

Ag. Waste Application and Excavated Ponds  
Sully 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: Agar-----	90	Not limited		Very limited Deep to water	1.00
AaB: Agar-----	90	Not limited		Very limited Deep to water	1.00
AaC: Agar-----	90	Not limited		Very limited Deep to water	1.00
AdA: Agar-----	50	Not limited		Very limited Deep to water	1.00
Degrey-----	35	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 1.00 0.40 0.01	Very limited Deep to water	1.00
AeA: Agar-----	60	Not limited		Very limited Deep to water	1.00
Eakin-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
AeB: Agar-----	60	Not limited		Very limited Deep to water	1.00
Eakin-----	35	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
AeC: Agar-----	55	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
Eakin-----	40	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
AgA: Agar-----	55	Not limited		Very limited Deep to water	1.00
Onita-----	43	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
AkA: Agar-----	50	Not limited		Very limited Deep to water	1.00
Walke-----	30	Very limited Sodium content Restricted permeability	1.00 0.89	Very limited Deep to water	1.00
AlA: Akaska-----	90	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
AlB: Akaska-----	90	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
BeE: Betts-----	80	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
Cd: Wendte-----	65	Very limited Restricted permeability Flooding Runoff limitation	1.00 0.60 0.40	Very limited Slow refill Deep to water Cutbanks cave	1.00 0.90 0.10

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Herdcamp-----	25	Very limited Restricted permeability Depth to saturated zone Flooding Runoff limitation Sodium content	1.00 1.00 1.00 0.40 0.02	Very limited Slow refill Cutbanks cave Salty water	1.00 0.10 0.01
DoF: Dupree-----	60	Very limited Slope Restricted permeability Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Opal-----	25	Very limited Restricted permeability Slope Droughty Depth to bedrock Runoff limitation	1.00 1.00 0.97 0.42 0.40	Very limited Deep to water	1.00
Ds: Dupree-----	50	Very limited Slope Restricted permeability Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Rock Outcrop, Soft--	30	Not rated		Not rated	
Du: Durrstein-----	45	Very limited Restricted permeability Depth to saturated zone Sodium content 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

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Egas-----	45	Very limited Restricted permeability Depth to saturated zone Salinity Flooding Runoff limitation	1.00 1.00 0.78 0.60 0.40	Very limited Slow refill Salty water Cutbanks cave	1.00 0.78 0.10
Eg: Egas-----	90	Very limited Restricted permeability Depth to saturated zone Salinity Flooding Runoff limitation	1.00 1.00 0.78 0.60 0.40	Very limited Slow refill Salty water Cutbanks cave	1.00 0.78 0.10
Ep: Elpam-----	95	Very limited Depth to saturated zone Flooding Runoff limitation Restricted permeability	1.00 1.00 0.40 0.30	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
GeE: Gettys-----	80	Very limited Slope Restricted permeability	1.00 0.89	Very limited Deep to water	1.00
GlA: Glenham-----	85	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
GlB: Glenham-----	85	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
GlC: Glenham-----	90	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
Gp: Orthents, Gravelly--	99	Very limited Filtering capacity Droughty Leaching limitation	1.00 0.71 0.45	Very limited Deep to water	1.00
HcA: Highmore-----	90	Not limited		Very limited Deep to water	1.00
HdA: Highmore-----	60	Not limited		Very limited Deep to water	1.00
Degrey-----	30	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 1.00 0.40 0.01	Very limited Deep to water	1.00
HeA: Highmore-----	55	Not limited		Very limited Deep to water	1.00
Eakin-----	30	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
HeB: Highmore-----	45	Not limited		Very limited Deep to water	1.00
Eakin-----	40	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
HmA: Highmore-----	45	Not limited		Very limited Deep to water	1.00
Walke-----	30	Very limited Sodium content Restricted permeability	1.00 0.89	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
Ho: 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
HuA: Hurley-----	85	Very limited Restricted permeability Droughty Sodium content Salinity Depth to bedrock	1.00 1.00 1.00 0.50 0.42	Very limited Deep to water	1.00
JbD: Java-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Betts-----	30	Somewhat limited Slope Restricted permeability	0.37 0.30	Very limited Deep to water	1.00
JcD: Java-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Betts-----	35	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
JgC: Java-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Glenham-----	40	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
JkA: Jerauld-----	55	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
Demky-----	30	Very limited Restricted permeability Sodium content Runoff limitation	1.00 1.00 0.40	Very limited Slow refill Deep to water Salty water Cutbanks cave	1.00 0.90 0.50 0.10
LoA: Lowry-----	90	Not limited		Very limited Deep to water	1.00
LoB: Lowry-----	90	Not limited		Very limited Deep to water	1.00
LoC: Lowry-----	90	Not limited		Very limited Deep to water	1.00
LoD: Lowry-----	90	Somewhat limited Slope	0.37	Very limited Deep to water	1.00
Ma: Macken-----	80	Very limited Restricted permeability Depth to saturated zone Ponding Runoff limitation	1.00 1.00 1.00 0.40	Somewhat limited Slow refill Cutbanks cave	0.95 0.10
OaA: Oahe-----	90	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
OaB: Oahe-----	90	Very limited Filtering capacity	1.00	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
OhA: Oahe-----	65	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Talmo-----	25	Very limited Filtering capacity Droughty Leaching limitation	1.00 0.76 0.45	Very limited Deep to water	1.00
OhB: Oahe-----	60	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Talmo-----	35	Very limited Filtering capacity Droughty Leaching limitation	1.00 0.76 0.45	Very limited Deep to water	1.00
OkA: Oko-----	85	Very limited Restricted permeability Runoff limitation Salinity	1.00 0.40 0.01	Very limited Deep to water	1.00
OkB: Oko-----	90	Very limited Restricted permeability Runoff limitation Salinity	1.00 0.40 0.01	Very limited Deep to water	1.00
OkC: Oko-----	90	Very limited Restricted permeability Runoff limitation Salinity	1.00 0.40 0.01	Very limited Deep to water	1.00
OlE: Oko-----	85	Very limited Restricted permeability Slope Salinity	1.00 1.00 0.01	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
OnA: Onita-----	90	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
OnB: Onita-----	90	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
OrA: Onita-----	60	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Degrey-----	35	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 1.00 0.40 0.01	Very limited Deep to water	1.00
OsA: Onita-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Hoven-----	40	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
OtB: Opal-----	85	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Sodium content	1.00 0.97 0.42 0.40 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
OtC: Opal-----	90	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Sodium content	1.00 0.97 0.42 0.40 0.02	Very limited Deep to water	1.00
OuD: Opal-----	55	Very limited Restricted permeability Droughty Slope Depth to bedrock Runoff limitation	1.00 0.97 0.96 0.42 0.40	Very limited Deep to water	1.00
Dupree-----	35	Very limited Restricted permeability Depth to bedrock Droughty Slope Runoff limitation	1.00 1.00 1.00 0.96 0.40	Very limited Deep to water	1.00
PrA: Promise-----	90	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
PrB: Promise-----	90	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
RcA: Raber-----	45	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Cavo-----	40	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 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
RcB: Raber-----	50	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Cavo-----	35	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
RdA: Raber-----	60	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Demky-----	35	Very limited Restricted permeability Sodium content Runoff limitation	1.00 1.00 0.40	Very limited Slow refill Deep to water Salty water Cutbanks cave	1.00 0.90 0.50 0.10
RdB: Raber-----	65	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Demky-----	25	Very limited Restricted permeability Sodium content Runoff limitation	1.00 1.00 0.40	Very limited Slow refill Deep to water Salty water Cutbanks cave	1.00 0.90 0.50 0.10
RgB: Glenham-----	40	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Raber-----	40	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
RgC: Glenham-----	42	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
Raber-----	42	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
RhA: Raber-----	60	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Highmore-----	35	Not limited		Very limited Deep to water	1.00
RhC: Raber-----	50	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Eakin-----	30	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
RpB: Raber-----	55	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Peno-----	35	Somewhat limited Restricted permeability Salinity	0.89 0.01	Very limited Deep to water	1.00
RpC: Raber-----	50	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Peno-----	40	Somewhat limited Restricted permeability Salinity	0.89 0.01	Very limited Deep to water	1.00
RrA: Ree-----	90	Not limited		Very limited Deep to water	1.00
RrB: Ree-----	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
Rt: Durrstein-----	37	Very limited Restricted permeability Depth to saturated zone Sodium content 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
Ree-----	37	Not limited		Very limited Deep to water	1.00
Ru: Betts-----	45	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
Gettys-----	40	Very limited Slope Restricted permeability	1.00 0.89	Very limited Deep to water	1.00
Sa: Egas-----	55	Very limited Restricted permeability Depth to saturated zone Salinity Flooding Runoff limitation	1.00 1.00 0.78 0.60 0.40	Very limited Slow refill Salty water Cutbanks cave	1.00 0.78 0.10
Slickspots, Loamy---	25	Not rated		Not rated	
St: Rock Outcrop, Soft--	65	Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Dupree-----	20	Very limited Restricted permeability Depth to bedrock Droughty Slope Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
SuE: Sully-----	80	Very limited Slope	1.00	Very limited Deep to water	1.00
SwD: Sully-----	60	Not limited		Very limited Deep to water	1.00
Lowry-----	25	Not limited		Very limited Deep to water	1.00
TaE: Talmo-----	75	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 0.76 0.45	Very limited Deep to water	1.00
w: Water (less Than 40 Acres)-----	100	Not rated		Not rated	

