

Ag. Waste Application and Excavated Ponds  
Haakon 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 Flooding Ponding Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Slow refill Cutbanks cave	1.00 0.10
Ar: Arvada-----	90	Very limited Restricted permeability Sodium content Runoff limitation	1.00 1.00 0.40	Very limited Deep to water	1.00
As: Arvada-----	60	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	
Bc: Bankard-----	90	Very limited Filtering capacity Droughty Leaching limitation	1.00 0.62 0.45	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
Bd: Bankard-----	90	Very limited Filtering capacity Flooding Leaching limitation Droughty	1.00 0.60 0.45 0.09	Very limited Deep to water	1.00
BkA: Blackpipe-----	90	Somewhat limited Depth to bedrock Droughty Restricted permeability	0.42 0.36 0.30	Very limited Deep to water	1.00
BkB: Blackpipe-----	85	Somewhat limited Depth to bedrock Droughty Restricted permeability	0.42 0.36 0.30	Very limited Deep to water	1.00
Bo: Blackpipe-----	55	Somewhat limited Depth to bedrock Droughty Restricted permeability	0.42 0.36 0.30	Very limited Deep to water	1.00
Wortman-----	35	Very limited Restricted permeability Sodium content Droughty Salinity Depth to bedrock	1.00 1.00 0.54 0.50 0.42	Very limited Deep to water	1.00
Bu: Bullcreek-----	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

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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
Bx: Bullcreek-----	60	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	
Ca: Canning-----	90	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
CbA: 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
Cc: Capa-----	55	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	
Ct: 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

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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
Wendte-----	35	Very limited Restricted permeability Flooding Runoff limitation	1.00 0.60 0.40	Very limited Slow refill Deep to water Cutbanks cave	1.00 0.90 0.10
Cv: Craft-----	85	Somewhat limited Sodium content	0.08	Very limited Deep to water	1.00
Eg: Egas-----	85	Very limited Restricted permeability Depth to saturated zone Salinity Flooding Runoff limitation	1.00 1.00 0.78 0.60 0.40	Very limited Slow refill Salty water Cutbanks cave	1.00 0.78 0.10
Ha: Haverson-----	90	Not limited		Very limited Deep to water	1.00
Hb: Haverson-----	90	Very limited Flooding	1.00	Very limited Deep to water	1.00
Hc: Haverson-----	50	Not limited		Very limited Deep to water	1.00
Craft-----	40	Somewhat limited Sodium content	0.08	Very limited Deep to water	1.00
Ho: Hilmoe-----	90	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
HpB: Hisle-----	90	Very limited Restricted permeability Sodium content Droughty Depth to bedrock Runoff limitation	1.00 1.00 1.00 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
Hv: Hoven-----	90	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
KeA: Kirley-----	90	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
KeB: Kirley-----	90	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
KeD: Kirley-----	90	Somewhat limited Restricted permeability Slope	0.89 0.63	Very limited Deep to water	1.00
KfB: Kirley-----	50	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Canning-----	40	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
KhA: Kirley-----	60	Somewhat limited Restricted permeability	0.89	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 Slow refill Deep to water Salty water Cutbanks cave	1.00 0.81 0.50 0.10
KhB: Kirley-----	70	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
Mosher-----	25	Very limited Restricted permeability	1.00	Very limited Slow refill	1.00
		Sodium content	1.00	Deep to water	0.81
		Salinity	0.50	Salty water	0.50
		Runoff limitation	0.40	Cutbanks cave	0.10
KmA: Kirley-----	45	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Ottumwa-----	35	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
		Runoff limitation	0.40		
		Droughty	0.14		
KmB: Kirley-----	45	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Ottumwa-----	35	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
		Runoff limitation	0.40		
		Droughty	0.14		
KmC: Kirley-----	45	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Ottumwa-----	35	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
		Runoff limitation	0.40		
		Droughty	0.14		
KnD: Kirley-----	55	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
		Slope	0.63		
Vivian-----	30	Somewhat limited Slope	0.37	Very limited Deep to water	1.00
		Droughty	0.33		

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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
Ko: Kolls-----	90	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
KyA: Kyle-----	90	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.32	Very limited Deep to water	1.00
KyB: Kyle-----	90	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.32	Very limited Deep to water	1.00
LaB: Lakoma-----	90	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
LaC: Lakoma-----	90	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
LaD: Lakoma-----	85	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

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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
LbE: Lakoma-----	50	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
Vivian-----	30	Very limited Slope Droughty	1.00 0.33	Very limited Deep to water	1.00
Lo: Lohmiller-----	90	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Lp: Lohmiller-----	90	Very limited Restricted permeability Flooding	1.00 0.60	Very limited Deep to water	1.00
Lv: Lohmiller-----	55	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Arvada-----	35	Very limited Restricted permeability Sodium content Runoff limitation	1.00 1.00 0.40	Very limited Deep to water	1.00
MaE: Midway-----	85	Very limited Slope Restricted permeability Depth to bedrock Droughty Sodium content	1.00 1.00 1.00 1.00 0.50	Very limited Deep to water	1.00
Mo: Mosher-----	85	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Slow refill Deep to water Salty water Cutbanks cave	1.00 0.81 0.50 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
Nb: Nimbro-----	90	Not limited		Very limited Deep to water	1.00
Nc: Nimbro-----	90	Very limited Flooding	1.00	Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
NuA: Nunn-----	90	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
NuB: Nunn-----	85	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
NuC: Nunn-----	85	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
NxD: Nunn-----	50	Very limited Restricted permeability Slope	1.00 0.63	Very limited Deep to water	1.00
Nihill-----	35	Somewhat limited Slope Droughty	0.37 0.08	Very limited Deep to water	1.00
ObE: Okaton-----	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
Lakoma-----	40	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

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Oc: Onita-----	90	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
OdB: Opal-----	85	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Sodium content	1.00 0.96 0.42 0.40 0.02	Very limited Deep to water	1.00
OdC: Opal-----	85	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Sodium content	1.00 0.96 0.42 0.40 0.02	Very limited Deep to water	1.00
OdD: Opal-----	85	Very limited Restricted permeability Droughty Slope Depth to bedrock Runoff limitation	1.00 0.96 0.63 0.42 0.40	Very limited Deep to water	1.00
OeB: Opal-----	50	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Sodium content	1.00 0.96 0.42 0.40 0.02	Very limited Deep to water	1.00
Promise-----	35	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
OeC: Opal-----	55	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Sodium content	1.00 0.96 0.42 0.40 0.02	Very limited Deep to water	1.00
Promise-----	30	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
Of: Orthents, Clayey----	90	Very limited Depth to bedrock Droughty Low adsorption Slope	1.00 1.00 0.75 0.37	Very limited Deep to water	1.00
Og: Orthents, Gravelly--	90	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 0.95 0.45	Very limited Deep to water	1.00
OtA: Ottumwa-----	85	Very limited Restricted permeability Runoff limitation Droughty	1.00 0.40 0.14	Very limited Deep to water	1.00
OtB: Ottumwa-----	85	Very limited Restricted permeability Runoff limitation Droughty	1.00 0.40 0.14	Very limited Deep to water	1.00
OvA: Ottumwa-----	55	Very limited Restricted permeability Runoff limitation Droughty	1.00 0.40 0.14	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
Capa-----	35	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
OwB: Ottumwa-----	65	Very limited Restricted permeability Runoff limitation Droughty	1.00 0.40 0.14	Very limited Deep to water	1.00
Lakoma-----	30	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
OwC: Ottumwa-----	55	Very limited Restricted permeability Runoff limitation Droughty	1.00 0.40 0.14	Very limited Deep to water	1.00
Lakoma-----	35	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
OxC: Ottumwa-----	50	Very limited Restricted permeability Runoff limitation Droughty	1.00 0.40 0.14	Very limited Deep to water	1.00
Razor-----	35	Very limited Restricted permeability Droughty Depth to bedrock	1.00 0.51 0.42	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
OyC: Ottumwa-----	35	Very limited Restricted permeability Runoff limitation Droughty	1.00 0.40 0.14	Very limited Deep to water	1.00
Razor-----	30	Very limited Restricted permeability Droughty Depth to bedrock Slope	1.00 0.51 0.42 0.37	Very limited Deep to water	1.00
Savo-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
PeC: Pierre-----	90	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
PeD: Pierre-----	90	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
PkE: Pierre-----	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

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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
Samsil-----	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
PrA: Promise-----	90	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
PrB: Promise-----	90	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
RaB: Razor-----	90	Very limited Restricted permeability Droughty Depth to bedrock	1.00 0.51 0.42	Very limited Deep to water	1.00
RaC: Razor-----	90	Very limited Restricted permeability Droughty Depth to bedrock	1.00 0.51 0.42	Very limited Deep to water	1.00
RbD: Razor-----	55	Very limited Restricted permeability Slope Droughty Depth to bedrock	1.00 0.63 0.51 0.42	Very limited Deep to water	1.00
Midway-----	30	Very limited Restricted permeability Depth to bedrock Droughty Sodium content Runoff limitation	1.00 1.00 1.00 0.50 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
RdD: Razor-----	50	Very limited Restricted permeability Droughty Depth to bedrock Slope	1.00 0.51 0.42 0.37	Very limited Deep to water	1.00
Shingle-----	40	Very limited Depth to bedrock Droughty Runoff limitation Slope	1.00 1.00 0.40 0.37	Very limited Deep to water	1.00
ReA: Ree-----	95	Not limited		Very limited Deep to water	1.00
ReB: Ree-----	90	Not limited		Very limited Deep to water	1.00
RfB: Ree-----	50	Not limited		Very limited Deep to water	1.00
Canning-----	40	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
RfC: Ree-----	50	Not limited		Very limited Deep to water	1.00
Canning-----	40	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Rh: Ree-----	80	Not limited		Very limited Deep to water	1.00
Hoven-----	15	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

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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
RkD: Ree-----	55	Not limited		Very limited Deep to water	1.00
Vivian-----	30	Somewhat limited Slope Droughty	0.37 0.33	Very limited Deep to water	1.00
Rv: Riverwash-----	90	Not rated		Not rated	
SbF: 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
ScF: Samsil-----	65	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
Nihill-----	20	Very limited Slope Droughty	1.00 0.08	Very limited Deep to water	1.00
SdF: Samsil-----	55	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
Rock Outcrop, Soft--	30	Not rated		Not rated	
SoE: Sansarc-----	65	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-----	25	Very limited Restricted permeability Slope Droughty Depth to bedrock Runoff limitation	1.00 1.00 0.96 0.42 0.40	Very limited Deep to water	1.00
SrA: Savo-----	90	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
SrB: Savo-----	90	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
SrC: Savo-----	90	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
StF: 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

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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
Samsil-----	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
SuE: Shingle-----	90	Very limited Slope Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
SwE: Shingle-----	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
Razor-----	35	Very limited Slope Restricted permeability Droughty Depth to bedrock	1.00 1.00 0.51 0.42	Very limited Deep to water	1.00
W: Water-----	100	Not rated		Not rated	
Wc: Wendte-----	90	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
Wd: Wendte-----	55	Very limited Restricted permeability Flooding Runoff limitation	1.00 0.60 0.40	Very limited Slow refill Deep to water Cutbanks cave	1.00 0.90 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
Herdcamp-----	30	Very limited Restricted permeability Depth to saturated zone Flooding Runoff limitation Sodium content	1.00 1.00 1.00 0.40 0.02	Very limited Slow refill Cutbanks cave Salty water	1.00 0.10 0.01
WSE: Wendte-----	50	Very limited Restricted permeability Flooding Runoff limitation	1.00 0.60 0.40	Very limited Slow refill Deep to water Cutbanks cave	1.00 0.90 0.10
Sansarc-----	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
Ww: Wortman-----	50	Very limited Restricted permeability Sodium content Droughty Salinity Depth to bedrock	1.00 1.00 0.54 0.50 0.42	Very limited Deep to water	1.00
Wanblee-----	35	Very limited Restricted permeability Droughty Salinity Depth to bedrock Runoff limitation	1.00 0.72 0.50 0.42 0.40	Very limited Deep to water	1.00

