

WATER MANAGEMENT
Stevens County, Kansas

The soils of the survey area are rated in the Water Management table according to limitations that affect their suitability for water management. Soils are rated for pond reservoir areas, drainage, irrigation, terraces and diversions, and grassed waterways. Restrictive features that affect each soil for the specified use is also provided in the table.

The ratings in the table are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the specified use. Not limited indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. Slightly limited indicates that the soil has features that are favorable for the specified use. The limitations are minor and can be easily overcome. Good performance and low maintenance can be expected. Moderately limited indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. Limited indicates that the soil has one or more features that are significant limitations for the specified use. The limitations can be overcome, but generally require special design, soil reclamation, or installation procedures that may result in additional expense. Fair performance and moderate to high maintenance can be expected. Very limited indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Limitation class terms, such as very limited or limited, etc., limitation ratings, and numerical ratings are shown for each soil feature listed. As many as three soil features may be listed for each soil component if applicable. The overall limitation rating for the soil component is based on the most severe limitation.

Pond reservoir areas hold water behind a dam or embankment. Soils best suited to this use have low seepage potential in the upper 60 inches. The seepage potential is determined by the permeability of the soil and the depth to fractured bedrock or other permeable material. Excessive slope can affect the storage capacity of the reservoir area.

Embankments, dikes, and levees are raised structures of soil material, generally less than 20 feet high, constructed to impound water or to protect land against overflow. In this table, the soils are rated as a source of material for embankment fill. The ratings apply to the soil material below the surface layer to a depth of about 5 feet. It is assumed that soil layers will be uniformly mixed and compacted during construction.

The ratings do not indicate the ability of the natural soil to support an embankment. Soil properties to a depth even greater than the height of the embankment can affect performance and safety of the embankment. Generally, deeper onsite investigation is needed to determine these properties.

Soil material in embankments must be resistant to seepage, piping, and erosion and have favorable compaction characteristics. Unfavorable features include less than 5 feet of suitable material and a high content of stones or boulders, organic matter, or salts or sodium. A high water table affects the amount of usable material. It also affects traffic ability.

Aquifer-fed excavated ponds are pits or dugouts that extend to a ground-water aquifer or to a depth below a permanent water table. Excluded are ponds that are fed only by surface runoff and embankment ponds that impound water 3 feet or more above the original surface. Excavated ponds are affected by depth to a permanent water table, permeability of the aquifer, and quality of the water as inferred from the salinity of the soil. Depth to bedrock and the content of large stones affect the ease of excavation.

Drainage is the removal of excess surface and subsurface water from the soil. How easily and effectively the soil is drained depends on the depth to bedrock, to a cemented pan, or to other layers that affect the rate of water movement; permeability; depth to a high water table or depth of standing water if the soil is subject to ponding; slope; susceptibility to flooding; subsidence of organic layers; and the potential for frost action. Excavating and grading and the stability of ditch banks are affected by depth to bedrock or to a cemented pan, large stones, slope, and the hazard of cutbanks caving. The productivity of the soil after drainage is adversely affected by extreme acidity or by toxic substances in the root zone, such as salts, sodium, and sulfur. Availability of drainage outlets is not considered in the ratings.

Irrigation is the controlled application of water to supplement rainfall and support plant growth. The design and management of an irrigation system are affected by depth to the water table, the need for drainage, flooding, available water capacity, intake rate, permeability, erosion hazard, and slope. The construction of a system is affected by large stones and depth to bedrock or to a cemented pan. The performance of a system is affected by the depth of the root zone, the amount of salts or sodium, and soil reaction.

Terraces and diversions are embankments or a combination of channels and ridges constructed across a slope to control erosion and conserve moisture by intercepting runoff. Slope, wetness, large stones, and depth to bedrock or to a cemented pan affect the construction of terraces and diversions. A restricted rooting depth, a very limited hazard of wind erosion or water erosion, an excessively coarse texture, and restricted permeability adversely affect maintenance.

Grassed waterways are natural or constructed channels, generally broad and shallow, which conduct surface water to outlets at a non-erosive velocity. Large stones, wetness, slope, and depth to bedrock or to a cemented pan affect the construction of grassed waterways. A hazard of wind erosion, low available water capacity, restricted rooting depth, toxic substances such as salts and sodium, and restricted permeability adversely affect the growth and maintenance of the grass after construction.

WATER MANAGEMENT--Continued
Stevens County, Kansas

(The information in this report indicates the dominant soil condition but does not eliminate the need for onsite investigation)

Map symbol and soil name	Features affecting--			
	Drainage	Irrigation	Terraces and diversions	Grassed waterways
067LO: Pleasant-----	Limitation: percs slowly	Limitation: percs slowly wetness	Limitation: erodes easily wetness	Limitation: erodes easily wetness too arid
067OF: Otero-----	Limitation: deep to water	Limitation: slope soil blowing	Limitation: slope soil blowing	Limitation: slope too arid
067OG: Otero-----	Limitation: deep to water	Limitation: slope soil blowing	Limitation: slope soil blowing	Limitation: slope too arid
Schamber-----	Limitation: deep to water	Limitation: slope droughty	Limitation: slope too sandy	Limitation: slope too arid droughty
067SA: Satanta-----	Limitation: deep to water	Limitation: soil blowing	Limitation: soil blowing	Limitation: too arid
067SB: Satanta-----	Limitation: deep to water	Limitation: soil blowing	Limitation: soil blowing	Limitation: too arid
067TF: Valent-----	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: slope too sandy soil blowing	Limitation: slope too arid droughty
067TV: Valent-----	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: slope too sandy soil blowing	Limitation: slope too arid droughty
Vona-----	Limitation: deep to water	Limitation: fast intake slope soil blowing	Limitation: soil blowing	Limitation: too arid
067UE: Ulysses-----	Limitation: deep to water	Favorable	Limitation: erodes easily	Limitation: erodes easily too arid
Colby-----	Limitation: deep to water	Limitation: erodes easily	Limitation: erodes easily	Limitation: erodes easily too arid
067VO: Vona-----	Limitation: deep to water	Limitation: fast intake soil blowing	Limitation: soil blowing	Limitation: too arid
081OG: Otero-----	Limitation: deep to water	Limitation: slope soil blowing	Limitation: slope soil blowing	Limitation: slope too arid
Schamber-----	Limitation: deep to water	Limitation: slope droughty	Limitation: slope too sandy	Limitation: slope too arid droughty
1044: Atchison-----	Limitation: deep to water	Limitation: slope	Limitation: erodes easily	Limitation: erodes easily too arid
1046: Atchison-----	Limitation: deep to water	Favorable	Limitation: erodes easily	Limitation: erodes easily too arid
1182: Belfon-----	Limitation: deep to water	Favorable	Limitation: erodes easily	Limitation: erodes easily too arid
1184: Bigbow-----	Limitation: deep to water	Favorable	Limitation: erodes easily	Limitation: erodes easily too arid
1185: Bigbow-----	Limitation: deep to water	Favorable	Limitation: erodes easily	Limitation: erodes easily too arid
1504: Dalhart-----	Limitation: deep to water	Limitation: soil blowing	Limitation: soil blowing	Favorable
1505: Dalhart-----	Limitation: deep to water	Limitation: soil blowing	Limitation: soil blowing	Favorable
1506: Dalhart-----	Limitation: deep to water	Limitation: soil blowing	Limitation: soil blowing	Favorable

WATER MANAGEMENT--Continued
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Map symbol and soil name	Features affecting--			
	Drainage	Irrigation	Terraces and diversions	Grassed waterways
1558: Dalhart-----	Limitation: deep to water	Limitation: soil blowing	Limitation: soil blowing	Favorable
1559: Dalhart-----	Limitation: deep to water	Limitation: soil blowing	Limitation: soil blowing	Favorable
Eva-----	Limitation: deep to water	Limitation: fast intake soil blowing	Limitation: soil blowing	Limitation: too arid
1670: Eva-----	Limitation: deep to water	Limitation: fast intake soil blowing	Limitation: soil blowing	Limitation: too arid
1671: Eva-----	Limitation: deep to water	Limitation: fast intake soil blowing	Limitation: soil blowing	Limitation: too arid
Optima-----	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: too sandy soil blowing	Limitation: too arid droughty
1672: Eva-----	Limitation: deep to water	Limitation: fast intake soil blowing	Limitation: soil blowing	Limitation: too arid
1723: Feterita-----	Limitation: percs slowly ponding	Limitation: percs slowly ponding	Limitation: erodes easily percs slowly ponding	Limitation: erodes easily percs slowly wetness
1979: Haverson-----	Limitation: deep to water	Limitation: flooding soil blowing	Limitation: too sandy	Limitation: excess salt too arid
1980: Happyditch-----	Limitation: deep to water	Limitation: fast intake soil blowing droughty	Limitation: too sandy soil blowing	Limitation: rooting depth too arid droughty
1981: Happyditch-----	Limitation: deep to water	Limitation: fast intake soil blowing droughty	Limitation: too sandy soil blowing	Limitation: rooting depth too arid droughty
1984: Happyditch-----	Limitation: deep to water	Limitation: fast intake soil blowing droughty	Limitation: too sandy soil blowing	Limitation: rooting depth too arid droughty
3047: Optima-----	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: too sandy soil blowing	Limitation: too arid droughty
3048: Optima-----	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: too sandy soil blowing	Limitation: too arid droughty
3415: Satanta-----	Limitation: deep to water	Favorable	Favorable	Favorable
3506: Shore-----	Limitation: deep to water	Favorable	Limitation: erodes easily	Limitation: erodes easily too arid
3725: Ulysses-----	Limitation: deep to water	Favorable	Limitation: erodes easily	Limitation: erodes easily
3969: Wagonbed-----	Limitation: deep to water	Favorable	Limitation: erodes easily	Limitation: erodes easily
Bo: Valent-----	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: slope too sandy soil blowing	Limitation: slope too arid droughty
CIR: Cimarron River--	Limitation: flooding cutbanks cave	Limitation: fast intake wetness droughty	Limitation: too sandy wetness	Limitation: wetness droughty

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Map symbol and soil name	Features affecting--			
	Drainage	Irrigation	Terraces and diversions	Grassed waterways
Cm: Colby-----	Limitation: deep to water	Limitation: erodes easily slope	Limitation: erodes easily slope	Limitation: erodes easily slope too arid
Da: Dalhart-----	Limitation: deep to water	Limitation: soil blowing	Limitation: soil blowing	Limitation: too arid
Db: Dalhart-----	Limitation: deep to water	Limitation: soil blowing	Limitation: soil blowing	Limitation: too arid
Df: Dalhart-----	Limitation: deep to water	Limitation: fast intake soil blowing	Limitation: soil blowing	Limitation: too arid
Dx: Dalhart-----	Limitation: deep to water	Limitation: soil blowing	Limitation: soil blowing	Limitation: too arid
Otero-----	Limitation: deep to water	Limitation: soil blowing	Limitation: soil blowing	Limitation: too arid
Go: Goshen-----	Limitation: deep to water	Favorable	Limitation: erodes easily	Limitation: erodes easily
Lf: Lincoln-----	Limitation: deep to water	Limitation: fast intake soil blowing droughty	Limitation: too sandy soil blowing	Limitation: droughty
Lo: Pleasant-----	Limitation: percs slowly	Limitation: percs slowly wetness	Limitation: erodes easily wetness	Limitation: erodes easily wetness too arid
Lp: Pleasant-----	Limitation: percs slowly	Limitation: percs slowly wetness	Limitation: erodes easily wetness	Limitation: erodes easily wetness too arid
Ma: Penden-----	Limitation: deep to water	Favorable	Favorable	Favorable
Mb: Penden-----	Limitation: deep to water	Favorable	Favorable	Favorable
Mx: Penden-----	Limitation: deep to water	Limitation: slope	Favorable	Favorable
Otero-----	Limitation: deep to water	Limitation: slope soil blowing	Limitation: soil blowing	Limitation: too arid
My: Manter-----	Limitation: deep to water	Limitation: soil blowing	Limitation: too sandy soil blowing	Limitation: too arid
Ot: Otero-----	Limitation: deep to water	Limitation: slope soil blowing	Limitation: slope soil blowing	Limitation: slope too arid
Ra: Satanta-----	Limitation: deep to water	Favorable	Favorable	Limitation: too arid
Rb: Haxtun-----	Limitation: deep to water	Limitation: fast intake soil blowing	Limitation: soil blowing	Favorable
Rm: Richfield-----	Limitation: deep to water	Favorable	Limitation: erodes easily	Limitation: erodes easily too arid
Rx: Richfield-----	Limitation: deep to water	Favorable	Limitation: erodes easily	Limitation: erodes easily too arid
Ulysses-----	Limitation: deep to water	Favorable	Limitation: erodes easily	Limitation: erodes easily too arid
Tf: Valent-----	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: slope too sandy soil blowing	Limitation: slope too arid droughty
Ua: Ulysses-----	Limitation: deep to water	Favorable	Limitation: erodes easily	Limitation: erodes easily too arid

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Map symbol and soil name	Features affecting--			
	Drainage	Irrigation	Terraces and diversions	Grassed waterways
Ub: Ulysses-----	Limitation: deep to water	Favorable	Limitation: erodes easily	Limitation: erodes easily too arid
Ue: Ulysses-----	Limitation: deep to water	Favorable	Limitation: erodes easily	Limitation: erodes easily too arid
Colby-----	Limitation: deep to water	Limitation: erodes easily	Limitation: erodes easily	Limitation: erodes easily too arid
Vo: Vona-----	Limitation: deep to water	Limitation: fast intake slope soil blowing	Limitation: soil blowing	Limitation: too arid
Vx: Vona-----	Limitation: deep to water	Limitation: fast intake slope soil blowing	Limitation: soil blowing	Limitation: too arid
Valent-----	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: slope too sandy soil blowing	Limitation: slope too arid droughty
W: Water-----	---	---	---	---

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Map symbol and soil name	Pct of map unit	Pond Reservoir Area		Embankments, Dikes, and Levees		Excavated Ponds (Aquifer- fed)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
067LO: Pleasant-----	100	Somewhat limited Seepage	0.70	Very limited Ponding Depth to saturated zone	1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
067OF: Otero-----	100	Very limited Seepage	1.00	Somewhat limited Seepage	0.08	Very limited Deep to water	1.00
067OG: Otero-----	65	Very limited Seepage Slope	1.00 0.01	Somewhat limited Seepage	0.08	Very limited Deep to water	1.00
Schamber-----	35	Very limited Seepage Slope	1.00 0.01	Somewhat limited Seepage	0.49	Very limited Deep to water	1.00
067SA: Satanta-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.94	Very limited Deep to water	1.00
067SB: Satanta-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.94	Very limited Deep to water	1.00
067TF: Valent-----	100	Very limited Seepage Slope	1.00 0.01	Very limited Seepage	1.00	Very limited Deep to water	1.00
067TV: Valent-----	65	Very limited Seepage	1.00	Somewhat limited Seepage	1.00	Very limited Deep to water	1.00
Vona-----	35	Very limited Seepage	1.00	Somewhat limited Seepage	0.46	Very limited Deep to water	1.00
067UE: Ulysses-----	60	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Very limited Deep to water	1.00
Colby-----	40	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Very limited Deep to water	1.00
067VO: Vona-----	100	Very limited Seepage	1.00	Somewhat limited Seepage	0.89	Very limited Deep to water	1.00
081OG: Otero-----	75	Very limited Seepage	1.00	Somewhat limited Seepage	0.08	Very limited Deep to water	1.00
Schamber-----	25	Very limited Seepage Slope	1.00 0.01	Somewhat limited Seepage	0.98	Very limited Deep to water	1.00
1044: Atchison-----	90	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.91	Very limited Deep to water	1.00
1046: Atchison-----	85	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.91	Very limited Deep to water	1.00
1182: Belfon-----	70	Somewhat limited Seepage	0.70	Somewhat limited Seepage Piping	0.89 0.12	Very limited Deep to water	1.00
1184: Bigbow-----	70	Somewhat limited Seepage	0.70	Somewhat limited Piping Seepage	0.46 0.10	Very limited Deep to water	1.00
1185: Bigbow-----	60	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.46	Very limited Deep to water	1.00

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Map symbol and soil name	Pct of map unit	Pond Reservoir Area		Embankments, Dikes, and Levees		Excavated Ponds (Aquifer- fed)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
				Seepage	0.10		
1504: Dalhart-----	80	Very limited Seepage	1.00	Very limited Piping Seepage	1.00 0.08	Very limited Deep to water	1.00
1505: Dalhart-----	80	Very limited Seepage	1.00	Very limited Piping Seepage	1.00 0.08	Very limited Deep to water	1.00
1506: Dalhart-----	80	Very limited Seepage	1.00	Very limited Piping Seepage	1.00 0.08	Very limited Deep to water	1.00
1558: Dalhart-----	80	Very limited Seepage	1.00	Very limited Piping Seepage	1.00 0.08	Very limited Deep to water	1.00
1559: Dalhart-----	55	Very limited Seepage	1.00	Very limited Piping Seepage	1.00 0.08	Very limited Deep to water	1.00
Eva-----	40	Very limited Seepage	1.00	Somewhat limited Seepage	0.22	Very limited Deep to water	1.00
1670: Eva-----	85	Very limited Seepage	1.00	Somewhat limited Seepage	0.22	Very limited Deep to water	1.00
1671: Eva-----	50	Very limited Seepage	1.00	Very limited Seepage	1.00	Very limited Deep to water	1.00
Optima-----	40	Very limited Seepage Slope	1.00 0.01	Somewhat limited Seepage	1.00	Very limited Deep to water	1.00
1672: Eva-----	75	Very limited Seepage	1.00	Very limited Seepage	1.00	Very limited Deep to water	1.00
1723: Feterita-----	100	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Ponding Seepage	1.00 1.00 0.03	Very limited Deep to water	1.00
1979: Haverson-----	90	Somewhat limited Seepage	0.70	Very limited Piping Seepage	1.00 0.08	Very limited Deep to water	1.00
1980: Happyditch-----	95	Very limited Seepage	1.00	Very limited Seepage	1.00	Very limited Deep to water	1.00
1981: Happyditch-----	95	Very limited Seepage	1.00	Very limited Seepage	1.00	Very limited Cutbanks cave Deep to water	1.00 0.81
1984: Happyditch-----	95	Very limited Seepage	1.00	Very limited Seepage	1.00	Very limited Deep to water	1.00
3047: Optima-----	70	Very limited Seepage	1.00	Somewhat limited Seepage	1.00	Very limited Deep to water	1.00
3048: Optima-----	85	Very limited Seepage Slope	1.00 0.00	Somewhat limited Seepage	1.00	Very limited Deep to water	1.00

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Map symbol and soil name	Pct of map unit	Pond Reservoir Area		Embankments, Dikes, and Levees		Excavated Ponds (Aquifer- fed)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3415: Satanta-----	90	Somewhat limited Seepage	0.70	Somewhat limited Piping Seepage	0.82 0.07	Very limited Deep to water	1.00
3506: Shore-----	70	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Very limited Deep to water	1.00
3725: Ulysses-----	70	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.99	Very limited Deep to water	1.00
3969: Wagonbed-----	75	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
Bo: Valent-----	100	Very limited Seepage	1.00	Very limited Seepage	1.00	Very limited Deep to water	1.00
CIR: Cimarron River-----	100	Not rated		Not rated		Not rated	
Cm: Colby-----	100	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Very limited Deep to water	1.00
Da: Dalhart-----	100	Very limited Seepage	1.00	Somewhat limited Piping Seepage	0.81 0.08	Very limited Deep to water	1.00
Db: Dalhart-----	100	Very limited Seepage	1.00	Somewhat limited Piping Seepage	0.81 0.08	Very limited Deep to water	1.00
Df: Dalhart-----	100	Very limited Seepage	1.00	Somewhat limited Piping Seepage	0.88 0.08	Very limited Deep to water	1.00
Dx: Dalhart-----	65	Very limited Seepage	1.00	Somewhat limited Piping Seepage	0.81 0.08	Very limited Deep to water	1.00
Otero-----	35	Very limited Seepage	1.00	Somewhat limited Seepage	0.08	Very limited Deep to water	1.00
Go: Goshen-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.95	Very limited Deep to water	1.00
Lf: Lincoln-----	100	Very limited Seepage	1.00	Somewhat limited Seepage	0.89	Very limited Deep to water	1.00
Lo: Pleasant-----	100	Somewhat limited Seepage	0.70	Very limited Ponding Depth to saturated zone Piping	1.00 1.00 0.21	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
Lp: Pleasant-----	100	Somewhat limited Seepage	0.70	Very limited Ponding Depth to saturated zone Piping	1.00 1.00 0.21	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
Ma: Penden-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.08	Very limited Deep to water	1.00

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Map symbol and soil name	Pct of map unit	Pond Reservoir Area		Embankments, Dikes, and Levees		Excavated Ponds (Aquifer- fed)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Mb: Penden-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.08	Very limited Deep to water	1.00
Mx: Penden-----	70	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.08	Very limited Deep to water	1.00
Otero-----	30	Very limited Seepage	1.00	Somewhat limited Seepage	0.08	Very limited Deep to water	1.00
My: Manter-----	100	Very limited Seepage	1.00	Somewhat limited Seepage	0.39	Very limited Deep to water	1.00
Ot: Otero-----	100	Very limited Seepage	1.00	Somewhat limited Seepage	0.08	Very limited Deep to water	1.00
Ra: Satanta-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.95	Very limited Deep to water	1.00
Rb: Haxtun-----	100	Somewhat limited Seepage	0.70	Very limited Piping Seepage	1.00 0.65	Very limited Deep to water	1.00
Rm: Richfield-----	100	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
Rx: Richfield-----	75	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.27	Very limited Deep to water	1.00
Ulysses-----	25	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.99	Very limited Deep to water	1.00
Tf: Valent-----	100	Very limited Seepage Slope	1.00 0.08	Very limited Seepage	1.00	Very limited Deep to water	1.00
Ua: Ulysses-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.95	Very limited Deep to water	1.00
Ub: Ulysses-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.95	Very limited Deep to water	1.00
Ue: Ulysses-----	65	Somewhat limited Seepage	0.70	Somewhat limited Piping	1.00	Very limited Deep to water	1.00
Colby-----	35	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Very limited Deep to water	1.00
Vo: Vona-----	100	Very limited Seepage	1.00	Somewhat limited Seepage	0.89	Very limited Deep to water	1.00
Vx: Vona-----	60	Very limited Seepage	1.00	Somewhat limited Seepage	0.89	Very limited Deep to water	1.00
Valent-----	40	Very limited Seepage Slope	1.00 0.01	Somewhat limited Seepage	1.00	Very limited Deep to water	1.00
W: Water-----	100	Very limited Seepage Slope	1.00 0.50	Very limited Hard to pack	1.00	Very limited Deep to water	1.00

