

Ag. Waste Application and Excavated Ponds  
Bon Homme 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: Alcester-----	85	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.96 0.30 0.10
AcA: Alcester-----	50	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.96 0.30 0.10
Chancellor-----	35	Very limited Restricted permeability Flooding Depth to saturated zone	1.00 1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.98 0.10
Bn: Bon-----	85	Somewhat limited Flooding	0.60	Very limited Deep to water	1.00
Bo: Bon-----	85	Very limited Flooding	1.00	Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.30 0.10
Br: Bonilla-----	50	Not limited		Very limited Deep to water	1.00
Crossplain-----	30	Very limited Flooding Depth to saturated zone Restricted permeability	1.00 1.00 0.81	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
BsE: Boyd-----	50	Very limited Slope Restricted permeability Droughty Depth to bedrock Runoff limitation	1.00 1.00 1.00 0.42 0.40	Very limited Deep to water	1.00
Sansarc-----	30	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
CmA: Clarno-----	60	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Bonilla-----	25	Not limited		Very limited Deep to water	1.00
CmB: Clarno-----	60	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Bonilla-----	25	Not limited		Very limited Deep to water	1.00
CnA: Clarno-----	45	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Crossplain-----	25	Very limited Flooding Depth to saturated zone Restricted permeability	1.00 1.00 0.81	Very limited Deep to water	1.00
Davison-----	15	Somewhat limited Depth to saturated zone	0.68	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
CsB: Clarno-----	45	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Ethan-----	25	Not limited		Very limited Deep to water	1.00
Bonilla-----	15	Not limited		Very limited Deep to water	1.00
DaB: Davis-----	85	Not limited		Very limited Deep to water	1.00
DaC: Davis-----	85	Not limited		Very limited Deep to water	1.00
DlC: Delmont-----	50	Very limited Depth to dense layer	1.00	Very limited Deep to water	1.00
		Filtering capacity	1.00		
		Droughty	0.28		
Talmo-----	30	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
		Droughty	0.87		
		Leaching limitation	0.45		
EaA: Eltree-----	90	Not limited		Very limited Deep to water	1.00
EaB: Eltree-----	85	Not limited		Very limited Deep to water	1.00
EbC: Eltree-----	50	Not limited		Very limited Deep to water	1.00
Ethan-----	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
EbE: Eltree-----	50	Somewhat limited Slope	0.63	Very limited Deep to water	1.00
Ethan-----	35	Very limited Slope	1.00	Very limited Deep to water	1.00
EcD: Eltree-----	55	Somewhat limited Slope	0.63	Very limited Deep to water	1.00
Crofton-----	30	Somewhat limited Slope	0.63	Very limited Deep to water	1.00
EdA: Enet-----	50	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Delmont-----	35	Very limited Depth to dense layer Filtering capacity Droughty	1.00 1.00 0.28	Very limited Deep to water	1.00
EdB: Enet-----	45	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Delmont-----	40	Very limited Depth to dense layer Filtering capacity Droughty	1.00 1.00 0.28	Very limited Deep to water	1.00
EhB: Ethan-----	45	Not limited		Very limited Deep to water	1.00
Alcester-----	35	Not limited		Very limited Deep to water	1.00
EhC: Ethan-----	50	Not limited		Very limited Deep to water	1.00
Alcester-----	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
EmE: Ethan-----	50	Very limited Slope	1.00	Very limited Deep to water	1.00
Betts-----	30	Very limited Slope Restricted permeability	1.00 0.50	Very limited Deep to water	1.00
EnC: Ethan-----	55	Not limited		Very limited Deep to water	1.00
Bonilla-----	30	Not limited		Very limited Deep to water	1.00
EoD: Ethan-----	50	Somewhat limited Slope	0.63	Very limited Deep to water	1.00
Davis-----	40	Somewhat limited Slope	0.63	Very limited Deep to water	1.00
EpC: Ethan-----	55	Not limited		Very limited Deep to water	1.00
Homme-----	35	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Fv: Norway-----	100	Very limited Depth to saturated zone Flooding Filtering capacity Droughty Runoff limitation	1.00 1.00 1.00 0.65 0.40	Very limited Cutbanks cave	1.00
GeE: Gavins-----	50	Very limited Slope Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Ethan-----	30	Very limited Slope	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
GrA: Graceville-----	85	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
HmA: Homme-----	50	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Davison-----	20	Somewhat limited Depth to saturated zone	0.68	Very limited Deep to water	1.00
Tetonka-----	20	Very limited Restricted permeability Ponding Depth to saturated zone Leaching limitation	1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave Salty water	0.30 0.10 0.01
HnB: Homme-----	45	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Ethan-----	25	Not limited		Very limited Deep to water	1.00
Onita-----	15	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
HpB: Homme-----	50	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Ethan-----	20	Not limited		Very limited Deep to water	1.00
Tetonka-----	15	Very limited Restricted permeability Ponding Depth to saturated zone Leaching limitation	1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave Salty water	0.30 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
HpC: Homme-----	45	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Ethan-----	25	Not limited		Very limited Deep to water	1.00
Tetonka-----	15	Very limited Restricted permeability	1.00	Somewhat limited Slow refill	0.30
		Ponding	1.00	Cutbanks cave	0.10
		Depth to saturated zone	1.00	Salty water	0.01
		Leaching limitation	0.50		
HrA: Homme-----	60	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Onita-----	25	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
HrB: Homme-----	60	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Onita-----	25	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
HtA: Homme-----	45	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Onita-----	25	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Tetonka-----	15	Very limited Restricted permeability	1.00	Somewhat limited Slow refill	0.30
		Ponding	1.00	Cutbanks cave	0.10
		Depth to saturated zone	1.00	Salty water	0.01
		Leaching limitation	0.50		
La: Lamo-----	85	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill	0.97
		Flooding	0.60	Cutbanks cave	0.10
		Restricted permeability	0.50	Deep to water	0.01
M-W: Miscellaneous Water-	100	Not rated		Not rated	
OcA: Onita-----	55	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Chancellor-----	30	Very limited Restricted permeability	1.00	Somewhat limited Slow refill	0.98
		Flooding	1.00	Cutbanks cave	0.10
		Depth to saturated zone	1.00		
ReD: Redstoe Variant-----	50	Somewhat limited Slope	0.37	Very limited Deep to water	1.00
Gavins-----	30	Very limited Depth to bedrock	1.00	Very limited Deep to water	1.00
		Droughty	1.00		
		Slope	1.00		
		Runoff limitation	0.40		

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Sa: Salmo-----	85	Very limited Depth to saturated zone Flooding Restricted permeability Salinity Leaching limitation	1.00 1.00 0.81 0.50 0.50	Somewhat limited Salty water Slow refill Cutbanks cave	0.50 0.47 0.10
Sb: Sardak-----	60	Very limited Flooding Filtering capacity Droughty Leaching limitation	1.00 1.00 0.65 0.45	Very limited Deep to water	1.00
Waubonsie-----	25	Very limited Restricted permeability Flooding Depth to saturated zone	1.00 1.00 1.00	Very limited Slow refill Cutbanks cave Deep to water	1.00 0.10 0.01
TaE: Talmo-----	60	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 0.87 0.45	Very limited Deep to water	1.00
Delmont-----	30	Very limited Slope Depth to dense layer Filtering capacity Droughty	1.00 1.00 1.00 0.28	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
TbE: Talmo-----	45	Very limited Slope Filtering capacity Droughty Cobble content Leaching limitation	1.00 1.00 0.98 0.87 0.45	Very limited Deep to water	1.00
Ethan-----	35	Very limited Slope Cobble content Large stones on the surface Restricted permeability	1.00 1.00 0.92 0.50	Very limited Deep to water	1.00
Te: Tetonka-----	85	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
ThC: Thurman-----	80	Very limited Filtering capacity Droughty Leaching limitation Slope	1.00 0.49 0.45 0.04	Very limited Deep to water	1.00
ThE: Thurman-----	80	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 0.49 0.45	Very limited Deep to water	1.00
W: Water-----	100	Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Wg: Worthing-----	85	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	0.97 0.10 0.01
Wo: Worthing-----	99	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	0.97 0.10 0.01
YaA: Yankton-----	60	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Alcester-----	25	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.96 0.30 0.10
YaB: Yankton-----	60	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Alcester-----	25	Not limited		Very limited Deep to water	1.00

