

Ag. Waste Application and Excavated Ponds
Dewey 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
Aba: Rhoades-----	75	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.78 0.40	Very limited Deep to water	1.00
AcA: Rhoades-----	50	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.78 0.40	Very limited Deep to water	1.00
Slickspots, Dry----	40	Not rated		Not rated	
AgB: Agar-----	80	Not limited		Very limited Deep to water	1.00
Reliance-----	19	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
ArB: Parchin-----	40	Very limited Restricted permeability Sodium content Droughty Depth to bedrock Runoff limitation	1.00 1.00 0.94 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
Bullock-----	30	Very limited Restricted permeability Sodium content Droughty Depth to bedrock Runoff limitation	1.00 1.00 0.91 0.42 0.40	Very limited Deep to water	1.00
Slickspots, Dry-----	25	Not rated		Not rated	
AsA: 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-----	40	Not rated		Not rated	
BdA: Belfield-----	60	Very limited Restricted permeability Sodium content	1.00 0.82	Very limited Deep to water	1.00
Daglun-----	20	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 1.00 0.40 0.01	Very limited Deep to water	1.00
BrA: Belfield-----	50	Very limited Restricted permeability Sodium content	1.00 0.82	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
Reeder-----	30	Somewhat limited Depth to bedrock Droughty	0.42 0.10	Very limited Deep to water	1.00
BrB: Belfield-----	45	Very limited Restricted permeability Sodium content	1.00 0.82	Very limited Deep to water	1.00
Reeder-----	40	Somewhat limited Depth to bedrock Droughty	0.42 0.10	Very limited Deep to water	1.00
BrC: Belfield-----	45	Very limited Restricted permeability Sodium content	1.00 0.82	Very limited Deep to water	1.00
Reeder-----	40	Somewhat limited Depth to bedrock Droughty	0.42 0.10	Very limited Deep to water	1.00
CbE: Cabba-----	50	Very limited Slope Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Lantry-----	35	Very limited Slope Depth to bedrock Droughty	1.00 0.42 0.01	Very limited Deep to water	1.00
CbF: Cabba-----	65	Very limited Slope Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Lantry-----	20	Very limited Slope Depth to bedrock Droughty	1.00 0.42 0.01	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
CdA: Canning-----	90	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
ChB: Chantier-----	85	Very limited Restricted permeability Depth to bedrock Droughty Salinity Runoff limitation	1.00 1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
CsC: Chantier-----	50	Very limited Restricted permeability Depth to bedrock Droughty Salinity Runoff limitation	1.00 1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
Rock Outcrop, Soft--	40	Not rated		Not rated	
DaA: Daglum-----	70	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 1.00 0.40 0.01	Very limited Deep to water	1.00
Rhoades-----	15	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.78 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
DoB: Dupree-----	45	Very limited Restricted permeability Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Opal-----	45	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
DsE: Dupree-----	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
Sansarc-----	25	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
EkA: Ekalaka-----	80	Very limited Restricted permeability Sodium content Salinity	1.00 0.82 0.01	Very limited Deep to water	1.00
EkC: Ekalaka-----	85	Very limited Restricted permeability Sodium content Salinity	1.00 0.82 0.01	Very limited Deep to water	1.00
FaA: Farland-----	90	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
FaB: Farland-----	85	Not limited		Very limited Deep to water	1.00
FbF: Flasher-----	75	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
FvD: Flasher-----	50	Not Rated Not Rated Depth to bedrock Droughty Filtering capacity Slope	1.00 1.00 1.00 0.37	Very limited Deep to water	1.00
Vebar-----	30	Somewhat limited Depth to bedrock Slope Droughty	0.42 0.37 0.25	Very limited Deep to water	1.00
FvE: Flasher-----	50	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
Vebar-----	40	Very limited Slope Depth to bedrock Droughty	1.00 0.42 0.25	Very limited Deep to water	1.00
Gb: Glenross-----	80	Very limited Restricted permeability Depth to saturated zone Sodium content Filtering capacity Salinity	1.00 1.00 1.00 1.00 1.00 0.78	Very limited Cutbanks cave Salty water	1.00 0.78

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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
Gp: Orthents, Gravelly--	99	Not rated		Not rated	
Gr: Glenross-----	60	Very limited Restricted permeability Depth to saturated zone Sodium content Filtering capacity Salinity	1.00 1.00 1.00 1.00 0.78	Very limited Cutbanks cave Salty water	1.00 0.78
Regan-----	35	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Cutbanks cave Slow refill	1.00 0.43
Hc: 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 Slow refill Salty water Cutbanks cave	0.95 0.50 0.10
HsB: Hurley-----	65	Very limited Sodium content Droughty Salinity Depth to bedrock Runoff limitation	1.00 0.99 0.50 0.42 0.40	Very limited Deep to water	1.00
Slickspots, Dry-----	20	Very limited Restricted permeability Salinity Sodium content Droughty Runoff limitation	1.00 1.00 1.00 0.96 0.40	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
Opal-----	15	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
In: Aquolls-----	85	Not rated		Not rated	
LmD: Lantry-----	50	Somewhat limited Depth to bedrock Slope Droughty	0.42 0.37 0.01	Very limited Deep to water	1.00
Morton-----	40	Somewhat limited Depth to bedrock Droughty	0.42 0.01	Very limited Deep to water	1.00
Lo: Lohler-----	90	Very limited Restricted permeability Salinity	1.00 0.01	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.90 0.10 0.01
Lp: Havrelon-----	40	Somewhat limited Flooding	0.60	Very limited Deep to water	1.00
Lohler-----	40	Very limited Restricted permeability Salinity	1.00 0.01	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.90 0.10 0.01
LwA: Lowry-----	95	Not limited		Very limited Deep to water	1.00
LwB: Lowry-----	90	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
Ma: Orthents, Tailings--	99	Not rated		Not rated	
MbD: Moreau-----	45	Very limited Restricted permeability Slope Depth to bedrock Droughty Runoff limitation	1.00 1.00 0.42 0.42 0.40	Very limited Deep to water	1.00
Wayden-----	35	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
McB: Morton-----	75	Somewhat limited Depth to bedrock Droughty	0.42 0.01	Very limited Deep to water	1.00
MdA: Morton-----	45	Somewhat limited Depth to bedrock Droughty	0.42 0.01	Very limited Deep to water	1.00
Belfield-----	35	Very limited Restricted permeability Sodium content	1.00 0.82	Very limited Deep to water	1.00
MdB: Morton-----	60	Somewhat limited Depth to bedrock Droughty	0.42 0.01	Very limited Deep to water	1.00
Belfield-----	25	Very limited Restricted permeability Sodium content	1.00 0.82	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
MfA: Morton-----	65	Somewhat limited Depth to bedrock Droughty	0.42 0.01	Very limited Deep to water	1.00
Farland-----	30	Not limited		Very limited Deep to water	1.00
MgB: Morton-----	55	Somewhat limited Depth to bedrock Droughty	0.42 0.01	Very limited Deep to water	1.00
Lantry-----	30	Somewhat limited Depth to bedrock Droughty	0.42 0.01	Very limited Deep to water	1.00
Na: Rhoades-----	40	Very limited Restricted permeability Flooding Salinity	1.00 0.60 0.01	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.90 0.10 0.01
Daglun-----	30	Very limited Restricted permeability Low adsorption Salinity Flooding Runoff limitation	1.00 1.00 0.78 0.60 0.40	Very limited Deep to water	1.00
OaB: Opal-----	80	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
OhB: 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

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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
Hurley-----	25	Very limited Sodium content Droughty Salinity Depth to bedrock Runoff limitation	1.00 0.99 0.50 0.42 0.40	Very limited Deep to water	1.00
OpA: 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-----	40	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
OsC: Opal-----	60	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Slope	1.00 0.96 0.42 0.40 0.37	Very limited Deep to water	1.00
Sansarc-----	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
OtB: 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

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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
Slickspots, Dry-----	30	Not rated		Not rated	
Pa: Parshall-----	85	Not limited		Very limited Deep to water	1.00
Pe: Parshall-----	60	Not limited		Very limited Deep to water	1.00
Ekalaka-----	30	Very limited Restricted permeability Sodium content Salinity	1.00 0.82 0.01	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
PsA: Promise-----	70	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
Slickspots, Dry-----	25	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
Pw: Promise-----	65	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
Wendte-----	25	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
RaA: Reeder-----	85	Somewhat limited Depth to bedrock Droughty	0.42 0.10	Very limited Deep to water	1.00
RaB: Reeder-----	90	Somewhat limited Depth to bedrock Droughty	0.42 0.10	Very limited Deep to water	1.00
RaC: Reeder-----	90	Somewhat limited Depth to bedrock Droughty	0.42 0.10	Very limited Deep to water	1.00
RbC: Regent-----	85	Very limited Restricted permeability Depth to bedrock Droughty Salinity	1.00 0.42 0.01 0.01	Very limited Deep to water	1.00
RmB: Regent-----	55	Very limited Restricted permeability Depth to bedrock Droughty Salinity	1.00 0.42 0.01 0.01	Very limited Deep to water	1.00
Moreau-----	40	Very limited Restricted permeability Depth to bedrock Runoff limitation Droughty Salinity	1.00 0.42 0.40 0.37 0.35	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
RpA: Regent-----	50	Very limited Restricted permeability Depth to bedrock Droughty Salinity	1.00 0.42 0.01 0.01	Very limited Deep to water	1.00
Ridgeview-----	45	Very limited Restricted permeability Runoff limitation	1.00 0.40	Very limited Deep to water	1.00
RpB: Regent-----	50	Very limited Restricted permeability Depth to bedrock Droughty Salinity	1.00 0.42 0.01 0.01	Very limited Deep to water	1.00
Ridgeview-----	45	Very limited Restricted permeability Runoff limitation	1.00 0.40	Very limited Deep to water	1.00
RsA: Reliance-----	95	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
RsB: Reliance-----	95	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
RtB: Rhoades-----	45	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.78 0.40	Very limited Deep to water	1.00
Daglum-----	30	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.78 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
RvA: Ridgeview-----	85	Very limited Restricted permeability Runoff limitation	1.00 0.40	Very limited Deep to water	1.00
SaE: Sansarc-----	50	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
Dupree-----	30	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
SbC: Sansarc-----	45	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
Opal-----	40	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Slope	1.00 0.96 0.42 0.40 0.37	Very limited Deep to water	1.00
SbE: Sansarc-----	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

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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
Opal-----	30	Very limited Slope Restricted permeability Droughty Depth to bedrock Runoff limitation	1.00 1.00 0.96 0.42 0.40	Very limited Deep to water	1.00
ScF: 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
Rock Outcrop, Soft--	45	Not rated		Not rated	
SdC: Schamber-----	80	Very limited Filtering capacity Droughty Leaching limitation Slope	1.00 1.00 0.45 0.04	Very limited Deep to water	1.00
SfF: 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-----	25	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
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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
Sh: Rock Outcrop, Soft--	75	Not rated		Not rated	
Sansarc-----	15	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
Sm: Shambo-----	90	Not limited		Very limited Deep to water	1.00
Sw: Bullcreek-----	90	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
Sy: Bullcreek-----	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----	30	Not rated		Not rated	
Ta: Tally-----	90	Not limited		Very limited Deep to water	1.00
Th: Trembles-----	55	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
Havrelon-----	35	Somewhat limited Flooding	0.60	Very limited Deep to water	1.00
Tr: Banks-----	40	Very limited Filtering capacity Flooding Leaching limitation Droughty	1.00 0.60 0.45 0.29	Very limited Deep to water	1.00
Trembles-----	40	Not limited		Very limited Deep to water	1.00
VeB: Vebar-----	85	Somewhat limited Depth to bedrock Droughty	0.42 0.25	Very limited Deep to water	1.00
VfB: Vebar-----	55	Somewhat limited Depth to bedrock Droughty	0.42 0.25	Very limited Deep to water	1.00
Flasher-----	40	Not Rated Not Rated Depth to bedrock Droughty Filtering capacity Low adsorption	1.00 1.00 1.00 0.03	Very limited Deep to water	1.00
w: Water (less Than 40 Acres)-----	100	Not rated		Not rated	
WaF: Wayden-----	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

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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
Moreau-----	20	Very limited Slope Restricted permeability Depth to bedrock Droughty Runoff limitation	1.00 1.00 0.42 0.42 0.40	Very limited Deep to water	1.00

