

Ag. Waste Application and Excavated Ponds  
Campbell 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
1A: Bowbells-----	85	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
2: Grail-----	85	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
4: Grassna-----	85	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
5: Williams-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Noonan-----	30	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 0.82 0.40 0.01	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.90 0.10 0.01
7A: Hamerly-----	85	Somewhat limited Depth to saturated zone Restricted permeability	0.84 0.30	Somewhat limited Slow refill Cutbanks cave Deep to water	0.95 0.10 0.07
7B: Hamerly-----	90	Somewhat limited Depth to saturated zone Restricted permeability	0.84 0.30	Somewhat limited Slow refill Cutbanks cave Deep to water	0.95 0.10 0.07

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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
9C: Seroco-----	90	Very limited Filtering capacity Droughty Leaching limitation	1.00 0.57 0.45	Very limited Deep to water	1.00
9E: Seroco-----	45	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 0.57 0.45	Very limited Deep to water	1.00
Dune Land-----	35	Not rated		Not rated	
10: Capa-----	85	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
11: Capa-----	50	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-----	35	Not rated		Not rated	
13A: Tally-----	90	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
13B: Tally-----	85	Not limited		Very limited Deep to water	1.00
Tonka-----	3	Very limited Restricted permeability	1.00	Somewhat limited Slow refill	0.30
		Depth to saturated zone	1.00	Cutbanks cave	0.10
		Ponding	1.00		
		Leaching limitation	0.50		
13C: Tally-----	85	Not limited		Very limited Deep to water	1.00
15: Harriet-----	90	Very limited Restricted permeability	1.00	Very limited Slow refill	1.00
		Depth to saturated zone	1.00	Salty water	0.50
		Sodium content	1.00	Cutbanks cave	0.10
		Flooding	0.60		
		Salinity	0.50		
16: Egas-----	90	Very limited Restricted permeability	1.00	Very limited Slow refill	1.00
		Depth to saturated zone	1.00	Salty water	0.78
		Flooding	1.00	Cutbanks cave	0.10
		Salinity	0.78		
		Runoff limitation	0.40		
17: Hecla-----	85	Somewhat limited Leaching limitation	0.45	Very limited Cutbanks cave	1.00
				Deep to water	0.81
18: Parshall-----	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
19: Heil-----	95	Very limited Restricted permeability Depth to saturated zone Ponding Salinity Runoff limitation	1.00 1.00 1.00 0.50 0.40	Somewhat limited Salty water Slow refill Cutbanks cave	0.50 0.30 0.10
20D: Sully-----	85	Very limited Slope	1.00	Very limited Deep to water	1.00
21A: Linton-----	40	Not limited		Very limited Deep to water	1.00
Grassna-----	35	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
21B: Linton-----	85	Not limited		Very limited Deep to water	1.00
21C: Linton-----	50	Not limited		Very limited Deep to water	1.00
Sutley-----	35	Not limited		Very limited Deep to water	1.00
21D: Sully-----	45	Very limited Slope	1.00	Very limited Deep to water	1.00
Zahl-----	40	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
22B: Linton-----	45	Not limited		Very limited Deep to water	1.00
Sutley-----	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
22C: Linton-----	85	Not limited		Very limited Deep to water	1.00
24A: Yecross-----	85	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.18	Very limited Deep to water	1.00
24C: Yecross-----	85	Very limited Filtering capacity Leaching limitation Slope Droughty	1.00 0.45 0.37 0.18	Very limited Deep to water	1.00
27B: Maddock-----	90	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.03	Very limited Deep to water	1.00
27C: Maddock-----	85	Very limited Filtering capacity Leaching limitation Slope Droughty	1.00 0.45 0.37 0.03	Very limited Deep to water	1.00
28: Wyndmere-----	90	Somewhat limited Depth to saturated zone	0.84	Very limited Cutbanks cave Deep to water	1.00 0.07
29: Vallers-----	85	Very limited Depth to saturated zone Restricted permeability	1.00 0.30	Somewhat limited Slow refill Cutbanks cave	0.95 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
30: Parnell-----	90	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	0.95 0.10
31E: Lihen-----	85	Very limited Slope Filtering capacity Leaching limitation Droughty	1.00 1.00 0.45 0.06	Very limited Deep to water	1.00
32F: Flasher-----	90	Not Rated Not Rated Slope Depth to bedrock Droughty Filtering capacity	1.00 1.00 1.00 1.00	Very limited Deep to water	1.00
34A: Bowdle-----	85	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
34B: Bowdle-----	85	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
36B: Lehr-----	55	Very limited Filtering capacity Droughty	1.00 0.63	Very limited Deep to water	1.00
Wabek-----	35	Very limited Filtering capacity Droughty Leaching limitation	1.00 0.98 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
Bowbells-----	4	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
38: Parnell-----	90	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	0.95 0.10
39E: Sansarc-----	50	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-----	35	Very limited Slope Restricted permeability Droughty Depth to bedrock Runoff limitation	1.00 1.00 0.97 0.42 0.40	Very limited Deep to water	1.00
40B: Opal-----	90	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Sodium content	1.00 0.97 0.42 0.40 0.02	Very limited Deep to water	1.00
40C: Opal-----	85	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Sodium content	1.00 0.97 0.42 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
40D: Opal-----	55	Very limited Restricted permeability Droughty Slope Depth to bedrock Runoff limitation	1.00 0.97 0.63 0.42 0.40	Very limited Deep to water	1.00
Sansarc-----	30	Very limited Restricted permeability Depth to bedrock Droughty Runoff limitation Slope	1.00 1.00 1.00 0.40 0.37	Very limited Deep to water	1.00
41A: Promise-----	85	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
41B: Promise-----	90	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
41C: Promise-----	55	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
Opal-----	35	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Sodium content	1.00 0.97 0.42 0.40 0.02	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
51: 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
52A: Lehr-----	90	Very limited Filtering capacity Droughty	1.00 0.63	Very limited Deep to water	1.00
52B: Lehr-----	85	Very limited Filtering capacity Droughty	1.00 0.63	Very limited Deep to water	1.00
53D: Wabek-----	50	Very limited Filtering capacity Droughty Leaching limitation Slope	1.00 0.98 0.45 0.37	Very limited Deep to water	1.00
Lehr-----	40	Very limited Filtering capacity Droughty	1.00 0.63	Very limited Deep to water	1.00
53E: Wabek-----	85	Very limited Filtering capacity Slope Droughty Leaching limitation	1.00 1.00 0.98 0.45	Very limited Deep to water	1.00
54: Divide-----	85	Very limited Filtering capacity Depth to saturated zone	1.00 0.84	Very limited Cutbanks cave Deep to water	1.00 0.07

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		Rating class and limiting features	Value	Rating class and limiting features	Value
56: Regan-----	85	Very limited		Somewhat limited	
		Depth to	1.00	Slow refill	0.43
		saturated zone		Cutbanks cave	0.10
		Flooding	1.00		
57A: Williams-----	50	Somewhat limited		Very limited	
		Restricted	0.30	Deep to water	1.00
		permeability			
Bowbells-----	35	Somewhat limited		Very limited	
		Restricted	0.30	Deep to water	1.00
		permeability			
57B: Williams-----	50	Somewhat limited		Very limited	
		Restricted	0.30	Deep to water	1.00
		permeability			
Bowbells-----	35	Somewhat limited		Very limited	
		Restricted	0.30	Deep to water	1.00
		permeability			
57C: Williams-----	50	Somewhat limited		Very limited	
		Restricted	0.30	Deep to water	1.00
		permeability			
Vida-----	35	Somewhat limited		Very limited	
		Restricted	0.30	Deep to water	1.00
		permeability			
58B: Williams-----	50	Somewhat limited		Very limited	
		Restricted	0.30	Deep to water	1.00
		permeability			
Vida-----	35	Somewhat limited		Very limited	
		Restricted	0.30	Deep to water	1.00
		permeability			
59D: Vida-----	55	Somewhat limited		Very limited	
		Slope	0.63	Deep to water	1.00
		Restricted	0.30		
		permeability			

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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
Zahl-----	35	Somewhat limited Slope Restricted permeability	0.63 0.30	Very limited Deep to water	1.00
61E: Zahl-----	45	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
Vida-----	40	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
62: Vida-----	85	Somewhat limited Restricted permeability Slope	0.30 0.04	Very limited Deep to water	1.00
65B: Bryant-----	55	Not limited		Very limited Deep to water	1.00
Sutley-----	30	Not limited		Very limited Deep to water	1.00
65C: Bryant-----	45	Not limited		Very limited Deep to water	1.00
Sutley-----	40	Not limited		Very limited Deep to water	1.00
65D: Sutley-----	45	Somewhat limited Slope	0.63	Very limited Deep to water	1.00
Linton-----	40	Somewhat limited Slope	0.63	Very limited Deep to water	1.00
66: Arveson-----	85	Very limited Depth to saturated zone Leaching limitation	1.00 0.70	Very limited Cutbanks cave	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
67A: Farnuf-----	85	Not limited		Very limited Deep to water	1.00
67B: Farnuf-----	85	Not limited		Very limited Deep to water	1.00
68A: Bryant-----	45	Not limited		Very limited Deep to water	1.00
Grassna-----	40	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
68B: Bryant-----	90	Not limited		Very limited Deep to water	1.00
68C: Bryant-----	85	Not limited		Very limited Deep to water	1.00
71: Ranslo-----	55	Very limited Restricted permeability Depth to saturated zone Flooding Runoff limitation	1.00 1.00 0.60 0.40	Somewhat limited Slow refill Cutbanks cave Salty water Deep to water	0.95 0.10 0.01 0.01
Harriet-----	30	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
72: Straw-----	85	Somewhat limited Flooding	0.60	Very limited Deep to water	1.00
74A: Savage-----	85	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
74B: Savage-----	90	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
77: Orthents, Gravelly--	99	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 0.71 0.45	Very limited Deep to water	1.00
80: Ranslo-----	90	Very limited Restricted permeability Depth to saturated zone Flooding Runoff limitation	1.00 1.00 0.60 0.40	Somewhat limited Slow refill Cutbanks cave Salty water Deep to water	0.95 0.10 0.01 0.01
W: Water-----	100	Not rated		Not rated	

