

Ag. Waste Application and Excavated Ponds
Union 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
Ab: Albaton-----	90	Very limited Restricted permeability Depth to saturated zone Runoff limitation	1.00 1.00 0.40	Very limited Slow refill Cutbanks cave	1.00 0.10
Ac: Albaton-----	100	Very limited Restricted permeability Depth to saturated zone Runoff limitation	1.00 1.00 0.40	Very limited Slow refill Cutbanks cave	1.00 0.10
Ad: Albaton-----	100	Very limited Restricted permeability Depth to saturated zone Flooding Ponding Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Slow refill Cutbanks cave	1.00 0.10
Ae: Alcester-----	85	Not limited		Very limited Deep to water	1.00
Bd: Benclare-----	90	Very limited Restricted permeability Depth to saturated zone Flooding	1.00 0.95 0.60	Very limited Slow refill Cutbanks cave Deep to water	1.00 0.10 0.02
Be: Benclare-----	90	Very limited Restricted permeability Depth to saturated zone Flooding	1.00 0.95 0.60	Very limited Slow refill Cutbanks cave Deep to water	1.00 0.10 0.02

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Bf: Blencoe-----	90	Very limited Restricted permeability Depth to saturated zone Runoff limitation	1.00 0.43 0.40	Somewhat limited Slow refill Deep to water Cutbanks cave	0.30 0.25 0.10
Bg: Blyburg-----	90	Not limited		Very limited Deep to water	1.00
Bor: Orthents, Loamy-----	100	Somewhat limited Restricted permeability Slope	0.50 0.04	Very limited Deep to water	1.00
Ca: Calco-----	85	Very limited Depth to saturated zone Flooding Leaching limitation	1.00 1.00 0.70	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
CbE2: Crofton-----	80	Very limited Slope	1.00	Very limited Deep to water	1.00
CbF: Crofton-----	85	Very limited Slope	1.00	Very limited Deep to water	1.00
CnB: Crofton-----	55	Not limited		Very limited Deep to water	1.00
Nora-----	35	Not limited		Very limited Deep to water	1.00
CnD2: Crofton-----	55	Somewhat limited Slope	0.04	Very limited Deep to water	1.00
Nora-----	25	Not limited		Very limited Deep to water	1.00

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Da: Davis-----	90	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.30 0.10
De: Dempster-----	90	Not limited		Very limited Deep to water	1.00
EaB: Egan-----	55	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Shindler-----	35	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
EaC: Egan-----	50	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Shindler-----	40	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
EmA: Enet-----	95	Very limited Filtering capacity	1.00	Very limited Cutbanks cave Deep to water	1.00 0.99
EnB: Enet-----	50	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Dempster-----	50	Not limited		Very limited Deep to water	1.00
Fa: Chaska-----	97	Very limited Depth to saturated zone Flooding Leaching limitation	1.00 1.00 0.70	Very limited Cutbanks cave	1.00

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Fb: Norway-----	99	Very limited Depth to saturated zone Filtering capacity Flooding Runoff limitation Droughty	1.00 1.00 0.60 0.40 0.02	Very limited Cutbanks cave	1.00
Fc: Forney-----	100	Very limited Restricted permeability Depth to saturated zone Runoff limitation	1.00 1.00 0.40	Very limited Slow refill Cutbanks cave Deep to water	1.00 0.10 0.01
Fe: Forney-----	90	Very limited Restricted permeability Depth to saturated zone Runoff limitation	1.00 1.00 0.40	Very limited Slow refill Cutbanks cave Deep to water	1.00 0.10 0.01
Ga: Grable-----	70	Very limited Filtering capacity Flooding	1.00 0.60	Very limited Deep to water	1.00
Gb: Graceville-----	90	Very limited Filtering capacity	1.00	Very limited Cutbanks cave Deep to water	1.00 0.81
Gp: Orthents, Gravelly--	100	Very limited Filtering capacity Droughty Leaching limitation	1.00 0.95 0.45	Very limited Deep to water	1.00
Ha: Haynie-----	80	Not limited		Very limited Deep to water	1.00

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Hb: Haynie-----	90	Somewhat limited Flooding	0.60	Very limited Deep to water	1.00
Ja: James-----	90	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 1.00 0.10
La: Lakeport-----	90	Somewhat limited Depth to saturated zone	0.09	Somewhat limited Deep to water Slow refill Cutbanks cave	0.54 0.47 0.10
Lb: Lamo-----	90	Very limited Depth to saturated zone Flooding Restricted permeability	1.00 0.60 0.50	Somewhat limited Slow refill Cutbanks cave Deep to water	0.97 0.10 0.01
Ld: Luton-----	90	Very limited Restricted permeability Depth to saturated zone Runoff limitation	1.00 1.00 0.40	Very limited Slow refill Cutbanks cave	1.00 0.10
M-W: Miscellaneous Water-	100	Not rated		Not rated	
Ma: Mcpaul-----	85	Somewhat limited Flooding Restricted permeability	0.60 0.50	Very limited Deep to water	1.00

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Mb: Modale-----	90	Very limited Restricted permeability Depth to saturated zone	1.00 0.95	Very limited Deep to water	1.00
McA: Moody-----	90	Not limited		Very limited Deep to water	1.00
McB: Moody-----	90	Not limited		Very limited Deep to water	1.00
MdC: Moody-----	50	Not limited		Very limited Deep to water	1.00
Nora-----	35	Not limited		Very limited Deep to water	1.00
NeF: Nora-----	50	Very limited Slope	1.00	Very limited Deep to water	1.00
Crofton-----	40	Very limited Slope	1.00	Very limited Deep to water	1.00
Oa: Omadi-----	90	Not limited		Very limited Deep to water	1.00
Ob: Onawa-----	80	Very limited Restricted permeability Leaching limitation Depth to saturated zone	1.00 0.50 0.09	Somewhat limited Deep to water Cutbanks cave	0.54 0.10
Or: Orthents, Loamy-----	95	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00

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Pa: Percival-----	80	Very limited Restricted permeability Filtering capacity Droughty Depth to saturated zone	1.00 1.00 0.83 0.09	Very limited Cutbanks cave Deep to water	1.00 0.54
Sa: Salix-----	90	Not limited		Very limited Deep to water	1.00
Sb: Salmo-----	90	Very limited Flooding Depth to saturated zone Restricted permeability Salinity Leaching limitation	1.00 0.95 0.81 0.50 0.50	Somewhat limited Salty water Slow refill Cutbanks cave Deep to water	0.50 0.47 0.10 0.02
ScB: Sardak-----	90	Very limited Filtering capacity Droughty Leaching limitation	1.00 0.65 0.45	Very limited Deep to water	1.00
SdA: Scroll-----	90	Very limited Restricted permeability Droughty Filtering capacity Depth to saturated zone	1.00 1.00 1.00 0.09	Very limited Cutbanks cave Deep to water	1.00 0.54
SeA: Sardak-----	90	Very limited Filtering capacity Droughty Flooding Leaching limitation	1.00 0.65 0.60 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
ShD: Shindler-----	85	Somewhat limited Slope Restricted permeability	0.63 0.50	Very limited Deep to water	1.00
ShE: Shindler-----	85	Very limited Slope Restricted permeability	1.00 0.50	Very limited Deep to water	1.00
St: Storla-----	90	Somewhat limited Depth to saturated zone	0.86	Very limited Deep to water	1.00
TaB: Thurman-----	85	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.01	Very limited Deep to water	1.00
W: Water-----	100	Not rated		Not rated	
Wa: Wakonda-----	45	Somewhat limited Depth to saturated zone	0.43	Very limited Deep to water	1.00
Worthing-----	30	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
Chancellor-----	20	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

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WbA: Wentworth-----	90	Not limited		Very limited Deep to water	1.00
WbB: Wentworth-----	90	Not limited		Very limited Deep to water	1.00
Wc: Wentworth-----	40	Not limited		Very limited Deep to water	1.00
Worthing-----	30	Very limited		Somewhat limited	
		Restricted	1.00	Slow refill	0.97
		permeability			
		Ponding	1.00	Cutbanks cave	0.10
		Depth to	1.00	Salty water	0.01
		saturated zone			
		Runoff limitation	0.40		
Wh: Whitewood-----	85	Very limited		Somewhat limited	
		Depth to	1.00	Slow refill	0.97
		saturated zone			
		Flooding	0.60	Cutbanks cave	0.10
		Leaching	0.50		
		limitation			
		Restricted	0.50		
		permeability			
Wo: Worthing-----	90	Very limited		Somewhat limited	
		Restricted	1.00	Slow refill	0.97
		permeability			
		Ponding	1.00	Cutbanks cave	0.10
		Depth to	1.00	Salty water	0.01
		saturated zone			
		Runoff limitation	0.40		
Ws: Worthing-----	55	Very limited		Somewhat limited	
		Restricted	1.00	Slow refill	0.97
		permeability			
		Ponding	1.00	Cutbanks cave	0.10
		Depth to	1.00	Salty water	0.01
		saturated zone			
		Runoff limitation	0.40		

