

Map Unit Description (MN)

Wilkin 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

<i>Extent:</i> 85 percent of the unit	<i>Soil loss tolerance (T factor):</i> 5
<i>Landform(s):</i> hillslopes on moraines, rises on lake plains	<i>Wind erodibility group (WEG):</i> 6
<i>Slope gradient:</i> 0 to 3 percent	<i>Wind erodibility index (WEI):</i> 48
<i>Parent material:</i> loamy glacial till	<i>Kw factor (surface layer)</i> .17
<i>Restrictive feature(s):</i> greater than 60 inches	<i>Land capability, nonirrigated</i> 1
<i>Flooding:</i> none	<i>Hydric soil:</i> no
<i>Ponding:</i> none	<i>Hydrologic group:</i> C
<i>Drainage class:</i> moderately well drained	<i>Potential for frost action:</i> high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 12 in	clay loam	moderate	2.01 to 2.24 in	6.6 to 7.3
Bw -- 12 to 18 in	clay loam	moderately slow	1.07 to 1.20 in	6.6 to 7.8
Bk,Cg -- 18 to 60 in	silty clay loam	moderately slow	5.84 to 7.09 in	7.4 to 8.4

33B--Barnes loam, 1 to 6 percent slopes

Barnes

<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> 6
<i>Slope gradient:</i> 1 to 6 percent	<i>Wind erodibility index (WEI):</i> 48
<i>Parent material:</i> loamy glacial till	<i>Kw factor (surface layer)</i> .20
<i>Restrictive feature(s):</i> greater than 60 inches	<i>Land capability, nonirrigated</i> 2e
<i>Flooding:</i> none	<i>Hydric soil:</i> no
<i>Ponding:</i> none	<i>Hydrologic group:</i> B
<i>Drainage class:</i> well drained	<i>Potential for frost action:</i> moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	loam	moderate	1.77 to 2.36 in	6.1 to 7.8
Bw1,Bw2 -- 10 to 20 in	loam	moderate	1.54 to 1.94 in	6.1 to 7.8
Bk,C -- 20 to 60 in	loam	moderate	5.57 to 7.56 in	7.4 to 8.4

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33B2--Barnes loam, 2 to 6 percent slopes, eroded

Barnes, eroded

Extent: 85 percent of the unit

Landform(s): hillslopes on moraines

Slope gradient: 2 to 6 percent

Parent material: loamy glacial till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .20

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	loam	moderate	1.77 to 2.36 in	6.1 to 7.8
Bw -- 10 to 16 in	loam	moderate	0.94 to 1.20 in	6.1 to 7.8
Bk,C -- 16 to 60 in	loam	moderate	6.12 to 8.30 in	7.4 to 8.4

34--Parnell silt loam

Parnell

Extent: 85 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): greater than 60 inches

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 factor (surface layer) .32

Land capability, nonirrigated 3w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A,E -- 0 to 24 in	silt loam	moderate	5.28 to 5.76 in	6.1 to 7.8
Btg -- 24 to 55 in	silty clay	slow	4.04 to 5.91 in	6.1 to 7.8
BCg,Cg -- 55 to 60 in	silty clay	slow	0.52 to 0.90 in	6.6 to 8.4

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46--Borup loam

Borup

Extent: 85 percent of the unit
Landform(s): swales on lake plains
Slope gradient: 0 to 1 percent
Parent material: loamy over sandy lacustrine deposits
Restrictive feature(s): greater than 60 inches
Flooding: none
Ponding: none
Drainage class: poorly drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4L
Wind erodibility index (WEI): 86
Kw factor (surface layer) .32
Land capability, nonirrigated 2w
Hydric soil: yes
Hydrologic group: A/D
Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	loam	moderately rapid	1.97 to 2.26 in	7.4 to 8.4
Bkg1,Bkg2 -- 10 to 25 in	very fine sandy loam	moderately rapid	2.61 to 3.07 in	7.4 to 8.4
Cg -- 25 to 60 in	loamy very fine sand	rapid	5.20 to 6.58 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): greater than 60 inches
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 factor (surface layer) .32
Land capability, nonirrigated 2w
Hydric soil: yes
Hydrologic group: C/D
Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	silty clay loam	moderately slow	1.81 to 1.99 in	6.6 to 8.4
Bkg1,Bkg2 -- 9 to 24 in	silt loam	moderately slow	2.39 to 2.99 in	7.4 to 9.0
Cg1,Cg2 -- 24 to 60 in	silt loam	moderate	5.37 to 7.17 in	7.4 to 8.4

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50--Cashel silty clay

Cashel, occasionally flooded

Extent: 95 percent of the unit

Landform(s): flats on flood plains

Slope gradient: 1 to 3 percent

Parent material: clayey alluvium

Restrictive feature(s): greater than 60 inches

Flooding: occasional

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: C

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	silty clay	moderately slow	1.36 to 1.63 in	7.4 to 8.4
C,Ab,C' -- 9 to 60 in	silty clay	moderately slow	6.60 to 8.63 in	7.4 to 8.4

52--Augsburg very fine sandy loam

Augsburg

Extent: 85 percent of the unit

Landform(s): swales on lake plains

Slope gradient: 0 to 1 percent

Parent material: loamy deposits over silty and clayey lacustrine sediments

Restrictive feature(s): greater than 60 inches

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 factor (surface layer) .24

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 13 in	very fine sandy loam	moderately rapid	2.60 to 2.99 in	7.4 to 8.4
Bkg -- 13 to 20 in	very fine sandy loam	moderately rapid	1.42 to 1.63 in	7.4 to 8.4
Cg -- 20 to 27 in	loamy very fine sand	moderately rapid	1.14 to 1.47 in	7.4 to 8.4
2Cg -- 27 to 60 in	silty clay	slow	3.31 to 4.63 in	7.4 to 8.4

Map Unit Description (MN)

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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): greater than 60 inches

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 factor (surface layer) .32

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 10 in	silty clay loam	slow	1.77 to 2.26 in	6.6 to 7.8
BA,Bg -- 10 to 28 in	clay	slow	2.54 to 3.08 in	6.6 to 8.4
Bkg,Cg -- 28 to 60 in	clay	slow	4.46 to 5.42 in	7.9 to 8.4

57A--Fargo silty clay, 0 to 2 percent slopes

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): greater than 60 inches

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 factor (surface layer) .24

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 11 in	silty clay	slow	1.65 to 1.98 in	6.6 to 7.8
BA,Bg -- 11 to 20 in	clay	slow	1.27 to 1.54 in	6.6 to 8.4
Bkg,Cg -- 20 to 60 in	silty clay	slow	5.57 to 6.76 in	7.9 to 8.4

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57B--Fargo silty clay, 2 to 6 percent slopes

Fargo

Extent: 85 percent of the unit

Landform(s): swales on lake plains

Slope gradient: 2 to 6 percent

Parent material: clayey lacustrine deposits

Restrictive feature(s): greater than 60 inches

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 factor (surface layer) .24

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	silty clay	slow	1.36 to 1.63 in	6.6 to 7.8
BA,Bg -- 9 to 26 in	clay	slow	2.37 to 2.88 in	6.6 to 8.4
Bkg,Cg -- 26 to 60 in	silty clay	slow	4.74 to 5.76 in	7.9 to 8.4

58--Kittson loam

Kittson

Extent: 85 percent of the unit

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

Slope gradient: 0 to 3 percent

Parent material: glaciolacustrine deposits over loamy glacial till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .24

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: C

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 14 in	loam	moderate	2.83 to 3.12 in	6.6 to 7.8
Bw -- 14 to 18 in	loam	moderate	0.67 to 0.75 in	6.6 to 7.8
2C -- 18 to 60 in	clay loam	moderate	6.26 to 7.51 in	7.4 to 8.4

Map Unit Description (MN)

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59--Grimstad sandy loam

Grimstad

Extent: 85 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: sandy lacustrine deposits over loamy glacial till
Restrictive feature(s): greater than 60 inches
Flooding: none
Ponding: none
Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw factor (surface layer) .20
Land capability, nonirrigated 2s
Hydric soil: no
Hydrologic group: B
Potential for frost action: moderate

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,Bk1 --	0 to 18 in	sandy loam	moderately rapid	2.35 to 3.26 in	7.4 to 8.4
Bk2,C --	18 to 32 in	fine sand	rapid	1.10 to 1.93 in	7.4 to 9.0
2C --	32 to 60 in	silty clay loam	moderate	3.07 to 5.31 in	7.4 to 9.0

60--Glyndon very fine sandy 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): greater than 60 inches
Flooding: none
Ponding: none
Drainage class: moderately well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw factor (surface layer) .32
Land capability, nonirrigated 2s
Hydric soil: no
Hydrologic group: C
Potential for frost action: high

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	very fine sandy loam	moderate	1.81 to 2.08 in	7.4 to 9.0
Ak,Bk --	9 to 23 in	very fine sandy loam	moderately rapid	2.34 to 2.76 in	7.4 to 9.0
C --	23 to 60 in	very fine sandy loam	moderately rapid	5.55 to 7.03 in	7.4 to 9.0

Map Unit Description (MN)

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61--Arveson loam

Arveson

Extent: 85 percent of the unit

Landform(s): swales on lake plains

Slope gradient: 0 to 1 percent

Parent material: loamy mantle over sandy glaciolacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .17

Land capability, nonirrigated 3w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A --	0 to 11 in	loam	moderate	1.76 to 1.98 in	7.4 to 8.4
Bkg1,Bkg2 --	11 to 35 in	sandy loam	moderately rapid	3.60 to 4.08 in	7.4 to 8.4
Cg --	35 to 60 in	fine sand	rapid	1.24 to 3.72 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

63--Rockwell loam

Rockwell

Extent: 85 percent of the unit

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

Slope gradient: 0 to 1 percent

Parent material: glaciolacustrine deposits over loamy glacial till

Restrictive feature(s): greater than 60 inches

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 factor (surface layer) .24

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A --	0 to 10 in	loam	moderate	1.77 to 2.17 in	7.4 to 8.4
Bk,C1 --	10 to 19 in	loam	moderately rapid	1.36 to 1.54 in	7.9 to 8.4
C2g --	19 to 24 in	fine sand	rapid	0.26 to 0.36 in	7.4 to 7.8
2C3g --	24 to 60 in	silty clay loam	moderate	6.45 to 7.88 in	7.4 to 7.8

Map Unit Description (MN)

Wilkin County, Minnesota

64--Ulen fine sandy loam

Ulen

Extent: 85 percent of the unit

Landform(s): rises on lake plains

Slope gradient: 0 to 2 percent

Parent material: sandy lacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated 3s

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 11 in	fine sandy loam	moderately rapid	1.43 to 1.98 in	7.4 to 8.4
Ak,Bk -- 11 to 23 in	loamy fine sand	rapid	0.71 to 1.18 in	7.9 to 8.4
C,Cg1,Cg2 -- 23 to 60 in	fine sand	rapid	2.22 to 2.96 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

65--Foxhome sandy loam

Foxhome

Extent: 85 percent of the unit

Landform(s): ridges on lake plains

Slope gradient: 0 to 3 percent

Parent material: stratified outwash deposits over loamy glacial till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .10

Land capability, nonirrigated 3s

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 14 in	sandy loam	moderately rapid	1.84 to 2.55 in	6.6 to 7.8
Bw -- 14 to 18 in	sandy loam	rapid	0.35 to 0.75 in	6.6 to 7.8
2BC,2C -- 18 to 30 in	very gravelly coarse sand	rapid	0.24 to 0.83 in	7.4 to 8.4
3C -- 30 to 60 in	silt loam	moderate	4.49 to 6.58 in	7.4 to 8.4

66--Flaming loamy fine sand

Flaming

Extent: 0 to percent of the unit

Landform(s): alluvial fans, lake plains, rises

Slope gradient:

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding:

Ponding:

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated

Hydric soil: no

Hydrologic group:

Potential for frost action:

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

Wilkin County, Minnesota

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): greater than 60 inches

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 factor (surface layer) .43

Land capability, nonirrigated 2s

Hydric soil: no

Hydrologic group: C/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	silt loam	moderate	1.97 to 2.36 in	7.4 to 8.4
Ak,Bk -- 10 to 26 in	silt loam	moderately slow	2.58 to 3.55 in	7.4 to 8.4
C,Cg -- 26 to 60 in	silty clay loam	slow	5.42 to 7.45 in	7.4 to 8.4

67B2--Bearden silt loam, 2 to 6 percent slopes, eroded

Bearden, eroded

Extent: 85 percent of the unit

Landform(s): hillslopes on lake plains

Slope gradient: 2 to 6 percent

Parent material: silty lacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .37

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	silt loam	moderate	1.81 to 2.17 in	7.4 to 8.4
Ak,Bk -- 9 to 32 in	silty clay loam	moderate	3.65 to 5.02 in	7.4 to 8.4
C,Cg -- 32 to 60 in	silty clay loam	moderate	4.47 to 6.15 in	7.4 to 8.4

Map Unit Description (MN)

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68--Arveson loam, depressional

Arveson, depressional

Extent: 85 percent of the unit

Landform(s): depressions on lake plains

Slope gradient: 0 to 1 percent

Parent material: loamy mantle over sandy glaciolacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .17

Land capability, nonirrigated 6w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1,A2 -- 0 to 14 in	loam	moderate	2.27 to 2.55 in	7.4 to 8.4
Bkg -- 14 to 26 in	fine sandy loam	moderately rapid	1.77 to 2.01 in	7.4 to 8.4
Cg -- 26 to 60 in	fine sand	rapid	1.69 to 5.08 in	7.4 to 8.4

71--Fossum loamy fine sand

Fossum

Extent: 85 percent of the unit

Landform(s): swales on lake plains

Slope gradient: 0 to 1 percent

Parent material: sandy glaciolacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: rare

Ponding: occasional

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .05

Land capability, nonirrigated 4w

Hydric soil: yes

Hydrologic group: A/D

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,Ak -- 0 to 12 in	loamy fine sand	rapid	1.18 to 1.42 in	7.4 to 8.4
Bkg -- 12 to 20 in	fine sand	rapid	0.50 to 0.91 in	7.4 to 8.4
Cg -- 20 to 60 in	sand	rapid	1.99 to 3.58 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

93--Bearden silty clay loam

Bearden

Extent: 85 percent of the unit

Landform(s): rises on lake plains

Slope gradient: 0 to 2 percent

Parent material: silty lacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .32

Land capability, nonirrigated 2s

Hydric soil: no

Hydrologic group: C/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,Ak -- 0 to 15 in	silty clay loam	moderately slow	2.54 to 3.44 in	7.4 to 8.4
Bk -- 15 to 33 in	silt loam	moderately slow	2.90 to 3.98 in	7.4 to 8.4
C,Cg -- 33 to 60 in	silt loam	moderately slow	4.28 to 5.89 in	7.4 to 8.4

107--Winger silt loam

Winger

Extent: 85 percent of the unit

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

Slope gradient: 0 to 1 percent

Parent material: silty glaciolacustrine deposits over loamy glacial till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 10 in	silt loam	moderate	2.17 to 2.36 in	7.4 to 8.4
Bkg1,Bkg2 -- 10 to 32 in	silt loam	moderate	4.85 to 5.29 in	7.4 to 8.4
2Cg -- 32 to 60 in	clay loam	moderate	3.91 to 5.31 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

108--McIntosh silt loam

McIntosh

Extent: 85 percent of the unit
Landform(s): rises on till-floored lake plains, flats on till-floored lake plains
Slope gradient: 0 to 3 percent
Parent material: silty glaciolacustrine deposits over loamy glacial till
Restrictive feature(s): greater than 60 inches
Flooding: none
Ponding: none
Drainage class: moderately well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4L
Wind erodibility index (WEI): 86
Kw factor (surface layer) .32
Land capability, nonirrigated 2s
Hydric soil: no
Hydrologic group: C
Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 7 in	silt loam	moderate	1.42 to 1.70 in	7.4 to 8.4
Bk -- 7 to 25 in	silt loam	moderate	2.90 to 3.98 in	7.4 to 8.4
2C1,2C2 -- 25 to 60 in	clay loam	moderate	4.85 to 6.58 in	7.4 to 8.4

157A--Wahpeton clay, 0 to 2 percent slopes

Wahpeton, occasionally flooded

Extent: 85 percent of the unit
Landform(s): hillslopes on lake plains
Slope gradient: 0 to 2 percent
Parent material: clayey alluvial deposits
Restrictive feature(s): greater than 60 inches
Flooding: occasional
Ponding: none
Drainage class: moderately well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4
Wind erodibility index (WEI): 86
Kw factor (surface layer) .15
Land capability, nonirrigated 2w
Hydric soil: no
Hydrologic group: B
Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A,C,Ab -- 0 to 27 in	clay	moderate	3.75 to 4.82 in	6.1 to 7.8
C'1,C'2 -- 27 to 60 in	silty clay	moderate	4.30 to 5.62 in	6.6 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

157B--Wahpeton clay, 2 to 6 percent slopes

Wahpeton, occasionally flooded

<i>Extent:</i> 85 percent of the unit	<i>Soil loss tolerance (T factor):</i> 5
<i>Landform(s):</i> hillslopes on lake plains	<i>Wind erodibility group (WEG):</i> 4
<i>Slope gradient:</i> 2 to 6 percent	<i>Wind erodibility index (WEI):</i> 86
<i>Parent material:</i> clayey alluvial deposits	<i>Kw factor (surface layer)</i> .15
<i>Restrictive feature(s):</i> greater than 60 inches	<i>Land capability, nonirrigated</i> 2e
<i>Flooding:</i> occasional	<i>Hydric soil:</i> no
<i>Ponding:</i> none	<i>Hydrologic group:</i> B
<i>Drainage class:</i> moderately well drained	<i>Potential for frost action:</i> high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A,C,Ab -- 0 to 27 in	clay	moderate	3.75 to 4.82 in	6.1 to 7.8
C'1,C'2 -- 27 to 60 in	silty clay	moderate	4.30 to 5.62 in	6.6 to 8.4

184A--Hamerly clay loam, 0 to 2 percent slopes

Hamerly

<i>Extent:</i> 85 percent of the unit	<i>Soil loss tolerance (T factor):</i> 5
<i>Landform(s):</i> flats on till-floored lake plains, rises on till-floored lake plains	<i>Wind erodibility group (WEG):</i> 4L
<i>Slope gradient:</i> 0 to 2 percent	<i>Wind erodibility index (WEI):</i> 86
<i>Parent material:</i> loamy glacial till	<i>Kw factor (surface layer)</i> .15
<i>Restrictive feature(s):</i> greater than 60 inches	<i>Land capability, nonirrigated</i> 2s
<i>Flooding:</i> none	<i>Hydric soil:</i> no
<i>Ponding:</i> none	<i>Hydrologic group:</i> B/D
<i>Drainage class:</i> somewhat poorly drained	<i>Potential for frost action:</i> 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	1.54 to 1.99 in	6.6 to 8.4
Bk1,Bk2 -- 9 to 25 in	clay loam	moderate	2.42 to 3.07 in	7.4 to 8.4
C1,C2 -- 25 to 60 in	clay loam	moderate	4.85 to 6.58 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

184B--Hamerly loam, 1 to 4 percent slopes

Hamerly

Extent: 85 percent of the unit

Landform(s): hillslopes on moraines

Slope gradient: 1 to 4 percent

Parent material: loamy glacial till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 2.17 in	6.6 to 8.4
Bk1,Bk2 -- 9 to 20 in	loam	moderate	1.65 to 2.09 in	7.4 to 8.4
C1,C2 -- 20 to 60 in	loam	moderate	5.57 to 7.56 in	7.4 to 8.4

187--Haug muck

Haug

Extent: 85 percent of the unit

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

Slope gradient: 0 to 1 percent

Parent material: highly decomposed herbaceous organic material over loamy glacial till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 1

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .02

Land capability, nonirrigated 6w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Oa -- 0 to 14 in	muck	moderately rapid	4.96 to 6.80 in	
A -- 14 to 20 in	loam	moderately rapid	0.71 to 1.42 in	6.6 to 8.4
Cg -- 20 to 60 in	silt loam	moderate	4.37 to 7.56 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

236--Vallers 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 1 percent

Parent material: loamy glacial till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,Ak -- 0 to 15 in	loam	moderate	3.29 to 3.59 in	7.4 to 8.4
Bkg -- 15 to 25 in	clay loam	moderately slow	1.54 to 1.94 in	7.4 to 8.4
Cg -- 25 to 60 in	clay loam	moderately slow	5.89 to 6.58 in	7.4 to 8.4

245B--Lohnes loamy sand, 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): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .02

Land capability, nonirrigated 4s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A,AB -- 0 to 16 in	loamy sand	rapid	1.29 to 1.61 in	6.6 to 7.8
Bw -- 16 to 22 in	loamy sand	rapid	0.18 to 0.41 in	6.6 to 7.8
C1,C2 -- 22 to 60 in	coarse sand	rapid	1.13 to 2.65 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

290B--Rothsay silt loam, 2 to 4 percent slopes

Rothsay

Extent: 85 percent of the unit

Landform(s): hillslopes on moraines

Slope gradient: 2 to 4 percent

Parent material: silty glaciolacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .32

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 11 in	silt loam	moderate	2.43 to 2.65 in	6.6 to 7.3
Bw -- 11 to 16 in	silt loam	moderate	0.87 to 1.13 in	6.6 to 7.8
Bk -- 16 to 21 in	very fine sandy loam	moderately rapid	0.94 to 1.04 in	7.4 to 8.4
C1,C2 -- 21 to 60 in	very fine sandy loam	moderately rapid	7.80 to 8.57 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

290B2--Rothsay silt loam, 2 to 6 percent slopes, eroded

Rothsay, eroded

Extent: 85 percent of the unit

Landform(s): hillslopes on moraines

Slope gradient: 2 to 6 percent

Parent material: silty glaciolacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .32

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 11 in	silt loam	moderate	2.43 to 2.65 in	6.6 to 7.3
Bw -- 11 to 16 in	silt loam	moderate	0.87 to 1.13 in	6.6 to 7.8
Bk -- 16 to 21 in	very fine sandy loam	moderately rapid	0.94 to 1.04 in	7.4 to 8.4
C -- 21 to 60 in	very fine sandy loam	moderately rapid	7.80 to 8.57 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

293B--Swenoda fine sandy loam, 1 to 4 percent slopes

Swenoda

Extent: 85 percent of the unit
Landform(s): hillslopes on till-floored lake plains
Slope gradient: 1 to 4 percent
Parent material: loamy glaciolacustrine deposits over lake washed till
Restrictive feature(s): greater than 60 inches
Flooding: none
Ponding: none
Drainage class: moderately well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw factor (surface layer) .10
Land capability, nonirrigated 2e
Hydric soil: no
Hydrologic group: B
Potential for frost action: moderate

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1 --	0 to 13 in	fine sandy loam	moderately rapid	1.43 to 2.21 in	6.1 to 7.3
A2,Bw --	13 to 21 in	fine sandy loam	moderately rapid	0.87 to 1.34 in	6.6 to 7.8
2Bk,2C --	21 to 60 in	silt loam	moderate	6.63 to 7.80 in	7.4 to 8.4

335--Urness mucky silt loam

Urness

Extent: 90 percent of the unit
Landform(s): depressions on lake plains, depressions on moraines
Slope gradient: 0 to 1 percent
Parent material: limnic coprogenous earth
Restrictive feature(s): greater than 60 inches
Flooding: none
Ponding: frequent
Drainage class: very poorly drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4L
Wind erodibility index (WEI): 86
Kw factor (surface layer) .02
Land capability, nonirrigated 3w
Hydric soil: yes
Hydrologic group: B/D
Potential for frost action: high

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A --	0 to 10 in	mucky silt loam	moderate	1.77 to 2.36 in	7.4 to 8.4
C1,C2,C3,C4 --	10 to 48 in	mucky silt loam	moderate	6.11 to 8.40 in	7.4 to 8.4
2Cg --	48 to 60 in	clay loam	moderate	1.65 to 2.36 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

343A--Wheatville silt loam, 0 to 2 percent slopes

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): greater than 60 inches

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 factor (surface layer) .37

Land capability, nonirrigated 2s

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	silt loam	moderately rapid	1.77 to 2.17 in	7.4 to 8.4
Bk,C -- 10 to 37 in	very fine sandy loam	moderately rapid	4.07 to 5.70 in	7.4 to 8.4
2C -- 37 to 60 in	silty clay	slow	2.28 to 3.20 in	7.4 to 7.8

343B2--Wheatville very fine sandy loam, 2 to 6 percent slopes, eroded

Wheatville, eroded

Extent: 85 percent of the unit

Landform(s): hillslopes on lake plains

Slope gradient: 2 to 6 percent

Parent material: loamy over clayey lacustrine deposits

Restrictive feature(s): greater than 60 inches

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 factor (surface layer) .37

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	very fine sandy loam	moderately rapid	1.57 to 1.97 in	7.4 to 8.4
Bk,C -- 10 to 37 in	very fine sandy loam	moderately rapid	4.07 to 5.70 in	7.4 to 8.4
2C -- 37 to 60 in	clay	slow	2.28 to 3.20 in	7.4 to 7.8

Map Unit Description (MN)

Wilkin County, Minnesota

344--Quam silt loam

Quam

Extent: 90 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): greater than 60 inches

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 3w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1 -- 0 to 10 in	silt loam	moderate	2.17 to 2.36 in	6.6 to 7.8
A2,A3 -- 10 to 32 in	silty clay loam	moderately slow	3.53 to 4.85 in	6.6 to 7.8
2Cg1,2Cg2 -- 32 to 60 in	silty clay loam	moderately slow	3.91 to 5.31 in	7.4 to 8.4

359--Lamoure silty clay loam, frequently flooded

Lamoure, frequently 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): greater than 60 inches

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 factor (surface layer) .24

Land capability, nonirrigated 6w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1,A2,Cg1 -- 0 to 34 in	silty clay loam	moderate	6.43 to 7.45 in	7.4 to 8.4
Cg2,Cg3 -- 34 to 60 in	silt loam	moderate	4.42 to 5.20 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

402B--Sioux sandy loam, 1 to 6 percent slopes

Sioux

Extent: 85 percent of the unit

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

Slope gradient: 1 to 6 percent

Parent material: sandy and gravelly outwash deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .15

Land capability, nonirrigated 6s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	sandy loam	moderately rapid	0.87 to 1.18 in	6.6 to 8.4
AC -- 8 to 11 in	gravelly loamy sand	moderately rapid	0.31 to 0.47 in	7.4 to 8.4
C -- 11 to 60 in	very gravelly coarse sand	very rapid	1.46 to 2.93 in	7.4 to 8.4

403--Viking silty clay

Viking

Extent: 85 percent of the unit

Landform(s): swales on lake plains

Slope gradient: 0 to 1 percent

Parent material: water-worked clayey glacial till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: D

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 12 in	silty clay	moderately slow	1.18 to 1.65 in	6.6 to 7.8
A,Bg,BCg -- 12 to 27 in	clay	very slow	1.50 to 2.09 in	7.4 to 8.4
Cg1,Cg2 -- 27 to 60 in	clay	very slow	2.98 to 4.30 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

413--Osakis sandy loam

Osakis

Extent: 85 percent of the unit

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

Slope gradient: 1 to 2 percent

Parent material: loamy mantle over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .15

Land capability, nonirrigated 3s

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	sandy loam	moderately rapid	1.10 to 1.42 in	6.1 to 7.3
AB,Bw -- 8 to 19 in	sandy loam	moderately rapid	1.54 to 2.09 in	6.1 to 7.3
2BC -- 19 to 24 in	gravelly loamy sand	rapid	0.20 to 0.31 in	6.1 to 7.3
2C1,2C2 -- 24 to 60 in	gravelly sand	rapid	0.72 to 1.43 in	7.4 to 8.4

418--Lamoure silty clay loam, occasionally flooded

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): greater than 60 inches

Flooding: occasional

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1,A2,Cg1 -- 0 to 32 in	silty clay loam	moderate	6.06 to 7.02 in	7.4 to 8.4
Cg2,Cg3 -- 32 to 60 in	silt loam	moderate	4.75 to 5.59 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

425--Donaldson very fine sandy loam

Donaldson

Extent: 85 percent of the unit

Landform(s): rises on lake plains

Slope gradient: 0 to 2 percent

Parent material: loamy lacustrine deposits over clayey lacustrine or glacial till

Restrictive feature(s): greater than 60 inches

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 factor (surface layer) .37

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	very fine sandy loam	moderately rapid	1.63 to 2.08 in	6.6 to 7.8
Bw --	9 to 19 in	very fine sandy loam	moderately rapid	1.67 to 1.87 in	6.6 to 8.4
C --	19 to 30 in	loamy very fine sand	moderately rapid	1.76 to 2.09 in	6.6 to 8.4
2C --	30 to 60 in	silty clay	slow	2.69 to 3.89 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

426--Foldahl loamy fine sand

Foldahl

Extent: 85 percent of the unit
Landform(s): rises on till-floored lake plains
Slope gradient: 0 to 3 percent
Parent material: sandy lacustrine deposits over loamy lacustrine deposits
Restrictive feature(s): greater than 60 inches
Flooding: none
Ponding: none
Drainage class: moderately well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 2
Wind erodibility index (WEI): 134
Kw factor (surface layer) .10
Land capability, nonirrigated 3s
Hydric soil: no
Hydrologic group: A
Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 10 in	loamy fine sand	rapid	0.98 to 1.38 in	6.1 to 7.8
AB,Bw -- 10 to 22 in	loamy fine sand	rapid	0.85 to 1.46 in	6.6 to 7.8
2C1,2C2 -- 22 to 60 in	loam	moderate	5.29 to 7.18 in	7.4 to 8.4

429--Northcote clay

Northcote

Extent: 85 percent of the unit
Landform(s): swales on lake plains
Slope gradient: 0 to 1 percent
Parent material: clayey lacustrine deposits
Restrictive feature(s): greater than 60 inches
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 factor (surface layer) .15
Land capability, nonirrigated 2w
Hydric soil: yes
Hydrologic group: C/D
Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	clay	slow	1.18 to 1.45 in	6.6 to 7.3
Bg1,Bg2 -- 9 to 20 in	clay	slow	1.10 to 1.54 in	6.6 to 7.8
Cg1,Cg2 -- 20 to 60 in	clay	slow	3.98 to 5.57 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

435--Syrene sandy loam

Syrene

Extent: 85 percent of the unit

Landform(s): swales on lake plains

Slope gradient: 0 to 2 percent

Parent material: loamy lacustrine deposits over sandy lacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: rare

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .10

Land capability, nonirrigated 4w

Hydric soil: yes

Hydrologic group: A/D

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 9 in	sandy loam	moderately rapid	1.18 to 1.63 in	7.4 to 8.4
Bkg1,Bkg2 -- 9 to 18 in	sandy loam	moderately rapid	1.36 to 1.72 in	7.9 to 8.4
2Cg -- 18 to 60 in	gravelly sand	rapid	0.83 to 1.67 in	7.4 to 8.4

494--Darnen silt loam

Darnen

Extent: 85 percent of the unit

Landform(s): hillslopes on moraines

Slope gradient: 0 to 3 percent

Parent material: local alluvium over glacial till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: C

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 24 in	silt loam	moderate	4.80 to 5.76 in	6.6 to 7.8
Bw -- 24 to 35 in	clay loam	moderate	1.65 to 2.09 in	6.1 to 7.8
Bk,Cg -- 35 to 60 in	clay loam	moderate	3.47 to 4.71 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

497--Hantho silt loam

Hantho

Extent: 85 percent of the unit
Landform(s): hillslopes on moraines
Slope gradient: 1 to 3 percent
Parent material: silty glaciolacustrine deposits
Restrictive feature(s): greater than 60 inches
Flooding: none
Ponding: none
Drainage class: moderately well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 5
Wind erodibility index (WEI): 56
Kw factor (surface layer) .28
Land capability, nonirrigated 1
Hydric soil: no
Hydrologic group: C
Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 18 in	silt loam	moderate	3.98 to 4.35 in	6.6 to 7.8
Bw1,Bw2 -- 18 to 32 in	silt loam	moderate	2.34 to 3.03 in	6.6 to 7.8
C1,C2,Cg -- 32 to 60 in	silt loam	moderate	4.75 to 6.15 in	7.4 to 8.4

508--Wyndmere fine sandy loam

Wyndmere

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 sandy glaciolacustrine deposits
Restrictive feature(s): greater than 60 inches
Flooding: none
Ponding: none
Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw factor (surface layer) .20
Land capability, nonirrigated 3e
Hydric soil: no
Hydrologic group: A/D
Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 11 in	fine sandy loam	moderately rapid	1.43 to 1.98 in	6.6 to 8.4
Bk1,Bk2 -- 11 to 27 in	fine sandy loam	moderately rapid	1.89 to 2.68 in	7.4 to 8.4
C1,C2 -- 27 to 60 in	fine sandy loam	rapid	1.65 to 5.29 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

510--Elmville very fine sandy loam

Elmville

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 over clayey lacustrine deposits or glacial till
Restrictive feature(s): greater than 60 inches
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 factor (surface layer) .37
Land capability, nonirrigated 2s
Hydric soil: no
Hydrologic group: C
Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,Ak -- 0 to 15 in	very fine sandy loam	moderately rapid	2.39 to 3.29 in	7.4 to 8.4
Bk,C1,C2 -- 15 to 34 in	loamy very fine sand	moderately rapid	2.27 to 3.21 in	7.4 to 8.4
2C -- 34 to 60 in	silty clay	slow	2.60 to 3.64 in	7.4 to 7.8

540--Seelyeville muck

Seelyeville

Extent: 85 percent of the unit
Landform(s): depressions on lake plains, depressions on moraines
Slope gradient: 0 to 1 percent
Parent material: highly decomposed herbaceous organic material
Restrictive feature(s): greater than 60 inches
Flooding: rare
Ponding: frequent
Drainage class: very poorly drained

Soil loss tolerance (T factor): 2
Wind erodibility group (WEG): 2
Wind erodibility index (WEI): 134
Kw factor (surface layer) .02
Land capability, nonirrigated 6w
Hydric soil: yes
Hydrologic group: A/D
Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Oa1 -- 0 to 4 in	muck	moderately rapid	1.38 to 1.77 in	
Oa2,Oa3 -- 4 to 60 in	muck	moderately rapid	19.57 to 25.16 in	

Map Unit Description (MN)

Wilkin County, Minnesota

547--Deerwood muck

Deerwood

Extent: 85 percent of the unit

Landform(s): depressions on lake plains

Slope gradient: 0 to 1 percent

Parent material: highly decomposed herbaceous organic material over outwash

Restrictive feature(s): greater than 60 inches

Flooding: rare

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 1

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .02

Land capability, nonirrigated 6w

Hydric soil: yes

Hydrologic group: A/D

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Oa -- 0 to 12 in	muck	moderately rapid	4.13 to 5.31 in	
Ag,Cg1 -- 12 to 28 in	fine sand	rapid	1.45 to 2.74 in	6.1 to 8.4
Cg2,Cg3 -- 28 to 60 in	sand	rapid	0.64 to 2.23 in	7.4 to 8.4

582--Roliss clay loam

Roliss

Extent: 85 percent of the unit

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

Slope gradient: 0 to 1 percent

Parent material: loamy glacial till

Restrictive feature(s): greater than 60 inches

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 factor (surface layer) .15

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	clay loam	moderate	1.77 to 2.17 in	6.6 to 8.4
Bg -- 10 to 17 in	clay loam	moderate	1.06 to 1.35 in	7.4 to 8.4
2Bkg,2Cg -- 17 to 60 in	clay loam	moderate	6.44 to 8.15 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

640--Galchutt silt loam

Galchutt

Extent: 85 percent of the unit
Landform(s): flats on lake plains
Slope gradient: 0 to 1 percent
Parent material: silty over clayey glaciolacustrine deposits
Restrictive feature(s): greater than 60 inches
Flooding: none
Ponding: none
Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 3
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw factor (surface layer) .37
Land capability, nonirrigated 2w
Hydric soil: no
Hydrologic group: D
Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	silt loam	moderate	1.97 to 2.36 in	6.1 to 7.3
E -- 10 to 13 in	loam	moderate	0.54 to 0.69 in	6.6 to 7.3
2Bt,2BC,2C -- 13 to 60 in	silty clay	slow	6.09 to 7.50 in	6.6 to 7.8

642--Clearwater sandy clay loam

Clearwater

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 glacial till or lacustrine deposits
Restrictive feature(s): greater than 60 inches
Flooding: rare
Ponding: none
Drainage class: poorly drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 5
Wind erodibility index (WEI): 56
Kw factor (surface layer) .17
Land capability, nonirrigated 2w
Hydric soil: yes
Hydrologic group: C/D
Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	sandy clay loam	moderately rapid	0.91 to 1.45 in	6.6 to 7.8
Bg -- 9 to 17 in	clay	slow	1.18 to 1.42 in	7.4 to 8.4
Bkg,Cg -- 17 to 60 in	silty clay	slow	6.44 to 7.72 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

645--Espelie fine sandy loam

Espelie

Extent: 85 percent of the unit
Landform(s): flats on lake plains, swales on lake plains
Slope gradient: 0 to 1 percent
Parent material: sandy glaciolacustrine deposits over glacial till or lacustrine sediments
Restrictive feature(s): greater than 60 inches
Flooding: rare
Ponding: none
Drainage class: poorly drained

Soil loss tolerance (T factor): 4
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw factor (surface layer) .15
Land capability, nonirrigated 2w
Hydric soil: yes
Hydrologic group: C/D
Potential for frost action: high

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A --	0 to 11 in	fine sandy loam	moderately rapid	1.43 to 1.98 in	6.6 to 7.3
Bg,Cg --	11 to 27 in	loamy fine sand	rapid	0.94 to 1.73 in	6.6 to 7.8
2Cg --	27 to 60 in	silty clay	slow	2.98 to 6.28 in	7.4 to 8.4

647--Hilaire loamy fine sand

Hilaire

Extent: 85 percent of the unit
Landform(s): flats on lake plains, rises on lake plains
Slope gradient: 0 to 2 percent
Parent material: sandy glaciolacustrine deposits over glacial till or lacustrine sediments
Restrictive feature(s): greater than 60 inches
Flooding: none
Ponding: none
Drainage class: moderately well drained

Soil loss tolerance (T factor): 4
Wind erodibility group (WEG): 2
Wind erodibility index (WEI): 134
Kw factor (surface layer) .05
Land capability, nonirrigated 3s
Hydric soil: no
Hydrologic group: A
Potential for frost action: high

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A --	0 to 10 in	loamy fine sand	rapid	0.98 to 1.38 in	6.6 to 7.3
Bw1,Bw2 --	10 to 26 in	loamy sand	rapid	1.13 to 1.94 in	6.6 to 7.8
2Bkg,2Cg --	26 to 60 in	silty clay	slow	3.05 to 6.43 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

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 2 percent

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

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: C

Potential for frost action: high

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	clay loam	moderately slow	1.63 to 2.08 in	6.6 to 7.3
Bt1,Bt2 --	9 to 22 in	clay	moderately slow	1.95 to 2.47 in	6.6 to 7.8
Bk,C --	22 to 60 in	clay loam	moderate	5.29 to 6.05 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

814--Hamerly-Lindaas silty 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): greater than 60 inches
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 factor (surface layer) .24
Land capability, nonirrigated 2s
Hydric soil: no
Hydrologic group: C/D
Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	silty clay loam	moderate	1.67 to 2.17 in	6.6 to 8.4
Bk1,Bk2 -- 10 to 17 in	clay loam	moderate	1.06 to 1.35 in	7.4 to 8.4
C1,C2 -- 17 to 60 in	clay loam	moderately slow	6.01 to 8.15 in	7.4 to 8.4

Lindaas

Extent: 30 percent of the unit
Landform(s): depressions on lake plains
Slope gradient: 0 to 1 percent
Parent material: silty and clayey lacustrine sediments
Restrictive feature(s): greater than 60 inches
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 factor (surface layer) .37
Land capability, nonirrigated 2w
Hydric soil: yes
Hydrologic group: C/D
Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	silty clay loam	moderate	1.63 to 2.08 in	6.6 to 7.3
Btg1,Btg2 -- 9 to 27 in	clay	slow	2.48 to 3.01 in	6.6 to 7.8
Bkg,Cg -- 27 to 60 in	silty clay loam	moderate	2.65 to 7.28 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

821--Doran-Lindaas complex

Doran

Extent: 55 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): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: C

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	clay loam	moderately slow	1.63 to 2.08 in	6.6 to 7.3
Bt1,Bt2 -- 9 to 19 in	silty clay	moderately slow	1.48 to 1.87 in	6.6 to 7.8
Bk,C -- 19 to 60 in	silty clay loam	moderate	5.73 to 6.55 in	7.4 to 8.4

Lindaas

Extent: 35 percent of the unit

Landform(s): depressions on lake plains

Slope gradient: 0 to 2 percent

Parent material: silty and clayey lacustrine sediments

Restrictive feature(s): greater than 60 inches

Flooding: rare

Ponding: occasional

Drainage class: poorly drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .37

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 17 in	silt loam	moderate	3.72 to 4.06 in	6.6 to 7.3
Btg -- 17 to 30 in	clay	slow	1.82 to 2.21 in	6.6 to 7.8
Bkg,Cg -- 30 to 60 in	silty clay loam	moderate	2.39 to 6.58 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

903B2--Barnes-Langhei loams, 2 to 6 percent slopes, eroded

Barnes, eroded

Extent: 55 percent of the unit

Landform(s): hillslopes on moraines

Slope gradient: 2 to 6 percent

Parent material: loamy glacial till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .20

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	loam	moderate	1.77 to 2.36 in	6.1 to 7.8
Bw -- 10 to 20 in	loam	moderate	1.54 to 1.94 in	6.1 to 7.8
Bk,C -- 20 to 60 in	loam	moderate	5.57 to 7.56 in	7.4 to 8.4

Langhei, eroded

Extent: 30 percent of the unit

Landform(s): hillslopes on moraines

Slope gradient: 2 to 6 percent

Parent material: loamy glacial till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .32

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap, -- 0 to 8 in	loam	moderate	1.34 to 1.73 in	6.6 to 8.4
Bk,C -- 8 to 60 in	loam	moderate	7.80 to 9.87 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

908--Bearden-Fargo complex

Bearden

<p><i>Extent:</i> 55 percent of the unit</p> <p><i>Landform(s):</i> rises on lake plains, flats on lake plains</p> <p><i>Slope gradient:</i> 0 to 2 percent</p> <p><i>Parent material:</i> silty lacustrine deposits</p> <p><i>Restrictive feature(s):</i> greater than 60 inches</p> <p><i>Flooding:</i> none</p> <p><i>Ponding:</i> none</p> <p><i>Drainage class:</i> somewhat poorly 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 factor (surface layer)</i> .32</p> <p><i>Land capability, nonirrigated</i> 2s</p> <p><i>Hydric soil:</i> no</p> <p><i>Hydrologic group:</i> C/D</p> <p><i>Potential for frost action:</i> high</p>
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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 13 in	silty clay loam	moderately slow	2.21 to 2.99 in	7.4 to 8.4
Ak,Bk -- 13 to 22 in	silty clay loam	moderately slow	1.45 to 1.99 in	7.4 to 8.4
C,Cg -- 22 to 60 in	silty clay loam	slow	6.05 to 8.31 in	7.4 to 8.4

Fargo

<p><i>Extent:</i> 30 percent of the unit</p> <p><i>Landform(s):</i> swales on lake plains</p> <p><i>Slope gradient:</i> 0 to 2 percent</p> <p><i>Parent material:</i> clayey lacustrine deposits</p> <p><i>Restrictive feature(s):</i> greater than 60 inches</p> <p><i>Flooding:</i> rare</p> <p><i>Ponding:</i> none</p> <p><i>Drainage class:</i> poorly drained</p>	<p><i>Soil loss tolerance (T factor):</i> 5</p> <p><i>Wind erodibility group (WEG):</i> 4</p> <p><i>Wind erodibility index (WEI):</i> 86</p> <p><i>Kw factor (surface layer)</i> .24</p> <p><i>Land capability, nonirrigated</i> 2w</p> <p><i>Hydric soil:</i> yes</p> <p><i>Hydrologic group:</i> C/D</p> <p><i>Potential for frost action:</i> high</p>
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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 12 in	silty clay	slow	1.77 to 2.13 in	6.6 to 7.8
BA,Bg -- 12 to 21 in	clay	slow	1.27 to 1.54 in	6.6 to 8.4
Bkg,Cg -- 21 to 60 in	silty clay	slow	5.46 to 6.63 in	7.9 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

942C2--Langhei-Barnes loams, 6 to 12 percent slopes, eroded

Langhei, eroded

<p><i>Extent:</i> 55 percent of the unit</p> <p><i>Landform(s):</i> hillslopes on moraines</p> <p><i>Slope gradient:</i> 6 to 12 percent</p> <p><i>Parent material:</i> loamy glacial till</p> <p><i>Restrictive feature(s):</i> greater than 60 inches</p> <p><i>Flooding:</i> none</p> <p><i>Ponding:</i> none</p> <p><i>Drainage class:</i> well drained</p>	<p><i>Soil loss tolerance (T factor):</i> 5</p> <p><i>Wind erodibility group (WEG):</i> 4L</p> <p><i>Wind erodibility index (WEI):</i> 86</p> <p><i>Kw factor (surface layer)</i> .32</p> <p><i>Land capability, nonirrigated</i> 4e</p> <p><i>Hydric soil:</i> no</p> <p><i>Hydrologic group:</i> B</p> <p><i>Potential for frost action:</i> moderate</p>
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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 6 in	loam	moderate	1.00 to 1.30 in	6.6 to 8.4
Bk,C -- 6 to 60 in	loam	moderate	8.09 to 10.25 in	7.4 to 8.4

Barnes, eroded

<p><i>Extent:</i> 30 percent of the unit</p> <p><i>Landform(s):</i> hillslopes on moraines</p> <p><i>Slope gradient:</i> 6 to 12 percent</p> <p><i>Parent material:</i> loamy glacial till</p> <p><i>Restrictive feature(s):</i> greater than 60 inches</p> <p><i>Flooding:</i> none</p> <p><i>Ponding:</i> none</p> <p><i>Drainage class:</i> well drained</p>	<p><i>Soil loss tolerance (T factor):</i> 5</p> <p><i>Wind erodibility group (WEG):</i> 6</p> <p><i>Wind erodibility index (WEI):</i> 48</p> <p><i>Kw factor (surface layer)</i> .20</p> <p><i>Land capability, nonirrigated</i> 3e</p> <p><i>Hydric soil:</i> no</p> <p><i>Hydrologic group:</i> B</p> <p><i>Potential for frost action:</i> moderate</p>
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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	loam	moderate	1.42 to 1.89 in	6.1 to 7.8
Bw -- 8 to 19 in	loam	moderate	1.65 to 2.09 in	6.1 to 7.8
Bk,C -- 19 to 60 in	loam	moderate	5.73 to 7.78 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

942D2--Langhei-Barnes loams, 12 to 18 percent slopes, eroded

Langhei, eroded

Extent: 60 percent of the unit

Landform(s): hillslopes on moraines

Slope gradient: 12 to 18 percent

Parent material: loamy glacial till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .32

Land capability, nonirrigated 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Apk -- 0 to 7 in	loam	moderate	1.20 to 1.56 in	6.6 to 8.4
Bk,C -- 7 to 60 in	loam	moderate	7.91 to 10.02 in	7.4 to 8.4

Barnes, eroded

Extent: 25 percent of the unit

Landform(s): hillslopes on moraines

Slope gradient: 12 to 18 percent

Parent material: loamy glacial till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .20

Land capability, nonirrigated 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	loam	moderate	1.77 to 2.36 in	6.1 to 7.8
Bw -- 10 to 20 in	loam	moderate	1.54 to 1.94 in	6.1 to 7.8
Bk,C -- 20 to 60 in	loam	moderate	5.57 to 7.56 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

957B2--Rothsay-Zell silt loams, 2 to 6 percent slopes, eroded

Rothsay, eroded

Extent: 60 percent of the unit

Landform(s): hillslopes on moraines

Slope gradient: 2 to 6 percent

Parent material: silty glaciolacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .32

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	silt loam	moderate	2.17 to 2.36 in	6.6 to 7.3
Bw -- 10 to 20 in	silt loam	moderate	1.74 to 2.25 in	6.6 to 7.8
Bk,C -- 20 to 60 in	very fine sandy loam	moderately rapid	7.95 to 8.75 in	7.4 to 8.4

Zell, eroded

Extent: 35 percent of the unit

Landform(s): hillslopes on moraines

Slope gradient: 2 to 6 percent

Parent material: silty glaciolacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	silt loam	moderate	1.50 to 1.73 in	6.6 to 8.4
Bk -- 8 to 28 in	silt loam	moderate	3.01 to 4.02 in	7.4 to 8.4
C -- 28 to 60 in	very fine sandy loam	moderate	4.78 to 6.38 in	7.4 to 9.0

Map Unit Description (MN)

Wilkin County, Minnesota

969B--Zell-Rothsay silt loams, 1 to 4 percent slopes

Zell

Extent: 55 percent of the unit

Landform(s): hillslopes on moraines

Slope gradient: 2 to 4 percent

Parent material: silty glaciolacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 7 in	silt loam	moderate	1.35 to 1.56 in	6.6 to 8.4
Bk -- 7 to 31 in	silt loam	moderate	3.60 to 4.80 in	7.4 to 8.4
C -- 31 to 60 in	very fine sandy loam	moderate	4.31 to 5.75 in	7.4 to 9.0

Rothsay

Extent: 35 percent of the unit

Landform(s): hillslopes on moraines

Slope gradient: 1 to 4 percent

Parent material: silty glaciolacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .32

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 11 in	silt loam	moderate	2.43 to 2.65 in	6.6 to 7.3
Bw -- 11 to 16 in	silt loam	moderate	0.87 to 1.13 in	6.6 to 7.8
Bk,C -- 16 to 60 in	very fine sandy loam	moderately rapid	8.74 to 9.61 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

969C2--Zell-Rothsay silt loams, 6 to 12 percent slopes, eroded

Zell, eroded

<p><i>Extent:</i> 55 percent of the unit</p> <p><i>Landform(s):</i> hillslopes on moraines</p> <p><i>Slope gradient:</i> 6 to 12 percent</p> <p><i>Parent material:</i> silty glaciolacustrine deposits</p> <p><i>Restrictive feature(s):</i> greater than 60 inches</p> <p><i>Flooding:</i> none</p> <p><i>Ponding:</i> none</p> <p><i>Drainage class:</i> well drained</p>	<p><i>Soil loss tolerance (T factor):</i> 5</p> <p><i>Wind erodibility group (WEG):</i> 5</p> <p><i>Wind erodibility index (WEI):</i> 56</p> <p><i>Kw factor (surface layer)</i> .37</p> <p><i>Land capability, nonirrigated</i> 3e</p> <p><i>Hydric soil:</i> no</p> <p><i>Hydrologic group:</i> B</p> <p><i>Potential for frost action:</i> high</p>
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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Apk -- 0 to 7 in	silt loam	moderate	1.35 to 1.56 in	6.6 to 8.4
Bk -- 7 to 16 in	silt loam	moderate	1.36 to 1.81 in	7.4 to 8.4
C -- 16 to 60 in	very fine sandy loam	moderate	6.56 to 8.74 in	7.4 to 9.0

Rothsay, eroded

<p><i>Extent:</i> 35 percent of the unit</p> <p><i>Landform(s):</i> hillslopes on moraines</p> <p><i>Slope gradient:</i> 6 to 12 percent</p> <p><i>Parent material:</i> silty glaciolacustrine deposits</p> <p><i>Restrictive feature(s):</i> greater than 60 inches</p> <p><i>Flooding:</i> none</p> <p><i>Ponding:</i> none</p> <p><i>Drainage class:</i> well drained</p>	<p><i>Soil loss tolerance (T factor):</i> 5</p> <p><i>Wind erodibility group (WEG):</i> 5</p> <p><i>Wind erodibility index (WEI):</i> 56</p> <p><i>Kw factor (surface layer)</i> .32</p> <p><i>Land capability, nonirrigated</i> 3e</p> <p><i>Hydric soil:</i> no</p> <p><i>Hydrologic group:</i> B</p> <p><i>Potential for frost action:</i> high</p>
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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	6.6 to 7.3
Bw -- 8 to 16 in	silt loam	moderate	1.41 to 1.82 in	6.6 to 7.8
Bk,C -- 16 to 60 in	very fine sandy loam	moderately rapid	8.74 to 9.61 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

969D2--Zell-Rothsay silt loams, 12 to 18 percent slopes, eroded

Zell, eroded

Extent: 60 percent of the unit

Landform(s): hillslopes on moraines

Slope gradient: 12 to 18 percent

Parent material: silty glaciolacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Apk -- 0 to 6 in	silt loam	moderate	1.12 to 1.30 in	6.6 to 8.4
Bk -- 6 to 31 in	silt loam	moderate	3.78 to 5.04 in	7.4 to 8.4
C -- 31 to 60 in	very fine sandy loam	moderate	4.31 to 5.75 in	7.4 to 9.0

Rothsay, eroded

Extent: 35 percent of the unit

Landform(s): hillslopes on moraines

Slope gradient: 12 to 18 percent

Parent material: silty glaciolacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .32

Land capability, nonirrigated 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	6.6 to 7.3
Bw -- 8 to 15 in	silt loam	moderate	1.20 to 1.56 in	6.6 to 7.8
Bk,C -- 15 to 60 in	very fine sandy loam	moderately rapid	8.98 to 9.87 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

987--Rockwell fine sandy loam, depressional

Rockwell, depressional

Extent: 85 percent of the unit

Landform(s): depressions on lake plains

Slope gradient: 0 to 1 percent

Parent material: glaciolacustrine deposits over loamy glacial till

Restrictive feature(s): greater than 60 inches

Flooding: rare

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated 3w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 12 in	fine sandy loam	moderately rapid	1.89 to 2.13 in	7.4 to 8.4
Bk -- 12 to 19 in	sandy loam	moderately rapid	1.06 to 1.20 in	7.9 to 8.4
Cg -- 19 to 24 in	fine sand	rapid	0.26 to 0.36 in	7.4 to 7.8
2Cg -- 24 to 60 in	loam	moderate	6.45 to 7.88 in	7.4 to 7.8

1029--Pits, gravel

Pits, gravel

Extent: 100 percent of the unit

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

Slope gradient:

Parent material: gravelly and sandy outwash deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated

Hydric soil: unranked

Hydrologic group:

Potential for frost action:

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

Wilkin County, Minnesota

1055--Haplaquolls and Histosols, ponded

Aquolls, ponded

<p><i>Extent:</i> 50 percent of the unit</p> <p><i>Landform(s):</i> depressions on lake plains, depressions on moraines</p> <p><i>Slope gradient:</i> 0 to 2 percent</p> <p><i>Parent material:</i> variable mineral soil material</p> <p><i>Restrictive feature(s):</i> greater than 60 inches</p> <p><i>Flooding:</i> none</p> <p><i>Ponding:</i> frequent</p> <p><i>Drainage class:</i> very poorly drained</p>	<p><i>Soil loss tolerance (T factor):</i></p> <p><i>Wind erodibility group (WEG):</i></p> <p><i>Wind erodibility index (WEI):</i></p> <p><i>Kw factor (surface layer)</i></p> <p><i>Land capability, nonirrigated</i></p> <p><i>Hydric soil:</i> yes</p> <p><i>Hydrologic group:</i></p> <p><i>Potential for frost action:</i> none</p>
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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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Histosols, ponded

<p><i>Extent:</i> 50 percent of the unit</p> <p><i>Landform(s):</i> depressions on lake plains, depressions on moraines</p> <p><i>Slope gradient:</i> 0 to 1 percent</p> <p><i>Parent material:</i> herbaceous organic material</p> <p><i>Restrictive feature(s):</i> greater than 60 inches</p> <p><i>Flooding:</i> none</p> <p><i>Ponding:</i> frequent</p> <p><i>Drainage class:</i> very poorly drained</p>	<p><i>Soil loss tolerance (T factor):</i> 1</p> <p><i>Wind erodibility group (WEG):</i> 5</p> <p><i>Wind erodibility index (WEI):</i> 56</p> <p><i>Kw factor (surface layer)</i> .02</p> <p><i>Land capability, nonirrigated</i> 8w</p> <p><i>Hydric soil:</i> yes</p> <p><i>Hydrologic group:</i> A/D</p> <p><i>Potential for frost action:</i></p>
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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Oe -- 0 to 42 in	mucky peat	moderately rapid	14.74 to 18.96 in	
Cg -- 42 to 60 in	fine sand	rapid	1.06 to 1.24 in	

Map Unit Description (MN)

Wilkin County, Minnesota

1819--Glyndon silty clay 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): greater than 60 inches

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 factor (surface layer) .32

Land capability, nonirrigated 2s

Hydric soil: no

Hydrologic group: C

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,Ak -- 0 to 18 in	silty clay loam	moderate	3.26 to 3.98 in	7.4 to 9.0
Bk -- 18 to 24 in	very fine sandy loam	moderately rapid	1.00 to 1.18 in	7.4 to 9.0
C -- 24 to 60 in	very fine sandy loam	moderately rapid	5.37 to 6.81 in	7.4 to 9.0

1871--Fargo silty clay, swales

Fargo, swales

Extent: 85 percent of the unit

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

Slope gradient: 0 to 1 percent

Parent material: clayey lacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: rare

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated 3w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	silty clay	slow	1.48 to 1.77 in	6.6 to 7.8
BA,Bg -- 10 to 20 in	clay	slow	1.43 to 1.74 in	6.6 to 8.4
Bkg,Cg -- 20 to 60 in	clay	slow	5.57 to 6.76 in	7.9 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

1872--Fargo silty clay, silty substratum

Fargo, silty substratum

Extent: 85 percent of the unit

Landform(s): swales on lake plains

Slope gradient: 0 to 1 percent

Parent material: clayey lacustrine deposits

Restrictive feature(s): greater than 60 inches

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 factor (surface layer) .24

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 13 in	silty clay	slow	1.95 to 2.34 in	6.6 to 7.3
BA,Bg -- 13 to 30 in	silty clay	slow	2.37 to 2.88 in	6.6 to 8.4
Bkg,Cg -- 30 to 60 in	silty clay loam	moderate	4.49 to 5.98 in	7.9 to 8.4

1874--Lohnes sandy loam

Lohnes

Extent: 85 percent of the unit

Landform(s): hillslopes on beach ridges, hillslopes on outwash plains

Slope gradient: 0 to 3 percent

Parent material: sandy and gravelly outwash deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .10

Land capability, nonirrigated 4e

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 16 in	sandy loam	rapid	1.61 to 2.10 in	6.6 to 7.8
Bw,C -- 16 to 60 in	gravelly loamy sand	rapid	1.31 to 3.06 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

1913C--Wahpeton-Cashel silty clays, 0 to 15 percent slopes

Wahpeton, occasionally flooded

Extent: 55 percent of the unit
Landform(s): hillslopes on flood plains
Slope gradient: 0 to 15 percent
Parent material: clayey alluvial deposits
Restrictive feature(s): greater than 60 inches
Flooding: occasional
Ponding: none
Drainage class: moderately well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4
Wind erodibility index (WEI): 86
Kw factor (surface layer) .20
Land capability, nonirrigated 3e
Hydric soil: no
Hydrologic group: C
Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 17 in	silty clay	moderate	2.37 to 3.05 in	6.1 to 7.8
C,Ab,C' -- 17 to 60 in	clay	moderate	5.58 to 7.30 in	6.6 to 8.4

Cashel, frequently flooded

Extent: 45 percent of the unit
Landform(s): flats on flood plains
Slope gradient: 0 to 3 percent
Parent material: clayey alluvium
Restrictive feature(s): greater than 60 inches
Flooding: frequent
Ponding: none
Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4
Wind erodibility index (WEI): 86
Kw factor (surface layer) .20
Land capability, nonirrigated 6w
Hydric soil: no
Hydrologic group: C
Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A,C -- 0 to 14 in	silty clay	moderately slow	2.13 to 2.55 in	7.4 to 8.4
Ab,C' -- 14 to 60 in	silty clay	moderately slow	5.94 to 7.76 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

1916--Lindaas silt loam

Lindaas

Extent: 90 percent of the unit
Landform(s): depressions on lake plains, swales on moraines
Slope gradient: 0 to 1 percent
Parent material: silty and clayey lacustrine sediments
Restrictive feature(s): greater than 60 inches
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 factor (surface layer) .37
Land capability, nonirrigated 2w
Hydric soil: yes
Hydrologic group: C/D
Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	silt loam	moderate	1.99 to 2.17 in	6.6 to 7.3
Btg -- 9 to 27 in	clay	slow	2.48 to 3.01 in	6.6 to 7.8
Bkg,Cg -- 27 to 60 in	silty clay loam	moderate	2.65 to 7.28 in	7.4 to 8.4

1921--Foldahl very fine sandy loam

Foldahl

Extent: 85 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: sandy lacustrine deposits over loamy lacustrine deposits
Restrictive feature(s): greater than 60 inches
Flooding: none
Ponding: none
Drainage class: moderately well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw factor (surface layer) .28
Land capability, nonirrigated 2s
Hydric soil: no
Hydrologic group: B
Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1 -- 0 to 10 in	very fine sandy loam	moderately rapid	1.38 to 1.77 in	6.1 to 7.8
Bw -- 10 to 22 in	fine sand	rapid	0.85 to 1.46 in	6.6 to 7.8
2C -- 22 to 60 in	silty clay loam	moderate	5.29 to 7.18 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

1944--Perella silty clay

Perella

Extent: 85 percent of the unit

Landform(s): flats on lake plains

Slope gradient: 0 to 1 percent

Parent material: silty glaciolacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated 2w

Hydric soil: no

Hydrologic group: D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	silty clay	slow	1.36 to 1.63 in	6.6 to 7.8
Bg -- 9 to 19 in	silty clay	moderate	1.48 to 2.17 in	6.6 to 7.8
Bkg,Cg -- 19 to 60 in	silt loam	moderate	6.55 to 9.01 in	7.4 to 8.4

Map Unit Description (MN)

Wilkin County, Minnesota

1948--Fargo-Enloe complex

Fargo

Extent: 50 percent of the unit

Landform(s): swales on lake plains

Slope gradient: 0 to 2 percent

Parent material: clayey lacustrine deposits

Restrictive feature(s): greater than 60 inches

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 factor (surface layer) .24

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 10 in	silty clay	slow	1.48 to 1.77 in	6.6 to 7.8
BA,Bg -- 10 to 22 in	clay	slow	1.71 to 2.07 in	6.6 to 8.4
Bkg,Cg -- 22 to 60 in	clay	slow	5.29 to 6.43 in	7.9 to 8.4

Enloe

Extent: 35 percent of the unit

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

Slope gradient: 0 to 1 percent

Parent material: clayey lacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: rare

Ponding: frequent

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,E -- 0 to 14 in	silty clay loam	slow	2.55 to 3.26 in	5.6 to 7.3
Btg -- 14 to 26 in	clay	slow	1.65 to 2.01 in	6.1 to 7.8
Bkg,Cg -- 26 to 60 in	clay	slow	4.40 to 5.42 in	7.4 to 7.8

Map Unit Description (MN)

Wilkin County, Minnesota

1971--Divide loam

Divide

Extent: 85 percent of the unit

Landform(s): hillslopes on moraines

Slope gradient: 0 to 3 percent

Parent material: loamy mantle over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 3s

Hydric soil: no

Hydrologic group: C

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 2.17 in	7.4 to 8.4
Ak,Bk -- 9 to 23 in	loam	moderate	2.07 to 2.62 in	7.4 to 8.4
2C -- 23 to 60 in	stratified sand to gravelly sand	rapid	0.74 to 2.59 in	7.4 to 8.4

M-W--Water, miscellaneous

Water, miscellaneous

Extent: 100 percent of the unit

Landform(s):

Slope gradient:

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding:

Ponding:

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated

Hydric soil:

Hydrologic group:

Potential for frost action:

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

Wilkin County, Minnesota

W--Water

Water

Extent: 100 percent of the unit

Landform(s):

Slope gradient:

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding:

Ponding:

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated

Hydric soil: unranked

Hydrologic group:

Potential for frost action:

Representative soil profile:

Texture

Permeability

*Available water
capacity*

pH

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