

Map Unit Description (MN)

Big Stone County, Minnesota

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

26--Aazdahl clay loam

Aazdahl

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 0 to 3 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

glacial till *Kw (surface layer):* .24

Land capability class, nonirrigated: 1

Hydric soil: no

Hydrologic group: B

Potential frost action: high

Representative soil profile:

		<i>Texture</i>
Ap,Bw1 --	0 to 11 in	clay loam
Bw2 --	11 to 15 in	clay loam
Bk --	15 to 24 in	clay loam
C --	24 to 60 in	clay loam

Texture

Permeability

moderate
moderately slow
moderately slow
moderately slow

Available water

capacity

1.9 to 2.1 in
0.7 to 0.7 in
1.3 to 1.5 in
5.0 to 6.1 in

pH

6.6 to 7.3
6.6 to 7.8
7.4 to 8.4
7.4 to 8.4

34--Parnell silty clay loam

Parnell

Extent: 85 percent of the unit

Landform(s): depressions on moraines

Slope gradient: 0 to 1 percent

Parent material:

layer): .37

Restrictive feature(s):

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

local alluvium over glacial till *Kw (surface*

Land capability class, nonirrigated: 3w

Hydric soil: yes

Hydrologic group: C/D

Potential frost action: high

Representative soil profile:

		<i>Texture</i>
Ap,A --	0 to 20 in	silty clay loam
Btg --	20 to 50 in	silty clay
Cg --	50 to 60 in	silty clay loam

Texture

Permeability

moderately slow
slow
slow

Available water

capacity

3.6 to 4.4 in
3.9 to 5.7 in
1.1 to 1.9 in

pH

6.1 to 7.8
6.1 to 7.8
6.6 to 8.4

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36--Flom silty clay loam

Flom

<p><i>Extent:</i> 85 percent of the unit <i>Landform(s):</i> flats on moraines <i>Slope gradient:</i> 0 to 2 percent <i>Parent material:</i> layer): .28 <i>Restrictive feature(s):</i> <i>Flooding:</i> none <i>Ponding:</i> none <i>Drainage class:</i> poorly drained</p>	<p><i>Soil loss tolerance (T factor):</i> 5 <i>Wind erodibility group (WEG):</i> 7 <i>Wind erodibility index (WEI):</i> 38 local alluvium over glacial till <i>Kw (surface</i> <i>Land capability class, nonirrigated:</i> 2w <i>Hydric soil:</i> yes <i>Hydrologic group:</i> B/D <i>Potential frost action:</i> high</p>
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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 14 in	silty clay loam	moderately slow	2.6 to 3.1 in	6.1 to 7.8
Bg -- 14 to 20 in	clay loam	moderately slow	0.9 to 1.1 in	6.6 to 8.4
Cg -- 20 to 60 in	clay loam	moderately slow	5.6 to 7.6 in	7.4 to 8.4

51--La Prairie silt loam

La Prairie

<p><i>Extent:</i> 85 percent of the unit <i>Landform(s):</i> flood plains <i>Slope gradient:</i> 0 to 2 percent <i>Parent material:</i> <i>Restrictive feature(s):</i> <i>Flooding:</i> occasional <i>Ponding:</i> none <i>Drainage class:</i> moderately well drained</p>	<p><i>Soil loss tolerance (T factor):</i> 5 <i>Wind erodibility group (WEG):</i> 6 <i>Wind erodibility index (WEI):</i> 48 alluvium <i>Kw (surface layer):</i> .24 <i>Land capability class, nonirrigated:</i> 1 <i>Hydric soil:</i> no <i>Hydrologic group:</i> B <i>Potential frost action:</i> moderate</p>
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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	silt loam	moderate	1.3 to 1.7 in	6.6 to 8.4
A -- 8 to 16 in	silt loam	moderate	1.4 to 1.8 in	6.6 to 8.4
Bw -- 16 to 29 in	silt loam	moderate	1.9 to 2.9 in	6.6 to 8.4
C -- 29 to 60 in	stratified fine sandy loam to silty clay loam	moderate	4.6 to 6.8 in	6.6 to 8.4

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60--Glyndon silty clay loam

Glyndon

Extent: 85 percent of the unit

Landform(s): lake plains

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

lacustrine sediments *Kw (surface layer):* .28

Land capability class, nonirrigated: 2s

Hydric soil: no

Hydrologic group: B

Potential frost action: high

Representative soil profile:

Texture

Ap,A --	0 to 11 in	silty clay loam
Bk --	11 to 24 in	silt loam
C --	24 to 60 in	very fine sandy loam

Available water

<i>Permeability</i>	<i>capacity</i>	<i>pH</i>
moderate	2.0 to 2.4 in	7.4 to 9.0
moderately rapid	2.2 to 2.6 in	7.4 to 9.0
moderately rapid	5.4 to 6.8 in	7.4 to 9.0

70--Svea loam

Svea

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 0 to 3 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

glacial till *Kw (surface layer):* .24

Land capability class, nonirrigated: 1

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

Representative soil profile:

Texture

Ap,A --	0 to 13 in	loam
Bw --	13 to 17 in	loam
Bk,C --	17 to 60 in	loam

Available water

<i>Permeability</i>	<i>capacity</i>	<i>pH</i>
moderate	2.3 to 2.6 in	6.1 to 7.8
moderate	0.7 to 0.9 in	6.6 to 7.8
moderate	6.0 to 8.2 in	7.4 to 8.4

127B--Sverdrup fine sandy loam, 1 to 6 percent slopes

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Tabular Data Version: 3

Tabular Data Version Date: 09/26/2005

Page 3 of 37

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127B--Sverdrup fine sandy loam, 1 to 6 percent slopes

Sverdrup

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 1 to 6 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

glacial outwash *Kw (surface layer):* .20

Land capability class, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential frost action: low

Representative soil profile:

Texture

Ap --	0 to 8 in	fine sandy loam
Bw --	8 to 18 in	sandy loam
C --	18 to 60 in	sand

Available water

<i>Permeability</i>	<i>capacity</i>	<i>pH</i>
moderately rapid	1.0 to 1.2 in	6.1 to 7.3
moderately rapid	0.8 to 1.4 in	6.1 to 7.8
rapid	0.8 to 2.5 in	7.4 to 8.4

137--Dovray silty clay

Dovray

Extent: 85 percent of the unit

Landform(s): depressions on moraines

Slope gradient: 0 to 1 percent

Parent material:

layer): .28

Restrictive feature(s):

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4

Wind erodibility index (WEI): 86

glacial lacustrine sediments *Kw (surface*

Land capability class, nonirrigated: 3w

Hydric soil: yes

Hydrologic group: C/D

Potential frost action: moderate

Representative soil profile:

Texture

Ap --	0 to 8 in	silty clay
A --	8 to 24 in	silty clay
Bg --	24 to 36 in	silty clay
Cg --	36 to 60 in	silty clay loam

Available water

<i>Permeability</i>	<i>capacity</i>	<i>pH</i>
moderately slow	1.1 to 1.4 in	6.1 to 7.8
moderately slow	2.1 to 2.6 in	6.1 to 7.8
moderately slow	1.5 to 1.9 in	6.6 to 7.8
slow	3.1 to 4.6 in	6.6 to 8.4

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

Egeland

Extent: 85 percent of the unit
Landform(s): outwash plains
Slope gradient: 0 to 2 percent
Parent material:
 .20
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
 glaciofluvial sediments *Kw (surface layer):*

Land capability class, nonirrigated: 3s
Hydric soil: no
Hydrologic group: B
Potential frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	fine sandy loam	moderately rapid	0.9 to 1.3 in	5.6 to 7.3
Bw -- 8 to 32 in	sandy loam	moderately rapid	2.2 to 3.6 in	6.1 to 7.8
C -- 32 to 60 in	loamy fine sand	moderately rapid	2.2 to 2.8 in	6.6 to 8.4

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

Egeland

Extent: 85 percent of the unit
Landform(s): outwash plains
Slope gradient: 2 to 6 percent
Parent material:
 .20
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
 glaciofluvial sediments *Kw (surface layer):*

Land capability class, nonirrigated: 3e
Hydric soil: no
Hydrologic group: B
Potential frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	fine sandy loam	moderately rapid	0.9 to 1.3 in	5.6 to 7.3
Bw -- 8 to 27 in	fine sandy loam	moderately rapid	1.7 to 2.8 in	6.1 to 7.8
C -- 27 to 60 in	loamy sand	moderately rapid	2.6 to 3.3 in	6.6 to 8.4

171B--Formdale clay loam, 2 to 4 percent slopes

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171B--Formdale clay loam, 2 to 4 percent slopes

Formdale

Extent: 85 percent of the unit
Landform(s): moraines
Slope gradient: 2 to 4 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

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

Representative soil profile:

	Texture
Ap,A -- 0 to 10 in	clay loam
Bw -- 10 to 14 in	clay loam
Bk -- 14 to 24 in	clay loam
C -- 24 to 60 in	clay loam

Texture

Permeability	Available water	
	capacity	pH
moderate	1.7 to 1.9 in	6.1 to 7.3
moderately slow	0.7 to 0.8 in	6.6 to 7.8
moderately slow	1.4 to 1.9 in	7.4 to 8.4
moderately slow	5.0 to 6.8 in	7.4 to 8.4

180--Gonvick loam

Gonvick

Extent: 85 percent of the unit
Landform(s): moraines
Slope gradient: 1 to 2 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: moderately well drained

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

Representative soil profile:

	Texture
Ap -- 0 to 8 in	loam
Bt -- 8 to 25 in	clay loam
Bk,C -- 25 to 60 in	clay loam

Texture

Permeability	Available water	
	capacity	pH
moderate	1.6 to 1.7 in	6.1 to 7.3
moderate	2.6 to 3.3 in	6.6 to 7.3
moderate	5.2 to 6.6 in	7.4 to 8.4

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184A--Hamerly loam, 1 to 3 percent slopes

Hamerly

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 1 to 3 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

glacial till *Kw (surface layer):* .24

Land capability class, nonirrigated: 2s

Hydric soil: no

Hydrologic group: B

Potential frost action: high

Representative soil profile:

Texture

Ap --	0 to 8 in	loam
Bk --	8 to 28 in	clay loam
C --	28 to 60 in	clay loam

<i>Permeability</i>	<i>Available water</i>	
	<i>capacity</i>	<i>pH</i>
moderate	1.4 to 1.9 in	6.6 to 8.4
moderate	3.0 to 3.8 in	7.4 to 8.4
moderately slow	4.5 to 6.1 in	7.4 to 8.4

184B--Hamerly loam, 3 to 6 percent slopes

Hamerly

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 3 to 6 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

glacial till *Kw (surface layer):* .24

Land capability class, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential frost action: high

Representative soil profile:

Texture

Ap --	0 to 8 in	loam
Bk --	8 to 20 in	clay loam
C --	20 to 60 in	clay loam

<i>Permeability</i>	<i>Available water</i>	
	<i>capacity</i>	<i>pH</i>
moderate	1.4 to 1.9 in	6.6 to 8.4
moderate	1.8 to 2.3 in	7.4 to 8.4
moderately slow	5.6 to 7.6 in	7.4 to 8.4

185B--Hattie silty clay, 1 to 4 percent slopes

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Tabular Data Version Date: 09/26/2005

Page 7 of 37

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185B--Hattie silty clay, 1 to 4 percent slopes

Hattie

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 1 to 4 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4

Wind erodibility index (WEI): 86

glacial till *Kw (surface layer):* .28

Land capability class, nonirrigated: 2s

Hydric soil: no

Hydrologic group: C

Potential frost action: moderate

Representative soil profile:

Texture

Ap --	0 to 9 in	silty clay
Bw,Bk,C --	9 to 60 in	silty clay

Permeability

Available water capacity

pH

slow	1.4 to 2.0 in	7.4 to 8.4
slow	6.1 to 8.1 in	7.4 to 8.4

185C--Hattie silty clay, 4 to 10 percent slopes

Hattie

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 4 to 10 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4

Wind erodibility index (WEI): 86

glacial till *Kw (surface layer):* .28

Land capability class, nonirrigated: 3e

Hydric soil: no

Hydrologic group: C

Potential frost action: moderate

Representative soil profile:

Texture

Ap --	0 to 8 in	silty clay
Bw,Bk,C --	8 to 60 in	silty clay

Permeability

Available water capacity

pH

slow	1.3 to 1.7 in	7.4 to 8.4
slow	6.2 to 8.3 in	7.4 to 8.4

192A--Estelline silt loam, 0 to 2 percent slopes

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192A--Estelline silt loam, 0 to 2 percent slopes

Estelline

Extent: 85 percent of the unit
Landform(s): outwash plains
Slope gradient: 0 to 2 percent
Parent material:
Kw (surface layer):
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 4
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
 lacustrine sediments over glacial outwash
 .28
Land capability class, nonirrigated: 2s
Hydric soil: no
Hydrologic group: B
Potential frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	silt loam	moderate	1.5 to 1.7 in	6.1 to 7.3
Bw -- 8 to 22 in	silt loam	moderate	2.6 to 3.0 in	6.1 to 7.8
Bk -- 22 to 28 in	silty clay loam	moderate	0.9 to 1.2 in	7.4 to 8.4
C -- 28 to 60 in	gravelly sand	very rapid	1.0 to 1.9 in	7.4 to 8.4

192B--Estelline silt loam, 2 to 6 percent slopes

Estelline

Extent: 85 percent of the unit
Landform(s): outwash plains
Slope gradient: 2 to 6 percent
Parent material:
Kw (surface layer):
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 4
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
 lacustrine sediments over glacial outwash
 .28
Land capability class, nonirrigated: 2e
Hydric soil: no
Hydrologic group: B
Potential frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	silt loam	moderate	1.5 to 1.7 in	6.1 to 7.3
Bw -- 8 to 18 in	silt loam	moderate	1.8 to 2.1 in	6.1 to 7.8
Bk -- 18 to 24 in	silt loam	moderate	0.9 to 1.2 in	7.4 to 8.4
C -- 24 to 60 in	gravelly sand	very rapid	1.1 to 2.1 in	7.4 to 8.4

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192B--Estelline silt loam, 2 to 6 percent slopes

210--Fulda silty clay

Fulda

Extent: 85 percent of the unit
Landform(s): flats on moraines
Slope gradient: 0 to 2 percent
Parent material:
layer): .28
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: poorly drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4
Wind erodibility index (WEI): 86
 glaciolacustrine sediments *Kw (surface*

Land capability class, nonirrigated: 2w
Hydric soil: yes
Hydrologic group: C/D
Potential frost action: high

Representative soil profile:

		<i>Texture</i>
Ap,A --	0 to 13 in	silty clay
Bg --	13 to 22 in	silty clay
Cg --	22 to 60 in	silty clay

Texture

Permeability

Available water

capacity

pH

slow	1.8 to 2.6 in	6.6 to 7.3
slow	1.2 to 1.4 in	7.4 to 8.4
slow	6.0 to 7.2 in	7.4 to 8.4

236--Vallers clay loam

Vallers

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

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

Representative soil profile:

		<i>Texture</i>
Ap,A --	0 to 13 in	clay loam
Bkg --	13 to 26 in	clay loam
Cg --	26 to 60 in	clay loam

Texture

Permeability

Available water

capacity

pH

moderately slow	2.3 to 2.9 in	7.4 to 8.4
moderately slow	1.9 to 2.5 in	7.4 to 8.4
moderately slow	5.8 to 6.4 in	7.4 to 8.4

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236--Vallers clay loam

246--Marysland clay loam

Marysland

Extent: 85 percent of the unit

Landform(s): flats on moraines

Slope gradient: 0 to 2 percent

Parent material:

(surface layer): .24
outwash

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

glaciolacustrine sediments over glacial *Kw*

Land capability class, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: B/D

Potential frost action: high

Representative soil profile:

Texture

Ap,Ak --	0 to 18 in	clay loam
Bkg,Cg --	18 to 38 in	loam
2Cg --	38 to 60 in	stratified gravelly coarse sand to fine sand

Permeability

Available water

capacity

pH

moderate	3.1 to 4.0 in	7.4 to 8.4
moderate	3.0 to 3.7 in	7.4 to 8.4
rapid	0.4 to 1.5 in	7.4 to 8.4

276--Oldham silty clay

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276--Oldham silty clay

Oldham

Extent: 85 percent of the unit

Landform(s): depressions on moraines

Slope gradient: 0 to 1 percent

Parent material:

layer): .28

Restrictive feature(s):

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4

Wind erodibility index (WEI): 86

glaciolacustrine sediments *Kw (surface*

Land capability class, nonirrigated: 3w

Hydric soil: yes

Hydrologic group: C/D

Potential frost action: high

Representative soil profile:

Texture

Ap,A --	0 to 22 in	silty clay
Bg --	22 to 30 in	silty clay
Cg --	30 to 60 in	silty clay loam

Permeability

Available water

capacity

pH

slow	2.9 to 4.2 in	6.6 to 7.8
moderately slow	1.1 to 1.6 in	7.4 to 8.4
moderately slow	4.2 to 6.0 in	7.4 to 8.4

288D--Esmond loam, 12 to 18 percent slopes

Esmond

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 12 to 18 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

glacial till *Kw (surface layer):* .28

Land capability class, nonirrigated: 7e

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

Representative soil profile:

Texture

Ap --	0 to 10 in	loam
Bk,C --	10 to 60 in	loam

Permeability

Available water

capacity

pH

moderate	2.0 to 2.2 in	7.4 to 8.4
moderate	7.0 to 11.0 in	7.4 to 8.4

293A--Swenoda sandy loam, 0 to 2 percent slopes

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

Tabular Data Version: 3
Tabular Data Version Date: 09/26/2005

Page 12 of 37

Map Unit Description (MN)

Big Stone 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]

293A--Swenoda sandy loam, 0 to 2 percent slopes

Swenoda

Extent: 85 percent of the unit
Landform(s): moraines
Slope gradient: 0 to 2 percent
Parent material:
 layer): .20
Restrictive feature(s):
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
 glaciofluvial sediments over till *Kw (surface*

Land capability class, nonirrigated: 2s
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

Representative soil profile:

Texture

Ap,A --	0 to 14 in	sandy loam
Bw --	14 to 33 in	sandy loam
2Bk,2C --	33 to 60 in	loam

Permeability

Available water

capacity

pH

moderately rapid	1.6 to 2.4 in	6.1 to 7.3
moderately rapid	2.1 to 3.2 in	6.6 to 7.8
moderate	4.6 to 5.4 in	7.4 to 8.4

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

Swenoda

Extent: 85 percent of the unit
Landform(s): moraines
Slope gradient: 2 to 6 percent
Parent material:
 layer): .20
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
 glaciofluvial sediments over till *Kw (surface*

Land capability class, nonirrigated: 2e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

Representative soil profile:

Texture

Ap --	0 to 8 in	sandy loam
Bw --	8 to 25 in	sandy loam
2Bk,2C --	25 to 60 in	loam

Permeability

Available water

capacity

pH

moderately rapid	0.9 to 1.3 in	6.1 to 7.3
moderately rapid	1.9 to 2.9 in	6.6 to 7.8
moderate	5.9 to 6.9 in	7.4 to 8.4

296B--Fram loam, 1 to 4 percent slopes

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

Map Unit Description (MN)

Big Stone 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]

296B--Fram loam, 1 to 4 percent slopes

Fram

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 1 to 4 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

glacial till *Kw (surface layer):* .28

Land capability class, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential frost action: high

Representative soil profile:

Texture

Ap -- 0 to 8 in loam
Bk,C -- 8 to 60 in loam

Permeability

moderate
moderate

Available water

capacity

1.6 to 1.9 in
6.8 to 10.4 in

pH

7.4 to 8.4
7.4 to 8.4

314--Spottswood loam

Spottswood

Extent: 85 percent of the unit

Landform(s): outwash plains

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

glacial outwash *Kw (surface layer):* .24

Land capability class, nonirrigated: 2s

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

Representative soil profile:

Texture

Ap -- 0 to 8 in loam
Bw -- 8 to 32 in loam
2C -- 32 to 60 in very gravelly sand

Permeability

moderate
moderate
very rapid

Available water

capacity

1.4 to 1.7 in
4.3 to 5.3 in
0.8 to 1.7 in

pH

6.1 to 7.3
6.6 to 8.4
7.4 to 8.4

339--Fordville loam

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

Tabular Data Version: 3
Tabular Data Version Date: 09/26/2005

Page 14 of 37

Map Unit Description (MN)

Big Stone 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]

339--Fordville loam

Fordville

Extent: 85 percent of the unit

Landform(s): outwash plains, stream terraces

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

glacial outwash *Kw (surface layer):* .24

Land capability class, nonirrigated: 2s

Hydric soil: no

Hydrologic group: B

Potential frost action: low

Representative soil profile:

Texture

Ap --	0 to 8 in	loam
Bw --	8 to 26 in	loam
BC --	26 to 33 in	loam
2C --	33 to 60 in	gravelly loamy sand

Available water

<i>Permeability</i>	<i>capacity</i>	<i>pH</i>
moderate	1.4 to 1.6 in	6.1 to 7.3
moderate	3.3 to 3.8 in	6.1 to 7.8
moderately rapid	0.9 to 1.3 in	6.1 to 8.4
very rapid	0.8 to 1.6 in	7.4 to 8.4

341--Arvilla loam

Arvilla

Extent: 90 percent of the unit

Landform(s): outwash plains, stream terraces

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

glacial outwash *Kw (surface layer):* .28

Land capability class, nonirrigated: 3s

Hydric soil: no

Hydrologic group: B

Potential frost action: low

Representative soil profile:

Texture

Ap --	0 to 10 in	loam
Bw --	10 to 15 in	sandy loam
2Bw,2C --	15 to 60 in	very gravelly coarse sand

Available water

<i>Permeability</i>	<i>capacity</i>	<i>pH</i>
moderately rapid	1.6 to 1.8 in	6.1 to 8.4
moderately rapid	0.6 to 0.7 in	6.6 to 8.4
very rapid	0.9 to 2.2 in	7.4 to 8.4

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

Map Unit Description (MN)

Big Stone 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]

341--Arvilla loam

344--Bigstone silty clay loam

Bigstone

Extent: 85 percent of the unit

Landform(s): depressions on moraines

Slope gradient: 0 to 1 percent

Parent material:

Kw (surface layer):

Restrictive feature(s):

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

glaciolacustrine sediments over glacial till
.28

Land capability class, nonirrigated: 3w

Hydric soil: yes

Hydrologic group: B/D

Potential frost action: high

Representative soil profile:

Texture

Ap --	0 to 8 in	silty clay loam
A --	8 to 45 in	silty clay loam
2Cg --	45 to 60 in	clay loam

Permeability

moderately slow
moderate
moderate

Available water

capacity

1.4 to 1.7 in
5.9 to 8.1 in
2.1 to 2.8 in

pH

7.4 to 8.4
7.4 to 8.4
7.4 to 8.4

347--Malachy loam

Malachy

Extent: 85 percent of the unit

Landform(s): outwash plains

Slope gradient: 0 to 3 percent

Parent material:

Kw (surface layer):

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

glaciolacustrine sediments over outwash
.20

Land capability class, nonirrigated: 2s

Hydric soil: no

Hydrologic group: B

Potential frost action: high

Representative soil profile:

Texture

Ap,A --	0 to 19 in	loam
Bw,Bk --	19 to 33 in	loam
2C --	33 to 60 in	loamy fine sand

Permeability

moderate
moderately rapid
rapid

Available water

capacity

3.8 to 4.2 in
1.7 to 2.7 in
0.5 to 2.7 in

pH

7.4 to 8.4
7.4 to 8.4
7.4 to 8.4

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

Tabular Data Version: 3

Tabular Data Version Date: 09/26/2005

Page 16 of 37

Map Unit Description (MN)

Big Stone 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]

347--Malachy loam

373B--Renshaw loam, 0 to 6 percent slopes

Renshaw

Extent: 90 percent of the unit

Landform(s): outwash plains

Slope gradient: 0 to 6 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

glacial outwash Kw (surface layer): .28

Land capability class, nonirrigated: 4s

Hydric soil: no

Hydrologic group: B

Potential frost action: low

Representative soil profile:

Texture

A --	0 to 10 in	loam
Bw --	10 to 17 in	gravelly loam
2C --	17 to 60 in	very gravelly sand

Available water

<i>Permeability</i>	<i>capacity</i>	<i>pH</i>
moderate	1.8 to 2.0 in	6.1 to 7.8
moderately rapid	0.8 to 1.3 in	6.6 to 8.4
very rapid	1.3 to 2.6 in	6.6 to 8.4

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

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

Map Unit Description (MN)

Big Stone 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]

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

Sioux

Extent: 90 percent of the unit

Landform(s): moraines, outwash plains

Slope gradient: 1 to 6 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

glacial outwashKw (surface layer): .28

Land capability class, nonirrigated: 6s

Hydric soil: no

Hydrologic group: A

Potential frost action: low

Representative soil profile:

Texture

Ap --	0 to 8 in	loam
AC --	8 to 12 in	gravelly loam
C --	12 to 60 in	very gravelly sand

Available water

<i>Permeability</i>	<i>capacity</i>	<i>pH</i>
moderate	1.3 to 1.6 in	6.6 to 8.4
moderately rapid	0.4 to 0.6 in	7.4 to 8.4
very rapid	1.4 to 2.9 in	7.4 to 8.4

402E--Sioux loam, 6 to 35 percent slopes

Sioux

Extent: 90 percent of the unit

Landform(s): moraines, outwash plains

Slope gradient: 6 to 35 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

glacial outwashKw (surface layer): .28

Land capability class, nonirrigated: 7s

Hydric soil: no

Hydrologic group: A

Potential frost action: low

Representative soil profile:

Texture

A --	0 to 8 in	loam
AC --	8 to 12 in	gravelly loam
C --	12 to 60 in	very gravelly sand

Available water

<i>Permeability</i>	<i>capacity</i>	<i>pH</i>
moderate	1.3 to 1.6 in	6.6 to 8.4
moderately rapid	0.4 to 0.6 in	7.4 to 8.4
very rapid	1.4 to 2.9 in	7.4 to 8.4

410--Athelwold silt loam

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

Tabular Data Version: 3

Tabular Data Version Date: 09/26/2005

Page 18 of 37

Map Unit Description (MN)

Big Stone 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]

410--Athelwold silt loam

Athelwold

Extent: 85 percent of the unit

Landform(s): outwash plains

Slope gradient: 0 to 2 percent

Parent material:

Kw (surface layer):

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

glaciolacustrine sediments over outwash
.28

Land capability class, nonirrigated: 1

Hydric soil: no

Hydrologic group: B

Potential frost action: high

Representative soil profile:

Texture

Ap --	0 to 8 in	silt loam
A --	8 to 18 in	silty clay loam
Bw --	18 to 25 in	silty clay loam
Bk --	25 to 35 in	silt loam
2C --	35 to 60 in	very gravelly sand

Permeability

Available water

capacity

pH

moderate	1.5 to 1.7 in	5.6 to 7.3
moderate	1.9 to 2.3 in	5.6 to 7.3
moderate	1.3 to 1.5 in	6.6 to 7.8
moderate	1.7 to 2.0 in	7.4 to 8.4
rapid	0.7 to 1.5 in	7.4 to 8.4

418--Lamoure silty clay loam

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

Map Unit Description (MN)

Big Stone 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]

418--Lamoure silty clay loam

Lamoure

Extent: 85 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 1 percent

Parent material:

Restrictive feature(s):

Flooding: occasional

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

alluvium *Kw (surface layer):* .28

Land capability class, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: B/D

Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	silty clay loam	moderate	1.5 to 1.7 in	7.4 to 8.4
A -- 8 to 36 in	silty clay loam	moderate	4.8 to 5.6 in	7.4 to 8.4
Cg1 -- 36 to 45 in	silty clay loam	moderate	1.5 to 1.8 in	7.4 to 8.4
Cg2 -- 45 to 60 in	stratified sandy loam to silty clay loam	moderate	1.3 to 2.7 in	7.4 to 8.4

437D--Buse clay loam, 12 to 18 percent slopes

Buse

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 12 to 18 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

glacial till *Kw (surface layer):* .28

Land capability class, nonirrigated: 4e

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	clay loam	moderately slow	1.3 to 1.7 in	6.6 to 8.4
Bk -- 8 to 13 in	loam	moderately slow	0.7 to 1.0 in	7.4 to 8.4
C -- 13 to 60 in	loam	moderately slow	6.6 to 8.9 in	7.4 to 8.4

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

Map Unit Description (MN)

Big Stone County, Minnesota

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

450--Rauville silty clay loam

Rauville

Extent: 85 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 1 percent

Parent material:

Restrictive feature(s):

Flooding: frequent

Ponding: none

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 8

Wind erodibility index (WEI): 0

alluvium *Kw (surface layer):* .28

Land capability class, nonirrigated: 8w

Hydric soil: yes

Hydrologic group: D

Potential frost action: high

Representative soil profile:

Texture

A -- 0 to 34 in silty clay loam
Cg -- 34 to 60 in silty clay loam

Permeability

moderate
moderate

Available water

capacity

6.4 to 7.4 in
4.4 to 5.2 in

pH

7.4 to 8.4
7.4 to 8.4

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

Darnen

Extent: 90 percent of the unit

Landform(s): moraines

Slope gradient: 1 to 6 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

colluvium *Kw (surface layer):* .28

Land capability class, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

Representative soil profile:

Texture

Ap,A -- 0 to 16 in loam
Bw -- 16 to 34 in loam
C -- 34 to 60 in loam

Permeability

moderate
moderate
moderate

Available water

capacity

3.2 to 3.9 in
2.7 to 3.4 in
3.6 to 4.9 in

pH

6.6 to 7.8
6.1 to 7.8
7.4 to 8.4

694B--Zell silt loam, 2 to 8 percent slopes

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

Tabular Data Version: 3

Tabular Data Version Date: 09/26/2005

Page 21 of 37

Map Unit Description (MN)

Big Stone 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]

694B--Zell silt loam, 2 to 8 percent slopes

Zell

Extent: 85 percent of the unit
Landform(s): lake plains
Slope gradient: 2 to 8 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4L
Wind erodibility index (WEI): 86
 lacustrine sediments *Kw (surface layer):* .32
Land capability class, nonirrigated: 3e
Hydric soil: no
Hydrologic group: B
Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	silt loam	moderate	1.5 to 1.7 in	6.6 to 8.4
Bk -- 8 to 16 in	silt loam	moderate	1.2 to 1.7 in	7.4 to 8.4
C -- 16 to 60 in	very fine sandy loam	moderate	6.6 to 8.7 in	7.4 to 9.0

698--Doran clay loam

Doran

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

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
 glacial till *Kw (surface layer):* .32
Land capability class, nonirrigated: 1
Hydric soil: no
Hydrologic group: C
Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	clay loam	moderately slow	1.4 to 1.8 in	6.6 to 7.3
Bt -- 8 to 20 in	clay loam	moderately slow	1.8 to 2.3 in	6.6 to 7.8
Bk -- 20 to 32 in	clay loam	slow	1.7 to 1.9 in	7.4 to 8.4
C -- 32 to 60 in	clay loam	moderate	3.9 to 4.5 in	7.4 to 8.4

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

Map Unit Description (MN)

Big Stone 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]

787--Fram-Vallers-Parnell complex

Fram

Extent: 45 percent of the unit

Landform(s): moraines

Slope gradient: 1 to 3 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

glacial till *Kw (surface layer):* .28

Land capability class, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential frost action: high

Representative soil profile:

Ap --	0 to 8 in	loam
Bk,C --	8 to 60 in	loam

Texture

Permeability

moderate
moderate

Available water

capacity *pH*

1.6 to 1.9 in	7.4 to 8.4
6.8 to 10.4 in	7.4 to 8.4

Vallers

Extent: 30 percent of the unit

Landform(s): rims on depressions

Slope gradient: 0 to 2 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

glacial till *Kw (surface layer):* .28

Land capability class, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: B/D

Potential frost action: high

Representative soil profile:

Ap,A --	0 to 13 in	clay loam
Bkg --	13 to 26 in	loam
Cg --	26 to 60 in	loam

Texture

Permeability

moderately slow
moderately slow
moderately slow

Available water

capacity *pH*

2.3 to 2.9 in	7.4 to 8.4
1.9 to 2.5 in	7.4 to 8.4
5.8 to 6.4 in	7.4 to 8.4

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

Map Unit Description (MN)

Big Stone 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]

787--Fram-Vallers-Parnell complex

Parnell

<p><i>Extent:</i> 25 percent of the unit</p> <p><i>Landform(s):</i> depressions on moraines</p> <p><i>Slope gradient:</i> 0 to 1 percent</p> <p><i>Parent material:</i></p> <p><i>layer):</i> .37</p> <p><i>Restrictive feature(s):</i></p> <p><i>Flooding:</i> none</p> <p><i>Ponding:</i> frequent</p> <p><i>Drainage class:</i> very poorly drained</p>	<p><i>Soil loss tolerance (T factor):</i> 5</p> <p><i>Wind erodibility group (WEG):</i> 7</p> <p><i>Wind erodibility index (WEI):</i> 38</p> <p>local alluvium over glacial till <i>Kw (surface</i></p> <p><i>Land capability class, nonirrigated:</i> 3w</p> <p><i>Hydric soil:</i> yes</p> <p><i>Hydrologic group:</i> C/D</p> <p><i>Potential frost action:</i> high</p>
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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 20 in	silty clay loam	moderately slow	3.6 to 4.4 in	6.1 to 7.8
Btg -- 20 to 50 in	silty clay	slow	3.9 to 5.7 in	6.1 to 7.8
Cg -- 50 to 60 in	silty clay loam	slow	1.1 to 1.9 in	6.6 to 8.4

814--Hamerly-Lindaas complex

Hamerly

<p><i>Extent:</i> 60 percent of the unit</p> <p><i>Landform(s):</i> moraines</p> <p><i>Slope gradient:</i> 1 to 3 percent</p> <p><i>Parent material:</i></p> <p><i>Restrictive feature(s):</i></p> <p><i>Flooding:</i> none</p> <p><i>Ponding:</i> none</p> <p><i>Drainage class:</i> somewhat poorly drained</p>	<p><i>Soil loss tolerance (T factor):</i> 5</p> <p><i>Wind erodibility group (WEG):</i> 4L</p> <p><i>Wind erodibility index (WEI):</i> 86</p> <p>glacial till <i>Kw (surface layer):</i> .24</p> <p><i>Land capability class, nonirrigated:</i> 2s</p> <p><i>Hydric soil:</i> no</p> <p><i>Hydrologic group:</i> B</p> <p><i>Potential frost action:</i> high</p>
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<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	loam	moderate	1.4 to 1.9 in	6.6 to 8.4
Bk -- 8 to 28 in	clay loam	moderate	3.0 to 3.8 in	7.4 to 8.4
C -- 28 to 60 in	clay loam	moderately slow	4.5 to 6.1 in	7.4 to 8.4

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

Map Unit Description (MN)

Big Stone 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]

814--Hamerly-Lindaas complex

Lindaas

Extent: 25 percent of the unit
Landform(s): flats on moraines
Slope gradient: 0 to 1 percent
Parent material:
 layer): .28
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: poorly drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 7
Wind erodibility index (WEI): 38
 glaciolacustrine sediments *Kw (surface layer):* .28
Land capability class, nonirrigated: 2w
Hydric soil: yes
Hydrologic group: C/D
Potential frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 12 in	silty clay loam	moderately rapid	2.1 to 2.7 in	6.6 to 7.3
Btg -- 12 to 26 in	silty clay	slow	2.0 to 2.4 in	6.6 to 7.8
Bkg -- 26 to 36 in	silty clay loam	moderate	1.5 to 2.2 in	7.4 to 8.4
Cg -- 36 to 60 in	silty clay loam	moderate	1.9 to 5.3 in	7.4 to 8.4

827B--Esmond-Heimdal loams, 2 to 6 percent slopes

Esmond

Extent: 60 percent of the unit
Landform(s): moraines
Slope gradient: 3 to 6 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

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

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	loam	moderate	1.6 to 1.7 in	7.4 to 8.4
Bk,C -- 8 to 60 in	loam	moderate	7.3 to 11.4 in	7.4 to 8.4

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

Map Unit Description (MN)

Big Stone 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]

827B--Esmond-Heimdal loams, 2 to 6 percent slopes

Heimdal

Extent: 25 percent of the unit
Landform(s): moraines
Slope gradient: 2 to 6 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 5
Wind erodibility index (WEI): 56
 glacial till *Kw (surface layer):* .28
Land capability class, nonirrigated:
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	loam	moderate	1.6 to 1.9 in	6.1 to 7.3
Bw -- 8 to 13 in	loam	moderate	0.9 to 1.0 in	6.1 to 7.8
Bk,C -- 13 to 60 in	loam	moderate	5.2 to 9.8 in	7.4 to 8.4

827C2--Esmond-Heimdal loams, 6 to 12 percent slopes, eroded

Esmond, eroded

Extent: 70 percent of the unit
Landform(s): moraines
Slope gradient: 6 to 12 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4L
Wind erodibility index (WEI): 86
 glacial till *Kw (surface layer):* .28
Land capability class, nonirrigated: 6e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	loam	moderate	1.6 to 1.7 in	7.4 to 8.4
Bk,C -- 8 to 60 in	loam	moderate	7.3 to 11.4 in	7.4 to 8.4

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

Map Unit Description (MN)

Big Stone 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]

827C2--Esmond-Heimdal loams, 6 to 12 percent slopes, eroded

Heimdal, eroded

Extent: 20 percent of the unit
Landform(s): moraines
Slope gradient: 6 to 9 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 5
Wind erodibility index (WEI): 56
 glacial till *Kw (surface layer):* .28
Land capability class, nonirrigated:
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	loam	moderate	1.6 to 1.9 in	6.1 to 7.3
Bw -- 8 to 10 in	loam	moderate	0.3 to 0.4 in	6.1 to 7.8
Bk,C -- 10 to 60 in	loam	moderate	5.5 to 10.5 in	7.4 to 8.4

900--Hamerly-Aazdahl-Lindaas complex

Hamerly

Extent: 40 percent of the unit
Landform(s): moraines
Slope gradient: 1 to 3 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: somewhat poorly drained

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

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	loam	moderate	1.4 to 1.9 in	6.6 to 8.4
Bk -- 8 to 28 in	clay loam	moderate	3.0 to 3.8 in	7.4 to 8.4
C -- 28 to 60 in	clay loam	moderately slow	4.5 to 6.1 in	7.4 to 8.4

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

Map Unit Description (MN)

Big Stone County, Minnesota

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

900--Hamerly-Aazdahl-Lindaas complex

Aazdahl

Extent: 25 percent of the unit

Landform(s): moraines

Slope gradient: 0 to 3 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

glacial till *Kw (surface layer):* .24

Land capability class, nonirrigated: 1

Hydric soil: no

Hydrologic group: B

Potential frost action: high

Representative soil profile:

Texture

Ap --	0 to 8 in	clay loam
Bw --	8 to 11 in	clay loam
Bk --	11 to 15 in	clay loam
C --	15 to 60 in	clay loam

Available water

<i>Permeability</i>	<i>capacity</i>	<i>pH</i>
moderate	1.3 to 1.5 in	6.6 to 7.3
moderately slow	0.5 to 0.6 in	6.6 to 7.8
moderately slow	0.6 to 0.7 in	7.4 to 8.4
moderately slow	6.3 to 7.6 in	7.4 to 8.4

Lindaas

Extent: 20 percent of the unit

Landform(s): flats on moraines

Slope gradient: 0 to 1 percent

Parent material:

layer): .28

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

glaciolacustrine sediments *Kw (surface*

Land capability class, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: C/D

Potential frost action: high

Representative soil profile:

Texture

Ap,A --	0 to 12 in	silty clay loam
Btg --	12 to 26 in	silty clay
Bkg --	26 to 36 in	silty clay loam
Cg --	36 to 60 in	silty clay loam

Available water

<i>Permeability</i>	<i>capacity</i>	<i>pH</i>
moderately rapid	2.1 to 2.7 in	6.6 to 7.3
slow	2.0 to 2.4 in	6.6 to 7.8
moderate	1.5 to 2.2 in	7.4 to 8.4
moderate	1.9 to 5.3 in	7.4 to 8.4

915B--Formdale-Buse clay loams, 4 to 6 percent slopes

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

Tabular Data Version: 3

Tabular Data Version Date: 09/26/2005

Page 28 of 37

Map Unit Description (MN)

Big Stone County, Minnesota

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

915B--Formdale-Buse clay loams, 4 to 6 percent slopes

Formdale

Extent: 60 percent of the unit
Landform(s): moraines
Slope gradient: 4 to 6 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

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

Representative soil profile:

	Texture
Ap,A -- 0 to 10 in	clay loam
Bw -- 10 to 14 in	clay loam
Bk -- 14 to 25 in	clay loam
C -- 25 to 60 in	clay loam

Texture

Permeability	Available water	
	capacity	pH
moderate	1.7 to 1.9 in	6.1 to 7.3
moderately slow	0.7 to 0.8 in	6.6 to 7.8
moderately slow	1.5 to 2.1 in	7.4 to 8.4
moderately slow	4.9 to 6.6 in	7.4 to 8.4

Buse

Extent: 25 percent of the unit
Landform(s): moraines
Slope gradient: 4 to 6 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

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

Representative soil profile:

	Texture
Ap -- 0 to 8 in	clay loam
Bk -- 8 to 17 in	clay loam
C -- 17 to 60 in	clay loam

Texture

Permeability	Available water	
	capacity	pH
moderately slow	1.3 to 1.7 in	6.6 to 8.4
moderately slow	1.3 to 1.7 in	7.4 to 8.4
moderately slow	6.0 to 8.2 in	7.4 to 8.4

915C2--Buse-Formdale clay loams, 6 to 12 percent slopes, eroded

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

Map Unit Description (MN)

Big Stone County, Minnesota

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

915C2--Buse-Formdale clay loams, 6 to 12 percent slopes, eroded

Buse, eroded

Extent: 60 percent of the unit
Landform(s): moraines
Slope gradient: 6 to 12 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

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

Representative soil profile:

	Texture
Ap -- 0 to 8 in	clay loam
Bk -- 8 to 27 in	clay loam
C -- 27 to 60 in	clay loam

Texture

Permeability	Available water	
	capacity	pH
moderately slow	1.3 to 1.7 in	6.6 to 8.4
moderately slow	2.6 to 3.6 in	7.4 to 8.4
moderately slow	4.6 to 6.3 in	7.4 to 8.4

Formdale, eroded

Extent: 25 percent of the unit
Landform(s): moraines
Slope gradient: 6 to 12 percent
Parent material:
Restrictive feature(s):
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
 glacial till *Kw (surface layer):* .24
Land capability class, nonirrigated: 3e
Hydric soil: no
Hydrologic group: B
Potential frost action: moderate

Representative soil profile:

	Texture
Ap -- 0 to 8 in	clay loam
Bw -- 8 to 11 in	clay loam
Bk -- 11 to 18 in	clay loam
C -- 18 to 60 in	clay loam

Texture

Permeability	Available water	
	capacity	pH
moderate	1.3 to 1.5 in	6.1 to 7.3
moderately slow	0.5 to 0.6 in	6.6 to 7.8
moderately slow	1.0 to 1.3 in	7.4 to 8.4
moderately slow	5.8 to 7.9 in	7.4 to 8.4

922--Hamerly-Parnell complex

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

Map Unit Description (MN)

Big Stone County, Minnesota

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

922--Hamerly-Parnell complex

Hamerly

Extent: 70 percent of the unit

Landform(s): moraines

Slope gradient: 1 to 3 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

glacial till *Kw (surface layer):* .24

Land capability class, nonirrigated: 2s

Hydric soil: no

Hydrologic group: B

Potential frost action: high

Representative soil profile:

Texture

Ap --	0 to 8 in	loam
Bk --	8 to 28 in	clay loam
C --	28 to 60 in	clay loam

<i>Permeability</i>	<i>Available water</i>	
	<i>capacity</i>	<i>pH</i>
moderate	1.4 to 1.9 in	6.6 to 8.4
moderate	3.0 to 3.8 in	7.4 to 8.4
moderately slow	4.5 to 6.1 in	7.4 to 8.4

Parnell

Extent: 25 percent of the unit

Landform(s): depressions on moraines

Slope gradient: 0 to 1 percent

Parent material:

layer): .37

Restrictive feature(s):

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

local alluvium over glacial till *Kw (surface*

Land capability class, nonirrigated: 3w

Hydric soil: yes

Hydrologic group: C/D

Potential frost action: high

Representative soil profile:

Texture

Ap,A --	0 to 20 in	silty clay loam
Btg --	20 to 50 in	silty clay
Cg --	50 to 60 in	silty clay loam

<i>Permeability</i>	<i>Available water</i>	
	<i>capacity</i>	<i>pH</i>
moderately slow	3.6 to 4.4 in	6.1 to 7.8
slow	3.9 to 5.7 in	6.1 to 7.8
slow	1.1 to 1.9 in	6.6 to 8.4

923C--Copaston-Rock outcrop complex, 1 to 25 percent slopes

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

Tabular Data Version: 3

Tabular Data Version Date: 09/26/2005

Page 31 of 37

Map Unit Description (MN)

Big Stone 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]

923C--Copaston-Rock outcrop complex, 1 to 25 percent slopes

Copaston

Extent: 70 percent of the unit

Landform(s): terraces

Slope gradient: 1 to 25 percent

Parent material:

.28

Restrictive feature(s): bedrock (lithic) at 12 to 20 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 1

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

alluvium over bedrock *Kw (surface layer):*

Land capability class, nonirrigated: 6e

Hydric soil: no

Hydrologic group: D

Potential frost action: moderate

Representative soil profile:

Texture

A --	0 to 9 in	loam
Bw --	9 to 14 in	loam
2R --	14 to 24 in	unweathered bedrock

<i>Permeability</i>	<i>Available water</i>	
	<i>capacity</i>	<i>pH</i>
moderate	1.8 to 2.0 in	5.6 to 7.3
moderately rapid	0.8 to 0.9 in	5.6 to 7.3
rapid		

Rock outcrop

Extent: 25 percent of the unit

Landform(s): moraines

Slope gradient:

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw (surface layer):

Land capability class, nonirrigated:

Hydric soil: unranked

Hydrologic group:

Potential frost action:

Representative soil profile:

Texture

<i>Permeability</i>	<i>Available water</i>	
	<i>capacity</i>	<i>pH</i>

1013--Pits, quarry

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

Map Unit Description (MN)

Big Stone 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]

1013--Pits, quarry

Pits, quarry

Extent: 100 percent of the unit

Landform(s): terraces

Slope gradient: 0 to 70 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw (surface layer):

Land capability class, nonirrigated:

Hydric soil: unranked

Hydrologic group:

Potential frost action:

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
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1030--Udorthents-pits, gravel complex

Udorthents

Extent: 50 percent of the unit

Landform(s): moraines, outwash plains, terraces

Slope gradient: 0 to 20 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw (surface layer):

Land capability class, nonirrigated:

Hydric soil: unranked

Hydrologic group:

Potential frost action:

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
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This report shows only the major soils in each map unit. Others may exist.

Map Unit Description (MN)

Big Stone County, Minnesota

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

1030--Udorthents-pits, gravel complex

Pits, gravel

Extent: 50 percent of the unit

Landform(s): moraines, outwash plains, terraces

Slope gradient: 0 to 40 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw (surface layer):

Land capability class, nonirrigated:

Hydric soil: unranked

Hydrologic group:

Potential frost action:

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
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1817F--Esmond loam, 18 to 45 percent slopes, bouldery

Esmond, bouldery

Extent: 85 percent of the unit

Landform(s): moraines

Slope gradient: 18 to 45 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 8

Wind erodibility index (WEI): 0

glacial till *Kw (surface layer):* .20

Land capability class, nonirrigated: 7e

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 10 in	very stony loam	moderate	2.0 to 2.2 in	7.4 to 8.4
Bk,C -- 10 to 60 in	loam	moderate	7.0 to 11.0 in	7.4 to 8.4

1916--Lindaas silty clay loam

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

Map Unit Description (MN)

Big Stone County, Minnesota

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

1916--Lindaas silty clay loam

Lindaas

Extent: 85 percent of the unit

Landform(s): flats, moraines

Slope gradient: 0 to 1 percent

Parent material:

layer): .28

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

glaciolacustrine sediments *Kw (surface*

Land capability class, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: C/D

Potential frost action: high

Representative soil profile:

Texture

Ap,A --	0 to 12 in	silty clay loam
Btg --	12 to 26 in	silty clay
Bkg --	26 to 36 in	silty clay loam
Cg --	36 to 60 in	silty clay loam

Permeability

moderately rapid
slow
moderate
moderate

Available water

capacity

2.1 to 2.7 in
2.0 to 2.4 in
1.5 to 2.2 in
1.9 to 5.3 in

pH

6.6 to 7.3
6.6 to 7.8
7.4 to 8.4
7.4 to 8.4

1940--Bigstone silty clay loam, ponded

Bigstone, ponded

Extent: 85 percent of the unit

Landform(s): flats on moraines

Slope gradient: 0 to 1 percent

Parent material:

Kw (surface layer):

Restrictive feature(s):

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 8

Wind erodibility index (WEI): 0

glaciolacustrine sediments over glacial till

.28

Land capability class, nonirrigated: 8w

Hydric soil: yes

Hydrologic group: B/D

Potential frost action: high

Representative soil profile:

Texture

Ap --	0 to 8 in	silty clay loam
A --	8 to 45 in	silty clay loam
2Cg --	45 to 60 in	clay loam

Permeability

moderately slow
moderate
moderate

Available water

capacity

1.4 to 1.7 in
5.9 to 8.1 in
2.1 to 2.8 in

pH

7.4 to 8.4
7.4 to 8.4
7.4 to 8.4

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

Tabular Data Version: 3

Tabular Data Version Date: 09/26/2005

Page 35 of 37

Map Unit Description (MN)

Big Stone 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]

1949--Gardena silt loam

Gardena

Extent: 85 percent of the unit

Landform(s): lake plains

Slope gradient: 1 to 3 percent

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

lacustrine sediments *Kw (surface layer):* .28

Land capability class, nonirrigated: 1

Hydric soil: no

Hydrologic group: B

Potential frost action: high

Representative soil profile:

Ap,A,Bw --	0 to 21 in	silt loam
C --	21 to 60 in	silt loam

Texture

<i>Permeability</i>	<i>Available water</i>	
	<i>capacity</i>	<i>pH</i>
moderate	4.2 to 5.0 in	6.6 to 7.8
moderately rapid	6.6 to 8.6 in	7.4 to 8.4

1994--Embden loam

Embden

Extent: 85 percent of the unit

Landform(s): outwash plains

Slope gradient: 0 to 2 percent

Parent material:

.24

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

glaciofluvial sediments *Kw (surface layer):*

Land capability class, nonirrigated: 2s

Hydric soil: no

Hydrologic group: B

Potential frost action: moderate

Representative soil profile:

Ap --	0 to 8 in	loam
Bw --	8 to 40 in	sandy loam
C --	40 to 60 in	loamy fine sand

Texture

<i>Permeability</i>	<i>Available water</i>	
	<i>capacity</i>	<i>pH</i>
moderately rapid	1.6 to 1.7 in	6.1 to 7.3
moderately rapid	3.9 to 5.5 in	6.6 to 7.8
moderately rapid	1.2 to 3.1 in	7.4 to 8.4

M-W--Water, miscellaneous

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

Tabular Data Version: 3

Tabular Data Version Date: 09/26/2005

Page 36 of 37

Map Unit Description (MN)

Big Stone County, Minnesota

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

M-W--Water, miscellaneous

Water, miscellaneous

Extent: 100 percent of the unit

Landform(s):

Slope gradient:

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw (surface layer):

Land capability class, nonirrigated:

Hydric soil:

Hydrologic group:

Potential frost action:

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
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W--Water

Water

Extent: 100 percent of the unit

Landform(s):

Slope gradient:

Parent material:

Restrictive feature(s):

Flooding: none

Ponding: none

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw (surface layer):

Land capability class, nonirrigated:

Hydric soil: unranked

Hydrologic group:

Potential frost action:

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

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