

Ag. Waste Application and Excavated Ponds
Hanson and Hutchinson
Counties, 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
BeE: Betts-----	45	Very limited Slope Restricted permeability	1.00 0.50	Very limited Deep to water	1.00
Ethan-----	40	Very limited Slope	1.00	Very limited Deep to water	1.00
Bo: Bon-----	90	Somewhat limited Flooding	0.60	Very limited Cutbanks cave Deep to water	1.00 0.81
Ca: Chaska-----	85	Very limited Depth to saturated zone Leaching limitation Flooding	1.00 0.70 0.60	Very limited Cutbanks cave	1.00
Cb: Chaska-----	85	Very limited Flooding Depth to saturated zone Leaching limitation	1.00 1.00 0.70	Very limited Cutbanks cave Deep to water	1.00 0.01
Cc: Clamo-----	85	Very limited Restricted permeability Depth to saturated zone Flooding Leaching limitation	1.00 1.00 0.60 0.50	Very limited Slow refill Cutbanks cave Salty water	1.00 0.10 0.01
CdA: Clarno-----	85	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
CdB: Clarno-----	85	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
CeA: Clarno-----	55	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Davison-----	30	Somewhat limited Depth to saturated zone	0.68	Very limited Deep to water	1.00
CeB: Davison-----	25	Somewhat limited Depth to saturated zone	0.68	Very limited Deep to water	1.00
CnC: Clarno-----	60	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Ethan-----	25	Not limited		Very limited Deep to water	1.00
CsA: Clarno-----	60	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Stickney-----	20	Very limited Restricted permeability Salinity	1.00 0.50	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.98 0.90 0.50 0.10
Ct: Crossplain-----	45	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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		Rating class and limiting features	Value	Rating class and limiting features	Value
Harps-----	30	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
DaB: Davis-----	80	Not limited		Very limited Deep to water	1.00
DaC: Davis-----	85	Not limited		Very limited Deep to water	1.00
DbA: Davison-----	70	Somewhat limited Depth to saturated zone	0.68	Very limited Deep to water	1.00
DcB: Davison-----	45	Somewhat limited Depth to saturated zone	0.68	Very limited Deep to water	1.00
Onita-----	30	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
DeA: Delmont-----	85	Very limited Filtering capacity Droughty	1.00 0.10	Very limited Deep to water	1.00
DeB: Delmont-----	80	Very limited Filtering capacity Droughty	1.00 0.10	Very limited Deep to water	1.00
DmB: Delmont-----	50	Very limited Filtering capacity Droughty Depth to bedrock	1.00 0.93 0.84	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Rock Outcrop, Hard--	35	Not rated		Not rated	
DnD: Delmont-----	55	Very limited Filtering capacity Slope Droughty	1.00 0.16 0.10	Very limited Deep to water	1.00
Talmo-----	25	Very limited Filtering capacity Droughty Leaching limitation Slope	1.00 0.70 0.45 0.04	Very limited Deep to water	1.00
Do: Dimo-----	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
DsA: Dudley-----	40	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 1.00 0.40 0.06	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.98 0.90 0.78 0.10
Stickney-----	35	Very limited Restricted permeability Salinity	1.00 0.50	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.98 0.90 0.50 0.10

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Du: Durrstein-----	85	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
EaC: Egan-----	80	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
EbC2: Egan-----	60	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Betts-----	25	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
EgB: Egan-----	40	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Wentworth-----	40	Not limited		Very limited Deep to water	1.00
EnA: Enet-----	80	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
EtB: Ethan-----	55	Not limited		Very limited Deep to water	1.00
Betts-----	25	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
EtC2: Ethan-----	50	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
Betts-----	30	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
EtD: Ethan-----	45	Somewhat limited Slope	0.63	Very limited Deep to water	1.00
Betts-----	30	Somewhat limited Slope Restricted permeability	0.63 0.50	Very limited Deep to water	1.00
EuB: Clarno-----	40	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Ethan-----	40	Not limited		Very limited Deep to water	1.00
EuC: Ethan-----	45	Not limited		Very limited Deep to water	1.00
Clarno-----	40	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
EwC: Ethan-----	50	Not limited		Very limited Deep to water	1.00
Homme-----	30	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Fa: Fedora-----	90	Very limited Depth to saturated zone Filtering capacity Leaching limitation	1.00 1.00 0.70	Somewhat limited Cutbanks cave	0.10

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		Rating class and limiting features	Value	Rating class and limiting features	Value
GRAV: Orthents, Gravelly--	100	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 0.95 0.45	Very limited Deep to water	1.00
HaA: Hand-----	80	Not limited		Very limited Deep to water	1.00
HaB: Hand-----	80	Not limited		Very limited Deep to water	1.00
HaC: Hand-----	85	Not limited		Very limited Deep to water	1.00
HbC: Hand-----	60	Not limited		Very limited Deep to water	1.00
Betts-----	25	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
HcA: Hand-----	60	Not limited		Very limited Deep to water	1.00
Bonilla-----	25	Not limited		Very limited Deep to water	1.00
HdB: Hand-----	65	Not limited		Very limited Deep to water	1.00
Davison-----	25	Somewhat limited Depth to saturated zone	0.68	Very limited Deep to water	1.00
HmA: Henkin-----	85	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
HmB: Henkin-----	90	Not limited		Very limited Deep to water	1.00
HnB: Alwilda-----	90	Very limited Filtering capacity Droughty	1.00 0.17	Very limited Deep to water	1.00
HoC: Homme-----	60	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Ethan-----	25	Not limited		Very limited Deep to water	1.00
HtA: 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
HtB: 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
Ja: James-----	80	Very limited Restricted permeability Depth to saturated zone Flooding Salinity Sodium content	1.00 1.00 1.00 1.00 0.82	Very limited Slow refill Salty water Cutbanks cave	1.00 1.00 0.10

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		Rating class and limiting features	Value	Rating class and limiting features	Value
La: Lamo-----	80	Very limited Depth to saturated zone Flooding Restricted permeability	1.00 0.60 0.50	Somewhat limited Slow refill Cutbanks cave Deep to water	0.47 0.10 0.01
Lm: Lamo-----	45	Very limited Flooding Depth to saturated zone Restricted permeability	1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave Deep to water	0.47 0.10 0.01
Wann-----	30	Very limited Flooding Depth to saturated zone Sodium content	1.00 0.84 0.08	Very limited Cutbanks cave Deep to water	1.00 0.07
M-W: Miscellaneous Water-	100	Not rated		Not rated	
Ma: Worthing-----	100	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
OaA: Onita-----	80	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
PcA: Prosper-----	50	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Clarno-----	40	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00

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Pr: Prosper-----	55	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Stickney-----	30	Very limited Restricted permeability Salinity	1.00 0.50	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.98 0.90 0.50 0.10
Ps: Crossplain-----	40	Very limited Flooding Depth to saturated zone Restricted permeability	1.00 1.00 0.81	Very limited Deep to water	1.00
Prosper-----	40	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
QUAR: Rock Outcrop, Hard--	100	Not rated		Not rated	
ReB: Redstoe-----	85	Somewhat limited Depth to bedrock Droughty	0.42 0.42	Very limited Deep to water	1.00
Sa: Salmo-----	90	Very limited Depth to saturated zone Restricted permeability Flooding Salinity Leaching limitation	1.00 0.81 0.60 0.50 0.50	Somewhat limited Salty water Slow refill Cutbanks cave	0.50 0.47 0.10

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		Rating class and limiting features	Value	Rating class and limiting features	Value
St: Arlo-----	85	Very limited Depth to saturated zone Filtering capacity Flooding	1.00 1.00 0.60	Very limited Cutbanks cave	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	0.97 0.10 0.01
Tt: Tetonka-----	65	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	0.97 0.10 0.01
Harps-----	25	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
Tw: Tetonka-----	40	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	0.97 0.10 0.01

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Whitewood-----	40	Very limited Depth to saturated zone Flooding Leaching limitation Restricted permeability	1.00 0.60 0.50 0.50	Somewhat limited Slow refill Cutbanks cave	0.97 0.10
W: Water-----	100	Not rated		Not rated	
Wa: Wann-----	90	Somewhat limited Depth to saturated zone Flooding Sodium content	0.84 0.60 0.08	Very limited Cutbanks cave Deep to water	1.00 0.07
Ww: 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

