

Ag. Waste Application and Excavated Ponds
Mellette 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
AlC: Altvan-----	85	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Ba: Badland-----	50	Not rated		Not rated	
Imlay-----	30	Very limited Depth to bedrock Droughty Runoff limitation Restricted permeability Low adsorption	1.00 1.00 0.40 0.30 0.21	Very limited Deep to water	1.00
Bg: Inavale-----	40	Very limited Flooding Filtering capacity Leaching limitation	1.00 1.00 0.45	Very limited Deep to water	1.00
Munjor-----	40	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Bk: Badland-----	75	Not rated		Not rated	

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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
Bp: Blackpipe-----	65	Somewhat limited Depth to bedrock Restricted permeability Droughty	0.42 0.30 0.17	Very limited Deep to water	1.00
Br: Bigbend-----	90	Somewhat limited Restricted permeability Sodium content	0.30 0.08	Very limited Deep to water	1.00
Bs: Wendte-----	90	Very limited Restricted permeability Flooding Runoff limitation	1.00 1.00 0.40	Very limited Slow refill Deep to water Cutbanks cave	1.00 0.90 0.10
Bt: Hilmoe-----	95	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
Bu: Wendte-----	90	Very limited Restricted permeability Flooding Runoff limitation	1.00 1.00 0.40	Very limited Slow refill Deep to water Cutbanks cave	1.00 0.90 0.10
Bv: Swanboy-----	95	Very limited Restricted permeability Runoff limitation Salinity Droughty	1.00 0.40 0.35 0.05	Very limited Deep to water	1.00
Bw: Wendte-----	90	Very limited Restricted permeability Flooding Runoff limitation	1.00 1.00 0.40	Very limited Slow refill Deep to water Cutbanks cave	1.00 0.90 0.10
Bx: Hilmoe-----	70	Very limited Restricted permeability	1.00	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
Minatare-----	20	Very limited Filtering capacity Restricted permeability Sodium content Salinity Depth to saturated zone	1.00 1.00 1.00 1.00 1.00	Very limited Cutbanks cave Salty water Deep to water	1.00 1.00 0.01
CaB: Kirley-----	90	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
CaC: Kirley-----	90	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Ce: Cedar Butte-----	70	Very limited Restricted permeability Filtering capacity Salinity Runoff limitation Droughty	1.00 1.00 0.50 0.40 0.04	Very limited Deep to water	1.00
ClE: Conata-----	60	Very limited Restricted permeability Depth to bedrock Droughty Slope Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Larvie-----	35	Very limited Restricted permeability Droughty Slope Sodium content Depth to bedrock	1.00 1.00 0.63 0.50 0.42	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
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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
DsC: Dunday-----	72	Very limited Filtering capacity Leaching limitation	1.00 0.45	Very limited Deep to water	1.00
DtB: Anselmo-----	40	Not limited		Very limited Deep to water	1.00
Dunday-----	40	Very limited Filtering capacity Leaching limitation	1.00 0.45	Very limited Deep to water	1.00
DuD: Dunday-----	45	Very limited Filtering capacity Leaching limitation Slope	1.00 0.45 0.16	Very limited Deep to water	1.00
Valentine-----	40	Very limited Filtering capacity Slope Leaching limitation	1.00 0.63 0.45	Very limited Deep to water	1.00
DvA: Duroc-----	46	Not limited		Very limited Deep to water	1.00
Kadoka-----	40	Somewhat limited Depth to bedrock	0.42	Very limited Deep to water	1.00
DvB: Duroc-----	40	Not limited		Very limited Deep to water	1.00
Kadoka-----	40	Somewhat limited Depth to bedrock	0.42	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
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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
EhD: Epping-----	50	Very limited Depth to bedrock Droughty Runoff limitation Slope	1.00 1.00 0.40 0.16	Very limited Deep to water	1.00
Huggins-----	30	Somewhat limited Depth to bedrock Droughty Restricted permeability Slope	0.84 0.83 0.30 0.16	Very limited Deep to water	1.00
EhE: Epping-----	55	Very limited Slope Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Huggins-----	25	Somewhat limited Depth to bedrock Droughty Slope Restricted permeability	0.84 0.83 0.37 0.30	Very limited Deep to water	1.00
Ge: Munjor-----	85	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Gp: Orthents, Gravelly--	100	Not Rated Not Rated Low adsorption Slope Leaching limitation	1.00 1.00 0.45	Very limited Deep to water	1.00
Ha: Hilmoe-----	85	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
Hc: Interior-----	95	Very limited Flooding Sodium content	1.00 1.00	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
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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
Hd: Hilmoe-----	90	Very limited Restricted permeability Flooding	1.00 0.60	Very limited Deep to water	1.00
He: Hilmoe-----	95	Very limited Restricted permeability Flooding	1.00 0.60	Very limited Deep to water	1.00
HlD: Hisle-----	44	Very limited Sodium content Droughty Depth to bedrock Runoff limitation Salinity	1.00 1.00 0.42 0.40 0.35	Very limited Deep to water	1.00
Orella-----	44	Very limited Restricted permeability Depth to bedrock Droughty Sodium content Salinity	1.00 1.00 1.00 1.00 0.50	Very limited Deep to water	1.00
HnB: Huggins-----	90	Somewhat limited Depth to bedrock Droughty Restricted permeability	0.84 0.83 0.30	Very limited Deep to water	1.00
HnC: Huggins-----	80	Somewhat limited Depth to bedrock Droughty Restricted permeability	0.84 0.83 0.30	Very limited Deep to water	1.00
HpD: Huggins-----	60	Somewhat limited Depth to bedrock Droughty Restricted permeability Slope	0.84 0.83 0.30 0.16	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
Epping-----	30	Very limited Depth to bedrock Droughty Runoff limitation Slope	1.00 1.00 0.40 0.16	Very limited Deep to water	1.00
HuA: Huggins-----	60	Somewhat limited Depth to bedrock Droughty Restricted permeability	0.84 0.83 0.30	Very limited Deep to water	1.00
Kadoka-----	30	Somewhat limited Depth to bedrock	0.42	Very limited Deep to water	1.00
HuB: Huggins-----	65	Somewhat limited Depth to bedrock Droughty Restricted permeability	0.84 0.83 0.30	Very limited Deep to water	1.00
Kadoka-----	25	Somewhat limited Depth to bedrock	0.42	Very limited Deep to water	1.00
HwB: Huggins-----	40	Somewhat limited Depth to bedrock Droughty Restricted permeability	0.84 0.83 0.30	Very limited Deep to water	1.00
Wortman-----	40	Very limited Restricted permeability Sodium content Droughty Salinity Depth to bedrock	1.00 1.00 0.64 0.50 0.42	Very limited Deep to water	1.00
Ib: Imlay-----	50	Very limited Slope Depth to bedrock Droughty Runoff limitation Restricted permeability	1.00 1.00 1.00 0.40 0.30	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
Badland-----	25	Not rated		Not rated	
IcD: Conata-----	40	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
Imlay-----	40	Very limited Depth to bedrock Droughty Runoff limitation Slope Restricted permeability	1.00 1.00 0.40 0.37 0.30	Very limited Deep to water	1.00
IcE: Conata-----	35	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
Imlay-----	35	Very limited Slope Depth to bedrock Droughty Runoff limitation Restricted permeability	1.00 1.00 1.00 0.40 0.30	Very limited Deep to water	1.00
InE: Imlay-----	55	Very limited Depth to bedrock Droughty Slope Low adsorption Runoff limitation	1.00 1.00 1.00 0.44 0.40	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
Norrest-----	35	Very limited Slope Droughty Depth to bedrock	1.00 0.43 0.42	Very limited Deep to water	1.00
Ka: Kadoka-----	60	Somewhat limited Depth to bedrock	0.42	Very limited Deep to water	1.00
Kube-----	20	Not limited		Very limited Deep to water	1.00
KeD: Keota-----	50	Very limited Droughty Slope Depth to bedrock	1.00 0.63 0.42	Very limited Deep to water	1.00
Epping-----	40	Very limited Depth to bedrock Droughty Slope Runoff limitation	1.00 1.00 0.63 0.40	Very limited Deep to water	1.00
Kh: Hoven-----	50	Very limited Restricted permeability Depth to saturated zone Ponding Sodium content Salinity	1.00 1.00 1.00 1.00 0.50	Somewhat limited Salty water Slow refill Cutbanks cave	0.50 0.30 0.10
Kolls-----	50	Very limited Restricted permeability Depth to saturated zone Ponding Runoff limitation	1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Ky: Kyle-----	90	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.32	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
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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
LdD: Lakoma-----	60	Very limited Restricted permeability Droughty Slope Depth to bedrock Runoff limitation	1.00 1.00 0.63 0.42 0.40	Very limited Deep to water	1.00
Murdo-----	25	Very limited Filtering capacity Droughty Slope	1.00 0.69 0.63	Very limited Deep to water	1.00
LdD: Lakoma-----	60	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Slope	1.00 1.00 0.42 0.40 0.16	Very limited Deep to water	1.00
Okaton-----	25	Very limited Restricted permeability Depth to bedrock Droughty Slope Runoff limitation	1.00 1.00 1.00 0.63 0.40	Very limited Deep to water	1.00
LdE: Lakoma-----	50	Very limited Slope Restricted permeability Droughty Depth to bedrock Runoff limitation	1.00 1.00 1.00 0.42 0.40	Very limited Deep to water	1.00
Okaton-----	35	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

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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
LeC: Larvie-----	72	Very limited Restricted permeability Droughty Sodium content Depth to bedrock Runoff limitation	1.00 1.00 0.50 0.42 0.40	Very limited Deep to water	1.00
LfC: Larvie-----	60	Very limited Restricted permeability Droughty Sodium content Depth to bedrock Runoff limitation	1.00 1.00 0.50 0.42 0.40	Very limited Deep to water	1.00
Conata-----	25	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
LhC: Larvie-----	43	Very limited Restricted permeability Droughty Sodium content Depth to bedrock Runoff limitation	1.00 1.00 0.50 0.42 0.40	Very limited Deep to water	1.00
Hisle-----	42	Very limited Sodium content Droughty Depth to bedrock Runoff limitation Salinity	1.00 1.00 0.42 0.40 0.35	Very limited Deep to water	1.00
LmB: Larvie-----	50	Very limited Restricted permeability Droughty Sodium content Depth to bedrock Runoff limitation	1.00 1.00 0.50 0.42 0.40	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
Metre-----	20	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation	1.00 1.00 0.42 0.40	Very limited Deep to water	1.00
LoA: Lowry-----	85	Not limited		Very limited Deep to water	1.00
LoB: Lowry-----	90	Not limited		Very limited Deep to water	1.00
Ls: Lowry-----	70	Not limited		Very limited Deep to water	1.00
Slickspots, Dry-----	20	Not rated		Not rated	
MaD: Manter-----	50	Somewhat limited Slope	0.63	Very limited Deep to water	1.00
Anselmo-----	30	Somewhat limited Slope	0.63	Very limited Deep to water	1.00
McE: Manter-----	60	Very limited Slope	1.00	Very limited Deep to water	1.00
Sansarc-----	20	Very limited Restricted permeability Depth to bedrock Droughty Slope Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
MfC: Manter-----	50	Not limited		Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
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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
Tuthill-----	20	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
MLB: Millboro-----	60	Very limited Restricted permeability Runoff limitation	1.00 0.40	Very limited Deep to water	1.00
Reliance-----	30	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
MLC: Millboro-----	60	Very limited Restricted permeability Runoff limitation	1.00 0.40	Very limited Deep to water	1.00
Reliance-----	30	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Mm: Minatare-----	75	Very limited Filtering capacity Restricted permeability Sodium content Salinity Depth to saturated zone	1.00 1.00 1.00 1.00 1.00	Very limited Cutbanks cave Salty water Deep to water	1.00 1.00 0.01
Mn: Bigbend-----	90	Somewhat limited Sodium content	0.08	Very limited Deep to water	1.00
Mo: Mosher-----	80	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Cutbanks cave Deep to water Salty water Slow refill	1.00 0.81 0.50 0.43

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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
MrC: Murdo-----	70	Very limited Filtering capacity Droughty	1.00 0.69	Very limited Deep to water	1.00
MsD: Murdo-----	50	Very limited Filtering capacity Droughty Slope	1.00 0.69 0.37	Very limited Deep to water	1.00
Lakoma-----	30	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Slope	1.00 1.00 0.42 0.40 0.37	Very limited Deep to water	1.00
MuD: Murdo-----	60	Very limited Filtering capacity Droughty Slope	1.00 0.69 0.63	Very limited Deep to water	1.00
Schamber-----	30	Very limited Filtering capacity Droughty Slope Leaching limitation	1.00 1.00 0.63 0.45	Very limited Deep to water	1.00
NlC: Norrest-----	72	Somewhat limited Droughty Depth to bedrock	0.43 0.42	Very limited Deep to water	1.00
Nm: Norrest-----	65	Somewhat limited Droughty Depth to bedrock	0.43 0.42	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
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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
Badland-----	20	Not rated		Not rated	
NoA: Norrest-----	60	Somewhat limited Droughty Depth to bedrock	0.43 0.42	Very limited Deep to water	1.00
Blackpipe-----	25	Somewhat limited Depth to bedrock Restricted permeability Droughty	0.42 0.30 0.17	Very limited Deep to water	1.00
NoB: Norrest-----	65	Somewhat limited Droughty Depth to bedrock	0.43 0.42	Very limited Deep to water	1.00
Blackpipe-----	15	Somewhat limited Depth to bedrock Restricted permeability Droughty	0.42 0.30 0.17	Very limited Deep to water	1.00
NrC: Norrest-----	55	Somewhat limited Droughty Depth to bedrock	0.43 0.42	Very limited Deep to water	1.00
Cedar Butte-----	30	Very limited Restricted permeability Filtering capacity Salinity Runoff limitation Droughty	1.00 1.00 0.50 0.40 0.04	Very limited Deep to water	1.00
NsC: Norrest-----	60	Somewhat limited Droughty Depth to bedrock	0.43 0.42	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
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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
Imlay-----	30	Very limited Depth to bedrock Droughty Low adsorption Runoff limitation Restricted permeability	1.00 1.00 0.44 0.40 0.30	Very limited Deep to water	1.00
NsD: Norrest-----	60	Somewhat limited Slope Droughty Depth to bedrock	0.63 0.43 0.42	Very limited Deep to water	1.00
Imlay-----	30	Very limited Depth to bedrock Droughty Slope Low adsorption Runoff limitation	1.00 1.00 0.63 0.44 0.40	Very limited Deep to water	1.00
NtB: Norrest-----	45	Somewhat limited Droughty Depth to bedrock	0.43 0.42	Very limited Deep to water	1.00
Okreek-----	45	Very limited Restricted permeability Droughty Runoff limitation Depth to bedrock	1.00 0.45 0.40 0.10	Very limited Deep to water	1.00
OcC: 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
OgC: 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

Ag. Waste Application and Excavated Ponds -- continued
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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
OlB: Opal-----	60	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
Kirley-----	30	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
OlC: Opal-----	65	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
Kirley-----	25	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
OmB: Opal-----	62	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
Mosher-----	30	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Cutbanks cave Deep to water Salty water Slow refill	1.00 0.81 0.50 0.43
OpB: Opal-----	60	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
Promise-----	30	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
OtB: Opal-----	60	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
Tuthill-----	30	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
OtD: Opal-----	60	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Slope	1.00 0.97 0.42 0.40 0.16	Very limited Deep to water	1.00
Tuthill-----	30	Very limited Filtering capacity Slope	1.00 0.16	Very limited Deep to water	1.00
OwC: Opal-----	70	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
Woodly-----	15	Not limited		Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
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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
Ox: Orella-----	45	Very limited Restricted permeability Depth to bedrock Droughty Sodium content Salinity	1.00 1.00 1.00 1.00 0.50	Very limited Deep to water	1.00
Rock Outcrop, Soft--	30	Not rated		Not rated	
PcA: Promise-----	90	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
PcB: Promise-----	90	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
Pd: Wendte-----	85	Very limited Restricted permeability Runoff limitation	1.00 0.40	Very limited Slow refill Deep to water Cutbanks cave	1.00 0.90 0.10
PgA: Opal-----	45	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
Promise-----	45	Very limited Restricted permeability Runoff limitation Sodium content	1.00 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
PgB: Opal-----	45	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
Promise-----	45	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
PmA: Promise-----	70	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
Mosher-----	20	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Cutbanks cave Deep to water Salty water Slow refill	1.00 0.81 0.50 0.43
Ps: Wendte-----	65	Very limited Restricted permeability Runoff limitation	1.00 0.40	Very limited Slow refill Deep to water Cutbanks cave	1.00 0.90 0.10
Slickspots, Dry-----	25	Not rated		Not rated	
ReB: Ree-----	90	Not limited		Very limited Deep to water	1.00
RkA: Ree-----	43	Not limited		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
Keya-----	42	Not limited		Very limited Deep to water	1.00
RkB: Keya-----	45	Not limited		Very limited Deep to water	1.00
Ree-----	45	Not limited		Very limited Deep to water	1.00
SaE: Samsil-----	90	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
SlD: Okaton-----	50	Very limited Restricted permeability Depth to bedrock Droughty Slope Runoff limitation	1.00 1.00 1.00 0.63 0.40	Very limited Deep to water	1.00
Lakoma-----	40	Very limited Restricted permeability Droughty Slope Depth to bedrock Runoff limitation	1.00 1.00 0.63 0.42 0.40	Very limited Deep to water	1.00
SlE: Okaton-----	60	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

Ag. Waste Application and Excavated Ponds -- continued
Mellette County, South Dakota

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
Lakoma-----	25	Very limited Slope Restricted permeability Droughty Depth to bedrock Runoff limitation	1.00 1.00 1.00 0.42 0.40	Very limited Deep to water	1.00
SmE: 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
Manter-----	30	Very limited Slope	1.00	Very limited Deep to water	1.00
SnE: Sansarc-----	70	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
Schamber-----	20	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 1.00 0.45	Very limited Deep to water	1.00
Ss: Sansarc-----	70	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

Ag. Waste Application and Excavated Ponds -- continued
Melleette County, South Dakota

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
Rock Outcrop, Soft--	20	Not rated		Not rated	
St: Valentine-----	45	Very limited Slope Filtering capacity Leaching limitation	1.00 1.00 0.45	Very limited Deep to water	1.00
Whitelake-----	30	Very limited Restricted permeability Sodium content Salinity	1.00 1.00 0.50	Very limited Cutbanks cave Deep to water Salty water	1.00 0.81 0.50
SuA: Reliance-----	80	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
SuB: Reliance-----	80	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
SuC: Reliance-----	85	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
SvE: Schamber-----	60	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 1.00 0.45	Very limited Deep to water	1.00
Murdo-----	30	Very limited Slope Filtering capacity Droughty	1.00 1.00 0.69	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
Melleette County, South Dakota

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
SwE: Schamber-----	50	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 1.00 0.45	Very limited Deep to water	1.00
Sansarc-----	40	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
Sy: Stirk-----	95	Very limited Restricted permeability Flooding Runoff limitation Salinity	1.00 0.60 0.40 0.01	Very limited Deep to water	1.00
ThB: Tuthill-----	90	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
ToC: Tuthill-----	60	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Opal-----	20	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
TuB: Tuthill-----	45	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
Mellette County, South Dakota

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
Whitelake-----	45	Very limited Restricted permeability Sodium content Salinity	1.00 1.00 0.50	Very limited Cutbanks cave Deep to water Salty water	1.00 0.81 0.50
TwA: Tuthill-----	60	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Woodly-----	30	Not limited		Very limited Deep to water	1.00
TwB: Tuthill-----	60	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Woodly-----	25	Not limited		Very limited Deep to water	1.00
VaE: Valentine-----	80	Very limited Slope Filtering capacity Leaching limitation Droughty	1.00 1.00 0.45 0.29	Very limited Deep to water	1.00
w: Water (less Than 40 Acres)-----	100	Not rated		Not rated	
Wa: Wanblee-----	50	Very limited Restricted permeability Droughty Salinity Depth to bedrock Runoff limitation	1.00 1.00 0.50 0.42 0.40	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
Melleette County, South Dakota

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
Whitelake-----	30	Very limited Restricted permeability Sodium content Salinity	1.00 1.00 0.50	Very limited Cutbanks cave Deep to water Salty water	1.00 0.81 0.50
WbB: Wanblee-----	50	Very limited Restricted permeability Droughty Salinity Depth to bedrock Runoff limitation	1.00 1.00 0.50 0.42 0.40	Very limited Deep to water	1.00
Wortman-----	30	Very limited Restricted permeability Sodium content Droughty Salinity Depth to bedrock	1.00 1.00 0.50 0.50 0.42	Very limited Deep to water	1.00
Wd: Woodly-----	80	Not limited		Very limited Deep to water	1.00
WoB: Woodly-----	65	Not limited		Very limited Deep to water	1.00
Opal-----	20	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
Ww: Wortman-----	37	Very limited Restricted permeability Sodium content Droughty Salinity Depth to bedrock	1.00 1.00 0.50 0.50 0.42	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
Mellette County, South Dakota

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
Wanblee-----	36	Very limited Restricted permeability Droughty Salinity Depth to bedrock Runoff limitation	1.00 1.00 0.50 0.42 0.40	Very limited Deep to water	1.00

