

## Map Unit Description (MN)

Lac qui Parle 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]

### 31D2--Storden loam, 12 to 18 percent slopes, eroded

#### Storden, moderately eroded

*Extent:* 70 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 12 to 18 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 4e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 5 in	loam	moderate	1.02 to 1.13 in	7.4 to 8.4
Bk -- 5 to 60 in	loam	moderate	8.21 to 10.40 in	7.4 to 8.4

### 34--Parnell silty clay loam, depressional

#### Parnell, depressional

*Extent:* 85 percent of the unit

*Landform(s):* depressions

*Slope gradient:* 0 to 1 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* frequent

*Drainage class:* very poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 3w

*Hydric soil:* yes

*Hydrologic group:* C/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A,Ap -- 0 to 18 in	silty clay loam	moderately slow	3.26 to 3.98 in	6.1 to 7.3
Btg1,Btg2 -- 18 to 38 in	silty clay	slow	2.61 to 3.81 in	6.1 to 7.3
Btg3 -- 38 to 60 in	silty clay loam	slow	2.38 to 4.11 in	6.6 to 8.4

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### 47--Colvin silty clay loam

#### Colvin

*Extent:* 75 percent of the unit

*Landform(s):* flats

*Slope gradient:* 0 to 2 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* C/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	silty clay loam	moderately slow	1.97 to 2.17 in	7.4 to 8.4
Bkg -- 10 to 25 in	silty clay loam	moderate	2.46 to 3.07 in	7.4 to 8.4
Cg -- 25 to 60 in	silty clay loam	moderate	5.20 to 6.93 in	7.4 to 8.4

### 51--La Prairie loam, occasionally flooded

#### La Prairie, occasionally flooded

*Extent:* 90 percent of the unit

*Landform(s):* flood plains

*Slope gradient:* 0 to 2 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* occasional

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2w

*Hydric soil:* no

*Hydrologic group:* C

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.54 to 1.99 in	6.6 to 8.4
A -- 9 to 38 in	loam	moderate	4.95 to 6.41 in	6.6 to 8.4
Bw -- 38 to 50 in	loam	moderate	1.77 to 2.60 in	6.6 to 8.4
C -- 50 to 60 in	stratified fine sandy loam to silty clay loam	moderate	1.48 to 2.17 in	6.6 to 8.4

## Map Unit Description (MN)

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### 60--Glyndon silt loam

#### Glyndon

*Extent:* 75 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 1 to 3 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* somewhat poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .37

*Land capability, nonirrigated* 2s

*Hydric soil:* no

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	silt loam	moderate	1.97 to 2.26 in	7.4 to 8.4
Bk -- 10 to 32 in	silt loam	moderately rapid	3.75 to 4.41 in	7.4 to 8.4
C -- 32 to 60 in	very fine sandy loam	moderately rapid	4.19 to 5.31 in	7.4 to 8.4

### 67--Bearden silty clay loam

#### Bearden

*Extent:* 75 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 1 to 3 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* somewhat poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 2s

*Hydric soil:* no

*Hydrologic group:* C/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 11 in	silty clay loam	moderately slow	1.87 to 2.54 in	7.4 to 8.4
Bk -- 11 to 46 in	silt loam	moderately slow	5.61 to 7.71 in	7.4 to 8.4
BC,C -- 46 to 60 in	silt loam	moderately slow	2.20 to 3.03 in	7.4 to 8.4

## Map Unit Description (MN)

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### 70--Svea loam

#### Svea

*Extent:* 75 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 1 to 3 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 1

*Hydric soil:* no

*Hydrologic group:* C

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	loam	moderate	1.97 to 2.36 in	6.1 to 7.3
Bw -- 10 to 26 in	loam	moderate	2.74 to 3.55 in	6.6 to 7.3
Bk -- 26 to 60 in	loam	moderate	4.74 to 6.43 in	7.4 to 8.4

### 85--Calco silty clay loam, occasionally flooded

#### Calco, occasionally flooded

*Extent:* 85 percent of the unit

*Landform(s):* flood plains

*Slope gradient:* 0 to 2 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* occasional

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	silty clay loam	moderate	2.07 to 2.26 in	7.4 to 8.4
A,Bg -- 10 to 55 in	silty clay loam	moderate	9.51 to 10.41 in	7.4 to 8.4
Cg -- 55 to 60 in	silty clay loam	moderate	0.85 to 0.94 in	7.4 to 8.4

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### 108--McIntosh silt loam

#### McIntosh

*Extent:* 80 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 1 to 3 percent

*Parent material:* lacustrine deposits over till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* somewhat poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .37

*Land capability, nonirrigated* 2s

*Hydric soil:* no

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	silt loam	moderate	1.81 to 2.17 in	7.4 to 8.4
Bk -- 9 to 30 in	silt loam	moderate	3.34 to 4.59 in	7.4 to 8.4
2Bk,2C -- 30 to 60 in	loam	moderate	4.19 to 5.69 in	7.4 to 8.4

### 113--Webster clay loam

#### Webster

*Extent:* 80 percent of the unit

*Landform(s):* swales

*Slope gradient:* 0 to 2 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 17 in	clay loam	moderate	3.22 to 3.56 in	6.6 to 7.3
Bg -- 17 to 50 in	clay loam	moderate	5.29 to 5.95 in	6.6 to 7.3
Cg -- 50 to 60 in	loam	moderate	1.67 to 1.87 in	7.4 to 8.4

## Map Unit Description (MN)

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### 127A--Sverdrup sandy loam, 0 to 2 percent slopes

#### Sverdrup

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 0 to 2 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 4

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .17

*Land capability, nonirrigated* 3s

*Hydric soil:* no

*Hydrologic group:* A

*Potential for frost action:* low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	sandy loam	moderately rapid	1.18 to 1.36 in	6.1 to 7.3
Bw,2Bw -- 9 to 43 in	loamy sand	moderately rapid	2.71 to 4.74 in	6.1 to 7.3
2C -- 43 to 60 in	sand	rapid	0.34 to 1.02 in	7.4 to 8.4

### 127B--Sverdrup sandy loam, 2 to 6 percent slopes

#### Sverdrup

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 2 to 6 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .17

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* A

*Potential for frost action:* low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 12 in	sandy loam	moderately rapid	1.54 to 1.77 in	6.1 to 7.3
Bw,2Bw -- 12 to 21 in	sandy loam	moderately rapid	0.72 to 1.27 in	6.1 to 7.3
2C -- 21 to 60 in	sand	rapid	0.78 to 2.34 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 127C--Sverdrup sandy loam, 6 to 12 percent slopes

#### Sverdrup

*Extent:* 90 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 2

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .17

*Land capability, nonirrigated* 4e

*Hydric soil:* no

*Hydrologic group:* A

*Potential for frost action:* low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	sandy loam	moderately rapid	1.28 to 1.48 in	6.1 to 7.3
Bw,2Bw -- 10 to 15 in	sandy loam	moderately rapid	0.41 to 0.72 in	6.1 to 7.3
2C -- 15 to 60 in	sand	rapid	0.90 to 2.69 in	7.4 to 8.4

### 137--Dovray silty clay

#### Dovray

*Extent:* 80 percent of the unit

*Landform(s):* depressions

*Slope gradient:* 0 to 1 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* frequent

*Drainage class:* very poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .20

*Land capability, nonirrigated* 3w

*Hydric soil:* yes

*Hydrologic group:* C/D

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	silty clay	moderately slow	1.38 to 1.77 in	6.1 to 7.3
A -- 10 to 25 in	silty clay	moderately slow	2.00 to 2.46 in	6.1 to 7.3
Bg -- 25 to 47 in	silty clay	moderately slow	2.81 to 3.46 in	6.6 to 7.3
Cg -- 47 to 60 in	silty clay loam	slow	1.69 to 2.47 in	6.6 to 8.4

## Map Unit Description (MN)

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### 141A--Egeland sandy loam, 0 to 2 percent slopes

#### Egeland

*Extent:* 80 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 0 to 2 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .17

*Land capability, nonirrigated* 2s

*Hydric soil:* no

*Hydrologic group:* A

*Potential for frost action:* low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	sandy loam	moderately rapid	1.00 to 1.54 in	6.1 to 7.3
Bw -- 9 to 50 in	sandy loam	moderately rapid	3.69 to 6.14 in	6.1 to 7.3
C -- 50 to 60 in	loamy sand	moderately rapid	0.79 to 0.98 in	6.6 to 8.4

### 141B--Egeland sandy loam, 2 to 6 percent slopes

#### Egeland

*Extent:* 80 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 2 to 6 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .17

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* A

*Potential for frost action:* low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 13 in	sandy loam	moderately rapid	1.43 to 2.21 in	6.1 to 7.3
Bw -- 13 to 45 in	sandy loam	moderately rapid	2.87 to 4.78 in	6.1 to 7.3
C -- 45 to 60 in	loamy sand	moderately rapid	1.20 to 1.50 in	6.6 to 8.4

## Map Unit Description (MN)

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### 141C--Egeland loam, 6 to 12 percent slopes

#### Egeland

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 4e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 11 in	loam	moderate	1.98 to 2.20 in	6.1 to 7.3
Bw -- 11 to 25 in	sandy loam	moderately rapid	1.28 to 2.13 in	6.1 to 7.3
C -- 25 to 60 in	loamy sand	moderately rapid	2.77 to 3.46 in	6.6 to 8.4

### 168B--Forman clay loam, 2 to 6 percent slopes

#### Forman

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 2 to 6 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* C

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	clay loam	moderately slow	1.54 to 1.72 in	6.6 to 7.3
Bt -- 9 to 25 in	clay loam	moderately slow	2.42 to 3.07 in	6.6 to 7.3
Bk -- 25 to 60 in	clay loam	moderately slow	4.85 to 6.58 in	7.4 to 8.4

## Map Unit Description (MN)

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### 184--Hamerly loam

#### Hamerly

*Extent:* 75 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 1 to 3 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* somewhat poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2s

*Hydric soil:* no

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 2.17 in	7.4 to 8.4
Bk1,Bk2 -- 9 to 29 in	loam	moderate	3.01 to 3.81 in	7.4 to 8.4
Bk3 -- 29 to 60 in	loam	moderate	4.30 to 5.83 in	7.4 to 8.4

### 210--Fulda silty clay

#### Fulda

*Extent:* 65 percent of the unit

*Landform(s):* flats

*Slope gradient:* 0 to 2 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* C/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 13 in	silty clay	slow	1.82 to 2.60 in	6.6 to 7.3
Bg -- 13 to 28 in	silty clay	slow	1.94 to 2.39 in	6.6 to 7.3
Cg -- 28 to 60 in	silty clay	slow	5.10 to 6.06 in	7.4 to 8.4

## Map Unit Description (MN)

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### 212A--Sinai silty clay loam, 1 to 3 percent slopes

#### Sinai

*Extent:* 75 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 1 to 3 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	silty clay loam	moderately slow	1.67 to 2.17 in	6.1 to 7.3
A -- 10 to 17 in	silty clay loam	slow	0.71 to 1.35 in	6.6 to 7.3
Bw -- 17 to 25 in	silty clay	slow	0.79 to 1.50 in	6.6 to 7.3
Bk -- 25 to 60 in	stratified silt loam to silty clay	slow	3.50 to 6.66 in	7.4 to 8.4

## Map Unit Description (MN)

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### 212B--Sinai silty clay, 3 to 6 percent slopes

#### Sinai

*Extent:* 75 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 3 to 6 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* C

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	silty clay	slow	1.28 to 1.57 in	6.1 to 7.3
A -- 10 to 19 in	silty clay	slow	1.54 to 1.72 in	6.6 to 7.3
Bw -- 19 to 45 in	silty clay	slow	2.86 to 4.42 in	6.6 to 7.3
Bk -- 45 to 60 in	stratified silt loam to silty clay	slow	1.65 to 2.54 in	7.4 to 8.4

### 219--Rolfe silt loam

#### Rolfe

*Extent:* 75 percent of the unit

*Landform(s):* depressions

*Slope gradient:* 0 to 1 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* frequent

*Drainage class:* very poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 3w

*Hydric soil:* yes

*Hydrologic group:* C/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A,E -- 0 to 22 in	silt loam	moderate	4.85 to 5.29 in	5.6 to 7.3
Btg -- 22 to 34 in	silty clay	slow	1.30 to 1.54 in	6.1 to 7.3
2Btg,2Cg -- 34 to 60 in	clay loam	moderate	3.64 to 4.16 in	6.1 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 220D2--Langhei loam, 12 to 18 percent slopes, eroded

#### Langhei, moderately eroded

*Extent:* 75 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 12 to 18 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 4e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 6 in	loam	moderate	1.00 to 1.30 in	7.4 to 8.4
Bk -- 6 to 16 in	loam	moderate	1.54 to 1.94 in	7.4 to 8.4
C -- 16 to 60 in	loam	moderate	6.56 to 8.30 in	7.4 to 8.4

### 236--Vallers clay loam

#### Vallers

*Extent:* 75 percent of the unit

*Landform(s):* flats

*Slope gradient:* 0 to 2 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .20

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 15 in	clay loam	moderate	2.69 to 3.29 in	7.4 to 8.4
Bkg1,Bkg2 -- 15 to 30 in	clay loam	moderate	2.24 to 2.84 in	7.4 to 8.4
Bkg3 -- 30 to 60 in	clay loam	moderate	5.09 to 5.69 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 246--Marysland loam

#### Marysland

*Extent:* 85 percent of the unit

*Landform(s):* flats

*Slope gradient:* 0 to 2 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,Ak -- 0 to 17 in	loam	moderate	2.88 to 3.72 in	7.4 to 8.4
Bkg -- 17 to 25 in	loam	moderate	1.24 to 1.57 in	7.4 to 8.4
2Cg -- 25 to 60 in	stratified coarse sand to gravelly coarse sand to fine sand to fine sand	rapid	0.69 to 2.43 in	7.4 to 8.4

### 276--Oldham silty clay

#### Oldham

*Extent:* 75 percent of the unit

*Landform(s):* depressions

*Slope gradient:* 0 to 1 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* frequent

*Drainage class:* very poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 3w

*Hydric soil:* yes

*Hydrologic group:* C/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 17 in	silty clay	slow	2.20 to 3.22 in	7.4 to 7.8
Bg -- 17 to 55 in	silty clay	moderately slow	5.35 to 7.64 in	7.4 to 8.4
2Cg -- 55 to 60 in	clay loam	moderately slow	0.66 to 0.94 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 284B--Poinsett silty clay loam, 1 to 4 percent slopes

#### Poinsett

*Extent:* 75 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 1 to 4 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* C

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 12 in	silty clay loam	moderate	2.24 to 2.60 in	6.1 to 7.3
Bw -- 12 to 20 in	silty clay loam	moderate	1.49 to 1.74 in	6.1 to 7.3
Bk1 -- 20 to 26 in	silt loam	moderate	1.06 to 1.24 in	7.4 to 8.4
Bk2,C -- 26 to 60 in	clay loam	moderately slow	5.42 to 6.43 in	7.4 to 8.4

### 288F--Esmond loam, 18 to 40 percent slopes

#### Esmond

*Extent:* 70 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 18 to 40 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .37

*Land capability, nonirrigated* 7e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 7 in	loam	moderate	1.42 to 1.56 in	7.4 to 8.4
Bk,C -- 7 to 60 in	loam	moderate	7.39 to 11.61 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 290B--Rothsay silt loam, 1 to 4 percent slopes

#### Rothsay

*Extent:* 70 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 1 to 4 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 5

*Wind erodibility index (WEI):* 56

*Kw factor (surface layer)* .43

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	silt loam	moderate	2.17 to 2.36 in	6.6 to 7.3
Bw -- 10 to 25 in	very fine sandy loam	moderate	2.61 to 3.38 in	6.6 to 7.3
Bk,C -- 25 to 60 in	very fine sandy loam	moderate	6.93 to 7.62 in	7.4 to 8.4

### 293B--Swenoda loam, 2 to 6 percent slopes

#### Swenoda

*Extent:* 75 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 2 to 6 percent

*Parent material:* outwash over till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 10 in	loam	moderate	1.77 to 1.97 in	6.1 to 7.3
Bw -- 10 to 25 in	sandy loam	moderately rapid	1.69 to 2.61 in	6.6 to 7.3
2Bk -- 25 to 60 in	loam	moderate	5.89 to 6.93 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 314--Spottswood loam

#### Spottswood

*Extent:* 70 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 0 to 2 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2s

*Hydric soil:* no

*Hydrologic group:* C

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	loam	moderate	1.42 to 1.73 in	6.1 to 7.3
Bw -- 8 to 32 in	loam	moderate	4.32 to 5.28 in	6.6 to 8.4
2C -- 32 to 60 in	very gravelly sand	rapid	0.84 to 1.68 in	7.4 to 8.4

### 338--Waubay silty clay loam

#### Waubay

*Extent:* 75 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 1 to 3 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 1

*Hydric soil:* no

*Hydrologic group:* C

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 12 in	silty clay loam	moderate	2.24 to 2.60 in	6.1 to 7.3
Bw -- 12 to 23 in	silty clay loam	moderate	1.98 to 2.31 in	6.6 to 7.3
Bk -- 23 to 34 in	silty clay loam	moderate	1.87 to 2.20 in	7.4 to 8.4
C -- 34 to 60 in	silt loam	moderate	4.16 to 4.68 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 339--Fordville loam

#### Fordville

*Extent:* 80 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 0 to 4 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2s

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.63 to 1.81 in	6.1 to 7.3
Bw1 -- 9 to 16 in	loam	moderate	1.28 to 1.49 in	6.1 to 7.3
Bw2 -- 16 to 21 in	loam	moderately rapid	0.57 to 0.85 in	6.1 to 8.4
2C -- 21 to 60 in	gravelly sand	rapid	1.17 to 2.34 in	7.4 to 8.4

### 341A--Arvilla sandy loam, 0 to 2 percent slopes

#### Arvilla

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 0 to 2 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* somewhat excessively drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .17

*Land capability, nonirrigated* 3s

*Hydric soil:* no

*Hydrologic group:* A

*Potential for frost action:* low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 13 in	sandy loam	moderately rapid	1.69 to 1.95 in	6.1 to 7.3
Bw -- 13 to 20 in	sandy loam	moderately rapid	0.74 to 0.94 in	6.6 to 7.3
2C -- 20 to 60 in	gravelly coarse sand	rapid	0.80 to 2.01 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 341B--Arvilla sandy loam, 2 to 6 percent slopes

#### Arvilla

*Extent:* 90 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 2 to 6 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* somewhat excessively drained

*Soil loss tolerance (T factor):* 2

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .17

*Land capability, nonirrigated* 4s

*Hydric soil:* no

*Hydrologic group:* A

*Potential for frost action:* low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 10 in	sandy loam	moderately rapid	1.28 to 1.48 in	6.1 to 7.3
Bw -- 10 to 13 in	sandy loam	moderately rapid	0.35 to 0.44 in	6.6 to 7.3
2C -- 13 to 60 in	gravelly coarse sand	rapid	0.94 to 2.34 in	7.4 to 8.4

### 341C--Arvilla sandy loam, 6 to 12 percent slopes

#### Arvilla

*Extent:* 90 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* somewhat excessively drained

*Soil loss tolerance (T factor):* 2

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .17

*Land capability, nonirrigated* 4e

*Hydric soil:* no

*Hydrologic group:* A

*Potential for frost action:* low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 9 in	sandy loam	moderately rapid	1.18 to 1.36 in	6.1 to 7.3
Bw -- 9 to 14 in	sandy loam	moderately rapid	0.56 to 0.72 in	6.6 to 7.3
2C -- 14 to 60 in	gravelly coarse sand	rapid	0.91 to 2.28 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 344--Quam silty clay loam

#### Quam

*Extent:* 75 percent of the unit

*Landform(s):* depressions

*Slope gradient:* 0 to 1 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* frequent

*Drainage class:* very poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 3w

*Hydric soil:* yes

*Hydrologic group:* C/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	silty clay loam	moderately slow	1.63 to 1.99 in	6.6 to 7.3
A -- 9 to 54 in	silty clay loam	moderately slow	7.18 to 9.87 in	6.6 to 7.3
Cg -- 54 to 60 in	silty clay loam	moderately slow	0.83 to 1.12 in	7.4 to 8.4

### 347--Malachy loam

#### Malachy

*Extent:* 75 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 1 to 3 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 2s

*Hydric soil:* no

*Hydrologic group:* C

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 18 in	loam	moderate	3.62 to 3.98 in	7.4 to 8.4
Bk -- 18 to 30 in	sandy loam	moderately rapid	1.42 to 2.24 in	7.4 to 8.4
2Bk,2C -- 30 to 60 in	loamy fine sand	rapid	0.60 to 2.99 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 375--Forada loam

#### Forada

*Extent:* 75 percent of the unit

*Landform(s):* flats

*Slope gradient:* 0 to 2 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 5

*Wind erodibility index (WEI):* 56

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 21 in	loam	moderate	4.17 to 4.59 in	6.1 to 7.3
Bg -- 21 to 35 in	sandy loam	moderately rapid	1.70 to 2.69 in	6.1 to 7.3
2Cg -- 35 to 60 in	gravelly loamy sand	rapid	0.50 to 2.48 in	6.6 to 8.4

### 396D2--Sisseton loam, 12 to 18 percent slopes, eroded

#### Sisseton, moderately eroded

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 12 to 18 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .37

*Land capability, nonirrigated* 4e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 6 in	loam	moderate	0.94 to 1.06 in	7.4 to 8.4
Bk -- 6 to 18 in	loam	moderate	1.95 to 2.44 in	7.4 to 8.4
C -- 18 to 60 in	stratified sandy loam to silt loam	moderate	5.84 to 7.93 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 402F--Sioux gravelly loam, 12 to 40 percent slopes

#### Sioux

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 12 to 40 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* excessively drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 5

*Wind erodibility index (WEI):* 56

*Kw factor (surface layer)* .17

*Land capability, nonirrigated* 7e

*Hydric soil:* no

*Hydrologic group:* A

*Potential for frost action:* low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 7 in	gravelly loam	moderately rapid	0.71 to 1.06 in	7.4 to 8.4
AC -- 7 to 10 in	gravelly sandy loam	moderately rapid	0.28 to 0.41 in	7.4 to 8.4
C -- 10 to 60 in	very gravelly sand	rapid	1.50 to 3.00 in	7.4 to 8.4

### 418--Lamoure silty clay loam, occasionally flooded

#### Lamoure, occasionally flooded

*Extent:* 75 percent of the unit

*Landform(s):* flood plains

*Slope gradient:* 0 to 2 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* occasional

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	silty clay loam	moderate	1.72 to 1.99 in	7.4 to 8.4
A -- 9 to 55 in	silty clay loam	moderate	7.83 to 9.21 in	7.4 to 8.4
Cg -- 55 to 60 in	loam	moderate	0.80 to 0.94 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

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

#### Ves

*Extent:* 75 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 1 to 4 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	loam	moderate	1.67 to 2.17 in	6.1 to 7.3
Bw -- 10 to 25 in	loam	moderate	2.30 to 2.92 in	6.6 to 7.3
Bk -- 25 to 60 in	loam	moderate	5.20 to 6.58 in	7.4 to 8.4

### 423--Seaforth loam

#### Seaforth

*Extent:* 75 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 1 to 3 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2s

*Hydric soil:* no

*Hydrologic group:* C

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.54 to 2.17 in	7.4 to 8.4
Bk -- 9 to 30 in	loam	moderate	3.13 to 3.96 in	7.4 to 8.4
C -- 30 to 60 in	loam	moderate	5.09 to 5.69 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 434--Perella silty clay loam

#### Perella

*Extent:* 75 percent of the unit

*Landform(s):* flats

*Slope gradient:* 0 to 2 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 16 in	silty clay loam	moderate	2.91 to 3.71 in	6.6 to 7.3
Bg -- 16 to 25 in	silty clay loam	moderate	1.36 to 1.99 in	6.6 to 7.3
Bkg,Cg -- 25 to 60 in	silt loam	moderate	5.54 to 7.62 in	7.4 to 8.4

### 437F--Buse loam, 18 to 40 percent slopes

#### Buse

*Extent:* 70 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 18 to 40 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 7e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 7 in	loam	moderate	1.20 to 1.56 in	7.4 to 8.4
Bk -- 7 to 60 in	loam	moderate	7.39 to 10.02 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 450--Rauville silty clay loam, frequently flooded

#### Rauville, frequently flooded

*Extent:* 70 percent of the unit

*Landform(s):* flood plains

*Slope gradient:* 0 to 1 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*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 factor (surface layer)* .32

*Land capability, nonirrigated* 6w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 42 in	silty clay loam	moderate	8.00 to 9.27 in	7.4 to 8.4
Cg -- 42 to 60 in	silty clay loam	moderate	3.01 to 3.54 in	7.4 to 8.4

### 494B--Darnen loam, 2 to 6 percent slopes

#### Darnen

*Extent:* 70 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 2 to 6 percent

*Parent material:* colluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* C

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A,AB -- 0 to 32 in	loam	moderate	6.38 to 7.65 in	6.6 to 7.3
Bw -- 32 to 44 in	loam	moderate	1.83 to 2.32 in	6.1 to 7.3
2Bk -- 44 to 60 in	loam	moderate	2.20 to 2.99 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 497--Hantho silt loam

#### Hantho

*Extent:* 70 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 1 to 3 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 5

*Wind erodibility index (WEI):* 56

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 1

*Hydric soil:* no

*Hydrologic group:* C

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	silt loam	moderate	2.17 to 2.36 in	6.6 to 7.3
Bw -- 10 to 22 in	silt loam	moderate	2.07 to 2.69 in	6.6 to 7.3
Bk,C -- 22 to 60 in	very fine sandy loam	moderate	6.43 to 8.31 in	7.4 to 8.4

### 509--Vallers clay loam, very stony

#### Vallers, very stony

*Extent:* 75 percent of the unit

*Landform(s):* flats

*Slope gradient:* 0 to 2 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .20

*Land capability, nonirrigated* 6s

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 13 in	clay loam	moderate	2.34 to 2.86 in	7.4 to 8.4
Bkg1 -- 13 to 19 in	clay loam	moderate	0.89 to 1.12 in	7.4 to 8.4
Bkg2 -- 19 to 60 in	loam	moderate	6.96 to 7.78 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 574--Du Page loam, occasionally flooded

#### Du Page, occasionally flooded

*Extent:* 85 percent of the unit

*Landform(s):* flood plains

*Slope gradient:* 0 to 2 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* occasional

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2w

*Hydric soil:* no

*Hydrologic group:* C

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 46 in	loam	moderate	10.13 to 11.06 in	7.4 to 8.4
C -- 46 to 60 in	sandy loam	moderate	1.38 to 2.76 in	7.4 to 8.4

### 597--Tara silt loam

#### Tara

*Extent:* 75 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 1 to 3 percent

*Parent material:* lacustrine deposits over till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .37

*Land capability, nonirrigated* 1

*Hydric soil:* no

*Hydrologic group:* C

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	silt loam	moderate	1.97 to 2.36 in	6.1 to 7.3
Bw -- 10 to 25 in	silt loam	moderate	2.61 to 3.38 in	6.6 to 7.3
Bk1 -- 25 to 36 in	silt loam	moderate	1.81 to 2.23 in	7.4 to 8.4
2Bk2 -- 36 to 60 in	clay loam	moderate	3.60 to 4.56 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 610--Calco silty clay loam, frequently flooded

#### Calco, frequently flooded

*Extent:* 85 percent of the unit

*Landform(s):* flood plains

*Slope gradient:* 0 to 2 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* frequent

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 6w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 41 in	silty clay loam	moderate	8.60 to 9.42 in	7.4 to 8.4
Bg -- 41 to 46 in	silty clay loam	moderate	1.07 to 1.18 in	7.4 to 8.4
Cg -- 46 to 60 in	silty clay loam	moderate	2.48 to 2.76 in	7.4 to 8.4

### 680--Parnell silty clay loam

#### Parnell

*Extent:* 80 percent of the unit

*Landform(s):* swales

*Slope gradient:* 0 to 2 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* C/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 17 in	silty clay loam	moderately slow	3.05 to 3.72 in	6.1 to 7.3
Btg1,Btg2 -- 17 to 39 in	silty clay	slow	2.87 to 4.19 in	6.1 to 7.3
Btg3 -- 39 to 60 in	silty clay loam	moderately slow	2.92 to 3.96 in	6.6 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 694C2--Zell silt loam, 6 to 12 percent slopes, eroded

#### Zell, moderately eroded

*Extent:* 80 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 5

*Wind erodibility index (WEI):* 56

*Kw factor (surface layer)* .49

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 7 in	silt loam	moderate	1.35 to 1.56 in	7.4 to 8.4
Bk -- 7 to 11 in	silt loam	moderate	0.59 to 0.79 in	7.4 to 8.4
C -- 11 to 60 in	silt loam	moderate	7.32 to 9.76 in	7.4 to 8.4

### 706--Bigstone silty clay loam, ponded

#### Bigstone, ponded

*Extent:* 70 percent of the unit

*Landform(s):* depressions

*Slope gradient:* 0 to 1 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* frequent

*Drainage class:* very poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 8

*Wind erodibility index (WEI):* 0

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 8w

*Hydric soil:* yes

*Hydrologic group:* C/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1 -- 0 to 11 in	silty clay loam	moderately slow	1.98 to 2.43 in	7.4 to 8.4
A2 -- 11 to 30 in	silty clay loam	moderate	3.02 to 4.16 in	7.4 to 8.4
2Cg -- 30 to 60 in	clay loam	moderate	4.19 to 5.69 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 724--Bigstone silty clay loam

#### Bigstone

*Extent:* 70 percent of the unit

*Landform(s):* depressions

*Slope gradient:* 0 to 1 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* frequent

*Drainage class:* very poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 3w

*Hydric soil:* yes

*Hydrologic group:* C/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	silty clay loam	moderately slow	1.63 to 1.99 in	7.4 to 8.4
A -- 9 to 54 in	silty clay loam	moderate	7.18 to 9.87 in	7.4 to 8.4
2Cg -- 54 to 60 in	clay loam	moderate	0.83 to 1.12 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 741B--Poinsett-Buse complex, 2 to 6 percent slopes

#### Poinsett

*Extent:* 45 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 2 to 6 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 9 in	silty clay loam	moderate	1.72 to 1.99 in	6.1 to 7.3
Bw -- 9 to 17 in	silty clay loam	moderate	1.42 to 1.65 in	6.1 to 7.3
Bk,C -- 17 to 60 in	silt loam	moderate	7.72 to 9.01 in	7.4 to 8.4

#### Buse

*Extent:* 30 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 3 to 6 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.54 to 1.99 in	7.4 to 8.4
Bk -- 9 to 60 in	loam	moderate	7.11 to 9.65 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 748B--Hamlet loam, 1 to 4 percent slopes

#### Hamlet

*Extent:* 70 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 1 to 4 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* C

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	loam	moderate	1.97 to 2.17 in	6.6 to 7.3
Bw -- 10 to 33 in	loam	moderate	3.43 to 4.34 in	6.6 to 7.3
Bk,C -- 33 to 60 in	loam	moderate	3.80 to 5.16 in	7.9 to 8.4

### 769A--Mehurin clay loam, 0 to 2 percent slopes

#### Mehurin

*Extent:* 75 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 0 to 2 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 1

*Hydric soil:* no

*Hydrologic group:* C

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	clay loam	moderately slow	1.54 to 1.72 in	6.1 to 7.3
Bt1 -- 9 to 14 in	clay loam	moderately slow	0.51 to 0.97 in	6.1 to 7.3
Bt2 -- 14 to 21 in	clay loam	moderate	1.00 to 1.27 in	6.1 to 7.3
Bk -- 21 to 60 in	clay loam	moderate	5.85 to 7.41 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 769B--Mehurin clay loam, 2 to 6 percent slopes

#### Mehurin

*Extent:* 75 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 2 to 6 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* C

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	clay loam	moderately slow	1.34 to 1.50 in	6.1 to 7.3
Bt1 -- 8 to 17 in	clay loam	moderately slow	0.91 to 1.72 in	6.1 to 7.3
Bt2 -- 17 to 30 in	clay loam	moderate	1.95 to 2.47 in	6.1 to 7.3
Bk -- 30 to 60 in	clay loam	moderate	4.49 to 5.69 in	7.4 to 8.4

### 774--Svea loam, very stony

#### Svea, very stony

*Extent:* 75 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 1 to 3 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 6s

*Hydric soil:* no

*Hydrologic group:* C

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	loam	moderate	1.97 to 2.36 in	6.1 to 7.3
Bw -- 10 to 23 in	loam	moderate	2.21 to 2.86 in	6.6 to 7.3
Bk -- 23 to 60 in	loam	moderate	5.18 to 7.03 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 777C2--Sisseton-Heimdal complex, 6 to 12 percent slopes, eroded

#### Sisseton, moderately eroded

*Extent:* 60 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 5

*Wind erodibility index (WEI):* 56

*Kw factor (surface layer)* .37

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 6 in	loam	moderate	0.94 to 1.06 in	7.4 to 8.4
Bk -- 6 to 24 in	loam	moderate	2.90 to 3.62 in	7.4 to 8.4
C -- 24 to 60 in	stratified sandy loam to silt loam	moderate	5.02 to 6.81 in	7.4 to 8.4

#### Heimdal, moderately eroded

*Extent:* 30 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 5

*Wind erodibility index (WEI):* 56

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	loam	moderate	1.57 to 1.73 in	6.1 to 7.3
Bw -- 8 to 26 in	loam	moderate	2.17 to 3.44 in	6.1 to 7.3
Bk -- 26 to 47 in	loam	moderate	2.30 to 3.96 in	7.4 to 8.4
C -- 47 to 60 in	loam	moderate	1.43 to 2.08 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 883--Du Page-Zumbro complex, occasionally flooded

#### Du Page, occasionally flooded

*Extent:* 55 percent of the unit

*Landform(s):* flood plains

*Slope gradient:* 0 to 2 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* occasional

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2w

*Hydric soil:* no

*Hydrologic group:* C

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 38 in	loam	moderate	8.40 to 9.17 in	7.4 to 8.4
C -- 38 to 60 in	sandy loam	moderate	2.17 to 4.33 in	7.4 to 8.4

#### Zumbro, occasionally flooded

*Extent:* 30 percent of the unit

*Landform(s):* flood plains

*Slope gradient:* 0 to 2 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* occasional

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .20

*Land capability, nonirrigated* 3s

*Hydric soil:* no

*Hydrologic group:* A

*Potential for frost action:* low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	sandy loam	moderately rapid	1.18 to 1.63 in	7.4 to 7.8
Bw -- 9 to 32 in	loamy sand	rapid	2.28 to 2.74 in	7.4 to 7.8
C1 -- 32 to 47 in	loamy sand	rapid	0.90 to 1.65 in	7.4 to 7.8
C2 -- 47 to 60 in	sand	rapid	0.26 to 0.91 in	7.4 to 7.8

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 891B--Doland-Buse complex, 3 to 6 percent slopes

#### Doland

*Extent:* 45 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 3 to 6 percent

*Parent material:* lacustrine deposits over till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	silt loam	moderate	2.36 to 2.76 in	6.1 to 7.3
Bw -- 10 to 28 in	silt loam	moderate	3.08 to 3.98 in	6.1 to 7.3
2Bk -- 28 to 60 in	clay loam	moderate	4.46 to 6.06 in	6.6 to 8.4

#### Buse

*Extent:* 25 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 3 to 6 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	loam	moderate	1.34 to 1.73 in	7.4 to 8.4
Bk -- 8 to 60 in	loam	moderate	7.28 to 9.87 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 902B--Barnes-Buse complex, 2 to 6 percent slopes

#### Barnes

*Extent:* 50 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 2 to 6 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	loam	moderate	1.77 to 2.36 in	6.1 to 7.3
Bw -- 10 to 21 in	loam	moderate	1.65 to 2.09 in	6.1 to 7.3
Bk,C -- 21 to 60 in	loam	moderate	5.46 to 7.41 in	7.4 to 8.4

#### Buse

*Extent:* 35 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 3 to 6 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	loam	moderate	1.34 to 1.73 in	7.4 to 8.4
Bk -- 8 to 60 in	loam	moderate	7.28 to 9.87 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 915C2--Buse-Forman complex, 6 to 12 percent slopes, eroded

#### Buse, moderately eroded

*Extent:* 50 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .37

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* C

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 7 in	loam	moderately slow	1.20 to 1.56 in	7.4 to 8.4
Bk -- 7 to 60 in	clay loam	moderately slow	7.39 to 10.02 in	7.4 to 8.4

#### Forman, moderately eroded

*Extent:* 35 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 4e

*Hydric soil:* no

*Hydrologic group:* C

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	clay loam	moderately slow	1.54 to 1.72 in	6.6 to 7.3
Bt -- 9 to 15 in	clay loam	moderately slow	0.89 to 1.12 in	6.6 to 7.3
Bk -- 15 to 60 in	clay loam	moderately slow	6.28 to 8.53 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

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

#### Langhei, moderately eroded

*Extent:* 55 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 5 in	loam	moderate	0.87 to 1.13 in	7.4 to 8.4
Bk -- 5 to 23 in	loam	moderate	2.66 to 3.37 in	7.9 to 8.4
C -- 23 to 60 in	loam	moderate	5.55 to 7.03 in	7.4 to 8.4

#### Barnes, moderately eroded

*Extent:* 30 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.63 to 2.17 in	6.1 to 7.3
Bw -- 9 to 32 in	loam	moderate	3.43 to 4.34 in	6.1 to 7.3
Bk,C -- 32 to 60 in	loam	moderate	3.91 to 5.31 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 954B--Ves-Swanlake complex, 3 to 6 percent slopes

#### Ves

*Extent:* 45 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 3 to 6 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.54 to 1.99 in	6.1 to 7.3
Bw -- 9 to 21 in	loam	moderate	1.77 to 2.24 in	6.6 to 7.3
Bk -- 21 to 60 in	loam	moderate	5.85 to 7.41 in	7.4 to 8.4

#### Swanlake

*Extent:* 30 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 3 to 6 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	loam	moderate	1.57 to 1.89 in	7.4 to 8.4
Bk -- 8 to 60 in	loam	moderate	8.83 to 9.87 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

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

#### Storden, moderately eroded

*Extent:* 50 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 5 in	loam	moderate	1.02 to 1.13 in	7.4 to 8.4
Bk -- 5 to 60 in	loam	moderate	8.21 to 10.40 in	7.4 to 8.4

#### Ves, moderately eroded

*Extent:* 30 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	loam	moderate	1.34 to 1.73 in	6.1 to 7.3
Bw -- 8 to 22 in	loam	moderate	2.13 to 2.69 in	6.6 to 7.3
Bk -- 22 to 60 in	loam	moderate	5.67 to 7.18 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 969B--Zell-Rothsay complex, 3 to 6 percent slopes

#### Zell

*Extent:* 45 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 3 to 6 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 5

*Wind erodibility index (WEI):* 56

*Kw factor (surface layer)* .49

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	silt loam	moderate	1.72 to 1.99 in	7.4 to 8.4
Bk -- 9 to 21 in	silt loam	moderate	1.77 to 2.36 in	7.4 to 8.4
C -- 21 to 60 in	silt loam	moderate	5.85 to 7.80 in	7.4 to 8.4

#### Rothsay

*Extent:* 25 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 3 to 6 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 5

*Wind erodibility index (WEI):* 56

*Kw factor (surface layer)* .43

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	silt loam	moderate	1.99 to 2.17 in	6.6 to 7.3
Bw -- 9 to 23 in	very fine sandy loam	moderate	2.34 to 3.03 in	6.6 to 7.3
Bk,C -- 23 to 60 in	silt loam	moderate	7.40 to 8.14 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 1013--Pits, quarry

#### Pits, quarry

*Extent:* 100 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 0 to 20 percent

*Parent material:* outwash

*Restrictive feature(s):* lithic bedrock at 0 to 4 inches

*Flooding:* none

*Ponding:* none

*Drainage class:*

*Soil loss tolerance (T factor):*

*Wind erodibility group (WEG):*

*Wind erodibility index (WEI):*

*Kw factor (surface layer)*

*Land capability, nonirrigated* 8s

*Hydric soil:*

*Hydrologic group:*

*Potential for frost action:* none

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
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### 1016--Udorthents, loamy

#### Udorthents, loamy

*Extent:* 100 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 0 to 6 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):*

*Wind erodibility group (WEG):*

*Wind erodibility index (WEI):*

*Kw factor (surface layer)*

*Land capability, nonirrigated*

*Hydric soil:*

*Hydrologic group:*

*Potential for frost action:* moderate

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

Lac qui Parle County, Minnesota

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### 1030--Udorthents-pits, gravel complex

#### Udorthents

*Extent:* 50 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 0 to 6 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:*

*Soil loss tolerance (T factor):*

*Wind erodibility group (WEG):*

*Wind erodibility index (WEI):*

*Kw factor (surface layer)*

*Land capability, nonirrigated*

*Hydric soil:*

*Hydrologic group:*

*Potential for frost action:*

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
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#### Pits, gravel

*Extent:* 35 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 0 to 45 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:*

*Soil loss tolerance (T factor):*

*Wind erodibility group (WEG):*

*Wind erodibility index (WEI):*

*Kw factor (surface layer)*

*Land capability, nonirrigated*

*Hydric soil:*

*Hydrologic group:*

*Potential for frost action:*

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

Lac qui Parle County, Minnesota

### 1051--Glencoe silty clay loam, ponded

#### Glencoe, ponded

*Extent:* 85 percent of the unit

*Landform(s):* depressions

*Slope gradient:* 0 to 1 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* frequent

*Drainage class:* very poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 8

*Wind erodibility index (WEI):* 0

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 8w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 45 in	silty clay loam	moderate	8.08 to 9.87 in	6.1 to 7.3
2Bg -- 45 to 57 in	clay loam	moderate	1.83 to 2.32 in	6.6 to 7.3
2Cg -- 57 to 60 in	loam	moderate	0.41 to 0.52 in	7.4 to 7.8

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 1106C--Storden-Hawick-Ves complex, 6 to 12 percent slopes, eroded

#### Storden, moderately eroded

*Extent:* 35 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 5 in	loam	moderate	1.02 to 1.13 in	7.4 to 8.4
Bk -- 5 to 60 in	loam	moderate	8.21 to 10.40 in	7.4 to 8.4

#### Hawick

*Extent:* 30 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* excessively drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 5

*Wind erodibility index (WEI):* 56

*Kw factor (surface layer)* .17

*Land capability, nonirrigated* 4s

*Hydric soil:* no

*Hydrologic group:* A

*Potential for frost action:* low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	gravelly sandy loam	rapid	0.27 to 1.18 in	7.4 to 7.8
Bw -- 9 to 20 in	gravelly loamy coarse sand	rapid	0.33 to 1.10 in	7.4 to 7.8
C -- 20 to 60 in	gravelly coarse sand	rapid	0.80 to 2.39 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 1106C--Storden-Hawick-Ves complex, 6 to 12 percent slopes, eroded

#### Ves, moderately eroded

*Extent:* 25 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	loam	moderate	1.34 to 1.73 in	6.1 to 7.3
Bw -- 8 to 23 in	loam	moderate	2.24 to 2.84 in	6.6 to 7.3
Bk -- 23 to 60 in	loam	moderate	5.55 to 7.03 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 1107D--Sisseton-Sioux-Heimdal complex, 6 to 18 percent slopes, eroded

#### Sisseton, moderately eroded

*Extent:* 35 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 18 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 5

*Wind erodibility index (WEI):* 56

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 4e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 5 in	loam	moderate	0.82 to 0.92 in	7.4 to 8.4
Bk -- 5 to 31 in	loam	moderate	4.16 to 5.20 in	7.4 to 8.4
C -- 31 to 60 in	stratified sandy loam to silt loam	moderate	4.02 to 5.46 in	7.4 to 8.4

#### Sioux

*Extent:* 25 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 18 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*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 factor (surface layer)* .17

*Land capability, nonirrigated* 6s

*Hydric soil:* no

*Hydrologic group:* A

*Potential for frost action:* low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 7 in	gravelly loam	moderately rapid	0.71 to 1.06 in	7.4 to 8.4
C1 -- 7 to 29 in	gravelly loamy sand	moderately rapid	2.20 to 3.31 in	7.4 to 8.4
C2 -- 29 to 60 in	very gravelly sand	rapid	0.92 to 1.84 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 1107D--Sisseton-Sioux-Heimdal complex, 6 to 18 percent slopes, eroded

#### Heimdal, moderately eroded

*Extent:* 20 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 18 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 5

*Wind erodibility index (WEI):* 56

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 4e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 7 in	loam	moderate	1.42 to 1.56 in	6.1 to 7.3
Bw -- 7 to 21 in	sandy loam	moderate	1.65 to 2.62 in	6.1 to 7.3
Bk,C -- 21 to 60 in	loam	moderate	4.29 to 7.41 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 1108--Harps-Glencoe-Seaforth complex

#### Harps

*Extent:* 35 percent of the unit

*Landform(s):* flats

*Slope gradient:* 0 to 1 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,Ak -- 0 to 16 in	loam	moderate	3.07 to 3.39 in	7.9 to 8.4
Bkg -- 16 to 38 in	loam	moderate	3.75 to 4.19 in	7.9 to 8.4
Cg -- 38 to 60 in	loam	moderate	3.68 to 4.11 in	7.4 to 8.4

#### Glencoe

*Extent:* 25 percent of the unit

*Landform(s):* depressions

*Slope gradient:* 0 to 1 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* frequent

*Drainage class:* very poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 3w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	silty clay loam	moderate	1.77 to 2.17 in	6.1 to 7.3
A -- 10 to 30 in	silty clay loam	moderate	3.61 to 4.42 in	6.1 to 7.3
2Bg -- 30 to 57 in	clay loam	moderate	4.07 to 5.16 in	6.6 to 7.3
2Cg -- 57 to 60 in	loam	moderate	0.41 to 0.52 in	7.4 to 7.8

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 1108--Harps-Glencoe-Seaforth complex

#### Seaforth

*Extent:* 20 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 1 to 3 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2s

*Hydric soil:* no

*Hydrologic group:* C

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	clay loam	moderate	1.54 to 2.17 in	7.4 to 8.4
Bk -- 9 to 30 in	loam	moderate	3.13 to 3.96 in	7.4 to 8.4
C -- 30 to 60 in	loam	moderate	5.09 to 5.69 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 1222--Parle clay loam

#### Parle

*Extent:* 80 percent of the unit

*Landform(s):* flats

*Slope gradient:* 0 to 2 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 4

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* C/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	clay loam	moderately slow	1.54 to 1.72 in	7.4 to 8.4
A -- 9 to 26 in	clay loam	moderate	2.88 to 3.72 in	7.4 to 8.4
Bkg1 -- 26 to 34 in	loam	moderate	1.18 to 1.50 in	7.4 to 8.4
Bkg2,Bkg3 -- 34 to 50 in	silt loam	moderate	2.42 to 3.55 in	7.4 to 8.4
2Cg -- 50 to 60 in	loamy fine sand	rapid	0.79 to 0.98 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 1233B--Esmond-Heimdal complex, 2 to 6 percent slopes

#### Esmond

*Extent:* 50 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 3 to 6 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .37

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	7.4 to 8.4
Bk,C -- 9 to 60 in	loam	moderate	7.11 to 11.17 in	7.4 to 8.4

#### Heimdal

*Extent:* 35 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 2 to 6 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 5

*Wind erodibility index (WEI):* 56

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	6.1 to 7.3
Bw -- 9 to 25 in	sandy loam	moderate	1.94 to 3.07 in	6.1 to 7.3
Bk,C -- 25 to 60 in	loam	moderate	3.81 to 6.58 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 1266C--Yellowbank-Rock outcrop complex, 1 to 25 percent slopes

#### Yellowbank

*Extent:* 60 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 1 to 25 percent

*Parent material:* alluvium

*Restrictive feature(s):* lithic bedrock at 10 to 30 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* somewhat excessively drained

*Soil loss tolerance (T factor):* 2

*Wind erodibility group (WEG):* 5

*Wind erodibility index (WEI):* 56

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 6e

*Hydric soil:* no

*Hydrologic group:* D

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 12 in	loam	moderate	2.36 to 2.60 in	5.1 to 7.3
Bw -- 12 to 16 in	loam	moderately rapid	0.52 to 0.95 in	5.1 to 7.8
R -- 16 to 26 in	unweathered bedrock	very slow		

#### Rock outcrop

*Extent:* 25 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 1 to 25 percent

*Parent material:*

*Restrictive feature(s):* lithic bedrock at 0 to 4 inches

*Flooding:* none

*Ponding:* none

*Drainage class:*

*Soil loss tolerance (T factor):*

*Wind erodibility group (WEG):*

*Wind erodibility index (WEI):*

*Kw factor (surface layer)*

*Land capability, nonirrigated* 8s

*Hydric soil:* unranked

*Hydrologic group:*

*Potential for frost action:*

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
R -- 0 to 60 in	unweathered bedrock	very slow		

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 1295B--Doland silt loam, 2 to 4 percent slopes, moderately wet

#### Doland, moderately wet

*Extent:* 80 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 2 to 4 percent

*Parent material:* lacustrine deposits over till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* C

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	silt loam	moderate	1.57 to 1.89 in	6.1 to 7.3
Bw -- 8 to 23 in	silt loam	moderate	2.54 to 3.59 in	6.1 to 7.3
Bk1,2Bk2 -- 23 to 42 in	loam	moderate	2.89 to 3.67 in	7.4 to 8.4
2Bk3 -- 42 to 60 in	clay loam	moderate	2.48 to 3.37 in	7.4 to 8.4

### 1296--Swenoda sandy loam, 0 to 2 percent slopes, moderately wet

#### Swenoda, moderately wet

*Extent:* 75 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 0 to 2 percent

*Parent material:* outwash over till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .17

*Land capability, nonirrigated* 2s

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 16 in	sandy loam	moderately rapid	1.78 to 2.74 in	6.1 to 7.3
Bw -- 16 to 21 in	sandy loam	moderately rapid	0.52 to 0.80 in	6.6 to 7.3
2Bk -- 21 to 60 in	loam	moderate	6.63 to 7.80 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 1309C--Buse-Doland complex, 6 to 12 percent slopes, eroded

#### Buse, moderately eroded

*Extent:* 45 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	loam	moderate	1.34 to 1.73 in	7.4 to 8.4
Bk -- 8 to 60 in	loam	moderate	7.28 to 9.87 in	7.4 to 8.4

#### Doland, moderately eroded

*Extent:* 35 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* lacustrine deposits over till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	silt loam	moderate	2.17 to 2.54 in	6.1 to 7.3
Bw -- 9 to 18 in	silt loam	moderate	1.54 to 1.99 in	6.1 to 7.3
2Bk -- 18 to 60 in	clay loam	moderate	5.84 to 7.93 in	6.6 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

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### 1356--Water, miscellaneous

#### Water, miscellaneous

*Extent:* 100 percent of the unit

*Landform(s):*

*Slope gradient:*

*Parent material:*

*Restrictive feature(s):* greater than 60 inches

*Flooding:*

*Ponding:*

*Drainage class:*

*Soil loss tolerance (T factor):*

*Wind erodibility group (WEG):*

*Wind erodibility index (WEI):*

*Kw factor (surface layer)*

*Land capability, nonirrigated*

*Hydric soil:*

*Hydrologic group:*

*Potential for frost action:*

*Representative soil profile:*

*Texture*

*Permeability*

*Available water  
capacity*

*pH*

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 1865C--Buse-Barnes complex, 2 to 12 percent slopes, extremely stony

#### Buse, extremely stony

*Extent:* 55 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 3 to 12 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 6s

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 8 in	loam	moderate	1.34 to 1.73 in	7.4 to 8.4
Bk -- 8 to 60 in	loam	moderate	7.28 to 9.87 in	7.4 to 8.4

#### Barnes, extremely stony

*Extent:* 30 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 2 to 12 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 6s

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 15 in	loam	moderate	2.69 to 3.59 in	6.1 to 7.3
Bw -- 15 to 22 in	loam	moderate	1.06 to 1.35 in	6.1 to 7.3
Bk,C -- 22 to 60 in	loam	moderate	5.29 to 7.18 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 1865F--Buse loam, 12 to 40 percent slopes, extremely stony

#### Buse, extremely stony

*Extent:* 70 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 12 to 40 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 7s

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 7 in	loam	moderate	1.20 to 1.56 in	7.4 to 8.4
Bk -- 7 to 60 in	loam	moderate	7.39 to 10.02 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 1870--Burr-Calco complex, occasionally flooded

#### Burr, occasionally flooded

*Extent:* 50 percent of the unit

*Landform(s):* flood plains

*Slope gradient:* 0 to 2 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* occasional

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* C/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	silty clay loam	moderate	1.63 to 1.99 in	7.4 to 8.4
Aky,Ay,A,ACg -- 9 to 45 in	silty clay loam	moderately slow	4.66 to 6.81 in	7.4 to 8.4
Cg -- 45 to 60 in	stratified silt loam to clay	moderately slow	1.35 to 3.29 in	7.4 to 8.4

#### Calco, occasionally flooded

*Extent:* 30 percent of the unit

*Landform(s):* flood plains

*Slope gradient:* 0 to 2 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* occasional

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 30 in	silty clay loam	moderate	6.28 to 6.88 in	7.4 to 8.4
Bg -- 30 to 51 in	silty clay loam	moderate	4.46 to 4.89 in	7.4 to 8.4
Cg -- 51 to 60 in	silty clay loam	moderate	1.56 to 1.73 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### 1938--Lakepark loam

#### Lakepark

*Extent:* 70 percent of the unit

*Landform(s):* swales

*Slope gradient:* 1 to 3 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	loam	moderate	1.87 to 2.07 in	6.1 to 7.3
A -- 10 to 26 in	clay loam	moderate	3.07 to 3.39 in	6.1 to 7.3
Bg -- 26 to 37 in	loam	moderate	1.65 to 2.09 in	6.6 to 7.3
Bkg -- 37 to 60 in	loam	moderate	3.20 to 4.34 in	7.4 to 8.4

### 1994--Embden sandy loam

#### Embden

*Extent:* 75 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 0 to 2 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .17

*Land capability, nonirrigated* 2s

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 17 in	sandy loam	moderately rapid	2.20 to 3.05 in	6.1 to 7.3
Bw -- 17 to 60 in	sandy loam	moderately rapid	5.15 to 7.30 in	6.6 to 7.8

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### L84A--Glencoe clay loam, depressional, 0 to 1 percent slopes

#### Glencoe, depressional

*Extent:* 75 to 100 percent of the unit

*Landform(s):* depressions on moraines

*Slope gradient:* 0 to 1 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* frequent

*Drainage class:* very poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 3w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 24 in	clay loam	moderate	4.32 to 5.28 in	6.1 to 7.8
ABg -- 24 to 35 in	clay loam	moderate	1.98 to 2.43 in	6.1 to 7.8
Bg -- 35 to 48 in	loam	moderate	1.95 to 2.47 in	6.6 to 7.8
Cg -- 48 to 60 in	loam	moderate	1.77 to 2.24 in	7.4 to 8.4

## Map Unit Description (MN)

Lac qui Parle County, Minnesota

### L201A--Normania loam, 0 to 3 percent slopes

#### Normania

*Extent:* 75 to 90 percent of the unit

*Landform(s):* flats on moraines, rises on moraines

*Slope gradient:* 0 to 3 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* somewhat poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 1

*Hydric soil:* no

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A,AB -- 0 to 17 in	loam	moderate	3.39 to 3.72 in	6.1 to 7.3
Bw -- 17 to 26 in	loam	moderate	1.36 to 1.72 in	6.6 to 7.3
Bk -- 26 to 50 in	loam	moderate	3.60 to 4.56 in	7.4 to 8.4
Cg -- 50 to 60 in	loam	moderate	1.48 to 1.87 in	7.4 to 8.4

### W--Water

#### Water

*Extent:* 100 percent of the unit

*Landform(s):*

*Slope gradient:*

*Parent material:*

*Restrictive feature(s):* greater than 60 inches

*Flooding:*

*Ponding:*

*Drainage class:*

*Soil loss tolerance (T factor):*

*Wind erodibility group (WEG):*

*Wind erodibility index (WEI):*

*Kw factor (surface layer)*

*Land capability, nonirrigated*

*Hydric soil:*

*Hydrologic group:*

*Potential for frost action:*

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

Lac qui Parle County, Minnesota

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