

Ag. Waste Application and Excavated Ponds
Hamlin 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
ArA: Arvilla-----	85	Very limited Filtering capacity Droughty	1.00 0.46	Very limited Deep to water	1.00
Ba: Badger-----	85	Very limited Restricted permeability Flooding Depth to saturated zone	1.00 1.00 1.00	Very limited Deep to water	1.00
BaB: Barnes-----	85	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
BbB: Barnes-----	65	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Buse-----	25	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
BbC: Barnes-----	55	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Buse-----	35	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
BcD: Barnes-----	40	Somewhat limited Slope Restricted permeability	0.63 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
Buse-----	30	Somewhat limited Slope Restricted permeability	0.63 0.50	Very limited Deep to water	1.00
Svea-----	20	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.47 0.10
BnA: Barnes-----	75	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Vienna-----	15	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
BrA: Brandt-----	85	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
BrB: Brandt-----	85	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Bs: Brookings-----	85	Not limited		Very limited Deep to water	1.00
BtD: Buse-----	50	Very limited Slope Restricted permeability	1.00 0.50	Very limited Deep to water	1.00
Barnes-----	40	Somewhat limited Slope Restricted permeability	0.63 0.50	Very limited Deep to water	1.00
BuC: Buse-----	50	Somewhat limited Restricted permeability Slope	0.50 0.04	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Barnes-----	35	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
BuE: Buse-----	60	Very limited Slope Restricted permeability	1.00 0.50	Very limited Deep to water	1.00
Barnes-----	30	Very limited Slope Restricted permeability	1.00 0.50	Very limited Deep to water	1.00
BvD: Buse-----	50	Very limited Slope Restricted permeability	1.00 0.50	Very limited Deep to water	1.00
Lamoure-----	30	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.47 0.10
BxE: Buse-----	50	Very limited Slope Restricted permeability	1.00 0.50	Very limited Deep to water	1.00
Langhei-----	35	Very limited Slope Restricted permeability	1.00 0.50	Very limited Deep to water	1.00
ByC: Buse-----	50	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Poinsett-----	35	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
ByD: Buse-----	50	Somewhat limited Slope Restricted permeability	0.63 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
Poinsett-----	40	Somewhat limited Slope Restricted permeability	0.63 0.50	Very limited Deep to water	1.00
Ca: Castlewood-----	85	Very limited Restricted permeability Depth to saturated zone Flooding Leaching limitation	1.00 1.00 0.60 0.50	Very limited Cutbanks cave Slow refill	1.00 1.00
Co: Colvin-----	50	Very limited Depth to saturated zone Ponding Leaching limitation Restricted permeability	1.00 1.00 0.50 0.50	Somewhat limited Slow refill Cutbanks cave	0.55 0.10
Oldham-----	40	Very limited Depth to saturated zone Restricted permeability Leaching limitation	1.00 0.81 0.50	Somewhat limited Slow refill Cutbanks cave	0.98 0.10
Cu: Cubden-----	60	Somewhat limited Depth to saturated zone	0.84	Somewhat limited Slow refill Cutbanks cave Deep to water	0.30 0.10 0.07
Badger-----	30	Very limited Restricted permeability Flooding Depth to saturated zone	1.00 1.00 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
Cx: Cubden-----	60	Somewhat limited Depth to saturated zone	0.84	Somewhat limited Slow refill Cutbanks cave Deep to water	0.30 0.10 0.07
Tonka-----	30	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
Dv: Divide-----	3	Very limited Filtering capacity Depth to saturated zone Flooding	1.00 0.84 0.60	Very limited Cutbanks cave Deep to water	1.00 0.07
EgB: Egeland-----	60	Not limited		Very limited Deep to water	1.00
EmBden-----	30	Not limited		Somewhat limited Deep to water Cutbanks cave	0.90 0.10
EmC: Egeland-----	55	Not limited		Very limited Deep to water	1.00
Maddock-----	35	Very limited Filtering capacity Leaching limitation	1.00 0.45	Very limited Deep to water	1.00
EsA: Estelline-----	85	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
EsB: Estelline-----	85	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
Fa: Fairdale-----	75	Very limited Flooding	1.00	Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.30 0.10
FdA: Fordville-----	85	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
FoB: Fordville-----	65	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Renshaw-----	25	Very limited Filtering capacity Droughty	1.00 0.14	Very limited Deep to water	1.00
HeA: Hetland-----	85	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
HeB: Hetland-----	85	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
KrA: Kranzburg-----	65	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Brookings-----	25	Not limited		Very limited Deep to water	1.00
KrB: Kranzburg-----	70	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Brookings-----	20	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
La: La Prairie-----	85	Somewhat limited Flooding	0.60	Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
Ld: Ladelle-----	85	Somewhat limited Flooding	0.60	Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.47 0.10
Lm: Lamoure-----	85	Very limited Depth to saturated zone Flooding	1.00 0.60	Somewhat limited Slow refill Cutbanks cave	0.47 0.10
Lr: Lamoure-----	60	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.47 0.10
Rauville-----	25	Very limited Depth to saturated zone Flooding Runoff limitation	1.00 1.00 0.40	Somewhat limited Slow refill Cutbanks cave	0.47 0.10
Lw: Lowe-----	85	Very limited Depth to saturated zone Leaching limitation Flooding	1.00 0.70 0.60	Very limited Cutbanks cave Slow refill	1.00 0.30
M-W: Miscellaneous Water-	100	Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Ma: Marysland-----	85	Very limited Depth to saturated zone Filtering capacity Leaching limitation Flooding	1.00 1.00 0.70 0.60	Very limited Cutbanks cave	1.00
MbA: Mauvais-----	85	Somewhat limited Depth to saturated zone Restricted permeability Salinity	0.95 0.50 0.01	Somewhat limited Slow refill Cutbanks cave Deep to water Salty water	0.97 0.10 0.02 0.01
Mc: Mcintosh-----	50	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave Deep to water	0.30 0.10 0.01
Badger-----	35	Very limited Restricted permeability Flooding Depth to saturated zone	1.00 1.00 1.00	Very limited Deep to water	1.00
Mn: Minnewaukan-----	85	Very limited Depth to saturated zone Ponding Filtering capacity Leaching limitation Flooding	1.00 1.00 1.00 0.90 0.60	Very limited Cutbanks cave	1.00
Mz: Moritz-----	50	Somewhat limited Depth to saturated zone Flooding	0.95 0.60	Very limited Cutbanks cave Slow refill Deep to water	1.00 0.30 0.02

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Lamoure-----	40	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.47 0.10
Oh: Oldham-----	85	Very limited Depth to saturated zone Restricted permeability Leaching limitation	1.00 0.81 0.50	Somewhat limited Slow refill Cutbanks cave	0.98 0.10
Or: Orthents, Gravelly--	85	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 0.71 0.45	Very limited Deep to water	1.00
Pa: Parnell-----	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	0.97 0.10
Pm: Playmoor-----	85	Very limited Depth to saturated zone Flooding Salinity Leaching limitation Sodium content	1.00 1.00 0.50 0.50 0.08	Very limited Cutbanks cave Salty water Slow refill	1.00 0.50 0.47
PoB: Poinsett-----	55	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Buse-----	30	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
PsB: Poinsett-----	45	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Buse-----	25	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Waubay-----	20	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
PcC: Poinsett-----	40	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Buse-----	30	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Waubay-----	20	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
PwA: Poinsett-----	60	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Waubay-----	30	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
PwB: Poinsett-----	70	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Waubay-----	20	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Ra: Rauville-----	85	Very limited Depth to saturated zone Flooding Runoff limitation	1.00 1.00 0.40	Somewhat limited Slow refill Cutbanks cave	0.47 0.10
ReA: Renshaw-----	85	Very limited Filtering capacity Droughty	1.00 0.14	Very limited Deep to water	1.00
ReB: Renshaw-----	85	Very limited Filtering capacity Droughty	1.00 0.14	Very limited Deep to water	1.00
RnC: Renshaw-----	50	Very limited Filtering capacity Droughty	1.00 0.14	Very limited Deep to water	1.00
Brandt-----	35	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
RsC: Renshaw-----	55	Very limited Filtering capacity Droughty	1.00 0.14	Very limited Deep to water	1.00
Sioux-----	35	Very limited Filtering capacity Droughty Leaching limitation	1.00 0.68 0.45	Very limited Deep to water	1.00
SaD: Sioux-----	50	Very limited Filtering capacity Droughty Slope Leaching limitation	1.00 0.68 0.63 0.45	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Renshaw-----	40	Very limited Filtering capacity Slope Droughty	1.00 0.63 0.14	Very limited Deep to water	1.00
So: Southam-----	85	Very limited Restricted permeability Ponding Depth to saturated zone Runoff limitation Salinity	1.00 1.00 1.00 0.40 0.01	Somewhat limited Slow refill Cutbanks cave Salty water	0.97 0.10 0.01
Sp: Spottswood-----	85	Very limited Filtering capacity Depth to saturated zone Flooding	1.00 0.95 0.60	Very limited Cutbanks cave Deep to water	1.00 0.02
StB: Strayhoss-----	85	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
To: Tonka-----	85	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
VbA: Vienna-----	70	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Brookings-----	20	Not limited		Very limited Deep to water	1.00
VbB: Vienna-----	70	Somewhat limited Restricted permeability	0.50	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
Brookings-----	15	Not limited		Very limited Deep to water	1.00
VnC: Vienna-----	70	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Buse-----	20	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
W: Water (less Than 40 Acres)-----	100	Not rated		Not rated	
Wa: Waubay-----	85	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10

