

Map Unit Description (MN)

Lincoln County, Minnesota

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

AaA--Aastad clay loam, 0 to 2 percent slopes

Aastad

Extent: 98 percent of the unit

Landform(s): moraine

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw (surface layer): .24

Land capability class, nonirrigated: 1

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 19 in	clay loam	moderately slow	3.2 to 3.6 in	6.1 to 7.8
H2 -- 19 to 32 in	clay loam	moderately slow	1.9 to 2.5 in	6.6 to 7.8
H3 -- 32 to 60 in	clay loam	moderately slow	3.9 to 4.5 in	7.4 to 8.4

ArA--Arvilla sandy loam, 0 to 2 percent slopes

Arvilla

Extent: 98 percent of the unit

Landform(s): moraine

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw (surface layer): .20

Land capability class, nonirrigated: 3s

Hydric soil: no

Hydrologic group: B

Potential frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 9 in	sandy loam	moderately rapid	1.2 to 1.4 in	6.1 to 8.4
H2 -- 9 to 16 in	sandy loam	moderately rapid	0.8 to 1.0 in	6.6 to 8.4
H3 -- 16 to 60 in	very gravelly coarse sand	very rapid	0.9 to 2.2 in	7.4 to 8.4

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

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Map Unit Description (MN)

Lincoln 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]

ArB--Arvilla sandy loam, 2 to 6 percent slopes

Arvilla

Extent: 98 percent of the unit

Landform(s): moraine

Slope gradient: 2 to 6 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw (surface layer): .20

Land capability class, nonirrigated: 4s

Hydric soil: no

Hydrologic group: B

Potential frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 9 in	sandy loam	moderately rapid	1.2 to 1.4 in	6.1 to 8.4
H2 -- 9 to 16 in	sandy loam	moderately rapid	0.8 to 1.0 in	6.6 to 8.4
H3 -- 16 to 60 in	very gravelly coarse sand	very rapid	0.9 to 2.2 in	7.4 to 8.4

ArC2--Arvilla sandy loam, 6 to 12 percent slopes, eroded

Arvilla

Extent: 98 percent of the unit

Landform(s): moraine

Slope gradient: 6 to 12 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw (surface layer): .20

Land capability class, nonirrigated: 4e

Hydric soil: no

Hydrologic group: B

Potential frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 8 in	sandy loam	moderately rapid	1.0 to 1.2 in	6.1 to 8.4
H2 -- 8 to 16 in	sandy loam	moderately rapid	0.9 to 1.2 in	6.6 to 8.4
H3 -- 16 to 60 in	very gravelly coarse sand	very rapid	0.9 to 2.2 in	7.4 to 8.4

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Map Unit Description (MN)

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[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]

ArD2--Arvilla sandy loam, 12 to 18 percent slopes, eroded

Arvilla

Extent: 98 percent of the unit

Landform(s): moraine

Slope gradient: 12 to 18 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw (surface layer): .20

Land capability class, nonirrigated: 6e

Hydric soil: no

Hydrologic group: B

Potential frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 8 in	sandy loam	moderately rapid	1.0 to 1.2 in	6.1 to 8.4
H2 -- 8 to 16 in	sandy loam	moderately rapid	0.9 to 1.2 in	6.6 to 8.4
H3 -- 16 to 60 in	very gravelly coarse sand	very rapid	0.9 to 2.2 in	7.4 to 8.4

BaA--Barnes loam, 0 to 2 percent slopes

Barnes

Extent: 98 percent of the unit

Landform(s): moraine

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 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</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 12 in	loam	moderate	2.1 to 2.8 in	6.1 to 7.8
H2 -- 12 to 18 in	loam	moderate	0.9 to 1.2 in	6.1 to 7.8
H3 -- 18 to 60 in	loam	moderate	5.8 to 7.9 in	7.4 to 8.4

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BaB--Barnes loam, 2 to 6 percent slopes

Barnes

Extent: 98 percent of the unit
Landform(s): moraine
Slope gradient: 2 to 6 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
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>
H1 -- 0 to 12 in	loam	moderate	2.1 to 2.8 in	6.1 to 7.8
H2 -- 12 to 18 in	loam	moderate	0.9 to 1.2 in	6.1 to 7.8
H3 -- 18 to 60 in	loam	moderate	5.8 to 7.9 in	7.4 to 8.4

BaB2--Barnes loam, 2 to 6 percent slopes, eroded

Barnes

Extent: 98 percent of the unit
Landform(s): moraine
Slope gradient: 2 to 6 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
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>
H1 -- 0 to 8 in	loam	moderate	1.4 to 1.9 in	6.1 to 7.8
H2 -- 8 to 18 in	loam	moderate	1.5 to 1.9 in	6.1 to 7.8
H3 -- 18 to 60 in	loam	moderate	5.8 to 7.9 in	7.4 to 8.4

BbB2--Barnes and buse loams, 2 to 6 percent slopes, eroded

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BbB2--Barnes and buse loams, 2 to 6 percent slopes, eroded

Barnes

Extent: 50 percent of the unit
Landform(s): moraine
Slope gradient: 2 to 6 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw (surface layer): .28
Land capability class, nonirrigated: 2e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 8 in loam		moderate	1.4 to 1.9 in	6.1 to 7.8
H2 -- 8 to 18 in loam		moderate	1.5 to 1.9 in	6.1 to 7.8
H3 -- 18 to 60 in loam		moderate	5.8 to 7.9 in	7.4 to 8.4

Buse

Extent: 48 percent of the unit
Landform(s): moraine
Slope gradient: 3 to 6 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4L
Wind erodibility index (WEI): 86
Kw (surface layer): .28
Land capability class, nonirrigated: 2e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 7 in loam		moderate	1.2 to 1.6 in	7.4 to 8.4
H2 -- 7 to 25 in loam		moderate	2.5 to 3.4 in	7.4 to 8.4
H3 -- 25 to 60 in loam		moderate	4.9 to 6.6 in	7.4 to 8.4

BbC--Barnes and buse loams, 6 to 12 percent slopes

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BbC--Barnes and buse loams, 6 to 12 percent slopes

Barnes

Extent: 50 percent of the unit
Landform(s): moraine
Slope gradient: 6 to 12 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw (surface layer): .28
Land capability class, nonirrigated: 3e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 12 in loam		moderate	2.1 to 2.8 in	6.1 to 7.8
H2 -- 12 to 18 in loam		moderate	0.9 to 1.2 in	6.1 to 7.8
H3 -- 18 to 60 in loam		moderate	5.8 to 7.9 in	7.4 to 8.4

Buse

Extent: 48 percent of the unit
Landform(s): moraine
Slope gradient: 6 to 12 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

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

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 9 in loam		moderate	1.5 to 2.0 in	7.4 to 8.4
H2 -- 9 to 25 in loam		moderate	2.3 to 3.1 in	7.4 to 8.4
H3 -- 25 to 60 in loam		moderate	4.9 to 6.6 in	7.4 to 8.4

BbC2--Barnes and buse loams, 6 to 12 percent slopes, eroded

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BbC2--Barnes and buse loams, 6 to 12 percent slopes, eroded

Barnes

Extent: 50 percent of the unit
Landform(s): moraine
Slope gradient: 6 to 12 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw (surface layer): .28
Land capability class, nonirrigated: 3e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 8 in loam		moderate	1.4 to 1.9 in	6.1 to 7.8
H2 -- 8 to 18 in loam		moderate	1.5 to 1.9 in	6.1 to 7.8
H3 -- 18 to 60 in loam		moderate	5.8 to 7.9 in	7.4 to 8.4

Buse

Extent: 48 percent of the unit
Landform(s): moraine
Slope gradient: 6 to 12 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

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

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 7 in loam		moderate	1.2 to 1.6 in	7.4 to 8.4
H2 -- 7 to 25 in loam		moderate	2.5 to 3.4 in	7.4 to 8.4
H3 -- 25 to 60 in loam		moderate	4.9 to 6.6 in	7.4 to 8.4

BcB--Barnes-Buse-Arvilla complex, 2 to 6 percent slopes

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BcB--Barnes-Buse-Arvilla complex, 2 to 6 percent slopes

Barnes

Extent: 40 percent of the unit
Landform(s): moraine
Slope gradient: 2 to 6 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw (surface layer): .28
Land capability class, nonirrigated: 2e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

Representative soil profile:

H1 --	0 to 12 in	loam
H2 --	12 to 18 in	loam
H3 --	18 to 60 in	loam

Texture

Permeability

moderate
moderate
moderate

Available water capacity

2.1 to 2.8 in	6.1 to 7.8
0.9 to 1.2 in	6.1 to 7.8
5.8 to 7.9 in	7.4 to 8.4

pH

Buse

Extent: 40 percent of the unit
Landform(s): moraine
Slope gradient: 3 to 6 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 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

Representative soil profile:

H1 --	0 to 9 in	loam
H2 --	9 to 25 in	loam
H3 --	25 to 60 in	loam

Texture

Permeability

moderate
moderate
moderate

Available water capacity

1.5 to 2.0 in	7.4 to 8.4
2.3 to 3.1 in	7.4 to 8.4
4.9 to 6.6 in	7.4 to 8.4

pH

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BcB--Barnes-Buse-Arvilla complex, 2 to 6 percent slopes

Arvilla

Extent: 18 percent of the unit

Landform(s): moraine

Slope gradient: 2 to 6 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw (surface layer): .20

Land capability class, nonirrigated: 4s

Hydric soil: no

Hydrologic group: B

Potential frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 9 in	sandy loam	moderately rapid	1.2 to 1.4 in	6.1 to 8.4
H2 -- 9 to 16 in	sandy loam	moderately rapid	0.8 to 1.0 in	6.6 to 8.4
H3 -- 16 to 60 in	very gravelly coarse sand	very rapid	0.9 to 2.2 in	7.4 to 8.4

BcB2--Barnes-Buse-Arvilla complex, 2 to 6 percent slopes, eroded

Barnes

Extent: 40 percent of the unit

Landform(s): moraine

Slope gradient: 2 to 6 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw (surface layer): .28

Land capability class, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 8 in	loam	moderate	1.4 to 1.9 in	6.1 to 7.8
H2 -- 8 to 18 in	loam	moderate	1.5 to 1.9 in	6.1 to 7.8
H3 -- 18 to 60 in	loam	moderate	5.8 to 7.9 in	7.4 to 8.4

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BcB2--Barnes-Buse-Arvilla complex, 2 to 6 percent slopes, eroded

Buse

Extent: 40 percent of the unit
Landform(s): moraine
Slope gradient: 3 to 6 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 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>
H1 -- 0 to 7 in	loam	moderate	1.2 to 1.6 in	7.4 to 8.4
H2 -- 7 to 25 in	loam	moderate	2.5 to 3.4 in	7.4 to 8.4
H3 -- 25 to 60 in	loam	moderate	4.9 to 6.6 in	7.4 to 8.4

Arvilla

Extent: 18 percent of the unit
Landform(s): moraine
Slope gradient: 2 to 6 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: somewhat excessively drained

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

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 8 in	sandy loam	moderately rapid	1.0 to 1.2 in	6.1 to 8.4
H2 -- 8 to 16 in	sandy loam	moderately rapid	0.9 to 1.2 in	6.6 to 8.4
H3 -- 16 to 60 in	very gravelly coarse sand	very rapid	0.9 to 2.2 in	7.4 to 8.4

BcC2--Barnes-Buse-Arvilla complex, 6 to 12 percent slopes, eroded

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BcC2--Barnes-Buse-Arvilla complex, 6 to 12 percent slopes, eroded

Barnes

Extent: 40 percent of the unit
Landform(s): moraine
Slope gradient: 6 to 12 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw (surface layer): .28
Land capability class, nonirrigated: 3e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

Representative soil profile:

	Texture
H1 -- 0 to 8 in	loam
H2 -- 8 to 18 in	loam
H3 -- 18 to 60 in	loam

Texture

Permeability

moderate
moderate
moderate

Available water

capacity pH

1.4 to 1.9 in	6.1 to 7.8
1.5 to 1.9 in	6.1 to 7.8
5.8 to 7.9 in	7.4 to 8.4

Buse

Extent: 40 percent of the unit
Landform(s): moraine
Slope gradient: 6 to 12 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

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

Representative soil profile:

	Texture
H1 -- 0 to 7 in	loam
H2 -- 7 to 25 in	loam
H3 -- 25 to 60 in	loam

Texture

Permeability

moderate
moderate
moderate

Available water

capacity pH

1.2 to 1.6 in	7.4 to 8.4
2.5 to 3.4 in	7.4 to 8.4
4.9 to 6.6 in	7.4 to 8.4

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BcC2--Barnes-Buse-Arvilla complex, 6 to 12 percent slopes, eroded

Arvilla

Extent: 18 percent of the unit

Landform(s): moraine

Slope gradient: 6 to 12 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw (surface layer): .20

Land capability class, nonirrigated: 4e

Hydric soil: no

Hydrologic group: B

Potential frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 8 in	sandy loam	moderately rapid	1.0 to 1.2 in	6.1 to 8.4
H2 -- 8 to 16 in	sandy loam	moderately rapid	0.9 to 1.2 in	6.6 to 8.4
H3 -- 16 to 60 in	very gravelly coarse sand	very rapid	0.9 to 2.2 in	7.4 to 8.4

BeA--Beotia silt loam, 0 to 2 percent slopes

Beotia

Extent: 99 percent of the unit

Landform(s): moraine

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw (surface layer): .28

Land capability class, nonirrigated: 1

Hydric soil: no

Hydrologic group: B

Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 12 in	silt loam	moderate	2.2 to 2.6 in	6.1 to 7.8
H2 -- 12 to 40 in	silt loam	moderate	5.4 to 6.2 in	6.6 to 7.8
H3 -- 40 to 45 in	sr to silt loam to silty clay loam	moderate	0.8 to 0.9 in	7.4 to 8.4
H4 -- 45 to 60 in	sr to loamy sand to very gravelly sand	rapid	0.4 to 0.9 in	7.4 to 8.4

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

Map Unit Description (MN)

Lincoln 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]

BeA--Beotia silt loam, 0 to 2 percent slopes

BeB--Beotia silt loam, 2 to 4 percent slopes

Beotia

Extent: 99 percent of the unit

Landform(s): moraine

Slope gradient: 2 to 4 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw (surface layer): .28

Land capability class, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential frost action: high

Representative soil profile:

Texture

Permeability

Available water capacity

pH

H1 --	0 to 12 in	silt loam	moderate	2.2 to 2.6 in	6.1 to 7.8
H2 --	12 to 40 in	silt loam	moderate	5.4 to 6.2 in	6.6 to 7.8
H3 --	40 to 45 in	sr to silt loam to silty clay loam	moderate	0.8 to 0.9 in	7.4 to 8.4
H4 --	45 to 60 in	sr to loamy sand to very gravelly sand	rapid	0.4 to 0.9 in	7.4 to 8.4

Bh--Blue Earth silt loam

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

Map Unit Description (MN)

Lincoln 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]

Bh--Blue Earth silt loam

Blue Earth

Extent: 99 percent of the unit

Landform(s): moraine

Slope gradient: 0 to 1 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw (surface layer): .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>
H1 -- 0 to 9 in	mucky silt loam	moderate	1.6 to 2.2 in	7.4 to 8.4
H2 -- 9 to 42 in	silty clay loam	moderate	5.3 to 7.3 in	7.4 to 8.4
H3 -- 42 to 60 in	silty clay loam	moderate	2.5 to 3.5 in	7.4 to 8.4

BkA--Brookings silty clay loam, 0 to 2 percent slopes

Brookings

Extent: 99 percent of the unit

Landform(s): moraine

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw (surface layer): .28

Land capability class, nonirrigated: 1

Hydric soil: no

Hydrologic group: B

Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 17 in	silty clay loam	moderate	3.2 to 3.7 in	6.1 to 7.3
H2 -- 17 to 33 in	silty clay loam	moderate	3.1 to 3.6 in	6.6 to 8.4
H3 -- 33 to 60 in	clay loam	moderate	4.3 to 5.4 in	7.4 to 8.4

BkB--Brookings silty clay loam, 2 to 4 percent slopes

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

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Map Unit Description (MN)

Lincoln 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]

BkB--Brookings silty clay loam, 2 to 4 percent slopes

Brookings

Extent: 99 percent of the unit

Landform(s): moraine

Slope gradient: 2 to 4 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw (surface layer): .28

Land capability class, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential frost action: high

Representative soil profile:

Texture

H1 --	0 to 17 in	silty clay loam
H2 --	17 to 33 in	silty clay loam
H3 --	33 to 60 in	clay loam

Permeability

moderate
moderate
moderate

Available water

capacity

3.2 to 3.7 in	6.1 to 7.3
3.1 to 3.6 in	6.6 to 8.4
4.3 to 5.4 in	7.4 to 8.4

pH

BIE--Buse loam, 18 to 25 percent slopes

Buse

Extent: 98 percent of the unit

Landform(s): moraine

Slope gradient: 18 to 25 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw (surface layer): .28

Land capability class, nonirrigated: 6e

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

Representative soil profile:

Texture

H1 --	0 to 9 in	loam
H2 --	9 to 25 in	loam
H3 --	25 to 60 in	loam

Permeability

moderate
moderate
moderate

Available water

capacity

1.5 to 2.0 in	7.4 to 8.4
2.3 to 3.1 in	7.4 to 8.4
4.9 to 6.6 in	7.4 to 8.4

pH

BIF--Buse loam, 25 to 40 percent slopes

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Map Unit Description (MN)

Lincoln 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]

BIF--Buse loam, 25 to 40 percent slopes

Buse

Extent: 98 percent of the unit

Landform(s): moraine

Slope gradient: 25 to 40 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw (surface layer): .28

Land capability class, nonirrigated: 7e

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

Representative soil profile:

Texture

H1 --	0 to 9 in	loam
H2 --	9 to 25 in	loam
H3 --	25 to 60 in	loam

Permeability

moderate
moderate
moderate

Available water

capacity

1.5 to 2.0 in	7.4 to 8.4
2.3 to 3.1 in	7.4 to 8.4
4.9 to 6.6 in	7.4 to 8.4

pH

BnF--Buse stony loam, 5 to 40 percent slopes

Buse

Extent: 98 percent of the unit

Landform(s): moraine

Slope gradient: 5 to 40 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 8

Wind erodibility index (WEI): 0

Kw (surface layer): .20

Land capability class, nonirrigated: 7s

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

Representative soil profile:

Texture

H1 --	0 to 9 in	very stony loam
H2 --	9 to 25 in	stony loam
H3 --	25 to 60 in	stony loam

Permeability

moderate
moderately slow
moderately slow

Available water

capacity

1.6 to 1.8 in	6.6 to 8.4
2.6 to 3.2 in	7.4 to 8.4
5.5 to 6.9 in	7.4 to 8.4

pH

BoD--Buse-Barnes loams, 12 to 18 percent slopes

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

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Map Unit Description (MN)

Lincoln 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]

BoD--Buse-Barnes loams, 12 to 18 percent slopes

Buse

Extent: 60 percent of the unit

Landform(s): moraine

Slope gradient: 12 to 18 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw (surface layer): .28

Land capability class, nonirrigated: 4e

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

Representative soil profile:

	<i>Texture</i>
H1 -- 0 to 9 in	loam
H2 -- 9 to 25 in	loam
H3 -- 25 to 60 in	loam

Texture

Permeability

moderate
moderate
moderate

Available water

capacity

1.5 to 2.0 in	7.4 to 8.4
2.3 to 3.1 in	7.4 to 8.4
4.9 to 6.6 in	7.4 to 8.4

pH

Barnes

Extent: 38 percent of the unit

Landform(s): moraine

Slope gradient: 12 to 18 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw (surface layer): .28

Land capability class, nonirrigated: 4e

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

Representative soil profile:

	<i>Texture</i>
H1 -- 0 to 12 in	loam
H2 -- 12 to 18 in	loam
H3 -- 18 to 60 in	loam

Texture

Permeability

moderate
moderate
moderate

Available water

capacity

2.1 to 2.8 in	6.1 to 7.8
0.9 to 1.2 in	6.1 to 7.8
5.8 to 7.9 in	7.4 to 8.4

pH

BoD2--Buse-Barnes loams, 12 to 18 percent slopes, eroded

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

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Map Unit Description (MN)

Lincoln 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]

BoD2--Buse-Barnes loams, 12 to 18 percent slopes, eroded

Buse

Extent: 60 percent of the unit
Landform(s): moraine
Slope gradient: 12 to 18 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

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

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 7 in loam		moderate	1.2 to 1.6 in	7.4 to 8.4
H2 -- 7 to 25 in loam		moderate	2.5 to 3.4 in	7.4 to 8.4
H3 -- 25 to 60 in loam		moderate	4.9 to 6.6 in	7.4 to 8.4

Barnes

Extent: 38 percent of the unit
Landform(s): moraine
Slope gradient: 12 to 18 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw (surface layer): .28
Land capability class, nonirrigated: 4e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 8 in loam		moderate	1.4 to 1.9 in	6.1 to 7.8
H2 -- 8 to 18 in loam		moderate	1.5 to 1.9 in	6.1 to 7.8
H3 -- 18 to 60 in loam		moderate	5.8 to 7.9 in	7.4 to 8.4

BrD2--Buse-Arvilla complex, 12 to 18 percent slopes, eroded

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Map Unit Description (MN)

Lincoln 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]

BrD2--Buse-Arvilla complex, 12 to 18 percent slopes, eroded

Buse

Extent: 60 percent of the unit
Landform(s): moraine
Slope gradient: 12 to 18 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

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

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 7 in	loam	moderate	1.2 to 1.6 in	7.4 to 8.4
H2 -- 7 to 25 in	loam	moderate	2.5 to 3.4 in	7.4 to 8.4
H3 -- 25 to 60 in	loam	moderate	4.9 to 6.6 in	7.4 to 8.4

Arvilla

Extent: 38 percent of the unit
Landform(s): moraine
Slope gradient: 12 to 18 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: somewhat excessively drained

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

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 8 in	sandy loam	moderately rapid	1.0 to 1.2 in	6.1 to 8.4
H2 -- 8 to 16 in	sandy loam	moderately rapid	0.9 to 1.2 in	6.6 to 8.4
H3 -- 16 to 60 in	very gravelly coarse sand	very rapid	0.9 to 2.2 in	7.4 to 8.4

BrF--Buse-Arvilla complex, 18 to 40 percent slopes

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Map Unit Description (MN)

Lincoln 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]

BrF--Buse-Arvilla complex, 18 to 40 percent slopes

Buse

Extent: 60 percent of the unit
Landform(s): moraine
Slope gradient: 18 to 40 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4L
Wind erodibility index (WEI): 86
Kw (surface layer): .28
Land capability class, nonirrigated: 7e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 9 in	loam	moderate	1.5 to 2.0 in	7.4 to 8.4
H2 -- 9 to 25 in	loam	moderate	2.3 to 3.1 in	7.4 to 8.4
H3 -- 25 to 60 in	loam	moderate	4.9 to 6.6 in	7.4 to 8.4

Arvilla

Extent: 38 percent of the unit
Landform(s): moraine
Slope gradient: 18 to 25 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: somewhat excessively drained

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

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 8 in	sandy loam	moderately rapid	1.0 to 1.2 in	6.1 to 8.4
H2 -- 8 to 16 in	sandy loam	moderately rapid	0.9 to 1.2 in	6.6 to 8.4
H3 -- 16 to 60 in	very gravelly coarse sand	very rapid	0.9 to 2.2 in	7.4 to 8.4

Co--Colvin silty clay loam

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

Map Unit Description (MN)

Lincoln 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]

Co--Colvin silty clay loam

Colvin

Extent: 99 percent of the unit
Landform(s): flat
Slope gradient: 0 to 1 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: poorly drained

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

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 11 in	silty clay loam	moderately slow	2.2 to 2.4 in	6.6 to 8.4
H2 -- 11 to 44 in	silty clay loam	moderately slow	5.3 to 6.6 in	7.4 to 9.0
H3 -- 44 to 60 in	silty clay loam	moderate	2.4 to 3.1 in	7.4 to 8.4

CrC--Crofton silty clay loam, 4 to 12 percent slopes

Crofton

Extent: 98 percent of the unit
Landform(s): moraine
Slope gradient: 4 to 12 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4L
Wind erodibility index (WEI): 86
Kw (surface layer): .43
Land capability class, nonirrigated: 4e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 6 in	silt loam	moderate	1.2 to 1.4 in	7.4 to 8.4
H2 -- 6 to 80 in	silt loam	moderate	13.3 to 16.3 in	7.4 to 8.4

DcA--Dickey sandy loam, silty variant, 0 to 2 percent slopes

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

Map Unit Description (MN)

Lincoln 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]

DcA--Dickey sandy loam, silty variant, 0 to 2 percent slopes

Dickey variant

Extent: 99 percent of the unit

Landform(s): moraine

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw (surface layer): .17

Land capability class, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential frost action: low

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1	-- 0 to 7 in	sandy loam	moderately rapid	0.7 to 1.1 in	6.1 to 7.3
H2	-- 7 to 12 in	sandy loam	moderately rapid	0.5 to 0.7 in	6.1 to 7.3
H3	-- 12 to 32 in	loamy sand	rapid	1.0 to 2.0 in	6.6 to 7.3
H4	-- 32 to 46 in	silty clay loam	moderate	2.1 to 2.8 in	7.4 to 8.4
H5	-- 46 to 60 in	sr to loamy fine sand to clay	moderate	2.1 to 2.8 in	7.4 to 8.4

DcB--Dickey sandy loam, silty variant, 2 to 6 percent slopes

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

Map Unit Description (MN)

Lincoln 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]

DcB--Dickey sandy loam, silty variant, 2 to 6 percent slopes

Dickey variant

Extent: 99 percent of the unit

Landform(s): moraine

Slope gradient: 2 to 6 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw (surface layer): .17

Land capability class, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential frost action: low

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 --	0 to 7 in	sandy loam	moderately rapid	0.7 to 1.1 in	6.1 to 7.3
H2 --	7 to 12 in	sandy loam	moderately rapid	0.5 to 0.7 in	6.1 to 7.3
H3 --	12 to 32 in	loamy sand	rapid	1.0 to 2.0 in	6.6 to 7.3
H4 --	32 to 46 in	silty clay loam	moderate	2.1 to 2.8 in	7.4 to 8.4
H5 --	46 to 60 in	sr to loamy fine sand to clay	moderate	2.1 to 2.8 in	7.4 to 8.4

Dv--Divide silt loam

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

Map Unit Description (MN)

Lincoln 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]

Dv--Divide silt loam

Divide

Extent: 98 percent of the unit

Landform(s): moraine

Slope gradient: 0 to 2 percent

Parent material:

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): .24

Land capability class, nonirrigated: 3s

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

Representative soil profile:

Texture

H1 --	0 to 14 in	silt loam
H2 --	14 to 23 in	loam
H3 --	23 to 60 in	stratified very gravelly sand to sand

Permeability

moderate
moderate
rapid

Available water

capacity

2.8 to 3.4 in
1.3 to 1.6 in
0.7 to 2.6 in

pH

7.4 to 8.4
7.4 to 8.4
7.4 to 8.4

EsA--Estelline silt loam, 0 to 2 percent slopes

Estelline

Extent: 97 percent of the unit

Landform(s): moraine

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw (surface layer): .28

Land capability class, nonirrigated: 2s

Hydric soil: no

Hydrologic group: B

Potential frost action: low

Representative soil profile:

Texture

H1 --	0 to 6 in	silt loam
H2 --	6 to 25 in	silt loam
H3 --	25 to 29 in	loam
H4 --	29 to 60 in	sand

Permeability

moderate
moderate
moderate
very rapid

Available water

capacity

1.1 to 1.3 in
3.5 to 4.1 in
0.6 to 0.8 in
0.9 to 1.8 in

pH

6.1 to 7.3
6.1 to 7.8
7.4 to 8.4
7.4 to 8.4

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

Map Unit Description (MN)

Lincoln 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]

FaA--Flandreau loam, 0 to 2 percent slopes

Flandreau

Extent: 97 percent of the unit
Landform(s): moraine
Slope gradient: 0 to 2 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 4
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw (surface layer): .24
Land capability class, nonirrigated: 2s
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 11 in	loam	moderate	2.0 to 2.2 in	5.6 to 7.3
H2 -- 11 to 26 in	loam	moderate	2.4 to 3.3 in	6.1 to 7.3
H3 -- 26 to 40 in	sandy loam	moderately rapid	1.3 to 1.8 in	6.6 to 7.8
H4 -- 40 to 46 in	loamy sand	rapid	0.4 to 0.6 in	7.4 to 8.4
H5 -- 46 to 60 in	loam	moderate	2.5 to 2.8 in	7.4 to 8.4

FaB--Flandreau loam, 2 to 6 percent slopes

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

Map Unit Description (MN)

Lincoln 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]

FaB--Flandreau loam, 2 to 6 percent slopes

Flandreau

Extent: 97 percent of the unit
Landform(s): moraine
Slope gradient: 2 to 6 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 4
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw (surface layer): .24
Land capability class, nonirrigated: 2e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 11 in	loam	moderate	2.0 to 2.2 in	5.6 to 7.3
H2 -- 11 to 26 in	loam	moderate	2.4 to 3.3 in	6.1 to 7.3
H3 -- 26 to 40 in	sandy loam	moderately rapid	1.3 to 1.8 in	6.6 to 7.8
H4 -- 40 to 46 in	loamy sand	rapid	0.4 to 0.6 in	7.4 to 8.4
H5 -- 46 to 60 in	loam	moderate	2.5 to 2.8 in	7.4 to 8.4

Fc--Flom clay loam

Flom

Extent: 99 percent of the unit
Landform(s): swale
Slope gradient: 0 to 2 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: poorly drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw (surface layer): .24
Land capability class, nonirrigated: 2w
Hydric soil: yes
Hydrologic group: B/D
Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 13 in	clay loam	moderately slow	2.3 to 3.1 in	6.1 to 7.8
H2 -- 13 to 21 in	clay loam	moderately slow	1.2 to 1.5 in	6.6 to 8.4
H3 -- 21 to 60 in	clay loam	moderately slow	5.5 to 7.4 in	7.4 to 8.4

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

Map Unit Description (MN)

Lincoln 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]

Fc--Flom clay loam

FdA--Fordville loam, 0 to 2 percent slopes

Fordville

Extent: 97 percent of the unit
Landform(s): moraine
Slope gradient: 0 to 2 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 4
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw (surface layer): .24
Land capability class, nonirrigated: 2s
Hydric soil: no
Hydrologic group: B
Potential frost action: low

Representative soil profile:

Texture

H1	--	0 to 11 in	loam
H2	--	11 to 26 in	loam
H3	--	26 to 29 in	loam
H4	--	29 to 60 in	gravelly sand

<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
moderate	2.0 to 2.2 in	6.1 to 7.3
moderate	2.7 to 3.1 in	6.1 to 7.8
moderately rapid	0.4 to 0.6 in	6.1 to 8.4
very rapid	0.9 to 1.8 in	7.4 to 8.4

FdB--Fordville loam, 2 to 6 percent slopes

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

Map Unit Description (MN)

Lincoln 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]

FdB--Fordville loam, 2 to 6 percent slopes

Fordville

Extent: 97 percent of the unit

Landform(s): moraine

Slope gradient: 2 to 6 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw (surface layer): .24

Land capability class, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 11 in	loam	moderate	2.0 to 2.2 in	6.1 to 7.3
H2 -- 11 to 26 in	loam	moderate	2.7 to 3.1 in	6.1 to 7.8
H3 -- 26 to 29 in	loam	moderately rapid	0.4 to 0.6 in	6.1 to 8.4
H4 -- 29 to 60 in	gravelly sand	very rapid	0.9 to 1.8 in	7.4 to 8.4

FdB2--Fordville loam, 2 to 6 percent slopes, eroded

Fordville

Extent: 97 percent of the unit

Landform(s): moraine

Slope gradient: 2 to 6 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw (surface layer): .24

Land capability class, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 6 in	loam	moderate	1.1 to 1.2 in	6.1 to 7.3
H2 -- 6 to 20 in	loam	moderate	2.6 to 3.0 in	6.1 to 7.8
H3 -- 20 to 25 in	loam	moderately rapid	0.6 to 0.9 in	6.1 to 8.4
H4 -- 25 to 60 in	gravelly sand	very rapid	1.0 to 2.1 in	7.4 to 8.4

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

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Map Unit Description (MN)

Lincoln 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]

FdB2--Fordville loam, 2 to 6 percent slopes, eroded

FmA--Forman clay loam, 0 to 2 percent slopes

Forman

Extent: 98 percent of the unit
Landform(s): moraine
Slope gradient: 0 to 2 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw (surface layer): .24
Land capability class, nonirrigated: 1
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

Representative soil profile:

	<i>Texture</i>
H1 -- 0 to 12 in	clay loam
H2 -- 12 to 26 in	clay loam
H3 -- 26 to 60 in	clay loam

Texture

<i>Permeability</i>	<i>Available water</i>	
	<i>capacity</i>	<i>pH</i>
moderate	2.0 to 2.2 in	6.6 to 7.8
moderate	2.1 to 2.7 in	6.6 to 7.8
moderately slow	4.7 to 6.4 in	7.4 to 8.4

FrB--Forman and barnes soils, 2 to 6 percent slopes

Forman

Extent: 60 percent of the unit
Landform(s): moraine
Slope gradient: 2 to 6 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw (surface layer): .24
Land capability class, nonirrigated: 2e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

Representative soil profile:

	<i>Texture</i>
H1 -- 0 to 12 in	clay loam
H2 -- 12 to 26 in	clay loam
H3 -- 26 to 60 in	clay loam

Texture

<i>Permeability</i>	<i>Available water</i>	
	<i>capacity</i>	<i>pH</i>
moderate	2.0 to 2.2 in	6.6 to 7.8
moderate	2.1 to 2.7 in	6.6 to 7.8
moderately slow	4.7 to 6.4 in	7.4 to 8.4

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

Map Unit Description (MN)

Lincoln 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]

FrB--Forman and barnes soils, 2 to 6 percent slopes

Barnes

Extent: 38 percent of the unit
Landform(s): moraine
Slope gradient: 2 to 6 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw (surface layer): .28
Land capability class, nonirrigated: 2e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 12 in loam		moderate	2.1 to 2.8 in	6.1 to 7.8
H2 -- 12 to 18 in loam		moderate	0.9 to 1.2 in	6.1 to 7.8
H3 -- 18 to 60 in loam		moderate	5.8 to 7.9 in	7.4 to 8.4

FrB2--Forman and barnes soils, 2 to 6 percent slopes, eroded

Forman

Extent: 60 percent of the unit
Landform(s): moraine
Slope gradient: 2 to 6 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw (surface layer): .24
Land capability class, nonirrigated: 2e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 8 in clay loam		moderate	1.3 to 1.5 in	6.6 to 7.8
H2 -- 8 to 22 in clay loam		moderate	2.1 to 2.7 in	6.6 to 7.8
H3 -- 22 to 60 in clay loam		moderately slow	5.3 to 7.2 in	7.4 to 8.4

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

Map Unit Description (MN)

Lincoln 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]

FrB2--Forman and barnes soils, 2 to 6 percent slopes, eroded

Barnes

Extent: 38 percent of the unit
Landform(s): moraine
Slope gradient: 2 to 6 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw (surface layer): .28
Land capability class, nonirrigated: 2e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 8 in loam		moderate	1.4 to 1.9 in	6.1 to 7.8
H2 -- 8 to 18 in loam		moderate	1.5 to 1.9 in	6.1 to 7.8
H3 -- 18 to 60 in loam		moderate	5.8 to 7.9 in	7.4 to 8.4

Fu--Fulda silty clay loam

Fulda

Extent: 99 percent of the unit
Landform(s): flat
Slope gradient: 0 to 2 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: poorly drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 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</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 13 in silty clay loam		moderately slow	2.6 to 2.9 in	6.6 to 7.3
H2 -- 13 to 33 in silty clay		slow	2.6 to 3.2 in	7.4 to 8.4
H3 -- 33 to 60 in silty clay		slow	4.3 to 5.1 in	7.4 to 8.4

Gp--Gravel pit

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

Map Unit Description (MN)

Lincoln 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]

Gp--Gravel pit

Gravel pit

Extent: 100 percent of the unit

Landform(s):

Slope gradient:

Parent material:

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:

Hydric soil: unranked

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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HaA--Hamerly loam, 0 to 3 percent slopes

Hamerly

Extent: 98 percent of the unit

Landform(s): moraine

Slope gradient: 0 to 3 percent

Parent material:

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: B

Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 8 in	loam	moderate	1.6 to 1.9 in	6.6 to 8.4
H2 -- 8 to 19 in	loam	moderate	1.7 to 2.1 in	7.4 to 8.4
H3 -- 19 to 60 in	loam	moderate	5.7 to 7.8 in	7.4 to 8.4

Hd--Hidewood silty clay loam

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

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Map Unit Description (MN)

Lincoln 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]

Hd--Hidewood silty clay loam

Hidewood

Extent: 99 percent of the unit

Landform(s): swale

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw (surface layer): .28

Land capability class, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: B/D

Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 19 in	silty clay loam	moderate	4.0 to 4.3 in	6.1 to 7.8
H2 -- 19 to 38 in	silty clay loam	moderate	3.4 to 3.8 in	6.6 to 8.4
H3 -- 38 to 60 in	clay loam	moderate	3.1 to 3.5 in	7.4 to 8.4

KrA--Kranzburg silt loam 0 to 2 percent slopes

Kranzburg

Extent: 99 percent of the unit

Landform(s): moraine

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw (surface layer): .28

Land capability class, nonirrigated: 1

Hydric soil: no

Hydrologic group: B

Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 14 in	silt loam	moderate	2.7 to 3.1 in	5.6 to 7.3
H2 -- 14 to 26 in	silty clay loam	moderate	2.1 to 2.5 in	6.6 to 7.8
H3 -- 26 to 40 in	clay loam	moderately slow	2.6 to 2.8 in	7.4 to 8.4
H4 -- 40 to 60 in	clay loam	moderately slow	3.5 to 3.9 in	7.4 to 9.0

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

Map Unit Description (MN)

Lincoln 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]

KrB--Kranzburg silt loam, 2 to 6 percent slopes

Kranzburg

Extent: 99 percent of the unit

Landform(s): moraine

Slope gradient: 2 to 6 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw (surface layer): .28

Land capability class, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 14 in	silt loam	moderate	2.7 to 3.1 in	5.6 to 7.3
H2 -- 14 to 26 in	silty clay loam	moderate	2.1 to 2.5 in	6.6 to 7.8
H3 -- 26 to 40 in	clay loam	moderately slow	2.6 to 2.8 in	7.4 to 8.4
H4 -- 40 to 60 in	clay loam	moderately slow	3.5 to 3.9 in	7.4 to 9.0

KrB2--Kranzburg silt loam, 2 to 6 percent slopes, eroded

Kranzburg

Extent: 99 percent of the unit

Landform(s): moraine

Slope gradient: 2 to 6 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw (surface layer): .28

Land capability class, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 10 in	silt loam	moderate	1.9 to 2.2 in	5.6 to 7.3
H2 -- 10 to 24 in	silty clay loam	moderate	2.6 to 3.0 in	6.6 to 7.8
H3 -- 24 to 40 in	clay loam	moderately slow	2.9 to 3.2 in	7.4 to 8.4
H4 -- 40 to 60 in	clay loam	moderately slow	3.5 to 3.9 in	7.4 to 9.0

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

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Map Unit Description (MN)

Lincoln 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]

KrB2--Kranzburg silt loam, 2 to 6 percent slopes, eroded

La--Lake beaches

Lake beaches

Extent: 99 percent of the unit

Landform(s): flat

Slope gradient: 0 to 1 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: frequent

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw (surface layer): .24

Land capability class, nonirrigated: 4w

Hydric soil: yes

Hydrologic group: B/D

Potential frost action: high

Representative soil profile:

Texture

H1 --	0 to 9 in	sandy loam
H2 --	9 to 19 in	sandy loam
H3 --	19 to 27 in	loamy fine sand
H4 --	27 to 60 in	loam

Available water

<i>Permeability</i>	<i>capacity</i>	<i>pH</i>
moderately rapid	1.4 to 1.6 in	7.4 to 8.4
moderately rapid	1.5 to 1.7 in	7.9 to 8.4
rapid	0.4 to 0.6 in	7.4 to 7.8
moderate	6.0 to 7.3 in	7.4 to 7.8

Lm--Lamoure silty clay loam

Lamoure

Extent: 99 percent of the unit

Landform(s): flood plain

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: occasional

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw (surface layer): .28

Land capability class, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: B/D

Potential frost action: high

Representative soil profile:

Texture

H1 --	0 to 34 in	silty clay loam
H2 --	34 to 60 in	silty clay loam

Available water

<i>Permeability</i>	<i>capacity</i>	<i>pH</i>
moderate	6.4 to 7.4 in	7.4 to 8.4
moderate	4.4 to 5.2 in	7.4 to 8.4

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

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Map Unit Description (MN)

Lincoln 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]

Lm--Lamoure silty clay loam

Lo--Lamoure and Laprairie soils, frequently flooded

Lamoure

Extent: 50 percent of the unit
Landform(s): flood plain
Slope gradient: 0 to 2 percent
Parent material:
Restrictive feature(s):
Flooding: frequent
Ponding: none
Drainage class: poorly drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4L
Wind erodibility index (WEI): 86
Kw (surface layer): .28
Land capability class, nonirrigated: 6w
Hydric soil: yes
Hydrologic group: B/D
Potential frost action: high

Representative soil profile:

Texture

H1 --	0 to 34 in	silty clay loam
H2 --	34 to 60 in	silty clay loam

<i>Permeability</i>	<i>Available water</i>	
	<i>capacity</i>	<i>pH</i>
moderate	6.4 to 7.4 in	7.4 to 8.4
moderate	4.4 to 5.2 in	7.4 to 8.4

La Prairie

Extent: 49 percent of the unit
Landform(s): flood plain
Slope gradient: 0 to 2 percent
Parent material:
Restrictive feature(s):
Flooding: frequent
Ponding: none
Drainage class: moderately well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw (surface layer): .24
Land capability class, nonirrigated: 1
Hydric soil: yes
Hydrologic group: B
Potential frost action: moderate

Representative soil profile:

Texture

H1 --	0 to 23 in	loam
H2 --	23 to 35 in	loam
H3 --	35 to 60 in	sr to fine sandy loam to silty clay loam

<i>Permeability</i>	<i>Available water</i>	
	<i>capacity</i>	<i>pH</i>
moderate	3.9 to 5.0 in	6.6 to 8.4
moderate	2.1 to 2.7 in	6.6 to 8.4
moderate	3.7 to 5.5 in	6.6 to 8.4

Lp--La Prairie loam

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

Map Unit Description (MN)

Lincoln 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]

Lp--La Prairie loam

La Prairie

Extent: 99 percent of the unit

Landform(s): flood plain

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: occasional

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw (surface layer): .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>
H1 -- 0 to 23 in	loam	moderate	3.9 to 5.0 in	6.6 to 8.4
H2 -- 23 to 35 in	loam	moderate	2.1 to 2.7 in	6.6 to 8.4
H3 -- 35 to 60 in	sr to fine sandy loam to silty clay loam	moderate	3.7 to 5.5 in	6.6 to 8.4

LsA--Lismore silty clay loam, 0 to 3 percent slopes

Lismore

Extent: 99 percent of the unit

Landform(s): moraine

Slope gradient: 0 to 3 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw (surface layer): .28

Land capability class, nonirrigated: 1

Hydric soil: no

Hydrologic group: B

Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 17 in	silty clay loam	moderate	3.2 to 3.7 in	6.1 to 7.3
H2 -- 17 to 22 in	silty clay loam	moderate	1.0 to 1.1 in	6.1 to 7.3
H3 -- 22 to 28 in	clay loam	moderately slow	1.1 to 1.3 in	6.6 to 7.8
H4 -- 28 to 34 in	clay loam	moderately slow	0.9 to 1.1 in	7.4 to 8.4
H5 -- 34 to 60 in	clay loam	moderately slow	4.2 to 4.7 in	7.4 to 8.4

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

Map Unit Description (MN)

Lincoln 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]

LsA--Lismore silty clay loam, 0 to 3 percent slopes

Ma--Marsh

Marsh

Extent: 99 percent of the unit
Landform(s): depression
Slope gradient: 0 to 1 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: frequent
Drainage class: very poorly drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 7
Wind erodibility index (WEI): 38
Kw (surface layer): .28
Land capability class, nonirrigated: 8w
Hydric soil: yes
Hydrologic group: B/D
Potential frost action: high

Representative soil profile:

Texture

H1 --	0 to 8 in	silty clay loam
H2 --	8 to 38 in	silty clay loam
H3 --	38 to 60 in	silty clay loam

<i>Permeability</i>	<i>Available water</i>	
	<i>capacity</i>	<i>pH</i>
moderately slow	1.4 to 1.7 in	6.6 to 7.8
moderately slow	4.8 to 6.6 in	6.6 to 7.8
moderately slow	3.1 to 4.2 in	7.4 to 8.4

Mu--Muck

Muck

Extent: 99 percent of the unit
Landform(s): depression
Slope gradient: 0 to 1 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: frequent
Drainage class: very poorly drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 7
Wind erodibility index (WEI): 38
Kw (surface layer): .28
Land capability class, nonirrigated: 3w
Hydric soil: yes
Hydrologic group: B/D
Potential frost action: high

Representative soil profile:

Texture

H1 --	0 to 8 in	mucky silty clay loam
H2 --	8 to 38 in	silty clay loam
H3 --	38 to 60 in	silty clay loam

<i>Permeability</i>	<i>Available water</i>	
	<i>capacity</i>	<i>pH</i>
moderately slow	1.7 to 2.5 in	6.6 to 7.8
moderately slow	4.8 to 6.6 in	6.6 to 7.8
moderately slow	3.1 to 4.2 in	7.4 to 8.4

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

Map Unit Description (MN)

Lincoln 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]

Mu--Muck

OIA--Oak lake silty clay loam, 0 to 2 percent slopes

Oak lake

Extent: 99 percent of the unit

Landform(s): moraine

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw (surface layer): .28

Land capability class, nonirrigated: 1

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

Representative soil profile:

Texture

H1 --	0 to 12 in	silty clay loam
H2 --	12 to 21 in	silty clay loam
H3 --	21 to 42 in	clay loam
H4 --	42 to 60 in	clay loam

<i>Permeability</i>	<i>Available water</i>	
	<i>capacity</i>	<i>pH</i>
moderate	2.1 to 2.6 in	6.1 to 7.3
moderate	1.5 to 1.8 in	6.6 to 7.8
moderate	3.4 to 4.3 in	7.4 to 8.4
moderately slow	2.8 to 3.5 in	7.4 to 8.4

OIB--Oak lake silty clay loam, 2 to 4 percent slopes

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Map Unit Description (MN)

Lincoln 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]

OIB--Oak lake silty clay loam, 2 to 4 percent slopes

Oak lake

Extent: 99 percent of the unit

Landform(s): moraine

Slope gradient: 2 to 4 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw (surface layer): .28

Land capability class, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 12 in	silty clay loam	moderate	2.1 to 2.6 in	6.1 to 7.3
H2 -- 12 to 21 in	silty clay loam	moderate	1.5 to 1.8 in	6.6 to 7.8
H3 -- 21 to 42 in	clay loam	moderate	3.4 to 4.3 in	7.4 to 8.4
H4 -- 42 to 60 in	clay loam	moderately slow	2.8 to 3.5 in	7.4 to 8.4

Om--Oldham silty clay loam

Oldham

Extent: 99 percent of the unit

Landform(s): depression

Slope gradient: 0 to 1 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4

Wind erodibility index (WEI): 86

Kw (surface layer): .37

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</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 8 in	silty clay loam	moderately slow	1.0 to 1.5 in	6.6 to 7.8
H2 -- 8 to 28 in	silty clay loam	moderately slow	2.8 to 4.0 in	7.4 to 8.4
H3 -- 28 to 60 in	silty clay loam	moderately slow	4.5 to 6.4 in	7.4 to 8.4

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

Map Unit Description (MN)

Lincoln 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]

Pa--Parnell silty clay loam

Parnell

Extent: 99 percent of the unit
Landform(s): depression
Slope gradient: 0 to 1 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: frequent
Drainage class: very poorly drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 7
Wind erodibility index (WEI): 38
Kw (surface layer): .28
Land capability class, nonirrigated: 3w
Hydric soil: yes
Hydrologic group: B/D
Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 12 in	silty clay loam	moderately slow	2.1 to 2.6 in	6.6 to 7.8
H2 -- 12 to 40 in	silty clay loam	moderately slow	4.5 to 6.2 in	6.6 to 7.8
H3 -- 40 to 60 in	silty clay loam	moderately slow	2.8 to 3.7 in	7.4 to 8.4

PoB--Poinsett silty clay loam, 2 to 6 percent slopes

Poinsett

Extent: 99 percent of the unit
Landform(s): moraine
Slope gradient: 2 to 6 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 7
Wind erodibility index (WEI): 38
Kw (surface layer): .28
Land capability class, nonirrigated: 2e
Hydric soil: no
Hydrologic group: B
Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 14 in	silty clay loam	moderate	2.7 to 3.1 in	6.1 to 7.3
H2 -- 14 to 30 in	silty clay loam	moderate	2.8 to 3.3 in	6.1 to 7.8
H3 -- 30 to 46 in	silty clay loam	moderate	2.9 to 3.4 in	7.4 to 8.4
H4 -- 46 to 60 in	clay loam	moderately slow	2.2 to 2.6 in	7.4 to 8.4

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

Map Unit Description (MN)

Lincoln 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]

PoB2--Poinsett silty clay loam, 2 to 6 percent slopes, eroded

Poinsett

Extent: 99 percent of the unit
Landform(s): moraine
Slope gradient: 2 to 6 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 7
Wind erodibility index (WEI): 38
Kw (surface layer): .28
Land capability class, nonirrigated: 3e
Hydric soil: no
Hydrologic group: B
Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 14 in	silty clay loam	moderate	2.7 to 3.1 in	6.1 to 7.3
H2 -- 14 to 30 in	silty clay loam	moderate	2.8 to 3.3 in	6.1 to 7.8
H3 -- 30 to 46 in	silty clay loam	moderate	2.9 to 3.4 in	7.4 to 8.4
H4 -- 46 to 60 in	clay loam	moderately slow	2.2 to 2.6 in	7.4 to 8.4

Ra--Rauville silty clay loam

Rauville

Extent: 99 percent of the unit
Landform(s): flood plain
Slope gradient: 0 to 2 percent
Parent material:
Restrictive feature(s):
Flooding: frequent
Ponding: none
Drainage class: very poorly drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4L
Wind erodibility index (WEI): 86
Kw (surface layer): .28
Land capability class, nonirrigated: 5w
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>
H1 -- 0 to 40 in	silty clay loam	moderate	7.6 to 8.8 in	7.4 to 8.4
H2 -- 40 to 60 in	silty clay loam	moderate	3.3 to 3.9 in	7.4 to 8.4

ScA--Sinai silty clay loam, 0 to 2 percent slopes

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

Map Unit Description (MN)

Lincoln 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]

ScA--Sinai silty clay loam, 0 to 2 percent slopes

Sinai

Extent: 98 percent of the unit

Landform(s): moraine

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw (surface layer): .37

Land capability class, nonirrigated: 2s

Hydric soil: no

Hydrologic group: C

Potential frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 12 in	silty clay loam	slow	2.0 to 2.2 in	6.1 to 7.3
H2 -- 12 to 26 in	silty clay	slow	2.4 to 2.7 in	6.6 to 7.8
H3 -- 26 to 45 in	silty clay	slow	2.1 to 3.2 in	7.4 to 8.4
H4 -- 45 to 60 in	sr to silty clay to silt loam	slow	1.6 to 2.5 in	7.4 to 8.4

ScB--Sinai silty clay loam, 2 to 4 percent slopes

Sinai

Extent: 98 percent of the unit

Landform(s): moraine

Slope gradient: 2 to 4 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw (surface layer): .37

Land capability class, nonirrigated: 3e

Hydric soil: no

Hydrologic group: C

Potential frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 12 in	silty clay loam	slow	2.0 to 2.2 in	6.1 to 7.3
H2 -- 12 to 26 in	silty clay	slow	2.4 to 2.7 in	6.6 to 7.8
H3 -- 26 to 45 in	silty clay	slow	2.1 to 3.2 in	7.4 to 8.4
H4 -- 45 to 60 in	sr to silty clay to silt loam	slow	1.6 to 2.5 in	7.4 to 8.4

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

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Tabular Data Version Date: 09/29/2004

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Map Unit Description (MN)

Lincoln 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]

ScB--Sinai silty clay loam, 2 to 4 percent slopes

SgB--Singsaas silty clay loam, 2 to 6 percent slopes

Singsaas

Extent: 98 percent of the unit
Landform(s): moraine
Slope gradient: 2 to 6 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 7
Wind erodibility index (WEI): 38
Kw (surface layer): .28
Land capability class, nonirrigated: 2e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

Representative soil profile:

Texture

Permeability

Available water capacity

pH

H1 --	0 to 10 in	silty clay loam	moderate	1.8 to 2.2 in	6.1 to 7.3
H2 --	10 to 17 in	silty clay loam	moderate	1.2 to 1.4 in	6.6 to 7.8
H3 --	17 to 28 in	clay loam	moderate	1.8 to 2.2 in	7.4 to 8.4
H4 --	28 to 60 in	clay loam	moderately slow	5.4 to 6.4 in	7.4 to 8.4

SgB2--Singsaas silty clay loam, 2 to 6 percent slopes, eroded

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

Map Unit Description (MN)

Lincoln 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]

SgB2--Singsaas silty clay loam, 2 to 6 percent slopes, eroded

Singsaas

Extent: 98 percent of the unit
Landform(s): moraine
Slope gradient: 2 to 6 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 7
Wind erodibility index (WEI): 38
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>
H1 -- 0 to 7 in	silty clay loam	moderate	1.3 to 1.6 in	6.1 to 7.3
H2 -- 7 to 15 in	silty clay loam	moderate	1.3 to 1.6 in	6.6 to 7.8
H3 -- 15 to 26 in	clay loam	moderate	1.8 to 2.2 in	7.4 to 8.4
H4 -- 26 to 60 in	clay loam	moderately slow	5.8 to 6.8 in	7.4 to 8.4

SoF--Sioux gravelly sandy loam, 5 to 40 percent slopes

Sioux

Extent: 99 percent of the unit
Landform(s): moraine
Slope gradient: 5 to 40 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: excessively drained

Soil loss tolerance (T factor): 3
Wind erodibility group (WEG): 5
Wind erodibility index (WEI): 56
Kw (surface layer): .15
Land capability class, nonirrigated: 6s
Hydric soil: no
Hydrologic group: A
Potential frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 5 in	gravelly sandy loam	moderately rapid	0.5 to 0.8 in	6.6 to 8.4
H2 -- 5 to 10 in	gravelly sandy loam	moderately rapid	0.5 to 0.7 in	7.4 to 8.4
H3 -- 10 to 60 in	very gravelly sand	very rapid	1.5 to 3.0 in	7.4 to 8.4

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

Map Unit Description (MN)

Lincoln 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]

SvA--Svea clay loam, 0 to 2 percent slopes

Svea

Extent: 98 percent of the unit

Landform(s): moraine

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw (surface layer): .24

Land capability class, nonirrigated: 1

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

Representative soil profile:

Texture

H1 --	0 to 13 in	clay loam
H2 --	13 to 23 in	loam
H3 --	23 to 60 in	loam

Permeability

moderate
moderate
moderate

Available water

capacity

2.6 to 3.1 in	6.1 to 7.8
1.7 to 2.2 in	6.6 to 7.8
5.2 to 7.0 in	7.4 to 8.4

pH

SvB--Svea clay loam, 2 to 4 percent slopes

Svea

Extent: 98 percent of the unit

Landform(s): moraine

Slope gradient: 2 to 4 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw (surface layer): .24

Land capability class, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

Representative soil profile:

Texture

H1 --	0 to 13 in	clay loam
H2 --	13 to 23 in	loam
H3 --	23 to 60 in	loam

Permeability

moderate
moderate
moderate

Available water

capacity

2.6 to 3.1 in	6.1 to 7.8
1.7 to 2.2 in	6.6 to 7.8
5.2 to 7.0 in	7.4 to 8.4

pH

SwB--Sverdrup sandy loam, 2 to 6 percent slopes

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

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Map Unit Description (MN)

Lincoln 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]

SwB--Sverdrup sandy loam, 2 to 6 percent slopes

Sverdrup

Extent: 98 percent of the unit
Landform(s): moraine
Slope gradient: 2 to 6 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

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

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 12 in	sandy loam	moderately rapid	1.5 to 1.8 in	6.1 to 7.3
H2 -- 12 to 32 in	loamy sand	moderately rapid	1.6 to 2.8 in	6.1 to 7.8
H3 -- 32 to 60 in	sand	rapid	0.6 to 1.7 in	7.4 to 8.4

SwC--Sverdrup sandy loam, 6 to 12 percent slopes

Sverdrup

Extent: 98 percent of the unit
Landform(s): moraine
Slope gradient: 6 to 12 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

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

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 6 in	sandy loam	moderately rapid	0.8 to 0.9 in	6.1 to 7.3
H2 -- 6 to 23 in	loamy sand	moderately rapid	1.4 to 2.4 in	6.1 to 7.8
H3 -- 23 to 60 in	sand	rapid	0.7 to 2.2 in	7.4 to 8.4

TeB--Terril silt loam, 2 to 6 percent slopes

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

Map Unit Description (MN)

Lincoln 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]

TeB--Terril silt loam, 2 to 6 percent slopes

Terril

Extent: 97 percent of the unit
Landform(s): moraine
Slope gradient: 2 to 6 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
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>
H1 -- 0 to 46 in	silt loam	moderate	9.2 to 11.1 in	6.6 to 7.8
H2 -- 46 to 60 in	loam	moderate	2.1 to 2.6 in	6.1 to 7.8

Va--Vallers silty clay loam

Vallers

Extent: 99 percent of the unit
Landform(s): flat
Slope gradient: 0 to 2 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: poorly drained

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

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 12 in	silty clay loam	moderately slow	2.1 to 2.6 in	7.4 to 8.4
H2 -- 12 to 32 in	loam	moderately slow	3.0 to 3.8 in	7.4 to 8.4
H3 -- 32 to 60 in	loam	moderately slow	4.8 to 5.3 in	7.4 to 8.4

VeB--Vienna silt loam, 2 to 6 percent slopes

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

Map Unit Description (MN)

Lincoln 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]

VeB--Vienna silt loam, 2 to 6 percent slopes

Vienna

Extent: 99 percent of the unit
Landform(s): moraine
Slope gradient: 2 to 6 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw (surface layer): .28
Land capability class, nonirrigated: 2e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 10 in	silt loam	moderate	2.0 to 2.2 in	6.1 to 7.3
H2 -- 10 to 21 in	clay loam	moderately slow	1.8 to 2.2 in	6.6 to 8.4
H3 -- 21 to 60 in	clay loam	moderately slow	6.2 to 7.8 in	7.4 to 8.4

VeB2--Vienna silt loam, 2 to 6 percent slopes, eroded

Vienna

Extent: 99 percent of the unit
Landform(s): moraine
Slope gradient: 2 to 6 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw (surface layer): .28
Land capability class, nonirrigated: 2e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 10 in	silt loam	moderate	2.0 to 2.2 in	6.1 to 7.3
H2 -- 10 to 21 in	clay loam	moderately slow	1.8 to 2.2 in	6.6 to 8.4
H3 -- 21 to 60 in	clay loam	moderately slow	6.2 to 7.8 in	7.4 to 8.4

VeC2--Vienna silt loam, 6 to 12 percent slopes, eroded

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

Map Unit Description (MN)

Lincoln 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]

VeC2--Vienna silt loam, 6 to 12 percent slopes, eroded

Vienna

Extent: 99 percent of the unit
Landform(s): moraine
Slope gradient: 6 to 12 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw (surface layer): .28
Land capability class, nonirrigated: 4e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 7 in	silt loam	moderate	1.4 to 1.6 in	6.1 to 7.3
H2 -- 7 to 14 in	clay loam	moderately slow	1.1 to 1.4 in	6.6 to 8.4
H3 -- 14 to 60 in	clay loam	moderately slow	7.3 to 9.1 in	7.4 to 8.4

WaA--Waubay silty clay loam, 0 to 2 percent slopes

Waubay

Extent: 98 percent of the unit
Landform(s): moraine
Slope gradient: 0 to 2 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: moderately well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 7
Wind erodibility index (WEI): 38
Kw (surface layer): .28
Land capability class, nonirrigated: 1
Hydric soil: no
Hydrologic group: B
Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water</i>	
			<i>capacity</i>	<i>pH</i>
H1 -- 0 to 15 in	silty clay loam	moderate	2.8 to 3.3 in	6.1 to 7.3
H2 -- 15 to 30 in	silty clay loam	moderate	2.7 to 3.1 in	6.6 to 7.8
H3 -- 30 to 46 in	silty clay loam	moderate	2.7 to 3.2 in	7.4 to 8.4
H4 -- 46 to 60 in	silty clay loam	moderate	2.2 to 2.5 in	7.4 to 8.4

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

Map Unit Description (MN)

Lincoln 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]

WaB--Waubay silty clay loam, 2 to 4 percent slopes

Waubay

Extent: 98 percent of the unit

Landform(s): moraine

Slope gradient: 2 to 4 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw (surface layer): .28

Land capability class, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
H1 -- 0 to 15 in	silty clay loam	moderate	2.8 to 3.3 in	6.1 to 7.3
H2 -- 15 to 30 in	silty clay loam	moderate	2.7 to 3.1 in	6.6 to 7.8
H3 -- 30 to 46 in	silty clay loam	moderate	2.7 to 3.2 in	7.4 to 8.4
H4 -- 46 to 60 in	silty clay loam	moderate	2.2 to 2.5 in	7.4 to 8.4

Water--Water

Census water

Extent: 100 percent of the unit

Landform(s):

Slope gradient:

Parent material:

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:

Hydric soil: unranked

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.

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

Tabular Data Version: 2

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