loam		moderate	4.1 to 4.6 in	6.1 to 7.3

Swanlake

Extent: 30 percent of the unit

Landform(s): moraine

Slope gradient: 25 to 70 percent

Parent material:

Restrictive feature(s):

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 (surface layer): .28

Land capability class, nonirrigated: 7e

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 9 in loam		moderate	1.8 to 2.0 in	7.4 to 8.4
H2 -- 9 to 17 in loam		moderate	1.3 to 1.5 in	7.4 to 8.4
H3 -- 17 to 60 in loam		moderate	7.3 to 8.2 in	7.4 to 8.4

1853A--Wadena variant loam, 0 to 2 percent slopes

This report shows only the major soils in each map unit. Others may exist.

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Map Unit Description (MN)

Redwood 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]

1853A--Wadena variant loam, 0 to 2 percent slopes

Wadena variant

Extent: 90 percent of the unit

Landform(s): moraine

Slope gradient: 0 to 2 percent

Parent material:

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

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw (surface layer): .24

Land capability class, nonirrigated: 2s

Hydric soil: no

Hydrologic group: C

Potential frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 11 in	loam	moderately rapid	2.2 to 2.4 in	6.6 to 7.3
H2 -- 11 to 18 in	loam	moderate	1.2 to 1.3 in	6.6 to 7.3
H3 -- 18 to 32 in	loam	moderately rapid	2.3 to 2.6 in	7.4 to 7.8
H4 -- 32 to 36 in	weathered bedrock	very slow		

1853B--Wadena variant loam, 2 to 6 percent slopes

Wadena variant

Extent: 90 percent of the unit

Landform(s): moraine

Slope gradient: 2 to 6 percent

Parent material:

Restrictive feature(s): bedrock (paralithic) at 20 to 40 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 (surface layer): .24

Land capability class, nonirrigated: 2e

Hydric soil: no

Hydrologic group: C

Potential frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 11 in	loam	moderately rapid	2.2 to 2.4 in	6.6 to 7.3
H2 -- 11 to 18 in	loam	moderate	1.2 to 1.3 in	6.6 to 7.3
H3 -- 18 to 32 in	loam	moderately rapid	2.3 to 2.6 in	7.4 to 7.8
H4 -- 32 to 36 in	weathered bedrock	very slow		

This report shows only the major soils in each map unit. Others may exist.

Map Unit Description (MN)

Redwood 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]

1853B--Wadena variant loam, 2 to 6 percent slopes

1897--Seaforth-Wilmonton clay loams

Seaforth

Extent: 50 percent of the unit

Landform(s): moraine

Slope gradient: 1 to 3 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw (surface layer): .24

Land capability class, nonirrigated: 2s

Hydric soil: no

Hydrologic group: B

Potential frost action: high

Representative soil profile:

Texture

H1 --	0 to 12 in	loam
H2 --	12 to 30 in	loam
H3 --	30 to 60 in	loam

Permeability

Available water

capacity

pH

moderate	2.4 to 2.6 in	7.4 to 8.4
moderate	3.1 to 3.4 in	7.4 to 8.4
moderate	5.1 to 5.7 in	7.4 to 8.4

Wilmonton

Extent: 30 percent of the unit

Landform(s): moraine

Slope gradient: 1 to 3 percent

Parent material:

Restrictive feature(s):

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 (surface layer): .28

Land capability class, nonirrigated: 1

Hydric soil: no

Hydrologic group: B

Potential frost action: high

Representative soil profile:

Texture

H1 --	0 to 14 in	clay loam
H2 --	14 to 37 in	clay loam
H3 --	37 to 60 in	clay loam

Permeability

Available water

capacity

pH

moderate	2.4 to 2.7 in	6.1 to 7.3
moderately slow	3.4 to 4.3 in	6.1 to 7.3
moderately slow	3.2 to 3.7 in	7.4 to 8.4

1899B--Wilmonton variant loam, 2 to 12 percent slopes

This report shows only the major soils in each map unit. Others may exist.

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Map Unit Description (MN)

Redwood 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]

1899B--Wilmonton variant loam, 2 to 12 percent slopes

Wilmonton variant

Extent: 85 percent of the unit

Landform(s): moraine

Slope gradient: 2 to 12 percent

Parent material:

Restrictive feature(s):

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 (surface layer): .32

Land capability class, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 19 in	loam	moderate	3.8 to 4.2 in	6.6 to 7.3
H2 -- 19 to 41 in	clay	very slow	2.2 to 3.1 in	6.6 to 7.3
H3 -- 41 to 60 in	clay	very slow	1.7 to 2.5 in	7.4 to 8.4

1899E--Wilmonton variant sandy clay loam, 12 to 40 percent slopes

Wilmonton variant

Extent: 85 percent of the unit

Landform(s): moraine

Slope gradient: 12 to 40 percent

Parent material:

Restrictive feature(s):

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 (surface layer): .32

Land capability class, nonirrigated: 7e

Hydric soil: no

Hydrologic group: B

Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 9 in	sandy clay loam	moderate	1.6 to 1.8 in	6.6 to 7.3
H2 -- 9 to 29 in	clay	very slow	2.0 to 2.8 in	6.6 to 7.3
H3 -- 29 to 60 in	clay	very slow	2.8 to 4.0 in	7.4 to 8.4

M-W--Water, miscellaneous

This report shows only the major soils in each map unit. Others may exist.

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Map Unit Description (MN)

Redwood 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]

M-W--Water, miscellaneous

Water, miscellaneous

Extent: 100 percent of the unit

Landform(s):

Slope gradient:

Parent material:

Restrictive feature(s):

Flooding:

Ponding:

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw (surface layer):

Land capability class, nonirrigated:

Hydric soil:

Hydrologic group:

Potential 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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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
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This report provides a semi tabular listing of some soil and site properties and interpretations valuable in communicating the concept of a map unit. It also includes commonly used conservation planning information in one place for easy access. Major soil components are always displayed and minor components are also displayed if they are included in the database and they are selected at the time the report is generated.

This report shows only the major soils in each map unit. Others may exist.