

Ag. Waste Application and Excavated Ponds  
Hyde 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
BdA: Bend-----	50	Not limited		Very limited Deep to water	1.00
Edwin-----	40	Not limited		Very limited Deep to water	1.00
BkE: Betts-----	55	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
Java-----	35	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
BkF: Betts-----	55	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
Java-----	35	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
Bn: Bon-----	90	Somewhat limited Flooding	0.60	Somewhat limited Deep to water Cutbanks cave	0.81 0.10
BuA: Bullcreek-----	95	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
CcA: Capa-----	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
Carter-----	35	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 0.82 0.40 0.01	Very limited Deep to water	1.00
ClA: Capa-----	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
Slickspots, Dry-----	30	Not rated		Not rated	
CpA: Carter-----	50	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 0.82 0.40 0.01	Very limited Deep to water	1.00
Promise-----	40	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
CrA: Cavo-----	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

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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
Jerauld-----	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
Cs: Cavo-----	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
Stickney-----	35	Very limited Restricted permeability Salinity	1.00 0.50	Somewhat limited Slow refill  Deep to water Salty water Cutbanks cave	0.99  0.90 0.50 0.10
Df: Degrey-----	55	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 1.00 0.40 0.01	Very limited Deep to water	1.00
Walke-----	35	Very limited Sodium content Restricted permeability	1.00 0.89	Very limited Deep to water	1.00
DnB: Delmont-----	60	Very limited Depth to dense layer Filtering capacity Droughty	1.00 1.00 0.24	Very limited Deep to water	1.00
Oahe-----	30	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: Durrstein-----	55	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
Egas-----	35	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
EpC: Eakin-----	65	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Peno-----	25	Somewhat limited Restricted permeability Salinity	0.89 0.01	Very limited Deep to water	1.00
ErA: Eakin-----	65	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Raber-----	25	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
ErB: Eakin-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Raber-----	35	Somewhat limited Restricted permeability	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
GfF: Gettys-----	50	Very limited Slope Restricted permeability	1.00 0.89	Very limited Deep to water	1.00
Sansarc-----	40	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
GmB: Glenham-----	60	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Java-----	30	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
GnA: Glenham-----	40	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Java-----	30	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Cavo-----	20	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
GrA: Glenham-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Prosper-----	35	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
GrB: Glenham-----	60	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
GsA: Glenham-----	40	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
Hoven-----	20	Very limited Restricted permeability	1.00	Somewhat limited Salty water	0.50
		Depth to saturated zone	1.00	Slow refill	0.30
		Ponding	1.00	Cutbanks cave	0.10
		Sodium content	1.00		
		Salinity	0.50		
GtB: Glenham-----	40	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
Java-----	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
GuA: Glenham-----	35	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Stickney-----	30	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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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
Hoven-----	25	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
HaA: Henkin-----	55	Not limited		Very limited Deep to water	1.00
Blendon-----	35	Not limited		Very limited Deep to water	1.00
HdA: Highmore-----	50	Not limited		Very limited Deep to water	1.00
Degrey-----	40	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 1.00 0.40 0.01	Very limited Deep to water	1.00
HdB: Highmore-----	55	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
HeA: Highmore-----	65	Not limited		Very limited Deep to water	1.00
Eakin-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
HeB: Highmore-----	55	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
Eakin-----	35	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Ho: 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
HuB: Hurley-----	85	Very limited Restricted permeability Sodium content Droughty Salinity Depth to bedrock	1.00 1.00 1.00 0.50 0.42	Very limited Deep to water	1.00
JaC: Java-----	40	Somewhat limited Cobble content Restricted permeability	0.50 0.30	Very limited Deep to water	1.00
Glenham-----	30	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Prosper-----	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
JbD: Java-----	60	Somewhat limited Slope Restricted permeability	0.37 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

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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
JcD: Java-----	55	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
Betts-----	35	Very limited Slope Restricted permeability Cobble content	1.00 0.30 0.04	Very limited Deep to water	1.00
JgB: Java-----	50	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
JgC: Java-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Glenham-----	35	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
JhC: Java-----	40	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Glenham-----	30	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Prosper-----	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
JsA: Jerauld-----	70	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
Slickspots, Dry-----	20	Not rated		Not rated	
Ko: Kolls-----	95	Very limited Restricted permeability Depth to saturated zone Ponding Runoff limitation	1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Lc: Lawet-----	95	Very limited Depth to saturated zone Leaching limitation	1.00 0.70	Somewhat limited Slow refill Cutbanks cave	0.43 0.10
M-W: Miscellaneous Water-	100	Not rated		Not rated	
Ma: Macken-----	95	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
Mb: Macken-----	95	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

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		Rating class and limiting features	Value	Rating class and limiting features	Value
OdA: Oahe-----	65	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Delmont-----	25	Very limited Depth to dense layer Filtering capacity Droughty	1.00 1.00 0.24	Very limited Deep to water	1.00
OkB: Oko-----	90	Very limited Restricted permeability Runoff limitation Droughty Salinity	1.00 0.40 0.30 0.01	Very limited Deep to water	1.00
OkC: Oko-----	90	Very limited Restricted permeability Runoff limitation Droughty Salinity	1.00 0.40 0.30 0.01	Very limited Deep to water	1.00
OkD: Oko-----	90	Very limited Restricted permeability Slope Runoff limitation Droughty Salinity	1.00 1.00 0.40 0.30 0.01	Very limited Deep to water	1.00
OnA: Onita-----	90	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Os: Onita-----	50	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
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-----	90	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Sodium content	1.00 1.00 0.42 0.40 0.02	Very limited Deep to water	1.00
OtC: Opal-----	90	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Sodium content	1.00 1.00 0.42 0.40 0.02	Very limited Deep to water	1.00
OuD: Opal-----	50	Very limited Restricted permeability Slope Droughty Depth to bedrock Runoff limitation	1.00 1.00 1.00 0.42 0.40	Very limited Deep to water	1.00
Sansarc-----	40	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

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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
Ow: Orthents, Gravelly--	95	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 0.95 0.45	Very limited Deep to water	1.00
OxD: Orton-----	50	Very limited Slope Filtering capacity	1.00 1.00	Very limited Deep to water	1.00
Talmo-----	40	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 0.76 0.45	Very limited Deep to water	1.00
PgD: Peno-----	60	Very limited Slope Restricted permeability Salinity	1.00 0.89 0.01	Very limited Deep to water	1.00
Gettys-----	30	Very limited Slope Restricted permeability	1.00 0.89	Very limited Deep to water	1.00
Pk: Plankinton-----	95	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 Salty water	0.30 0.10 0.01
PrA: Promise-----	95	Very limited Restricted permeability Runoff limitation Sodium content	1.00 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
PrB: Promise-----	95	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
Ps: Prosper-----	95	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
RaA: Raber-----	90	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
RaB: Raber-----	90	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
RcA: Raber-----	50	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
RcB: Raber-----	55	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
RpB: Raber-----	60	Somewhat limited Restricted permeability	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
Peno-----	30	Somewhat limited Restricted permeability Salinity	0.89 0.01	Very limited Deep to water	1.00
RpC: 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
RrA: Ree-----	95	Not limited		Very limited Deep to water	1.00
RsF: Rock Outcrop, Soft--	70	Not rated		Not rated	
Sansarc-----	25	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
SbF: Sansarc-----	65	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 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

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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
StA: Stickney-----	55	Very limited Restricted permeability Salinity	1.00 0.50	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.50 0.10
Java-----	35	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
SvA: Stickney-----	35	Very limited Restricted permeability Salinity	1.00 0.50	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.50 0.10
Java-----	30	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Hoven-----	20	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
TaE: Talmo-----	90	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 0.76 0.45	Very limited Deep to water	1.00
TbA: Talmo-----	90	Very limited Filtering capacity Droughty Leaching limitation	1.00 0.92 0.45	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
TcF: Talmo-----	65	Very limited Slope Filtering capacity Cobble content Droughty Leaching limitation	1.00 1.00 0.87 0.85 0.45	Very limited Deep to water	1.00
Java-----	25	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
TdD: Talmo-----	60	Very limited Filtering capacity Droughty Slope Leaching limitation	1.00 0.76 0.63 0.45	Very limited Deep to water	1.00
Delmont-----	30	Very limited Depth to dense layer Filtering capacity Droughty Slope	1.00 1.00 0.24 0.04	Very limited Deep to water	1.00
Te: Tetonka-----	95	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
W: Water-----	100	Not rated		Not rated	

Ag. Waste Application and Excavated Ponds -- continued  
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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
Wd: Wendte-----	90	Very limited		Very limited	
		Restricted	1.00	Slow refill	1.00
		permeability			
		Flooding	0.60	Deep to water	0.90
		Runoff limitation	0.40	Cutbanks cave	0.10

