

Ag. Waste Application and Excavated Ponds
Custer and Pennington
Counties, Black Hills Parts,
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
ApA: Arvada Variant-----	85	Very limited Restricted permeability Sodium content Depth to saturated zone Salinity Runoff limitation	1.00 1.00 1.00 0.78 0.40	Somewhat limited Slow refill Salty water Cutbanks cave Deep to water	0.99 0.78 0.10 0.01
AsA: Arvada-----	55	Very limited Restricted permeability Sodium content Runoff limitation	1.00 1.00 0.40	Very limited Deep to water	1.00
Slickspots, Dry-----	30	Not rated		Not rated	
BdA: Barnum-----	85	Somewhat limited Salinity	0.01	Very limited Deep to water	1.00
BeB: Barnum-----	55	Somewhat limited Salinity	0.01	Very limited Deep to water	1.00
Winetti-----	30	Somewhat limited Cobble content Droughty	0.50 0.46	Very limited Deep to water	1.00
BrA: Bullflat-----	85	Not limited		Very limited Deep to water	1.00
BrB: Bullflat-----	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
BsB: Bullflat-----	50	Not limited		Very limited Deep to water	1.00
Cordeston-----	35	Not limited		Very limited Deep to water	1.00
BtE: Buska-----	40	Very limited Slope Droughty	1.00 0.51	Very limited Deep to water	1.00
Mocmont-----	25	Very limited Slope Droughty	1.00 0.32	Very limited Deep to water	1.00
Rock Outcrop, Hard--	20	Not rated		Not rated	
BuE: Buska-----	55	Very limited Slope Droughty	1.00 0.51	Very limited Deep to water	1.00
Rock Outcrop, Hard--	25	Not rated		Not rated	
BvC: Buska-----	50	Somewhat limited Droughty Slope	0.51 0.37	Very limited Deep to water	1.00
Virkula-----	30	Somewhat limited Restricted permeability Too acid	0.30 0.11	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
BwE: Butche-----	60	Very limited Slope Depth to bedrock Droughty Cobble content Runoff limitation	1.00 1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
Rock Outcrop, Hard--	25	Not rated		Not rated	
CcE: Canyon-----	55	Very limited Depth to bedrock Droughty Slope Runoff limitation	1.00 1.00 0.63 0.40	Very limited Deep to water	1.00
Bridget-----	30	Somewhat limited Slope	0.16	Very limited Deep to water	1.00
CdF: Canyon-----	60	Very limited Slope Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Rock Outcrop, Sandy-	25	Not rated		Not rated	
CkC: Citadel-----	50	Somewhat limited Restricted permeability Too acid	0.89 0.02	Very limited Deep to water	1.00
Vanocker-----	30	Somewhat limited Large stones on the surface	0.18	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
CoA: Colombo-----	85	Not limited		Very limited Deep to water	1.00
CpA: Colombo-----	70	Not limited		Very limited Deep to water	1.00
Urban Land-----	15	Not rated		Not rated	
CvB: Cordeston-----	85	Not limited		Very limited Deep to water	1.00
CwB: Cordeston-----	55	Not limited		Very limited Deep to water	1.00
Marshbrook-----	30	Very limited Depth to saturated zone Flooding Runoff limitation Restricted permeability	1.00 0.60 0.40 0.30	Very limited Cutbanks cave	1.00
CxC: Cordeston-----	60	Not limited		Very limited Deep to water	1.00
Winetti-----	25	Somewhat limited Cobble content Droughty	0.50 0.46	Very limited Deep to water	1.00
DgB: Demar-----	40	Very limited Restricted permeability Salinity Runoff limitation Sodium content Too acid	1.00 0.78 0.40 0.18 0.02	Very limited Slow refill Deep to water Salty water Cutbanks cave	1.00 0.81 0.78 0.10

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Grummit-----	25	Very limited Depth to bedrock Droughty Too acid Runoff limitation Restricted permeability	1.00 1.00 0.78 0.40 0.30	Very limited Deep to water	1.00
Slickspots, Dry-----	20	Not rated		Not rated	
GbA: Glenberg-----	85	Somewhat limited Flooding	0.60	Very limited Deep to water	1.00
GrD: Grummit-----	60	Very limited Depth to bedrock Droughty Too acid Runoff limitation Slope	1.00 1.00 0.78 0.40 0.37	Very limited Deep to water	1.00
Rock Outcrop, Acid--	25	Not rated		Not rated	
GrF: Grummit-----	50	Very limited Slope Depth to bedrock Droughty Too acid Runoff limitation	1.00 1.00 1.00 0.78 0.40	Very limited Deep to water	1.00
Rock Outcrop, Acid--	35	Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value
GuC: Gurney-----	55	Somewhat limited Depth to bedrock Droughty	0.42 0.28	Very limited Deep to water	1.00
Butche-----	25	Very limited Depth to bedrock Droughty Cobble content Runoff limitation Low adsorption	1.00 1.00 0.50 0.40 0.30	Very limited Deep to water	1.00
GvD: Gypnevee-----	45	Somewhat limited Slope	0.37	Very limited Deep to water	1.00
Rekop-----	25	Very limited Depth to bedrock Droughty Slope Runoff limitation Low adsorption	1.00 1.00 0.63 0.40 0.24	Very limited Deep to water	1.00
Rock Outcrop, Sandy-	15	Not rated		Not rated	
GyD: Gypnevee-----	40	Somewhat limited Slope	0.63	Very limited Deep to water	1.00
Rock Outcrop, Sandy-	25	Not rated		Not rated	
Urban Land-----	20	Not rated		Not rated	
HaA: Haverson-----	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
HeE: Heely-----	85	Very limited Slope Droughty Cobble content Depth to bedrock	1.00 0.98 0.87 0.42	Very limited Deep to water	1.00
HfC: Heely-----	55	Somewhat limited Droughty Cobble content Depth to bedrock Slope	0.98 0.87 0.42 0.37	Very limited Deep to water	1.00
Cordeston-----	30	Not limited		Very limited Deep to water	1.00
HgB: Hilger-----	85	Somewhat limited Droughty Cobble content	0.74 0.32	Very limited Deep to water	1.00
HgD: Hilger-----	85	Very limited Slope Droughty Cobble content	1.00 0.74 0.32	Very limited Deep to water	1.00
HmE: Hilger-----	60	Very limited Slope Droughty Cobble content	1.00 0.74 0.32	Very limited Deep to water	1.00
Metre-----	25	Very limited Restricted permeability Droughty Slope Depth to bedrock Runoff limitation	1.00 0.99 0.84 0.42 0.40	Very limited Deep to water	1.00
HnB: Hilger-----	65	Somewhat limited Droughty Cobble content	0.74 0.32	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Urban Land-----	20	Not rated		Not rated	
HoD: Hilger-----	50	Very limited Slope Droughty Cobble content	1.00 0.74 0.32	Very limited Deep to water	1.00
Virkula-----	35	Somewhat limited Slope Restricted permeability Too acid	0.96 0.30 0.11	Very limited Deep to water	1.00
HtG: Hopdraw-----	40	Very limited Slope Cobble content Filtering capacity Droughty Leaching limitation	1.00 1.00 1.00 0.99 0.45	Very limited Deep to water	1.00
Sawdust-----	30	Very limited Slope Cobble content	1.00 0.98	Very limited Deep to water	1.00
Rock Outcrop, Sandy-	15	Not rated		Not rated	
JhD: Judy-----	40	Very limited Restricted permeability Droughty Depth to bedrock Slope	1.00 0.89 0.42 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
Heath-----	30	Very limited Restricted permeability Slope	1.00 0.04	Very limited Deep to water	1.00
Paunsaugunt Variant-	20	Very limited Depth to bedrock Droughty Slope Runoff limitation Low adsorption	1.00 1.00 0.96 0.40 0.15	Very limited Deep to water	1.00
M-W: Miscellaneous Water-	100	Not rated		Not rated	
MhA: Marshbrook-----	85	Very limited Depth to saturated zone Flooding Runoff limitation Restricted permeability	1.00 0.60 0.40 0.30	Very limited Cutbanks cave	1.00
MnC: Metre-----	50	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation	1.00 0.99 0.42 0.40	Very limited Deep to water	1.00
Norrest-----	35	Somewhat limited Droughty Depth to bedrock	0.49 0.42	Very limited Deep to water	1.00
MsC: Mocmont-----	85	Somewhat limited Droughty	0.32	Very limited Deep to water	1.00
MtE: Mocmont-----	55	Very limited Slope Droughty	1.00 0.32	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--	30	Not rated		Not rated	
NaC: Nevee-----	85	Somewhat limited Cobble content Slope	0.50 0.37	Very limited Deep to water	1.00
NbC: Nevee-----	85	Not limited		Very limited Deep to water	1.00
NcE: Nevee-----	60	Very limited Slope	1.00	Very limited Deep to water	1.00
Gullied Land-----	35	Not rated		Not rated	
NfE: Nihill-----	50	Very limited Slope Droughty	1.00 0.11	Very limited Deep to water	1.00
Zigweid-----	40	Very limited Slope	1.00	Very limited Deep to water	1.00
NnE: Norrest-----	50	Very limited Slope Cobble content Droughty Depth to bedrock Restricted permeability	1.00 0.98 0.57 0.42 0.30	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Fairburn-----	20	Very limited Depth to bedrock Droughty Slope Runoff limitation Cobble content	1.00 1.00 1.00 0.40 0.12	Very limited Deep to water	1.00
Metre-----	15	Very limited Restricted permeability Droughty Slope Depth to bedrock Runoff limitation	1.00 0.99 0.63 0.42 0.40	Very limited Deep to water	1.00
Or: Orthents, Loamy-----	80	Not rated		Not rated	
Orthents, Shaly-----	20	Not rated		Not rated	
PaE: Pactola-----	50	Very limited Slope Droughty Large stones on the surface Too acid	1.00 0.75 0.18 0.03	Very limited Deep to water	1.00
Virkula-----	20	Very limited Slope Restricted permeability Too acid	1.00 0.30 0.11	Very limited Deep to water	1.00
Rock Outcrop, Hard--	15	Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value
PbD: Paunsaugunt-----	50	Very limited Depth to bedrock Droughty Runoff limitation Low adsorption Slope	1.00 1.00 0.40 0.08 0.04	Very limited Deep to water	1.00
Gurney-----	35	Somewhat limited Depth to bedrock Droughty	0.42 0.28	Very limited Deep to water	1.00
PcD: Paunsaugunt-----	50	Very limited Slope Depth to bedrock Droughty Runoff limitation Low adsorption	1.00 1.00 1.00 0.40 0.08	Very limited Deep to water	1.00
Rock Outcrop, Sandy-	35	Not rated		Not rated	
PgC: Pierre-----	50	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Sodium content	1.00 1.00 0.42 0.40 0.18	Very limited Deep to water	1.00
Grummit-----	35	Very limited Depth to bedrock Droughty Too acid Runoff limitation Restricted permeability	1.00 1.00 0.78 0.40 0.30	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Pt: Rock Outcrop, Hard--	100	Not rated		Not rated	
ReC: Redbird-----	50	Not limited		Very limited Deep to water	1.00
Heath-----	30	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
RfE: Rekop-----	40	Very limited Slope Depth to bedrock Droughty Runoff limitation Low adsorption	1.00 1.00 1.00 0.40 0.24	Very limited Deep to water	1.00
Gypnevee-----	30	Very limited Slope	1.00	Very limited Deep to water	1.00
Rock Outcrop, Sandy-	15	Not rated		Not rated	
RgG: Rock Outcrop, Hard--	45	Not rated		Not rated	
Buska-----	40	Very limited Slope Droughty	1.00 0.51	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
RhD: Rock Outcrop, Sandy-	55	Not rated		Not rated	
Butche-----	30	Very limited Depth to bedrock Droughty Slope Cobble content Runoff limitation	1.00 1.00 0.96 0.50 0.40	Very limited Deep to water	1.00
RkG: Rock Outcrop, Hard--	45	Not rated		Not rated	
Mocmont-----	35	Very limited Slope Droughty	1.00 0.32	Very limited Deep to water	1.00
RLG: Rock Outcrop, Hard--	45	Not rated		Not rated	
Pactola-----	35	Very limited Slope Droughty Large stones on the surface Too acid	1.00 0.75 0.18 0.03	Very limited Deep to water	1.00
RmG: Rock Outcrop, Sandy-	45	Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Rekop-----	40	Very limited Slope Depth to bedrock Droughty Runoff limitation Low adsorption	1.00 1.00 1.00 0.40 0.24	Very limited Deep to water	1.00
RnG: Rock Outcrop, Sandy-	45	Not rated		Not rated	
Sawdust-----	40	Very limited Slope Cobble content	1.00 0.98	Very limited Deep to water	1.00
RpC: Rockoa-----	50	Somewhat limited Cobble content Large stones on the surface	0.98 0.18	Very limited Deep to water	1.00
Lakoa-----	30	Somewhat limited Too acid	0.02	Very limited Deep to water	1.00
RrE: Rockoa-----	40	Very limited Slope Cobble content Large stones on the surface	1.00 0.98 0.18	Very limited Deep to water	1.00
Lakoa-----	30	Very limited Slope Too acid	1.00 0.02	Very limited Deep to water	1.00
Rock Outcrop, Sandy-	15	Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value
RsF: Rockoa-----	55	Very limited Slope Cobble content Large stones on the surface	1.00 0.98 0.18	Very limited Deep to water	1.00
Rock Outcrop, Sandy-	25	Not rated		Not rated	
RtD: Rockoa-----	50	Very limited Slope Cobble content Large stones on the surface	1.00 0.98 0.18	Very limited Deep to water	1.00
Satanta-----	35	Not limited		Very limited Deep to water	1.00
SeB: Satanta-----	90	Not limited		Very limited Deep to water	1.00
SfB: Satanta-----	55	Not limited		Very limited Deep to water	1.00
Arvada-----	30	Very limited Restricted permeability Sodium content Runoff limitation	1.00 1.00 0.40	Very limited Deep to water	1.00
ShD: Satanta-----	60	Not limited		Very limited Deep to water	1.00
Canyon-----	25	Very limited Depth to bedrock Droughty Slope Runoff limitation	1.00 1.00 0.63 0.40	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
SpE: Sawdust-----	40	Very limited Slope Cobble content	1.00 0.98	Very limited Deep to water	1.00
Hopdraw-----	25	Very limited Slope Cobble content Filtering capacity Droughty Leaching limitation	1.00 1.00 1.00 0.99 0.45	Very limited Deep to water	1.00
Paunsaugunt-----	20	Very limited Slope Depth to bedrock Droughty Runoff limitation Low adsorption	1.00 1.00 1.00 0.40 0.08	Very limited Deep to water	1.00
SrE: Sawdust-----	40	Very limited Slope Cobble content	1.00 0.98	Very limited Deep to water	1.00
Vanocker-----	25	Very limited Slope Large stones on the surface	1.00 0.18	Very limited Deep to water	1.00
Paunsaugunt-----	15	Very limited Slope Depth to bedrock Droughty Runoff limitation Low adsorption	1.00 1.00 1.00 0.40 0.08	Very limited Deep to water	1.00
SwE: Shirttail-----	80	Very limited Slope Cobble content Droughty	1.00 0.87 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
SxaE: Spearfish-----	45	Very limited Depth to bedrock Droughty Slope Runoff limitation Low adsorption	1.00 1.00 1.00 0.40 0.06	Very limited Deep to water	1.00
Nevee-----	40	Very limited Slope	1.00	Very limited Deep to water	1.00
SxbF: Spearfish-----	50	Very limited Slope Depth to bedrock Droughty Runoff limitation Low adsorption	1.00 1.00 1.00 0.40 0.06	Very limited Deep to water	1.00
Rock Outcrop, Sandstone-----	35	Not rated		Not rated	
SyaC: Stovho-----	80	Somewhat limited Restricted permeability Slope Too acid	0.89 0.04 0.03	Very limited Deep to water	1.00
SybC: Stovho-----	40	Somewhat limited Restricted permeability Too acid	0.89 0.03	Very limited Deep to water	1.00
Lail-----	25	Very limited Restricted permeability	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
Trebor-----	20	Very limited Droughty Depth to bedrock Restricted permeability Slope Too acid	1.00 0.42 0.30 0.04 0.03	Very limited Deep to water	1.00
SycE: Stovho-----	50	Very limited Slope Restricted permeability Too acid	1.00 0.89 0.03	Very limited Deep to water	1.00
Trebor-----	35	Very limited Slope Droughty Depth to bedrock Restricted permeability Too acid	1.00 1.00 0.42 0.30 0.03	Very limited Deep to water	1.00
TfA: Tilford-----	85	Not limited		Very limited Deep to water	1.00
TfB: Tilford-----	85	Not limited		Very limited Deep to water	1.00
TfC: Tilford-----	85	Not limited		Very limited Deep to water	1.00
TpC: Tilford-----	50	Not limited		Very limited Deep to water	1.00
Paunsaugunt-----	35	Very limited Depth to bedrock Droughty Runoff limitation Low adsorption	1.00 1.00 0.40 0.08	Very limited Deep to water	1.00
TrB: Tilford-----	55	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
Urban Land-----	30	Not rated		Not rated	
TuG: Trebtor-----	60	Very limited Slope Droughty Depth to bedrock Restricted permeability Too acid	1.00 1.00 0.42 0.30 0.03	Very limited Deep to water	1.00
Rock Outcrop, Sandy-	25	Not rated		Not rated	
VcE: Vanocker-----	55	Very limited Slope Large stones on the surface	1.00 0.18	Very limited Deep to water	1.00
Citadel-----	25	Very limited Slope Restricted permeability Too acid	1.00 0.89 0.02	Very limited Deep to water	1.00
VkE: Vanocker-----	50	Very limited Slope Large stones on the surface	1.00 0.18	Very limited Deep to water	1.00
Lakoa-----	30	Very limited Slope Too acid	1.00 0.02	Very limited Deep to water	1.00
VnC: Vanocker-----	55	Somewhat limited Large stones on the surface Slope	0.18 0.04	Very limited Deep to water	1.00

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Paunsaugunt-----	30	Very limited Depth to bedrock Droughty Runoff limitation Low adsorption Slope	1.00 1.00 0.40 0.08 0.04	Very limited Deep to water	1.00
VoG: Vanocker-----	40	Very limited Slope Large stones on the surface	1.00 0.18	Very limited Deep to water	1.00
Sawdust-----	30	Very limited Slope Cobble content	1.00 0.98	Very limited Deep to water	1.00
Rock Outcrop, Sandy-	15	Not rated		Not rated	
VpC: Virkula-----	50	Somewhat limited Restricted permeability Too acid Slope	0.30 0.11 0.04	Very limited Deep to water	1.00
Pactola-----	30	Somewhat limited Droughty Slope Large stones on the surface Too acid	0.75 0.37 0.18 0.03	Very limited Deep to water	1.00
W: Water-----	100	Not rated		Not rated	
WtB: Winetti-----	85	Somewhat limited Cobble content Droughty	0.50 0.46	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
ZcC: Zigweid-----	60	Not limited		Very limited Deep to water	1.00
Canyon-----	25	Very limited Depth to bedrock Droughty Runoff limitation Slope	1.00 1.00 0.40 0.37	Very limited Deep to water	1.00
ZnD: Zigweid-----	55	Somewhat limited Slope	0.37	Very limited Deep to water	1.00
Nihill-----	35	Somewhat limited Slope Droughty	0.37 0.11	Very limited Deep to water	1.00

