

Ag. Waste Application and Excavated Ponds
Sanborn 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
AaA: Alwilda-----	90	Very limited Filtering capacity Droughty	1.00 0.04	Very limited Deep to water	1.00
AaB: Alwilda-----	95	Very limited Filtering capacity Droughty	1.00 0.04	Very limited Deep to water	1.00
Ab: Artesian-----	55	Very limited Restricted permeability Runoff limitation	1.00 0.40	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.81 0.10 0.01
Farmsworth-----	35	Very limited Restricted permeability Sodium content Depth to saturated zone Salinity Runoff limitation	1.00 1.00 0.95 0.50 0.40	Somewhat limited Slow refill Salty water Cutbanks cave Deep to water	0.99 0.50 0.10 0.02
BaE: Betts-----	85	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
BbD: Betts-----	45	Somewhat limited Slope Restricted permeability	0.63 0.30	Very limited Deep to water	1.00
Ethan-----	35	Somewhat limited Slope	0.63	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
BcA: Blendon-----	85	Not limited		Very limited Deep to water	1.00
BcB: Blendon-----	90	Not limited		Very limited Deep to water	1.00
Bd: Bon-----	98	Very limited Flooding	1.00	Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.30 0.10
CaA: Carthage-----	85	Somewhat limited Restricted permeability Depth to saturated zone	0.30 0.09	Very limited Deep to water	1.00
CaB: Carthage-----	90	Somewhat limited Restricted permeability Depth to saturated zone	0.30 0.09	Very limited Deep to water	1.00
CbA: Carthage-----	50	Somewhat limited Restricted permeability Depth to saturated zone	0.30 0.09	Very limited Deep to water	1.00
Clarno-----	35	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
CcB: Carthage-----	50	Somewhat limited Restricted permeability Depth to saturated zone	0.30 0.09	Very limited Deep to water	1.00
Hand-----	30	Not limited		Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Cd: Clamo-----	85	Very limited Restricted permeability Depth to saturated zone Flooding Leaching limitation	1.00 1.00 0.60 0.50	Very limited Slow refill Cutbanks cave Salty water	1.00 0.10 0.01
Ce: Clamo-----	90	Very limited Restricted permeability Depth to saturated zone Flooding Leaching limitation	1.00 1.00 0.60 0.50	Very limited Slow refill Cutbanks cave Salty water	1.00 0.10 0.01
Cf: Clamo-----	100	Very limited Restricted permeability Depth to saturated zone Flooding Ponding Leaching limitation	1.00 1.00 1.00 1.00 0.50	Very limited Slow refill Cutbanks cave Salty water	1.00 0.10 0.01
CgA: Clarno-----	90	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
ChB: Clarno-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Bonilla-----	30	Not limited		Very limited Deep to water	1.00
CkB: Clarno-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Dudley-----	25	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.78 0.40	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.78 0.10
CmB: Clarno-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Ethan-----	30	Not limited		Very limited Deep to water	1.00
CoA: Clarno-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Prosper-----	30	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
DaB: Davis-----	90	Not limited		Very limited Deep to water	1.00
Db: Davison-----	85	Somewhat limited Depth to saturated zone	0.68	Very limited Deep to water	1.00
Dc: Davison Variant-----	85	Somewhat limited Depth to saturated zone	0.43	Very limited Deep to water	1.00
DdA: Delmont-----	85	Very limited Depth to dense layer Filtering capacity Droughty	1.00 1.00 0.38	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
DeA: Doger-----	85	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.16	Very limited Deep to water	1.00
DeB: Doger-----	85	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.16	Very limited Deep to water	1.00
DfA: Dudley-----	30	Very limited Restricted permeability Sodium content Salinity Depth to saturated zone Runoff limitation	1.00 1.00 0.78 0.43 0.40	Somewhat limited Slow refill Salty water Deep to water Cutbanks cave	0.99 0.78 0.25 0.10
Jerould-----	30	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 Deep to water	1.00
Clarno-----	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Dh: Durrstein-----	85	Very limited Restricted permeability Depth to saturated zone Sodium content Salinity Runoff limitation	1.00 1.00 1.00 0.50 0.40	Very limited Slow refill Salty water Cutbanks cave	1.00 0.50 0.10

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Dk: Durrstein-----	50	Very limited Restricted permeability Depth to saturated zone Sodium content Salinity Runoff limitation	1.00 1.00 1.00 0.50 0.40	Very limited Slow refill Salty water Cutbanks cave	1.00 0.50 0.10
Farmsworth-----	30	Very limited Restricted permeability Sodium content Depth to saturated zone Salinity Runoff limitation	1.00 1.00 0.95 0.50 0.40	Somewhat limited Slow refill Salty water Cutbanks cave Deep to water	0.99 0.50 0.10 0.02
Ea: Elsmere-----	85	Very limited Filtering capacity Depth to saturated zone Leaching limitation Restricted permeability	1.00 1.00 0.45 0.30	Very limited Deep to water	1.00
Eb: Elsmere-----	55	Very limited Filtering capacity Depth to saturated zone Leaching limitation Restricted permeability	1.00 1.00 0.45 0.30	Very limited Deep to water	1.00
Orwet-----	25	Very limited Depth to saturated zone Filtering capacity Leaching limitation	1.00 1.00 0.90	Very limited Cutbanks cave	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
ECA: Enet-----	85	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
EdB: Enet-----	55	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Delmont-----	30	Very limited Depth to dense layer Filtering capacity Droughty	1.00 1.00 0.38	Very limited Deep to water	1.00
EeC: Ethan-----	45	Not limited		Very limited Deep to water	1.00
Clarno-----	35	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Fa: Fedora-----	75	Very limited Depth to saturated zone Filtering capacity Leaching limitation	1.00 1.00 0.70	Very limited Cutbanks cave	1.00
FbA: Forestburg-----	85	Not Rated Not Rated Filtering capacity Leaching limitation Restricted permeability Depth to saturated zone	1.00 0.45 0.30 0.24	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
FcB: Forestburg-----	60	Not Rated		Very limited	
		Not Rated		Deep to water	1.00
		Filtering capacity	1.00		
		Leaching limitation	0.45		
		Restricted permeability	0.30		
		Depth to saturated zone	0.24		
Ethan-----	20	Not limited		Very limited	
				Deep to water	1.00
FcC: Forestburg-----	50	Not Rated		Very limited	
		Not Rated		Deep to water	1.00
		Filtering capacity	1.00		
		Leaching limitation	0.45		
		Restricted permeability	0.30		
		Depth to saturated zone	0.24		
Ethan-----	35	Not limited		Very limited	
				Deep to water	1.00
HaA: Hand-----	45	Not limited		Very limited	
				Deep to water	1.00
Bonilla-----	30	Not limited		Very limited	
				Deep to water	1.00
HbB: Hand-----	50	Not limited		Very limited	
				Deep to water	1.00
Ethan-----	25	Not limited		Very limited	
				Deep to water	1.00
HcB: Houdek-----	45	Somewhat limited		Very limited	
		Restricted permeability	0.30	Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Dudley-----	25	Very limited Restricted permeability	1.00	Somewhat limited Slow refill	0.99
		Sodium content	1.00	Deep to water	0.90
		Salinity	0.78	Salty water	0.78
		Runoff limitation	0.40	Cutbanks cave	0.10
HdB: Houdek-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Ethan-----	25	Not limited		Very limited Deep to water	1.00
HeA: Houdek-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Prosper-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
HeB: Houdek-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Prosper-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
HfA: Houdek-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Stickney-----	25	Very limited Restricted permeability	1.00	Somewhat limited Slow refill	0.99
		Salinity	0.50	Deep to water	0.90
				Salty water	0.50
				Cutbanks cave	0.10

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Hk: Hoven-----	90	Very limited Restricted permeability Depth to saturated zone Ponding Sodium content Salinity	1.00 1.00 1.00 1.00 0.50	Somewhat limited Salty water Slow refill Cutbanks cave	0.50 0.30 0.10
HmA: Hoven-----	50	Very limited Restricted permeability Depth to saturated zone Ponding Sodium content Salinity	1.00 1.00 1.00 1.00 0.50	Somewhat limited Salty water Slow refill Cutbanks cave	0.50 0.30 0.10
Durrstein-----	40	Very limited Restricted permeability Depth to saturated zone Sodium content Salinity Runoff limitation	1.00 1.00 1.00 0.50 0.40	Very limited Slow refill Salty water Cutbanks cave	1.00 0.50 0.10
Ia: Ipage-----	50	Very limited Filtering capacity Leaching limitation Droughty Too acid	1.00 0.45 0.42 0.02	Very limited Cutbanks cave Deep to water	1.00 0.81
Els-----	30	Very limited Filtering capacity Depth to saturated zone Droughty Leaching limitation	1.00 0.95 0.45 0.45	Very limited Cutbanks cave Deep to water	1.00 0.02

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Ja: James-----	90	Very limited Restricted permeability Depth to saturated zone Flooding Salinity Sodium content	1.00 1.00 1.00 1.00 0.82	Very limited Slow refill Salty water Cutbanks cave	1.00 1.00 0.10
La: Lamo-----	90	Very limited Depth to saturated zone Flooding Restricted permeability	1.00 0.60 0.30	Somewhat limited Slow refill Cutbanks cave Deep to water	0.95 0.10 0.01
Lb: Lute-----	85	Very limited Restricted permeability Sodium content Depth to saturated zone Salinity Runoff limitation	1.00 1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
Lc: Lute-----	90	Very limited Restricted permeability Depth to saturated zone Sodium content Ponding Salinity	1.00 1.00 1.00 1.00 0.50	Very limited Cutbanks cave Salty water	1.00 0.50
LdA: Lute-----	55	Very limited Restricted permeability Sodium content Depth to saturated zone Salinity Runoff limitation	1.00 1.00 1.00 0.50 0.40	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Whitelake-----	30	Very limited Restricted permeability Sodium content Salinity	1.00 1.00 0.50	Very limited Cutbanks cave Deep to water Salty water	1.00 0.81 0.50
M-W: Miscellaneous Water Area-----	100	Not rated		Not rated	
Oa: Orwet-----	85	Very limited Depth to saturated zone Filtering capacity Leaching limitation	1.00 1.00 0.90	Very limited Cutbanks cave	1.00
Pa: Orthents, Gravelly--	100	Very limited Filtering capacity Droughty Leaching limitation	1.00 0.95 0.45	Very limited Deep to water	1.00
Sa: Shue-----	60	Very limited Filtering capacity Depth to saturated zone Restricted permeability	1.00 1.00 0.30	Very limited Deep to water	1.00
Davison-----	20	Somewhat limited Depth to saturated zone	0.43	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Sb: Shue Variant-----	90	Very limited Depth to saturated zone Ponding Filtering capacity Restricted permeability	1.00 1.00 1.00 0.30	Very limited Cutbanks cave Salty water	1.00 0.01
Ta: Tetonka-----	100	Very limited Restricted permeability Ponding Depth to saturated zone Filtering capacity Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Cutbanks cave	0.10
Tb: Tetonka-----	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 Salty water	0.30 0.10 0.01
TcA: Tetonka-----	35	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 Salty water	0.30 0.10 0.01
Davison-----	30	Somewhat limited Depth to saturated zone	0.68	Very limited Deep to water	1.00
Clarno-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Td: Tetonka Variant-----	90	Very limited Restricted permeability Ponding Depth to saturated zone Filtering capacity Leaching limitation	1.00 1.00 1.00 1.00 0.50	Very limited Cutbanks cave	1.00
VaC: Valentine-----	85	Very limited Filtering capacity Droughty Leaching limitation	1.00 0.88 0.45	Very limited Deep to water	1.00
W: Water-----	100	Not rated		Not rated	
Wa: Wann-----	85	Somewhat limited Depth to saturated zone Flooding Sodium content	0.84 0.60 0.08	Very limited Cutbanks cave Deep to water	1.00 0.07
Wb: Wann-----	50	Somewhat limited Depth to saturated zone Flooding Sodium content	0.84 0.60 0.08	Very limited Cutbanks cave Deep to water	1.00 0.07
Lamo-----	40	Very limited Depth to saturated zone Flooding Restricted permeability	1.00 0.60 0.30	Somewhat limited Slow refill Cutbanks cave Deep to water	0.95 0.10 0.01

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		Rating class and limiting features	Value	Rating class and limiting features	Value
WcB: Whitelake-----	45	Very limited Restricted permeability Sodium content Salinity	1.00 1.00 0.50	Very limited Cutbanks cave Deep to water Salty water	1.00 0.81 0.50
Woonsocket-----	35	Not limited		Very limited Cutbanks cave Deep to water	1.00 0.81
Wd: Woonsocket-----	85	Not limited		Very limited Cutbanks cave Deep to water	1.00 0.81
We: Worthing-----	95	Very limited Restricted permeability Ponding Depth to saturated zone Runoff limitation	1.00 1.00 1.00 0.40	Somewhat limited Slow refill Cutbanks cave Salty water	0.95 0.10 0.01
Wk: Worthing-----	95	Very limited Restricted permeability Ponding Depth to saturated zone Runoff limitation	1.00 1.00 1.00 0.40	Somewhat limited Slow refill Cutbanks cave Salty water	0.95 0.10 0.01

