

Ag. Waste Application and Excavated Ponds  
Faulk 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
Bb: Bowbells-----	80	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
BoA: Bowdle-----	90	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
BrA: Bryant-----	65	Not limited		Very limited Deep to water	1.00
Grassna-----	20	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
BrB: Bryant-----	60	Not limited		Very limited Deep to water	1.00
Grassna-----	25	Not limited		Very limited Deep to water	1.00
Ha: Harriet-----	85	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
He: Heil-----	90	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

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		Rating class and limiting features	Value	Rating class and limiting features	Value
La: La Prairie-----	80	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
Lb: La Prairie-----	80	Very limited Flooding	1.00	Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
LeA: Lehr-----	90	Very limited Filtering capacity Droughty	1.00 0.78	Very limited Deep to water	1.00
LeB: Lehr-----	90	Very limited Filtering capacity Droughty	1.00 0.78	Very limited Deep to water	1.00
MaA: Ruso-----	90	Very limited Filtering capacity Droughty	1.00 0.92	Very limited Deep to water	1.00
MbA: Manning Variant----	90	Very limited Filtering capacity Restricted permeability Depth to saturated zone	1.00 0.89 0.43	Very limited Cutbanks cave Deep to water	1.00 0.25
MdA: Max-----	65	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Arnegard-----	20	Not limited		Very limited Deep to water	1.00
MmB: Max-----	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
Arnegard-----	25	Not limited		Very limited Deep to water	1.00
Zahl-----	15	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
MnB: Max-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Niobell-----	20	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-----	15	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 0.82 0.40 0.01	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.90 0.10 0.01
MoA: Mondamin-----	85	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
MoB: Mondamin-----	85	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
NaA: 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 Salinity	1.00 0.82 0.40 0.01	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.90 0.10 0.01

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		Rating class and limiting features	Value	Rating class and limiting features	Value
NbA: 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
Max-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Noonan-----	25	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 0.82 0.40 0.01	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.90 0.10 0.01
Nn: 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
NoA: Noonan-----	50	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 0.82 0.40 0.01	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.90 0.10 0.01
Miranda-----	30	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

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Pa: Parnell-----	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	0.95 0.10
Pp: Parnell-----	90	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	0.95 0.10
Pt: Orthents, Gravelly--	99	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 0.71 0.45	Very limited Deep to water	1.00
RaA: Raber-----	55	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Cavo-----	30	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
RaB: Raber-----	55	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Cavo-----	30	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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		Rating class and limiting features	Value	Rating class and limiting features	Value
Rh: Ranslo-----	50	Very limited Restricted permeability Depth to saturated zone Flooding Runoff limitation	1.00 1.00 0.60 0.40	Somewhat limited Slow refill Cutbanks cave Salty water Deep to water	0.95 0.10 0.01 0.01
Harriet-----	35	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
TaA: Tally-----	80	Not limited		Very limited Deep to water	1.00
TaB: Tally-----	80	Not limited		Very limited Deep to water	1.00
Th: Tonka-----	55	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
VaC: Vida-----	50	Very limited Cobble content 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
Williams-----	30	Somewhat limited Large stones on the surface Restricted permeability	0.32 0.30	Very limited Deep to water	1.00
VdC: Vida-----	35	Very limited Cobble content Slope Restricted permeability	1.00 0.63 0.30	Very limited Deep to water	1.00
Williams-----	25	Somewhat limited Large stones on the surface Restricted permeability	0.32 0.30	Very limited Deep to water	1.00
Bowbells-----	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
w: Water (less Than 40 Acres)-----	100	Not rated		Not rated	
WaD: Wabek-----	90	Very limited Filtering capacity Slope Droughty Leaching limitation	1.00 1.00 0.82 0.45	Very limited Deep to water	1.00
WbC: Wabek-----	50	Very limited Filtering capacity Droughty Leaching limitation	1.00 0.82 0.45	Very limited Deep to water	1.00
Bowdle-----	35	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
WnA: Williams-----	60	Somewhat limited Large stones on the surface Restricted permeability	0.32 0.30	Very limited Deep to water	1.00
Bowbells-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
WnB: Williams-----	60	Somewhat limited Large stones on the surface Restricted permeability	0.32 0.30	Very limited Deep to water	1.00
Bowbells-----	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
WOA: Williams-----	50	Somewhat limited Large stones on the surface Restricted permeability	0.32 0.30	Very limited Deep to water	1.00
Bowbells-----	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Nishon-----	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
WoB: Williams-----	40	Somewhat limited Large stones on the surface Restricted permeability	0.32 0.30	Very limited Deep to water	1.00

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Bowbells-----	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Nishon-----	20	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
WpA: Williams-----	55	Somewhat limited Large stones on the surface Restricted permeability	0.32 0.30	Very limited Deep to water	1.00
Bowbells-----	15	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Noonan-----	15	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 0.82 0.40 0.01	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.90 0.10 0.01
WpB: Williams-----	50	Somewhat limited Large stones on the surface Restricted permeability	0.32 0.30	Very limited Deep to water	1.00
Bowbells-----	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Noonan-----	15	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 0.82 0.40 0.01	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.90 0.10 0.01

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		Rating class and limiting features	Value	Rating class and limiting features	Value
WtC: Williams-----	35	Somewhat limited Large stones on the surface Restricted permeability	0.32 0.30	Very limited Deep to water	1.00
Bowbells-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Parnell-----	20	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	0.95 0.10
WvB: Williams-----	50	Somewhat limited Large stones on the surface Restricted permeability	0.32 0.30	Very limited Deep to water	1.00
Bowbells-----	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Vida-----	15	Very limited Cobble content Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
WwB: Williams-----	45	Somewhat limited Large stones on the surface Restricted permeability	0.32 0.30	Very limited Deep to water	1.00
Niobell-----	20	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

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Noonan-----	15	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 0.82 0.40 0.01	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.90 0.10 0.01
WxC: Williams-----	40	Somewhat limited Large stones on the surface Restricted permeability	0.32 0.30	Very limited Deep to water	1.00
Bowbells-----	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Vida-----	20	Very limited Cobble content Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
WzD: Williams-----	40	Somewhat limited Slope Large stones on the surface Restricted permeability	0.63 0.32 0.30	Very limited Deep to water	1.00
Zahill-----	25	Somewhat limited Slope Restricted permeability	0.63 0.30	Very limited Deep to water	1.00
Bowbells-----	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
ZaE: Zahill-----	80	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
ZcE: Zahill-----	80	Very limited Slope Restricted permeability	1.00 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
Z1D: Zahill-----	45	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
La Prairie-----	30	Very limited Flooding	1.00	Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
ZmC: Zahl-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Max-----	40	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
ZmD: Zahl-----	45	Somewhat limited Slope Restricted permeability	0.63 0.30	Very limited Deep to water	1.00
Max-----	35	Somewhat limited Slope Restricted permeability	0.63 0.30	Very limited Deep to water	1.00

