

Map Unit Description (MN)

Traverse 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]

26--Aazdahl clay loam

Aazdahl

Extent: 85 percent of the unit
Landform(s): rises on moraines, rises on till-floored lake plains
Slope gradient: 0 to 2 percent
Parent material: loamy glacial till
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

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	clay loam	moderate	1.7 to 1.9 in	6.6 to 7.3
Bw -- 10 to 18 in	clay loam	moderately slow	1.4 to 1.6 in	6.6 to 7.8
Bk,C -- 18 to 60 in	clay loam	moderately slow	5.8 to 7.1 in	7.4 to 8.4

34--Parnell silty clay loam

Parnell

Extent: 85 percent of the unit
Landform(s): depressions on moraines, depressions on till-floored lake plains
Slope gradient: 0 to 1 percent
Parent material: local alluvium over loamy glacial till
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: C/D
Potential 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	silty clay loam	moderately slow	2.9 to 3.6 in	6.1 to 7.8
Btg,BCg -- 16 to 60 in	silty clay	slow	5.7 to 8.3 in	6.1 to 7.8

46--Borup loam

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46--Borup loam

Borup

Extent: 85 percent of the unit

Landform(s): swales on lake plains

Slope gradient: 0 to 2 percent

Parent material: loamy over sandy lacustrine deposits

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>
Ap -- 0 to 10 in	loam	moderately rapid	2.0 to 2.3 in	7.4 to 8.4
Bkg -- 10 to 25 in	very fine sandy loam	moderately rapid	2.6 to 3.1 in	7.4 to 8.4
Cg -- 25 to 60 in	loamy very fine sand	rapid	5.2 to 6.6 in	7.4 to 8.4

47--Colvin silty clay loam

Colvin

Extent: 85 percent of the unit

Landform(s): swales on lake plains

Slope gradient: 0 to 1 percent

Parent material: silty lacustrine deposits

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): .28

Land capability class, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: C/D

Potential 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 10 in	silty clay loam	moderately slow	2.0 to 2.2 in	6.6 to 8.4
Ak,Bkg,Cg -- 10 to 46 in	silty clay loam	moderately slow	5.8 to 7.2 in	7.4 to 9.0
2Cg -- 46 to 60 in	loam	moderately slow	2.2 to 2.8 in	7.4 to 9.0

51--La Prairie silt loam

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51--La Prairie silt loam

La Prairie, occasionally flooded

Extent: 85 percent of the unit

Landform(s): flats on flood plains

Slope gradient: 0 to 2 percent

Parent material: silty alluvium

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: 1

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>
Ap -- 0 to 6 in	silt loam	moderate	1.0 to 1.3 in	6.6 to 8.4
A1,A2,A3 -- 6 to 30 in	silt loam	moderate	4.1 to 5.3 in	6.6 to 8.4
Bw -- 30 to 43 in	silty clay loam	moderate	1.9 to 2.9 in	6.6 to 8.4
Cg -- 43 to 60 in	silt loam	moderate	2.5 to 3.7 in	6.6 to 8.4

56--Fargo silty clay loam

Fargo

Extent: 85 percent of the unit

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

Slope gradient: 0 to 2 percent

Parent material: clayey lacustrine deposits

Restrictive feature(s):

Flooding: rare

Ponding: none

Drainage class: 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: 2w

Hydric soil: yes

Hydrologic group: D

Potential 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	silty clay loam	slow	1.4 to 1.8 in	6.6 to 7.8
BA -- 8 to 16 in	silty clay	slow	1.2 to 1.4 in	6.6 to 8.4
Bg,Cg -- 16 to 60 in	silty clay	slow	6.1 to 7.4 in	7.9 to 8.4

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57--Fargo silty clay

Fargo

Extent: 85 percent of the unit

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

Slope gradient: 0 to 2 percent

Parent material: clayey lacustrine deposits

Restrictive feature(s):

Flooding: rare

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): .28

Land capability class, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: D

Potential 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	silty clay	slow	1.1 to 1.3 in	6.6 to 7.8
BA,Bg -- 7 to 23 in	silty clay	slow	2.2 to 2.7 in	6.6 to 8.4
Cg -- 23 to 60 in	silty clay	slow	5.2 to 6.3 in	7.9 to 8.4

58--Kittson loam

Kittson

Extent: 85 percent of the unit

Landform(s): rises on moraines, rises on till-floored lake plains

Slope gradient: 0 to 3 percent

Parent material: glaciolacustrine deposits over loamy glacial till

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): .24

Land capability class, nonirrigated: 1

Hydric soil: no

Hydrologic group: C

Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,Bw1 -- 0 to 16 in	loam	moderate	3.2 to 3.6 in	6.6 to 7.8
2Bw2 -- 16 to 24 in	fine sandy loam	moderate	1.3 to 1.5 in	6.6 to 7.8
2Bk -- 24 to 34 in	clay loam	moderate	1.5 to 1.8 in	7.4 to 8.4
2C -- 34 to 60 in	clay loam	moderate	3.9 to 4.7 in	7.4 to 8.4

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60--Glyndon loam

Glyndon

Extent: 85 percent of the unit

Landform(s): flats on lake plains, rises on lake plains

Slope gradient: 0 to 2 percent

Parent material: silty lacustrine deposits

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 capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	loam	moderate	2.0 to 2.3 in	7.4 to 9.0
Bk1,Bk2 -- 10 to 25 in	loam	moderately rapid	2.6 to 3.1 in	7.4 to 9.0
C1,C2g -- 25 to 60 in	very fine sandy loam	moderately rapid	5.2 to 6.6 in	7.4 to 9.0

67A--Bearden silt loam, 0 to 2 percent slopes

Bearden

Extent: 85 percent of the unit

Landform(s): rises on lake plains, flats on lake plains

Slope gradient: 0 to 2 percent

Parent material: silty lacustrine deposits

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat 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: 2s

Hydric soil: no

Hydrologic group: C

Potential 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	2.2 to 2.6 in	7.4 to 8.4
Bk1,Bk2 -- 11 to 29 in	silt loam	moderately slow	2.9 to 4.0 in	7.4 to 8.4
C -- 29 to 60 in	silt loam	moderately slow	4.9 to 6.8 in	7.4 to 8.4

67B--Bearden silty clay loam, 2 to 6 percent slopes

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67B--Bearden silty clay loam, 2 to 6 percent slopes

Bearden

<p><i>Extent:</i> 85 percent of the unit</p> <p><i>Landform(s):</i> hillslopes on lake plains</p> <p><i>Slope gradient:</i> 2 to 6 percent</p> <p><i>Parent material:</i> silty lacustrine deposits</p> <p><i>Restrictive feature(s):</i></p> <p><i>Flooding:</i> none</p> <p><i>Ponding:</i> none</p> <p><i>Drainage class:</i> moderately well drained</p>	<p><i>Soil loss tolerance (T factor):</i> 5</p> <p><i>Wind erodibility group (WEG):</i> 4L</p> <p><i>Wind erodibility index (WEI):</i> 86</p> <p><i>Kw (surface layer):</i> .28</p> <p><i>Land capability class, nonirrigated:</i> 2e</p> <p><i>Hydric soil:</i> no</p> <p><i>Hydrologic group:</i> C</p> <p><i>Potential frost action:</i> high</p>
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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 7 in	silty clay loam	moderately slow	1.2 to 1.6 in	7.4 to 8.4
Bk -- 7 to 17 in	silty clay loam	moderately slow	1.6 to 2.2 in	7.4 to 8.4
C -- 17 to 60 in	silty clay loam	moderately slow	6.9 to 9.4 in	7.4 to 8.4

108--McIntosh silt loam

McIntosh

<p><i>Extent:</i> 85 percent of the unit</p> <p><i>Landform(s):</i> rises on till-floored lake plains, flats on till-floored lake plains</p> <p><i>Slope gradient:</i> 0 to 2 percent</p> <p><i>Parent material:</i> silty glaciolacustrine deposits over loamy glacial till</p> <p><i>Restrictive feature(s):</i></p> <p><i>Flooding:</i> none</p> <p><i>Ponding:</i> none</p> <p><i>Drainage class:</i> moderately well drained</p>	<p><i>Soil loss tolerance (T factor):</i> 5</p> <p><i>Wind erodibility group (WEG):</i> 4L</p> <p><i>Wind erodibility index (WEI):</i> 86</p> <p><i>Kw (surface layer):</i> .28</p> <p><i>Land capability class, nonirrigated:</i> 2s</p> <p><i>Hydric soil:</i> no</p> <p><i>Hydrologic group:</i> B</p> <p><i>Potential frost action:</i> high</p>
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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	silt loam	moderate	1.6 to 1.9 in	7.4 to 8.4
Ak,Bk1,Bk2 -- 8 to 27 in	silt loam	moderate	3.0 to 4.2 in	7.4 to 8.4
2C -- 27 to 60 in	clay loam	moderate	4.6 to 6.3 in	7.4 to 8.4

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141--Egeland loam

Egeland

Extent: 85 percent of the unit

Landform(s): rises on beach ridges, rises on beach terraces

Slope gradient: 0 to 3 percent

Parent material: loamy mantle over sandy outwash deposits

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): .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>
Ap,A -- 0 to 14 in	loam	moderate	2.6 to 2.8 in	5.6 to 7.3
Bw -- 14 to 19 in	sandy loam	moderately rapid	0.4 to 0.7 in	6.1 to 7.8
C1,C2,C3 -- 19 to 41 in	loamy sand	moderately rapid	1.8 to 2.6 in	7.4 to 8.4
2C4 -- 41 to 60 in	loam	moderate	2.3 to 3.0 in	7.4 to 8.4

171B--Formdale clay loam, 1 to 6 percent slopes

Formdale

Extent: 85 percent of the unit

Landform(s): hillslopes on moraines

Slope gradient: 1 to 6 percent

Parent material: loamy glacial till

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 capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	clay loam	moderate	1.3 to 1.5 in	6.1 to 7.3
Bw1,Bw2 -- 8 to 18 in	clay loam	moderately slow	1.7 to 1.9 in	6.6 to 7.8
Bk -- 18 to 42 in	clay loam	moderately slow	3.4 to 4.6 in	7.4 to 8.4
C -- 42 to 60 in	clay loam	moderately slow	2.5 to 3.4 in	7.4 to 8.4

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171B--Formdale clay loam, 1 to 6 percent slopes

184--Hamerly clay loam

Hamerly

Extent: 85 percent of the unit

Landform(s): hillslopes on moraines, rises on till-floored lake plains

Slope gradient: 0 to 3 percent

Parent material: loamy glacial till

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat 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: 2s

Hydric soil: no

Hydrologic group: C

Potential 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	clay loam	moderate	1.5 to 2.0 in	6.6 to 8.4
Bk1,Bk2 -- 9 to 32 in	clay loam	moderate	3.4 to 4.3 in	7.4 to 8.4
C1,C2 -- 32 to 60 in	clay loam	moderately slow	3.9 to 5.3 in	7.4 to 8.4

236--Vallers clay loam

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236--Vallers clay loam

Vallers

Extent: 85 percent of the unit

Landform(s): flats on lake plains, rims on depressions on moraines, swales on moraines

Slope gradient: 0 to 2 percent

Parent material: loamy glacial till

Restrictive feature(s):

Flooding: rare

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: C

Potential 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 10 in	clay loam	moderately slow	1.8 to 2.2 in	7.4 to 8.4
Bkg1,Bkg2 -- 10 to 24 in	clay loam	moderately slow	2.1 to 2.7 in	7.4 to 8.4
Cg1,Cg2 -- 24 to 60 in	clay loam	moderately slow	6.1 to 6.8 in	7.4 to 8.4

245B--Lohnes sandy loam, 1 to 6 percent slopes

Lohnes

Extent: 90 percent of the unit

Landform(s): ridges on lake plains, hillslopes on moraines

Slope gradient: 1 to 6 percent

Parent material: sandy and gravelly outwash deposits

Restrictive feature(s):

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 (surface layer): .20

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>
Ap,A -- 0 to 14 in	sandy loam	rapid	1.4 to 1.8 in	6.6 to 7.8
C -- 14 to 60 in	coarse sand	rapid	1.4 to 3.2 in	7.4 to 8.4

276--Oldham silty clay loam

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276--Oldham silty clay loam

Oldham

Extent: 85 percent of the unit

Landform(s): depressions on moraines

Slope gradient: 0 to 1 percent

Parent material: local clayey alluvium

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): .28

Land capability class, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: C/D

Potential 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 10 in	silty clay loam	moderately slow	1.3 to 1.9 in	6.6 to 7.8
Bg1,Bg2 -- 10 to 44 in	silty clay loam	moderately slow	4.8 to 6.9 in	7.4 to 8.4
Cg -- 44 to 60 in	silty clay loam	moderately slow	2.2 to 3.1 in	7.4 to 8.4

293--Swenoda loam

Swenoda

Extent: 85 percent of the unit

Landform(s): hillslopes on till-floored lake plains

Slope gradient: 0 to 3 percent

Parent material: loamy glaciolacustrine deposits over lake washed till

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): .24

Land capability class, nonirrigated: 1

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>
Ap,A -- 0 to 23 in	loam	moderate	4.1 to 4.6 in	6.1 to 7.3
Bw -- 23 to 31 in	sandy loam	moderately rapid	0.9 to 1.4 in	6.6 to 7.8
Bk,2C -- 31 to 60 in	silt loam	moderate	4.9 to 5.7 in	7.4 to 8.4

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343--Wheatville silt loam

Wheatville

Extent: 85 percent of the unit

Landform(s): rises on lake plains

Slope gradient: 0 to 2 percent

Parent material: loamy over clayey lacustrine deposits

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw (surface layer): .28

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>
Ap -- 0 to 8 in	silt loam	moderately rapid	1.4 to 1.7 in	7.4 to 8.4
Bk1,Bk2,C1 -- 8 to 35 in	very fine sandy loam	moderately rapid	4.1 to 5.7 in	7.4 to 8.4
2C2 -- 35 to 60 in	silty clay	slow	2.5 to 3.5 in	7.4 to 7.8

344--Quam silt loam

Quam

Extent: 85 percent of the unit

Landform(s): depressions on lake plains, depressions on moraines

Slope gradient: 0 to 1 percent

Parent material: local alluvium over loamy glacial till

Restrictive feature(s):

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw (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 capacity</i>	<i>pH</i>
Ap -- 0 to 14 in	silt loam	moderate	3.1 to 3.4 in	6.6 to 7.8
A1,A2 -- 14 to 37 in	silty clay loam	moderately slow	3.7 to 5.0 in	6.6 to 7.8
Cg1,Cg2 -- 37 to 60 in	silty clay loam	moderately slow	3.2 to 4.3 in	7.4 to 8.4

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371--Clontarf sandy loam

Clontarf

Extent: 85 percent of the unit

Landform(s): flats on lake plains, flats on outwash plains

Slope gradient: 0 to 3 percent

Parent material: loamy mantle over sandy outwash deposits

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: moderately 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 capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	sandy loam	moderately rapid	1.0 to 1.4 in	6.1 to 7.3
A1,A2,Bw -- 8 to 29 in	sandy loam	moderately rapid	2.6 to 4.0 in	6.1 to 7.8
2C1,2C2 -- 29 to 60 in	sand	rapid	1.5 to 2.8 in	6.6 to 7.8

418--Lamoure silty clay loam

Lamoure, occasionally flooded

Extent: 85 percent of the unit

Landform(s): flats on flood plains

Slope gradient: 0 to 2 percent

Parent material: silty alluvial deposits

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: C

Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A1,A2 -- 0 to 24 in	silty clay loam	moderate	4.6 to 5.3 in	7.4 to 8.4
Cg1,Cg2,Ab -- 24 to 55 in	silty clay loam	moderate	5.3 to 6.2 in	7.4 to 8.4
C'g -- 55 to 60 in	silty clay loam	moderate	0.8 to 0.9 in	7.4 to 8.4

434--Perella silty clay loam

Map Unit Description (MN)

Traverse 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]

434--Perella silty clay loam

Perella

<i>Extent:</i> 85 percent of the unit	<i>Soil loss tolerance (T factor):</i> 5
<i>Landform(s):</i> depressions on lake plains, swales on lake plains	<i>Wind erodibility group (WEG):</i> 7
<i>Slope gradient:</i> 0 to 1 percent	<i>Wind erodibility index (WEI):</i> 38
<i>Parent material:</i> silty glaciolacustrine deposits	<i>Kw (surface layer):</i> .28
<i>Restrictive feature(s):</i>	<i>Land capability class, nonirrigated:</i> 2w
<i>Flooding:</i> none	<i>Hydric soil:</i> yes
<i>Ponding:</i> frequent	<i>Hydrologic group:</i> B/D
<i>Drainage class:</i> poorly drained	<i>Potential frost action:</i> high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 18 in	silty clay loam	moderate	3.3 to 4.2 in	6.6 to 7.8
Bg1,Bg2,Cg1 -- 18 to 41 in	silty clay loam	moderate	3.4 to 5.0 in	6.6 to 7.8
2Cg2 -- 41 to 60 in	clay loam	moderate	3.0 to 4.2 in	7.4 to 8.4

437E--Buse clay loam, 18 to 35 percent slopes

Buse

<i>Extent:</i> 85 percent of the unit	<i>Soil loss tolerance (T factor):</i> 5
<i>Landform(s):</i> hillslopes on moraines	<i>Wind erodibility group (WEG):</i> 4L
<i>Slope gradient:</i> 18 to 35 percent	<i>Wind erodibility index (WEI):</i> 86
<i>Parent material:</i> loamy glacial till	<i>Kw (surface layer):</i> .28
<i>Restrictive feature(s):</i>	<i>Land capability class, nonirrigated:</i> 7e
<i>Flooding:</i> none	<i>Hydric soil:</i> no
<i>Ponding:</i> none	<i>Hydrologic group:</i> B
<i>Drainage class:</i> well drained	<i>Potential frost action:</i> moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ak -- 0 to 3 in	clay loam	moderately slow	0.5 to 0.7 in	6.6 to 8.4
Bk,C -- 3 to 60 in	clay loam	moderately slow	7.9 to 10.8 in	7.4 to 8.4

450--Rauville silt loam

Map Unit Description (MN)

Traverse 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]

450--Rauville silt loam

Rauville, frequently flooded

Extent: 85 percent of the unit

Landform(s): swales on flood plains

Slope gradient: 0 to 1 percent

Parent material: silty alluvium

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): 86

Kw (surface layer): .28

Land capability class, nonirrigated: 8w

Hydric soil: yes

Hydrologic group: D

Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1,A2,A3 -- 0 to 33 in	silt loam	moderate	6.3 to 7.3 in	7.4 to 8.4
Cg1,Cg2,Cg3 - 33 to 60 in	silty clay loam	moderate	4.6 to 5.4 in	7.4 to 8.4

494B--Darnen loam, 1 to 6 percent slopes

Darnen

Extent: 85 percent of the unit

Landform(s): hillslopes on moraines

Slope gradient: 1 to 6 percent

Parent material: local alluvium over glacial till

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 capacity</i>	<i>pH</i>
Ap,A -- 0 to 24 in	loam	moderate	4.3 to 4.8 in	6.6 to 7.8
Bw,Bk -- 24 to 37 in	loam	moderate	1.9 to 2.5 in	6.1 to 7.8
C -- 37 to 60 in	loam	moderate	3.2 to 4.3 in	7.4 to 8.4

582--Roliss clay loam

Map Unit Description (MN)

Traverse 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]

582--Roliss clay loam

Roliss

Extent: 85 percent of the unit

Landform(s): drainageways on lake plains, flats on lake plains

Slope gradient: 0 to 1 percent

Parent material: loamy glacial till

Restrictive feature(s):

Flooding: rare

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 capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	clay loam	moderately slow	1.8 to 2.2 in	6.6 to 8.4
Bg -- 10 to 17 in	clay loam	moderate	1.1 to 1.3 in	7.4 to 8.4
Bkg -- 17 to 22 in	clay loam	moderate	0.8 to 1.0 in	7.4 to 8.4
Cg1,Cg2 -- 22 to 60 in	clay loam	moderate	5.7 to 7.2 in	7.4 to 8.4

642--Clearwater silty clay loam

Clearwater

Extent: 85 percent of the unit

Landform(s): drainageways on lake plains, flats on lake plains

Slope gradient: 0 to 2 percent

Parent material: clayey glacial till or lacustrine deposits

Restrictive feature(s):

Flooding: rare

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): .28

Land capability class, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: D

Potential 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	silty clay loam	moderately slow	1.2 to 1.6 in	6.6 to 7.8
Bg1,Bg2,Bg3 -- 7 to 50 in	silty clay	slow	6.4 to 7.7 in	7.4 to 8.4
Cg -- 50 to 60 in	silty clay loam	slow	1.5 to 1.8 in	7.4 to 8.4

Map Unit Description (MN)

Traverse 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]

646B--Peever clay, 2 to 6 percent slopes

Peever

Extent: 85 percent of the unit

Landform(s): hillslopes on moraines

Slope gradient: 2 to 6 percent

Parent material: clayey glacial till

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): .28

Land capability class, nonirrigated: 2e

Hydric soil: no

Hydrologic group: C

Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	clay	moderately slow	1.9 to 2.2 in	6.1 to 7.3
Bt1,Bt2 -- 10 to 23 in	clay	moderately slow	1.4 to 2.5 in	6.6 to 7.8
Bk -- 23 to 36 in	clay	moderately slow	1.0 to 2.2 in	7.4 to 8.4
C -- 36 to 60 in	clay	moderately slow	1.9 to 4.1 in	7.4 to 8.4

698--Doran clay loam

Doran

Extent: 85 percent of the unit

Landform(s): flats on lake plains, rises on lake plains

Slope gradient: 0 to 3 percent

Parent material: water-worked glacial till or lacustrine sediments over over glacial till

Restrictive feature(s):

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 (surface layer): .24

Land capability class, nonirrigated: 1

Hydric soil: no

Hydrologic group: C

Potential 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 10 in	clay loam	moderately slow	1.8 to 2.3 in	6.6 to 7.3
Bt -- 10 to 16 in	clay	moderately slow	0.9 to 1.2 in	6.6 to 7.8
Bk,C1,C2 -- 16 to 60 in	clay loam	slow	6.1 to 7.0 in	7.4 to 8.4

Map Unit Description (MN)

Traverse 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]

698--Doran clay loam

814--Hamerly-Lindaas clay loams

Hamerly

Extent: 55 percent of the unit

Landform(s): flats on till-floored lake plains, rises on till-floored lake plains

Slope gradient: 0 to 2 percent

Parent material: loamy glacial till

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat 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: 2s

Hydric soil: no

Hydrologic group: C

Potential 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	clay loam	moderate	1.5 to 2.0 in	6.6 to 8.4
Bk -- 9 to 32 in	clay loam	moderate	3.4 to 4.3 in	7.4 to 8.4
C -- 32 to 60 in	clay loam	moderately slow	3.9 to 5.3 in	7.4 to 8.4

Lindaas

Extent: 30 percent of the unit

Landform(s): depressions on lake plains, drainageways on lake plains

Slope gradient: 0 to 1 percent

Parent material: silty and clayey lacustrine sediments

Restrictive feature(s):

Flooding: rare

Ponding: occasional

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: C/D

Potential 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	clay loam	moderately rapid	1.9 to 2.1 in	6.6 to 7.3
Btg -- 11 to 32 in	clay	slow	2.9 to 3.5 in	6.6 to 7.8
Bkg,Cg -- 32 to 60 in	silty clay loam	moderate	4.2 to 6.1 in	7.4 to 8.4

Map Unit Description (MN)

Traverse 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]

816--Fargo clay, saline

Fargo, saline

Extent: 85 percent of the unit

Landform(s): drainageways on lake plains, flats on lake plains

Slope gradient: 0 to 1 percent

Parent material: clayey lacustrine deposits

Restrictive feature(s):

Flooding: rare

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): .28

Land capability class, nonirrigated: 3s

Hydric soil: yes

Hydrologic group: D

Potential 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 10 in	clay	slow	1.5 to 1.8 in	6.6 to 7.8
BA,Bg -- 10 to 15 in	clay	slow	0.7 to 0.9 in	6.6 to 8.4
Cg -- 15 to 60 in	clay	slow	6.3 to 7.6 in	7.9 to 8.4

821--Doran-Lindaas silty clay loams

Doran

Extent: 50 percent of the unit

Landform(s): flats on lake plains, rises on lake plains

Slope gradient: 0 to 2 percent

Parent material: water-worked glacial till or lacustrine sediments over over glacial till

Restrictive feature(s):

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 (surface layer): .24

Land capability class, nonirrigated: 1

Hydric soil: no

Hydrologic group: C

Potential 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 10 in	silty clay loam	moderately slow	1.8 to 2.3 in	6.6 to 7.3
Bt -- 10 to 16 in	clay	moderately slow	0.9 to 1.2 in	6.6 to 7.8
Bk,C -- 16 to 60 in	clay loam	slow	6.1 to 7.0 in	7.4 to 8.4

Map Unit Description (MN)

Traverse County, Minnesota

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821--Doran-Lindaas silty clay loams

Lindaas

Extent: 35 percent of the unit

Landform(s): depressions on lake plains, drainageways on lake plains

Slope gradient: 0 to 1 percent

Parent material: silty and clayey lacustrine sediments

Restrictive feature(s):

Flooding: rare

Ponding: occasional

Drainage class: 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: 2w

Hydric soil: yes

Hydrologic group: C/D

Potential 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 10 in	silty clay loam	moderately rapid	1.8 to 2.3 in	6.6 to 7.3
Btg -- 10 to 26 in	clay	slow	2.3 to 2.7 in	6.6 to 7.8
Bkg,Cg -- 26 to 60 in	clay loam	moderate	5.1 to 7.4 in	7.4 to 8.4

822B--Peever-Buse complex, 2 to 6 percent slopes

Peever

Extent: 55 percent of the unit

Landform(s): hillslopes on moraines

Slope gradient: 2 to 6 percent

Parent material: clayey glacial till

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): .28

Land capability class, nonirrigated: 2e

Hydric soil: no

Hydrologic group: C

Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	clay	moderately slow	1.9 to 2.2 in	6.1 to 7.3
Bt1,Bt2 -- 10 to 23 in	clay	moderately slow	1.4 to 2.5 in	6.6 to 7.8
Bk,C -- 23 to 60 in	clay	moderately slow	3.0 to 6.3 in	7.4 to 8.4

Map Unit Description (MN)

Traverse 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]

822B--Peever-Buse complex, 2 to 6 percent slopes

Buse

Extent: 30 percent of the unit

Landform(s): hillslopes on moraines

Slope gradient: 3 to 6 percent

Parent material: loamy glacial till

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 capacity</i>	<i>pH</i>
Apk -- 0 to 7 in	clay loam	moderately slow	1.2 to 1.6 in	6.6 to 8.4
Bk,C -- 7 to 60 in	clay loam	moderately slow	7.4 to 10.0 in	7.4 to 8.4

900--Hamerly-Aazdahl-Lindaas complex

Hamerly

Extent: 40 percent of the unit

Landform(s): flats on till-floored lake plains, rises on till-floored lake plains

Slope gradient: 0 to 3 percent

Parent material: loamy glacial till

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat 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: 2s

Hydric soil: no

Hydrologic group: C

Potential 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	clay loam	moderate	1.9 to 2.4 in	6.6 to 8.4
Bk -- 11 to 27 in	clay loam	moderate	2.4 to 3.0 in	7.4 to 8.4
C -- 27 to 60 in	clay loam	moderately slow	4.6 to 6.3 in	7.4 to 8.4

Map Unit Description (MN)

Traverse 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]

900--Hamerly-Aazdahl-Lindaas complex

Aazdahl

<i>Extent:</i> 30 percent of the unit	<i>Soil loss tolerance (T factor):</i> 5
<i>Landform(s):</i> rises on moraines, rises on till-floored lake plains	<i>Wind erodibility group (WEG):</i> 6
<i>Slope gradient:</i> 0 to 2 percent	<i>Wind erodibility index (WEI):</i> 48
<i>Parent material:</i> loamy glacial till	<i>Kw (surface layer):</i> .24
<i>Restrictive feature(s):</i>	<i>Land capability class, nonirrigated:</i> 1
<i>Flooding:</i> none	<i>Hydric soil:</i> no
<i>Ponding:</i> none	<i>Hydrologic group:</i> B
<i>Drainage class:</i> moderately well drained	<i>Potential frost action:</i> 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	clay loam	moderate	2.5 to 2.8 in	6.6 to 7.3
Bw -- 15 to 20 in	clay loam	moderately slow	0.9 to 1.0 in	6.6 to 7.8
Bk,C -- 20 to 60 in	clay loam	moderately slow	5.6 to 6.8 in	7.4 to 8.4

Lindaas

<i>Extent:</i> 20 percent of the unit	<i>Soil loss tolerance (T factor):</i> 5
<i>Landform(s):</i> depressions on lake plains, drainageways on lake plains	<i>Wind erodibility group (WEG):</i> 7
<i>Slope gradient:</i> 0 to 1 percent	<i>Wind erodibility index (WEI):</i> 38
<i>Parent material:</i> silty and clayey lacustrine sediments	<i>Kw (surface layer):</i> .28
<i>Restrictive feature(s):</i>	<i>Land capability class, nonirrigated:</i> 2w
<i>Flooding:</i> rare	<i>Hydric soil:</i> yes
<i>Ponding:</i> occasional	<i>Hydrologic group:</i> C/D
<i>Drainage class:</i> poorly drained	<i>Potential frost action:</i> high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,Btg1 -- 0 to 19 in	silty clay loam	moderately rapid	3.4 to 4.3 in	6.6 to 7.3
Btg2,Bk -- 19 to 28 in	silty clay	slow	1.3 to 1.5 in	6.6 to 7.8
Cg -- 28 to 60 in	silty clay loam	moderate	4.8 to 7.0 in	7.4 to 8.4

915B--Formdale-Buse clay loams, 2 to 6 percent slopes

Map Unit Description (MN)

Traverse 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]

915B--Formdale-Buse clay loams, 2 to 6 percent slopes

Formdale

Extent: 60 percent of the unit

Landform(s): hillslopes on moraines

Slope gradient: 2 to 6 percent

Parent material: loamy glacial till

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 capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	clay loam	moderate	1.7 to 1.9 in	6.1 to 7.3
Bw -- 10 to 17 in	clay loam	moderately slow	1.2 to 1.3 in	6.6 to 7.8
Bk,C -- 17 to 60 in	clay loam	moderately slow	6.0 to 8.2 in	7.4 to 8.4

Buse

Extent: 30 percent of the unit

Landform(s): hillslopes on moraines

Slope gradient: 3 to 6 percent

Parent material: loamy glacial till

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 capacity</i>	<i>pH</i>
Apk -- 0 to 10 in	clay loam	moderately slow	1.7 to 2.2 in	6.6 to 8.4
Bk,C -- 10 to 60 in	clay loam	moderately slow	7.0 to 9.5 in	7.4 to 8.4

915C2--Buse-Formdale clay loams, 6 to 14 percent slopes, eroded

Map Unit Description (MN)

Traverse 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]

915C2--Buse-Formdale clay loams, 6 to 14 percent slopes, eroded

Buse, eroded

Extent: 60 percent of the unit

Landform(s): hillslopes on moraines

Slope gradient: 6 to 14 percent

Parent material: loamy glacial till

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 capacity</i>	<i>pH</i>
Apk -- 0 to 9 in	clay loam	moderately slow	1.5 to 2.0 in	6.6 to 8.4
Bk,C -- 9 to 60 in	clay loam	moderately slow	7.1 to 9.6 in	7.4 to 8.4

Formdale, eroded

Extent: 30 percent of the unit

Landform(s): hillslopes on moraines

Slope gradient: 6 to 14 percent

Parent material: loamy glacial till

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 capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	clay loam	moderate	1.3 to 1.5 in	6.1 to 7.3
Bw -- 8 to 25 in	clay loam	moderately slow	2.9 to 3.3 in	6.6 to 7.8
Bk,C -- 25 to 60 in	clay loam	moderately slow	4.9 to 6.6 in	7.4 to 8.4

922--Hamerly-Parnell complex

Map Unit Description (MN)

Traverse 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]

922--Hamerly-Parnell complex

Hamerly

Extent: 60 percent of the unit

Landform(s): hillslopes on moraines

Slope gradient: 0 to 3 percent

Parent material: loamy glacial till

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat 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: 2s

Hydric soil: no

Hydrologic group: C

Potential 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	clay loam	moderate	1.3 to 1.7 in	6.6 to 8.4
Bk -- 8 to 28 in	clay loam	moderate	3.0 to 3.8 in	7.4 to 8.4
C -- 28 to 60 in	clay loam	moderately slow	4.5 to 6.1 in	7.4 to 8.4

Parnell

Extent: 30 percent of the unit

Landform(s): depressions on moraines

Slope gradient: 0 to 1 percent

Parent material: local alluvium over loamy glacial till

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: C/D

Potential 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 18 in	silty clay loam	moderately slow	3.3 to 4.0 in	6.1 to 7.8
Btg -- 18 to 39 in	silty clay loam	slow	2.7 to 4.0 in	6.1 to 7.8
Bkg,Cg -- 39 to 60 in	clay loam	slow	2.3 to 4.0 in	6.6 to 8.4

948--McIntosh-Lindaas complex

Map Unit Description (MN)

Traverse 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]

948--McIntosh-Lindaas complex

McIntosh

Extent: 60 percent of the unit
Landform(s): rises on till-floored lake plains, flats on till-floored lake plains
Slope gradient: 0 to 2 percent
Parent material: silty glaciolacustrine deposits over loamy glacial till
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): .28
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>
Ap,Ak -- 0 to 14 in	silt loam	moderate	2.8 to 3.4 in	7.4 to 8.4
Bk -- 14 to 27 in	silt loam	moderate	2.0 to 2.8 in	7.4 to 8.4
2C -- 27 to 60 in	loam	moderate	4.6 to 6.3 in	7.4 to 8.4

Lindaas

Extent: 25 percent of the unit
Landform(s): depressions on lake plains, drainageways on lake plains
Slope gradient: 0 to 1 percent
Parent material: silty and clayey lacustrine sediments
Restrictive feature(s):
Flooding: rare
Ponding: occasional
Drainage class: 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: 2w
Hydric soil: yes
Hydrologic group: C/D
Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,Btg1 -- 0 to 16 in	silty clay loam	moderately rapid	2.9 to 3.7 in	6.6 to 7.3
Btg2,Bk -- 16 to 33 in	silty clay	slow	2.4 to 2.9 in	6.6 to 7.8
Cg -- 33 to 60 in	silt loam	moderate	4.0 to 5.9 in	7.4 to 8.4

1020--Udorthents, sloping

Map Unit Description (MN)

Traverse 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]

1020--Udorthents, sloping

Udorthents, sloping

Extent: 100 percent of the unit

Landform(s): hillslopes on lake plains

Slope gradient: 0 to 25 percent

Parent material: loamy glacial till and clayey alluvium

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG):

Wind erodibility index (WEI): 86

Kw (surface layer):

Land capability class, nonirrigated:

Hydric soil: no

Hydrologic group: B

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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1030--Udorthents-Pits, complex

Udorthents

Extent: 50 percent of the unit

Landform(s): beach ridges on lake plains, hillslopes on moraines

Slope gradient: 0 to 5 percent

Parent material: sandy and gravelly outwash deposits

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw (surface layer):

Land capability class, nonirrigated: 6s

Hydric soil: no

Hydrologic group:

Potential frost action: moderate

<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)

Traverse 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]

1030--Udorthents-Pits, complex

Pits

Extent: 50 percent of the unit

Landform(s): beach ridges on lake plains, hillslopes on moraines

Slope gradient:

Parent material: sandy and gravelly outwash

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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1356--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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1916--Lindaas clay loam

Map Unit Description (MN)

Traverse 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]

1916--Lindaas clay loam

Lindaas

Extent: 85 percent of the unit

Landform(s): depressions on lake plains, drainageways on lake plains

Slope gradient: 0 to 1 percent

Parent material: silty and clayey lacustrine sediments

Restrictive feature(s):

Flooding: rare

Ponding: occasional

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: C/D

Potential 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	clay loam	moderately rapid	1.5 to 1.7 in	6.6 to 7.3
Btg -- 9 to 25 in	clay	slow	2.3 to 2.7 in	6.6 to 7.8
Bkg,C -- 25 to 60 in	clay loam	moderate	5.2 to 7.6 in	7.4 to 8.4

1918--Croke loam

Croke

Extent: 85 percent of the unit

Landform(s): rises on lake plains, flats on lake plains

Slope gradient: 0 to 2 percent

Parent material: loamy over clayey glaciolacustrine deposits

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: moderately well 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: 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 capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderately rapid	1.8 to 2.2 in	6.6 to 7.8
Bw,C1 -- 9 to 25 in	very fine sandy loam	moderately rapid	2.7 to 3.6 in	6.6 to 8.4
2Cg1,2Cg2 -- 25 to 60 in	silty clay	slow	3.5 to 5.2 in	7.9 to 8.4

Map Unit Description (MN)

Traverse 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]

1933--Bearden-Lindaas complex

Bearden

Extent: 55 percent of the unit

Landform(s): rises on lake plains, flats on lake plains

Slope gradient: 0 to 2 percent

Parent material: silty lacustrine deposits

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat 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: 2s

Hydric soil: no

Hydrologic group: C

Potential 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 10 in	silt loam	moderate	2.0 to 2.4 in	7.4 to 8.4
Bk1,Bk2 -- 10 to 18 in	silt loam	moderately slow	1.3 to 1.8 in	7.4 to 8.4
C1,C2 -- 18 to 60 in	silt loam	moderately slow	6.7 to 9.2 in	7.4 to 8.4

Lindaas

Extent: 30 percent of the unit

Landform(s): depressions on lake plains, drainageways on lake plains

Slope gradient: 0 to 1 percent

Parent material: silty and clayey lacustrine sediments

Restrictive feature(s):

Flooding: rare

Ponding: occasional

Drainage class: 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: 2w

Hydric soil: yes

Hydrologic group: C/D

Potential 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 10 in	silty clay loam	moderately rapid	1.8 to 2.3 in	6.6 to 7.3
Btg -- 10 to 26 in	silty clay	slow	2.3 to 2.7 in	6.6 to 7.8
Bkg,Cg -- 26 to 60 in	clay loam	moderate	5.1 to 7.4 in	7.4 to 8.4

1940--Quam silty clay loam, ponded

Map Unit Description (MN)

Traverse 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]

1940--Quam silty clay loam, ponded

Quam, ponded

Extent: 85 percent of the unit

Landform(s): depressions on lake plains, depressions on moraines

Slope gradient: 0 to 1 percent

Parent material: silty local alluvium over loamy glacial till

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: 8w

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>
A -- 0 to 30 in	silty clay loam	moderately slow	5.4 to 6.6 in	6.6 to 7.8
Cg1 -- 30 to 40 in	silty clay loam	moderately slow	1.6 to 2.3 in	6.6 to 7.8
2Cg2 -- 40 to 60 in	clay loam	moderately slow	2.8 to 3.7 in	7.4 to 8.4

1947--Doran silty clay loam, loamy substratum

Map Unit Description (MN)

Traverse 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]

1947--Doran silty clay loam, loamy substratum

Doran, loamy substratum

Extent: 85 percent of the unit

Landform(s): flats on moraines, flats on till-floored lake plains, rises on till-floored lake plains

Slope gradient: 0 to 2 percent

Parent material: silty, loamy and clayey glaciolacustrine deposits

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat 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: 2w

Hydric soil: no

Hydrologic group: C

Potential 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 10 in	silty clay loam	moderately slow	1.8 to 2.3 in	6.6 to 7.3
Bt -- 10 to 16 in	silty clay	moderately slow	0.9 to 1.2 in	6.6 to 7.8
Bk -- 16 to 40 in	silty clay loam	slow	3.8 to 5.3 in	7.4 to 8.4
2C -- 40 to 60 in	very fine sandy loam	moderately rapid	3.5 to 3.9 in	7.4 to 8.4

1948--Fargo-Lindaas silty clay loams

Fargo

Extent: 50 percent of the unit

Landform(s): flats on lake plains

Slope gradient: 0 to 2 percent

Parent material: silty and clayey glaciolacustrine deposits

Restrictive feature(s):

Flooding: rare

Ponding: none

Drainage class: 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: 2w

Hydric soil: yes

Hydrologic group: D

Potential 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	silty clay loam	slow	2.0 to 2.5 in	6.6 to 7.8
BA,Bg -- 11 to 16 in	silty clay	slow	0.7 to 0.9 in	6.6 to 8.4
Cg -- 16 to 60 in	silty clay	slow	6.1 to 7.4 in	7.9 to 8.4

Map Unit Description (MN)

Traverse 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]

1948--Fargo-Lindaas silty clay loams

Lindaas

Extent: 35 percent of the unit

Landform(s): depressions, drainageways

Slope gradient: 0 to 1 percent

Parent material: silty and clayey lacustrine sediments

Restrictive feature(s):

Flooding: rare

Ponding: occasional

Drainage class: 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: 2w

Hydric soil: yes

Hydrologic group: C/D

Potential 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	silty clay loam	moderately rapid	1.4 to 1.8 in	6.6 to 7.3
Btg -- 8 to 31 in	clay	slow	3.3 to 3.9 in	6.6 to 7.8
Bkg,Cg -- 31 to 60 in	silty clay	moderate	4.3 to 6.3 in	7.4 to 8.4

1949--Gardena loam

Gardena

Extent: 85 percent of the unit

Landform(s): flats on lake plains, rises on lake plains

Slope gradient: 0 to 2 percent

Parent material: loamy glaciolacustrine deposits

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): 56

Kw (surface layer): .24

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 capacity</i>	<i>pH</i>
Ap,AB -- 0 to 17 in	loam	moderate	3.0 to 3.4 in	6.6 to 7.8
Bw,C -- 17 to 60 in	very fine sandy loam	moderately rapid	7.3 to 9.4 in	7.4 to 8.4

1950--Ludden silty clay loam

Map Unit Description (MN)

Traverse 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]

1950--Ludden silty clay loam

Ludden

Extent: 85 percent of the unit

Landform(s): swales on flood plains

Slope gradient: 0 to 1 percent

Parent material: alluvium

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: 2w

Hydric soil: yes

Hydrologic group: D

Potential 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 10 in	silty clay loam	slow	1.8 to 2.3 in	6.1 to 8.4
A1,A2 -- 10 to 33 in	silty clay	slow	3.0 to 3.7 in	7.9 to 8.4
Cg1,Cg2 -- 33 to 60 in	silty clay loam	slow	3.5 to 4.3 in	7.9 to 8.4

W--Water

Water

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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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.