

Ag. Waste Application and Excavated Ponds  
Brown County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation.)

Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Ab: Aberdeen-----	50	Very limited Restricted permeability Sodium content	1.00 0.08	Very limited Cutbanks cave Deep to water Slow refill Salty water	1.00 0.90 0.57 0.01
Nahon-----	30	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.08	Very limited Cutbanks cave Slow refill Deep to water Salty water	1.00 0.99 0.90 0.50
Ac: Aberdeen-----	50	Very limited Restricted permeability Sodium content	1.00 0.08	Very limited Cutbanks cave Deep to water Slow refill Salty water	1.00 0.90 0.57 0.01
Nahon-----	35	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.08	Very limited Cutbanks cave Slow refill Deep to water Salty water	1.00 0.99 0.90 0.50
Ad: Aberdeen-----	50	Very limited Restricted permeability Sodium content	1.00 0.08	Very limited Cutbanks cave Deep to water Slow refill Salty water	1.00 0.90 0.57 0.01
Urban Land-----	30	Not rated		Not rated	

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Ar: Arveson-----	85	Very limited Depth to saturated zone Leaching limitation	1.00 0.70	Very limited Cutbanks cave	1.00
BaD: Barnes-----	60	Somewhat limited Slope Restricted permeability	0.37 0.30	Very limited Deep to water	1.00
Buse-----	25	Somewhat limited Slope Restricted permeability	0.96 0.30	Very limited Deep to water	1.00
BbC: Barnes-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Buse-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Svea-----	15	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.43 0.10
BcA: Barnes-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Cavour-----	25	Very limited Restricted permeability Salinity Runoff limitation Sodium content	1.00 0.50 0.40 0.18	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.78 0.10
BcB: Barnes-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Cavour-----	25	Very limited Restricted permeability	1.00	Somewhat limited Slow refill	0.99
		Salinity	0.50	Deep to water	0.90
		Runoff limitation	0.40	Salty water	0.78
		Sodium content	0.18	Cutbanks cave	0.10
BdA: Barnes-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Tonka-----	15	Very limited Restricted permeability	1.00	Somewhat limited Slow refill	0.30
		Depth to saturated zone	1.00	Cutbanks cave	0.10
		Ponding	1.00		
		Leaching limitation	0.50		
BdB: Barnes-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Cresbard-----	25	Somewhat limited Restricted permeability	0.89	Somewhat limited Slow refill	0.95
		Sodium content	0.18	Deep to water	0.90
				Cutbanks cave	0.10
				Salty water	0.01
Tonka-----	15	Very limited Restricted permeability	1.00	Somewhat limited Slow refill	0.30
		Depth to saturated zone	1.00	Cutbanks cave	0.10
		Ponding	1.00		
		Leaching limitation	0.50		
BeA: Barnes-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Ferney-----	20	Very limited Restricted permeability	1.00	Very limited Slow refill	1.00
		Sodium content	1.00	Deep to water	0.90
		Salinity	0.50	Salty water	0.50
		Runoff limitation	0.40	Cutbanks cave	0.10
Tonka-----	15	Very limited Restricted permeability	1.00	Somewhat limited Slow refill	0.30
		Depth to saturated zone	1.00	Cutbanks cave	0.10
		Ponding	1.00		
		Leaching limitation	0.50		
BfA: Barnes-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Hamerly-----	30	Somewhat limited Depth to saturated zone	0.84	Somewhat limited Slow refill	0.95
		Restricted permeability	0.30	Cutbanks cave	0.10
				Deep to water	0.07
Tonka-----	15	Very limited Restricted permeability	1.00	Somewhat limited Slow refill	0.30
		Depth to saturated zone	1.00	Cutbanks cave	0.10
		Ponding	1.00		
		Leaching limitation	0.50		
BgC: Barnes-----	35	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Kranzburg-----	30	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Buse-----	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
BhA: Barnes-----	60	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Svea-----	25	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.43 0.10
BhB: Barnes-----	60	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Svea-----	25	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.43 0.10
BkA: Barnes-----	40	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Svea-----	25	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.43 0.10
Tonka-----	15	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
BkB: Barnes-----	40	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Svea-----	25	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.43 0.10

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Tonka-----	15	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
BmB: Barnes-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Tally-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
BnA: Barnes-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Urban Land-----	30	Not rated		Not rated	
Bo: Bearden-----	85	Somewhat limited Depth to saturated zone	0.84	Somewhat limited Slow refill Cutbanks cave Deep to water	0.43 0.10 0.07
Bp: Bearden-----	90	Somewhat limited Depth to saturated zone Salinity	0.84 0.50	Somewhat limited Slow refill Salty water Cutbanks cave Deep to water	0.57 0.50 0.10 0.07
BrB: Bearden-----	50	Somewhat limited Depth to saturated zone	0.84	Somewhat limited Slow refill Cutbanks cave Deep to water	0.43 0.10 0.07

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Huffton-----	40	Somewhat limited Salinity Sodium content	0.50 0.18	Very limited Deep to water	1.00
BsB: Bearden-----	45	Somewhat limited Depth to saturated zone Salinity	0.84 0.50	Somewhat limited Slow refill Salty water Cutbanks cave Deep to water	0.57 0.50 0.10 0.07
Huffton-----	25	Somewhat limited Salinity Sodium content	0.50 0.18	Very limited Deep to water	1.00
Putney-----	15	Somewhat limited Salinity Sodium content	0.78 0.02	Very limited Deep to water	1.00
Bt: Beotia-----	85	Not limited		Very limited Deep to water	1.00
Bv: Beotia-----	50	Not limited		Very limited Deep to water	1.00
Rondell-----	30	Not limited		Very limited Cutbanks cave Deep to water Slow refill	1.00 0.90 0.57
Bw: Beotia-----	45	Not limited		Very limited Deep to water	1.00
Urban Land-----	35	Not rated		Not rated	
Bx: Beotia-----	65	Not limited		Very limited Cutbanks cave Deep to water Slow refill	1.00 0.90 0.57

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Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Winship-----	20	Somewhat limited Restricted permeability Depth to saturated zone	0.89 0.84	Somewhat limited Slow refill Cutbanks cave Deep to water	0.95 0.10 0.07
By: Borup-----	85	Very limited Depth to saturated zone Leaching limitation	1.00 0.70	Very limited Cutbanks cave	1.00
Bz: Borup-----	85	Very limited Depth to saturated zone Leaching limitation Salinity	1.00 0.70 0.50	Very limited Cutbanks cave Salty water	1.00 0.50
BzGA: Brantford Variant---	85	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
BzHB: Brantford Variant---	45	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Vang-----	35	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
BzVE: Buse-----	45	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
Barnes-----	40	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Ca: Camtown-----	50	Very limited Restricted permeability Flooding Sodium content Depth to saturated zone Salinity	1.00 1.00 1.00 0.95 0.06	Somewhat limited Slow refill Cutbanks cave Salty water Deep to water	0.57 0.10 0.06 0.02
Turton-----	30	Very limited Restricted permeability Sodium content Flooding Depth to saturated zone Salinity	1.00 1.00 1.00 0.84 0.50	Somewhat limited Salty water Slow refill Cutbanks cave Deep to water	0.50 0.30 0.10 0.07
Cb: Camtown-----	50	Very limited Restricted permeability Sodium content Salinity	1.00 1.00 0.06	Somewhat limited Deep to water Slow refill Cutbanks cave Salty water	0.90 0.57 0.10 0.06
Turton-----	30	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Somewhat limited Deep to water Salty water Slow refill Cutbanks cave	0.90 0.50 0.30 0.10
Cd: Cavour-----	60	Very limited Restricted permeability Salinity Runoff limitation Sodium content	1.00 0.50 0.40 0.18	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.78 0.10
Cresbard-----	25	Somewhat limited Restricted permeability Sodium content	0.89 0.18	Somewhat limited Slow refill Deep to water Cutbanks cave Salty water	0.95 0.90 0.10 0.01

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Cf: Cavour-----	50	Very limited Restricted permeability Salinity Runoff limitation Sodium content	1.00 0.50 0.40 0.18	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.78 0.10
Ferney-----	35	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Slow refill Deep to water Salty water Cutbanks cave	1.00 0.90 0.50 0.10
Cm: Colvin-----	85	Very limited Depth to saturated zone Salinity Sodium content	1.00 0.50 0.08	Somewhat limited Salty water Cutbanks cave	0.50 0.10
Cn: Colvin-----	85	Very limited Depth to saturated zone Leaching limitation Restricted permeability Sodium content	1.00 0.50 0.30 0.08	Somewhat limited Slow refill Cutbanks cave	0.57 0.10
Cp: Colvin-----	85	Very limited Depth to saturated zone Ponding Leaching limitation Restricted permeability Sodium content	1.00 1.00 0.50 0.30 0.08	Somewhat limited Slow refill Cutbanks cave	0.57 0.10

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Cs: Colvin-----	85	Very limited Depth to saturated zone Flooding Leaching limitation Restricted permeability Sodium content	1.00 1.00 0.50 0.30 0.08	Somewhat limited Slow refill Cutbanks cave	0.57 0.10
Cv: Cresbard-----	50	Somewhat limited Restricted permeability Sodium content	0.89 0.18	Somewhat limited Slow refill Deep to water Cutbanks cave Salty water	0.95 0.90 0.10 0.01
Cavour-----	40	Very limited Restricted permeability Salinity Runoff limitation Sodium content	1.00 0.50 0.40 0.18	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.78 0.10
DaA: Daglum-----	50	Very limited Restricted permeability Sodium content Salinity Runoff limitation Droughty	1.00 1.00 0.78 0.40 0.03	Very limited Deep to water	1.00
Rhoades-----	35	Very limited Restricted permeability Sodium content Salinity Droughty Runoff limitation	1.00 1.00 0.78 0.47 0.40	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Do: Dovray-----	90	Very limited Restricted permeability Ponding Depth to saturated zone Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.99 0.10
Dv: Dovray Variant-----	90	Very limited Restricted permeability Depth to saturated zone Leaching limitation	1.00 0.84 0.50	Very limited Slow refill Cutbanks cave Deep to water	1.00 0.10 0.07
ECA: Eckman-----	85	Not limited		Very limited Deep to water	1.00
EdB: Eckman-----	55	Not limited		Very limited Deep to water	1.00
Gardena-----	30	Not limited		Somewhat limited Deep to water Cutbanks cave	0.81 0.10
EeB: Eckman-----	65	Not limited		Very limited Deep to water	1.00
Zell-----	25	Not limited		Very limited Deep to water	1.00
EgB: Edgeley-----	50	Somewhat limited Droughty Depth to bedrock	0.65 0.42	Very limited Deep to water	1.00
Kloten-----	35	Very limited Depth to bedrock Droughty Runoff limitation	1.00 1.00 0.40	Very limited Deep to water	1.00
EhA: Egeland-----	90	Not limited		Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
EkB: Egeland-----	50	Not limited		Very limited Deep to water	1.00
Embden-----	35	Not limited		Somewhat limited Deep to water Cutbanks cave	0.81 0.10
Em: Embden-----	90	Not limited		Somewhat limited Deep to water Cutbanks cave	0.81 0.10
Et: Embden-----	65	Not limited		Somewhat limited Deep to water Cutbanks cave	0.81 0.10
Tiffany-----	25	Very limited Depth to saturated zone Ponding Leaching limitation	1.00 1.00 0.70	Very limited Cutbanks cave	1.00
Ex: Exline-----	40	Very limited Restricted permeability Sodium content Depth to saturated zone Salinity Runoff limitation	1.00 1.00 0.84 0.50 0.40	Very limited Cutbanks cave Slow refill Salty water Deep to water	1.00 1.00 0.50 0.07
Aberdeen-----	25	Very limited Restricted permeability Sodium content	1.00 0.08	Very limited Cutbanks cave Deep to water Slow refill Salty water	1.00 0.90 0.57 0.01
Nahon-----	25	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.08	Very limited Cutbanks cave Slow refill Deep to water Salty water	1.00 0.99 0.90 0.50

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Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
EyA: Exline-----	45	Very limited Restricted permeability Sodium content Salinity Runoff limitation	 1.00 1.00 0.50 0.40	Very limited Cutbanks cave  Slow refill Deep to water Salty water	 1.00  1.00 0.90 0.50
Putney-----	35	Somewhat limited Salinity Sodium content	 0.78 0.02	Very limited Deep to water	 1.00
Fe: Ferney-----	55	Very limited Restricted permeability Sodium content Depth to saturated zone Salinity Runoff limitation	 1.00 1.00 0.84 0.50 0.40	Very limited Slow refill  Salty water Cutbanks cave Deep to water	 1.00  0.50 0.10 0.07
Heil-----	30	Very limited Restricted permeability Depth to saturated zone Ponding Salinity Runoff limitation	 1.00 1.00 1.00 0.50 0.40	Somewhat limited Salty water  Slow refill  Cutbanks cave	 0.50  0.30  0.10
Fo: Fordville-----	85	Very limited Filtering capacity	 1.00	Very limited Deep to water	 1.00
FSA: Forman-----	45	Somewhat limited Restricted permeability	 0.30	Very limited Deep to water	 1.00
Aastad-----	40	Somewhat limited Restricted permeability Depth to saturated zone	 0.30 0.24	Somewhat limited Slow refill  Deep to water Cutbanks cave	 0.95  0.38 0.10

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
FsB: Forman-----	60	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Aastad-----	25	Somewhat limited Restricted permeability Depth to saturated zone	0.30 0.24	Somewhat limited Slow refill Deep to water Cutbanks cave	0.95 0.38 0.10
FtC: Forman-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Buse-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Aastad-----	15	Somewhat limited Restricted permeability Depth to saturated zone	0.30 0.24	Somewhat limited Slow refill Deep to water Cutbanks cave	0.95 0.38 0.10
Fy: Fossum-----	90	Very limited Depth to saturated zone Filtering capacity Leaching limitation Droughty	1.00 1.00 0.90 0.18	Very limited Cutbanks cave	1.00
Ga: Gardena-----	85	Not limited		Somewhat limited Deep to water Cutbanks cave	0.81 0.10
Gc: Gardena-----	60	Not limited		Somewhat limited Deep to water Cutbanks cave	0.81 0.10

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Glyndon-----	30	Somewhat limited Depth to saturated zone	0.95	Very limited Cutbanks cave Deep to water	1.00 0.02
Gh: Gardena-----	50	Not limited		Somewhat limited Deep to water Cutbanks cave	0.81 0.10
Turton-----	30	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Somewhat limited Deep to water Salty water Slow refill Cutbanks cave	0.90 0.50 0.30 0.10
Gm: Glyndon-----	85	Somewhat limited Depth to saturated zone	0.95	Very limited Cutbanks cave Deep to water	1.00 0.02
Gn: Glyndon-----	85	Somewhat limited Depth to saturated zone	0.95	Very limited Cutbanks cave Deep to water	1.00 0.02
GrA: Great Bend-----	90	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
GsB: Great Bend-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Beotia-----	45	Not limited		Very limited Deep to water	1.00
GtA: Great Bend-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Putney-----	30	Somewhat limited Salinity Sodium content	0.78 0.02	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
GyB: Great Bend-----	65	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Zell-----	25	Not limited		Very limited Deep to water	1.00
GyC: Great Bend-----	65	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Zell-----	25	Not limited		Very limited Deep to water	1.00
GzC: Great Bend-----	40	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Zell-----	30	Not limited		Very limited Deep to water	1.00
Huffton-----	20	Somewhat limited Salinity Sodium content	0.50 0.18	Very limited Deep to water	1.00
Ha: Hamar-----	85	Very limited Depth to saturated zone Leaching limitation Droughty	1.00 0.90 0.25	Very limited Cutbanks cave	1.00
Hc: Hamerly-----	85	Somewhat limited Depth to saturated zone Restricted permeability	0.84 0.30	Somewhat limited Slow refill Cutbanks cave Deep to water	0.95 0.10 0.07
Hd: Hamerly-----	85	Somewhat limited Depth to saturated zone Restricted permeability	0.84 0.30	Somewhat limited Slow refill Cutbanks cave Deep to water	0.95 0.10 0.07

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Hf: Hamerly-----	50	Somewhat limited Depth to saturated zone Restricted permeability	0.84 0.30	Somewhat limited Slow refill Cutbanks cave Deep to water	0.95 0.10 0.07
Tonka-----	35	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
Hh: Hamerly-----	45	Somewhat limited Depth to saturated zone Restricted permeability	0.84 0.30	Somewhat limited Slow refill Cutbanks cave Deep to water	0.95 0.10 0.07
Vallers-----	40	Very limited Depth to saturated zone Restricted permeability	1.00 0.30	Somewhat limited Slow refill Cutbanks cave	0.95 0.10
Hm: Harmony Variant-----	85	Very limited Filtering capacity Salinity Restricted permeability	1.00 0.50 0.30	Very limited Cutbanks cave Deep to water Salty water	1.00 0.81 0.50
Hn: Harmony-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Aberdeen-----	30	Very limited Restricted permeability Sodium content	1.00 0.08	Very limited Cutbanks cave Deep to water Slow refill Salty water	1.00 0.90 0.57 0.01

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Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Hp: Harmony-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Beotia-----	30	Not limited		Very limited Deep to water	1.00
Hr: Harriet-----	90	Very limited Restricted permeability	1.00	Somewhat limited Salty water	0.50
		Depth to saturated zone	1.00	Slow refill	0.30
		Sodium content	1.00	Cutbanks cave	0.10
		Flooding	0.60		
		Salinity	0.50		
HtB: Hecla-----	50	Somewhat limited Leaching limitation	0.45	Very limited Cutbanks cave	1.00
		Droughty	0.02	Deep to water	0.81
Hamar-----	35	Very limited Depth to saturated zone	1.00	Very limited Cutbanks cave	1.00
		Leaching limitation	0.90		
		Droughty	0.25		
Hx: Heil-----	95	Very limited Restricted permeability	1.00	Somewhat limited Salty water	0.50
		Depth to saturated zone	1.00	Slow refill	0.30
		Ponding	1.00	Cutbanks cave	0.10
		Salinity	0.50		
		Runoff limitation	0.40		
Ka: Koto-----	85	Very limited Restricted permeability	1.00	Somewhat limited Cutbanks cave	0.10
		Depth to saturated zone	1.00		
		Sodium content	0.82		
		Flooding	0.60		
		Runoff limitation	0.40		

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Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Kh: Koto-----	60	Very limited Restricted permeability Depth to saturated zone Sodium content Flooding Runoff limitation	1.00 1.00 0.82 0.60 0.40	Somewhat limited Cutbanks cave	0.10
Harriet-----	25	Very limited Restricted permeability Depth to saturated zone Sodium content Flooding Salinity	1.00 1.00 1.00 0.60 0.50	Somewhat limited Salty water Slow refill Cutbanks cave	0.50 0.30 0.10
KkA: Kranzburg-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Brookings-----	40	Not limited		Very limited Deep to water	1.00
KrB: Kranzburg-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Brookings-----	25	Not limited		Very limited Deep to water	1.00
Buse-----	15	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Kt: Kratka-----	85	Very limited Depth to saturated zone Filtering capacity Leaching limitation	1.00 1.00 0.70	Very limited Cutbanks cave	1.00
La: Ladelle-----	90	Not limited		Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Brown County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Lc: Ladelle-----	90	Somewhat limited Flooding	0.60	Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
Le: Lamoure-----	85	Very limited Filtering capacity Depth to saturated zone Flooding	1.00 0.95 0.60	Very limited Cutbanks cave Deep to water	1.00 0.02
Lg: La Prairie-----	85	Somewhat limited Flooding	0.60	Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
Lh: La Prairie-----	50	Somewhat limited Flooding	0.60	Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
Harriet-----	30	Very limited Restricted permeability Depth to saturated zone Sodium content Flooding Salinity	1.00 1.00 1.00 0.60 0.50	Somewhat limited Salty water Slow refill Cutbanks cave	0.50 0.30 0.10
Lm: Letcher-----	35	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 0.82 0.40 0.01	Very limited Deep to water	1.00
Miranda-----	20	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Slow refill Deep to water Salty water Cutbanks cave	1.00 0.90 0.50 0.10

Ag. Waste Application and Excavated Ponds -- continued  
Brown County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Lu: Ludden-----	85	Very limited Restricted permeability Depth to saturated zone Flooding Ponding Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Slow refill Cutbanks cave	1.00 0.10
Lw: Ludden-----	90	Very limited Restricted permeability Depth to saturated zone Flooding Ponding Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Slow refill Cutbanks cave	1.00 0.10
Lx: Ludden-----	45	Very limited Restricted permeability Depth to saturated zone Flooding Ponding Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Slow refill Cutbanks cave	1.00 0.10
Ludden-----	40	Very limited Restricted permeability Depth to saturated zone Flooding Runoff limitation	1.00 1.00 1.00 0.40	Very limited Slow refill Cutbanks cave	1.00 0.10
Lz: Ludden-----	50	Very limited Restricted permeability Depth to saturated zone Flooding Ponding Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Slow refill Cutbanks cave	1.00 0.10

Ag. Waste Application and Excavated Ponds -- continued  
Brown County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Water (less Than 40 Acres)-----	40	Not rated		Not rated	
M-W: Miscellaneous Water-	100	Not rated		Not rated	
MaB: Maddock-----	35	Very limited Filtering capacity Leaching limitation	1.00 0.45	Very limited Deep to water	1.00
Hecla-----	30	Somewhat limited Leaching limitation Droughty	0.45 0.02	Very limited Cutbanks cave Deep to water	1.00 0.81
Hamar-----	20	Very limited Depth to saturated zone Leaching limitation Droughty	1.00 0.90 0.25	Very limited Cutbanks cave	1.00
Na: Nahon-----	50	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.08	Very limited Cutbanks cave Slow refill Deep to water Salty water	1.00 0.99 0.90 0.50
Aberdeen-----	20	Very limited Restricted permeability Sodium content	1.00 0.08	Very limited Cutbanks cave Deep to water Slow refill Salty water	1.00 0.90 0.57 0.01

Ag. Waste Application and Excavated Ponds -- continued  
Brown County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Exline-----	15	Very limited Restricted permeability Sodium content Depth to saturated zone Salinity Runoff limitation	1.00 1.00 0.84 0.50 0.40	Very limited Cutbanks cave Slow refill Salty water Deep to water	1.00 1.00 0.50 0.07
Nc: Nahon-----	50	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.08	Very limited Cutbanks cave Slow refill Deep to water Salty water	1.00 0.99 0.90 0.50
Aberdeen-----	20	Very limited Restricted permeability Sodium content	1.00 0.08	Very limited Cutbanks cave Deep to water Slow refill Salty water	1.00 0.90 0.57 0.01
Exline-----	15	Very limited Restricted permeability Sodium content Filtering capacity Depth to saturated zone Salinity	1.00 1.00 1.00 0.84 0.50	Very limited Cutbanks cave Salty water Deep to water	1.00 0.50 0.07
NeA: Niobell-----	40	Very limited Restricted permeability Sodium content	1.00 0.82	Somewhat limited Slow refill Deep to water Cutbanks cave Salty water	0.95 0.90 0.10 0.01
Noonan-----	30	Very limited Restricted permeability Sodium content Runoff limitation	1.00 0.82 0.40	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.90 0.10 0.01

Ag. Waste Application and Excavated Ponds -- continued  
Brown County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Williams-----	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Ng: Nishon-----	90	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
Nh: Nishon-----	50	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
Heil-----	40	Very limited Restricted permeability Depth to saturated zone Ponding Salinity Runoff limitation	1.00 1.00 1.00 0.50 0.40	Somewhat limited Salty water Slow refill Cutbanks cave	0.50 0.30 0.10
No: Noonan-----	35	Very limited Restricted permeability Sodium content Runoff limitation	1.00 0.82 0.40	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.90 0.10 0.01
Niobell-----	30	Very limited Restricted permeability Sodium content	1.00 0.82	Somewhat limited Slow refill Deep to water Cutbanks cave Salty water	0.95 0.90 0.10 0.01

Ag. Waste Application and Excavated Ponds -- continued  
Brown County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Miranda-----	20	Very limited Restricted permeability	1.00	Very limited Slow refill	1.00
		Sodium content	1.00	Deep to water	0.90
		Salinity	0.50	Salty water	0.50
		Runoff limitation	0.40	Cutbanks cave	0.10
Og: Orthents, Loamy-----	100	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Ot: Orthents, Loamy-----	100	Very limited Slope	1.00	Very limited Deep to water	1.00
		Restricted permeability	0.30		
Pa: Parnell-----	90	Very limited Restricted permeability	1.00	Somewhat limited Slow refill	0.95
		Ponding	1.00	Cutbanks cave	0.10
		Depth to saturated zone	1.00		
		Leaching limitation	0.50		
Pc: Parnell-----	90	Very limited Restricted permeability	1.00	Somewhat limited Slow refill	0.95
		Ponding	1.00	Cutbanks cave	0.10
		Depth to saturated zone	1.00		
		Leaching limitation	0.50		
PeA: Peever-----	85	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
		Droughty	0.07		
PfB: Peever-----	60	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
		Droughty	0.07		

Ag. Waste Application and Excavated Ponds -- continued  
Brown County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Buse-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Pg: Orthents, Gravelly--	95	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 0.71 0.45	Very limited Deep to water	1.00
Pm: Playmoor-----	85	Very limited Depth to saturated zone Flooding Salinity Leaching limitation Sodium content	1.00 1.00 0.50 0.50 0.08	Very limited Cutbanks cave Salty water Slow refill	1.00 0.50 0.43
Pr: Playmoor-----	50	Very limited Depth to saturated zone Flooding Salinity Leaching limitation Sodium content	1.00 1.00 0.50 0.50 0.08	Very limited Cutbanks cave Salty water Slow refill	1.00 0.50 0.43
Lamoure-----	35	Very limited Depth to saturated zone Flooding Filtering capacity	1.00 1.00 1.00	Very limited Cutbanks cave	1.00
Ra: Ranslo-----	85	Very limited Restricted permeability Depth to saturated zone Sodium content Flooding Runoff limitation	1.00 1.00 0.92 0.60 0.40	Somewhat limited Slow refill Cutbanks cave Salty water Deep to water	0.95 0.10 0.01 0.01

Ag. Waste Application and Excavated Ponds -- continued  
Brown County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Rc: Ranslo-----	45	Very limited Restricted permeability Depth to saturated zone Sodium content Flooding Runoff limitation	1.00 1.00 0.92 0.60 0.40	Somewhat limited Slow refill Cutbanks cave Salty water Deep to water	0.95 0.10 0.01 0.01
Harriet-----	40	Very limited Restricted permeability Depth to saturated zone Sodium content Flooding Salinity	1.00 1.00 1.00 0.60 0.50	Somewhat limited Salty water Slow refill Cutbanks cave	0.50 0.30 0.10
RfA: Renshaw-----	60	Very limited Filtering capacity Droughty	1.00 0.32	Very limited Deep to water	1.00
Fordville-----	25	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
RfB: Renshaw-----	60	Very limited Filtering capacity Droughty	1.00 0.32	Very limited Deep to water	1.00
Fordville-----	25	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Ry: Ryan-----	55	Very limited Restricted permeability Depth to saturated zone Ponding Flooding Salinity	1.00 1.00 1.00 0.60 0.50	Very limited Slow refill Salty water Cutbanks cave	1.00 0.50 0.10

Ag. Waste Application and Excavated Ponds -- continued  
Brown County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Ludden-----	30	Very limited Restricted permeability Depth to saturated zone Flooding Ponding Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Slow refill Cutbanks cave	1.00 0.10
SaD: Serden-----	85	Very limited Filtering capacity Droughty Leaching limitation Slope	1.00 0.85 0.45 0.37	Very limited Deep to water	1.00
ScB: Serden-----	50	Very limited Filtering capacity Droughty Leaching limitation	1.00 0.83 0.45	Very limited Deep to water	1.00
Hamar-----	15	Very limited Depth to saturated zone Leaching limitation Droughty	1.00 0.90 0.25	Very limited Cutbanks cave	1.00
Venlo-----	15	Very limited Depth to saturated zone Filtering capacity Leaching limitation Droughty	1.00 1.00 0.90 0.04	Very limited Cutbanks cave	1.00
Sd: Slickspots, Loamy---	100	Not rated		Not rated	

Ag. Waste Application and Excavated Ponds -- continued  
Brown County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Sf: Spottswood-----	60	Very limited Filtering capacity	1.00	Very limited Cutbanks cave Deep to water	1.00 0.81
Divide-----	30	Very limited Filtering capacity Depth to saturated zone	1.00 0.84	Very limited Cutbanks cave Deep to water	1.00 0.07
Sh: Stirum-----	85	Very limited Depth to saturated zone Ponding Sodium content Restricted permeability Runoff limitation	1.00 1.00 0.82 0.50 0.40	Very limited Cutbanks cave Salty water	1.00 0.35
Sn: Stirum-----	45	Very limited Depth to saturated zone Ponding Sodium content Restricted permeability Runoff limitation	1.00 1.00 0.82 0.50 0.40	Very limited Cutbanks cave Salty water	1.00 0.35
Stirum Variant-----	40	Very limited Restricted permeability Depth to saturated zone Sodium content Ponding Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Cutbanks cave Salty water	1.00 0.35
SoA: Swenoda-----	85	Somewhat limited Depth to saturated zone	0.24	Very limited Deep to water	1.00
StB: Swenoda-----	50	Somewhat limited Depth to saturated zone	0.24	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Brown County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Embden-----	35	Not limited		Somewhat limited Deep to water Cutbanks cave	0.81 0.10
SvA: Swenoda-----	65	Somewhat limited Depth to saturated zone	0.24	Very limited Deep to water	1.00
Tiffany Variant-----	25	Very limited Depth to saturated zone Ponding Runoff limitation	1.00 1.00 0.40	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
SwA: Swenoda-----	45	Somewhat limited Depth to saturated zone	0.24	Very limited Deep to water	1.00
Turton-----	35	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Somewhat limited Deep to water Salty water Slow refill Cutbanks cave	0.90 0.50 0.30 0.10
SxA: Swenoda-----	50	Somewhat limited Depth to saturated zone	0.24	Very limited Deep to water	1.00
Turton Variant-----	30	Very limited Restricted permeability Sodium content Depth to saturated zone Salinity Runoff limitation	1.00 1.00 1.00 0.50 0.40	Somewhat limited Salty water Slow refill Cutbanks cave Deep to water	0.50 0.30 0.10 0.01
TaB: Tally-----	85	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
TeB: Tally-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Brown County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Letcher-----	30	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 0.82 0.40 0.01	Very limited Deep to water	1.00
Tk: Tonka-----	90	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
Tn: Tonka-----	50	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
Nishon-----	40	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
Tr: Towner-----	50	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Hecla-----	35	Somewhat limited Leaching limitation Droughty	0.45 0.02	Very limited Cutbanks cave Deep to water	1.00 0.81

Ag. Waste Application and Excavated Ponds -- continued  
Brown County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Tv: Turton-----	55	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Somewhat limited Deep to water Salty water Slow refill Cutbanks cave	0.90 0.50 0.30 0.10
Turton Variant-----	30	Very limited Restricted permeability Sodium content Depth to saturated zone Salinity Runoff limitation	1.00 1.00 1.00 0.50 0.40	Somewhat limited Salty water Slow refill Cutbanks cave Deep to water	0.50 0.30 0.10 0.01
Un: Ulen-----	85	Very limited Filtering capacity Depth to saturated zone Droughty	1.00 1.00 0.01	Very limited Cutbanks cave Deep to water	1.00 0.01
Us: Ulen-----	60	Very limited Filtering capacity Depth to saturated zone Droughty	1.00 1.00 0.01	Very limited Cutbanks cave Deep to water	1.00 0.01
Stirum-----	25	Very limited Depth to saturated zone Ponding Sodium content Restricted permeability Runoff limitation	1.00 1.00 0.82 0.50 0.40	Very limited Cutbanks cave Salty water	1.00 0.35
Va: Vallars-----	85	Very limited Depth to saturated zone Restricted permeability	1.00 0.30	Somewhat limited Slow refill Cutbanks cave	0.95 0.10

Ag. Waste Application and Excavated Ponds -- continued  
Brown County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Vs: Vallars-----	85	Very limited Depth to saturated zone Salinity Restricted permeability Sodium content	1.00 0.50 0.30 0.08	Somewhat limited Slow refill Salty water Cutbanks cave	0.95 0.50 0.10
VzC: Vida-----	55	Somewhat limited Slope Restricted permeability	0.37 0.30	Very limited Deep to water	1.00
Zahl-----	25	Somewhat limited Slope Restricted permeability	0.63 0.30	Very limited Deep to water	1.00
VzE: Vida-----	55	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
Zahl-----	25	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
W: Water-----	100	Not rated		Not rated	
WaB: Williams-----	85	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
WbA: Williams-----	60	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Bowbells-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Brown County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
WbB: Williams-----	60	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Bowbells-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
WdA: Williams-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Bowbells-----	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Tonka-----	15	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
WdB: Williams-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Bowbells-----	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Tonka-----	15	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
WfA: Williams-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Brown County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Cavour-----	25	Very limited Restricted permeability	1.00	Somewhat limited Slow refill	0.99
		Salinity	0.50	Deep to water	0.90
		Runoff limitation	0.40	Salty water	0.78
		Sodium content	0.18	Cutbanks cave	0.10
WfB: Williams-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Cavour-----	25	Very limited Restricted permeability	1.00	Somewhat limited Slow refill	0.99
		Salinity	0.50	Deep to water	0.90
		Runoff limitation	0.40	Salty water	0.78
		Sodium content	0.18	Cutbanks cave	0.10
WhA: Williams-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Cresbard-----	20	Somewhat limited Restricted permeability	0.89	Somewhat limited Slow refill	0.95
		Sodium content	0.18	Deep to water	0.90
				Cutbanks cave	0.10
				Salty water	0.01
Tonka-----	15	Very limited Restricted permeability	1.00	Somewhat limited Slow refill	0.30
		Depth to saturated zone	1.00	Cutbanks cave	0.10
		Ponding	1.00		
		Leaching limitation	0.50		
WhB: Williams-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Cresbard-----	20	Somewhat limited Restricted permeability	0.89	Somewhat limited Slow refill	0.95
		Sodium content	0.18	Deep to water	0.90
				Cutbanks cave	0.10
				Salty water	0.01

Ag. Waste Application and Excavated Ponds -- continued  
Brown County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Tonka-----	15	Very limited Restricted permeability	1.00	Somewhat limited Slow refill	0.30
		Depth to saturated zone	1.00	Cutbanks cave	0.10
		Ponding	1.00		
		Leaching limitation	0.50		
WnB: Williams-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Niobell-----	30	Very limited Restricted permeability	1.00	Somewhat limited Slow refill	0.95
		Sodium content	0.82	Deep to water	0.90
				Cutbanks cave	0.10
				Salty water	0.01
WrD: Williams-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Vida-----	35	Somewhat limited Slope	0.63	Very limited Deep to water	1.00
		Restricted permeability	0.30		
Wsc: Williams-----	40	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Zahl-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Bowbells-----	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Wt: Winship-----	60	Somewhat limited Restricted permeability	0.89	Somewhat limited Slow refill	0.95
		Depth to saturated zone	0.84	Cutbanks cave	0.10
				Deep to water	0.07

Ag. Waste Application and Excavated Ponds -- continued  
Brown County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Tonka-----	25	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
Wy: Wyndmere-----	90	Somewhat limited Depth to saturated zone	0.84	Very limited Cutbanks cave Deep to water	1.00 0.07
Wz: Wyndmere-----	50	Somewhat limited Depth to saturated zone	0.84	Very limited Cutbanks cave Deep to water	1.00 0.07
Stirum-----	35	Very limited Depth to saturated zone Ponding Sodium content Restricted permeability Runoff limitation	1.00 1.00 0.82 0.50 0.40	Very limited Cutbanks cave Salty water	1.00 0.35
ZaD: Zahl-----	45	Somewhat limited Restricted permeability Slope	0.30 0.04	Very limited Deep to water	1.00
Embden-----	25	Not limited		Somewhat limited Deep to water Cutbanks cave	0.81 0.10
Wabek Variant-----	15	Very limited Filtering capacity Slope Leaching limitation Restricted permeability	1.00 0.63 0.45 0.30	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Brown County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
ZdE: Zahl-----	40	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
Kloten-----	25	Very limited Depth to bedrock Droughty Slope Runoff limitation	1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Edgeley-----	20	Very limited Slope Droughty Depth to bedrock	1.00 0.65 0.42	Very limited Deep to water	1.00
ZeA: Zell-----	85	Not limited		Very limited Deep to water	1.00
ZgD: Zell-----	55	Very limited Slope	1.00	Very limited Deep to water	1.00
Great Bend-----	35	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00

