

Ag. Waste Application and Excavated Ponds
Bennett 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
Aa: Lohmiller-----	85	Very limited Flooding Restricted permeability	1.00 0.89	Very limited Deep to water	1.00
AlB: Altvan-----	90	Very limited Filtering capacity Droughty	1.00 0.02	Very limited Deep to water	1.00
AnB: Anselmo-----	90	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
AtE: Anselmo-----	45	Very limited Filtering capacity Slope	1.00 0.96	Very limited Deep to water	1.00
Tassel-----	30	Very limited Depth to bedrock Droughty Slope Runoff limitation	1.00 1.00 0.96 0.40	Very limited Deep to water	1.00
Bk: Bankard-----	85	Very limited Filtering capacity Droughty Leaching limitation	1.00 0.60 0.45	Very limited Deep to water	1.00
Bo: Orthents, Hummocky--	90	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
CnF: Canyon-----	60	Very limited Slope Depth to bedrock Droughty Low adsorption Runoff limitation	1.00 1.00 1.00 0.41 0.40	Very limited Deep to water	1.00
Rock Outcrop, Sandstone-----	20	Not rated		Not rated	
CoF: Canyon-----	50	Very limited Slope Depth to bedrock Droughty Low adsorption Runoff limitation	1.00 1.00 1.00 0.41 0.40	Very limited Deep to water	1.00
Oglala-----	30	Very limited Slope	1.00	Very limited Deep to water	1.00
Cr: Canyon-----	60	Very limited Slope Depth to bedrock Droughty Low adsorption Runoff limitation	1.00 1.00 1.00 0.41 0.40	Very limited Deep to water	1.00
Rock Outcrop, Sandy-	25	Not rated		Not rated	
CyD2: Canyon-----	60	Very limited Depth to bedrock Droughty Low adsorption Runoff limitation	1.00 1.00 0.41 0.40	Very limited Deep to water	1.00
Rosebud-----	30	Somewhat limited Depth to bedrock Droughty	0.42 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
DkA: Dawes-----	60	Not limited		Very limited Deep to water	1.00
Keith-----	30	Not limited		Very limited Deep to water	1.00
DrB: Dawes-----	65	Not limited		Very limited Deep to water	1.00
Richfield-----	30	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
DsB: Dunday-----	90	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
		Leaching limitation	0.45		
		Droughty	0.08		
Vetal-----	3	Not limited		Very limited Deep to water	1.00
DtA: Dunday-----	60	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
		Leaching limitation	0.45		
		Droughty	0.08		
Anselmo-----	30	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
DtC: Dunday-----	65	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
		Leaching limitation	0.45		
		Droughty	0.08		
Anselmo-----	25	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Du: Dunday-----	50	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.08	Very limited Deep to water	1.00
Elsmere-----	45	Very limited Filtering capacity Depth to saturated zone Leaching limitation Droughty	1.00 0.95 0.45 0.38	Very limited Cutbanks cave Deep to water	1.00 0.02
DvB: Dunday-----	50	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.08	Very limited Deep to water	1.00
Valentine-----	35	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.29	Very limited Deep to water	1.00
EhF: Epping-----	55	Very limited Slope Depth to bedrock Droughty Low adsorption Runoff limitation	1.00 1.00 1.00 0.83 0.40	Very limited Deep to water	1.00
Kadoka-----	30	Somewhat limited Slope Depth to bedrock Droughty	0.63 0.42 0.01	Very limited Deep to water	1.00

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Ga: Gannett-----	85	Very limited Depth to saturated zone Filtering capacity Runoff limitation Droughty	1.00 1.00 0.40 0.21	Very limited Cutbanks cave	1.00
GoA: Mobridge-----	90	Not limited		Very limited Deep to water	1.00
GoB: Mobridge-----	90	Not limited		Very limited Deep to water	1.00
Gr: Nihill-----	85	Very limited Slope	1.00	Very limited Deep to water	1.00
HaA: Haverson-----	90	Somewhat limited Flooding	0.60	Very limited Deep to water	1.00
HtB: Holt-----	45	Somewhat limited Droughty Depth to bedrock Sodium content	0.97 0.42 0.08	Very limited Deep to water	1.00
Tuthill-----	45	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
HtC: Holt-----	45	Somewhat limited Droughty Depth to bedrock Sodium content	0.97 0.42 0.08	Very limited Deep to water	1.00
Tuthill-----	45	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Hv: Hoven-----	95	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
KaB: Kadoka-----	90	Somewhat limited Depth to bedrock Droughty	0.42 0.01	Very limited Deep to water	1.00
KeA: Keith-----	90	Not limited		Very limited Deep to water	1.00
KeB: Keith-----	85	Not limited		Very limited Deep to water	1.00
KhD: Keith-----	65	Somewhat limited Slope	0.16	Very limited Deep to water	1.00
Colby-----	20	Somewhat limited Slope	0.37	Very limited Deep to water	1.00
KrA: Keith-----	50	Not limited		Very limited Deep to water	1.00
Rosebud-----	45	Somewhat limited Depth to bedrock Droughty	0.42 0.30	Very limited Deep to water	1.00
KrB: Keith-----	55	Not limited		Very limited Deep to water	1.00
Rosebud-----	35	Somewhat limited Depth to bedrock Droughty	0.42 0.30	Very limited Deep to water	1.00
KuC: Keith-----	45	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
Ulysses-----	45	Not limited		Very limited Deep to water	1.00
La: Lamo-----	85	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Cutbanks cave Slow refill Deep to water	1.00 0.43 0.01
Lo: Loup-----	90	Very limited Depth to saturated zone Filtering capacity Flooding Runoff limitation	1.00 1.00 0.60 0.40	Very limited Cutbanks cave	1.00
Ma: Aquolls-----	90	Not rated		Not rated	
Me: Minatare-----	80	Very limited Sodium content Depth to saturated zone Salinity Flooding Runoff limitation	1.00 1.00 0.97 0.60 0.40	Somewhat limited Salty water Cutbanks cave Deep to water	0.97 0.10 0.01
Mm: Mosher-----	65	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Cutbanks cave Deep to water Salty water Slow refill	1.00 0.81 0.50 0.43
Minatare-----	30	Very limited Sodium content Depth to saturated zone Salinity Runoff limitation Restricted permeability	1.00 1.00 0.97 0.40 0.30	Somewhat limited Salty water Cutbanks cave Deep to water	0.97 0.10 0.01

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		Rating class and limiting features	Value	Rating class and limiting features	Value
OcE: Oglala-----	50	Very limited Slope	1.00	Very limited Deep to water	1.00
Canyon-----	30	Very limited Depth to bedrock Droughty Slope Low adsorption Runoff limitation	1.00 1.00 0.63 0.41 0.40	Very limited Deep to water	1.00
OrA: Oglala-----	65	Not limited		Very limited Deep to water	1.00
OrB: Oglala-----	50	Not limited		Very limited Deep to water	1.00
RkA: Richfield-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Keith-----	45	Not limited		Very limited Deep to water	1.00
RkB: Richfield-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Keith-----	40	Not limited		Very limited Deep to water	1.00
TaF: Tassel-----	60	Very limited Slope Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Anselmo-----	25	Very limited Slope Filtering capacity	1.00 1.00	Very limited Deep to water	1.00
TnB: Anselmo-----	45	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Tuthill-----	45	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
TnC: Tuthill-----	40	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Anselmo-----	40	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
VaC: Valentine-----	90	Very limited Filtering capacity Leaching limitation Slope Droughty	1.00 0.45 0.37 0.29	Very limited Deep to water	1.00
VaD: Valentine-----	85	Very limited Slope Filtering capacity Leaching limitation Droughty	1.00 1.00 0.45 0.29	Very limited Deep to water	1.00
VeD: Valentine-----	60	Very limited Slope Filtering capacity Leaching limitation Droughty	1.00 1.00 0.45 0.29	Very limited Deep to water	1.00
Tassel-----	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
VgA: Mobridge-----	45	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
Vetal-----	45	Not limited		Very limited Deep to water	1.00
VhD: Vetal-----	60	Not limited		Very limited Deep to water	1.00
Holt-----	25	Somewhat limited Droughty Slope Depth to bedrock Sodium content	0.97 0.63 0.42 0.08	Very limited Deep to water	1.00
w: Water (less Than 40 Acres)-----	100	Not rated		Not rated	
ww: Water (greater Than 40 Acres)-----	100	Not rated		Not rated	

