

WATER MANAGEMENT  
Reno 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  
Reno County, Kansas

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Map symbol and soil name	Features affecting--			
	Drainage	Irrigation	Terraces and diversions	Grassed waterways
990: Abbyville-----	Limitation: excess sodium	Limitation: excess sodium excess salt wetness	Limitation: wetness	Limitation: excess sodium
991: Abbyville, rarely flooded-	Limitation: excess sodium	Limitation: excess sodium excess salt wetness	Limitation: wetness	Limitation: excess sodium
Kisiwa, occasionally flooded-----	Limitation: excess sodium percs slowly ponding	Limitation: excess sodium percs slowly ponding	Limitation: erodes easily percs slowly ponding	Limitation: erodes easily excess sodium wetness
1004: Albion-----	Limitation: deep to water	Limitation: soil blowing	Limitation: too sandy soil blowing	Favorable
1011: Albion-----	Limitation: deep to water	Limitation: soil blowing	Limitation: too sandy soil blowing	Favorable
Shellabarger----	Limitation: deep to water	Favorable	Limitation: soil blowing	Favorable
1057: Aquents-----	Limitation: flooding	Limitation: flooding wetness soil blowing	Limitation: wetness soil blowing	Limitation: wetness
1061: Arents, Earthen Dam-----	---	---	---	---
1062: Arents, Landfill	---	---	---	---
1070: Avans-----	Limitation: deep to water	Favorable	Limitation: erodes easily	Limitation: erodes easily
1071: Avans-----	Limitation: deep to water	Favorable	Limitation: erodes easily	Limitation: erodes easily
1072: Avans-----	Limitation: deep to water	Favorable	Limitation: erodes easily	Limitation: erodes easily
1191: Blazefork-----	Limitation: deep to water	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
1192: Blazefork-----	Limitation: deep to water	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
Kaskan-----	Limitation: deep to water	Favorable	Limitation: erodes easily too sandy	Limitation: erodes easily
1200: Buhler-----	Limitation: excess sodium percs slowly	Limitation: percs slowly wetness	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily excess sodium percs slowly
Blazefork-----	Limitation: deep to water	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
1324: Carway-----	Limitation: wetness percs slowly	Limitation: wetness soil blowing	Limitation: erodes easily wetness soil blowing	Limitation: erodes easily percs slowly wetness
Carbika-----	Limitation: percs slowly ponding	Limitation: percs slowly soil blowing ponding	Limitation: erodes easily soil blowing ponding	Limitation: erodes easily percs slowly wetness
1357: Carway-----	Limitation: percs slowly	Limitation: wetness soil blowing	Limitation: erodes easily wetness soil blowing	Limitation: erodes easily percs slowly wetness
Dillhut-----	Limitation: cutbanks cave	Limitation: wetness droughty	Limitation: too sandy wetness soil blowing	Limitation: droughty

WATER MANAGEMENT--Continued  
Reno County, Kansas

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Map symbol and soil name	Features affecting--			
	Drainage	Irrigation	Terraces and diversions	Grassed waterways
Solvay-----	Favorable	Limitation: wetness soil blowing	Limitation: wetness soil blowing	Favorable
1359: Clark-----	Limitation: deep to water	Favorable	Favorable	Favorable
Ost-----	Limitation: deep to water	Favorable	Favorable	Favorable
1428: Crete-----	Limitation: deep to water	Limitation: erodes easily percs slowly	Limitation: erodes easily	Limitation: erodes easily percs slowly
1429: Crete-----	Limitation: deep to water	Limitation: erodes easily percs slowly	Limitation: erodes easily	Limitation: erodes easily percs slowly
1553: Darlow-----	Limitation: deep to water	Limitation: excess sodium excess salt percs slowly	Limitation: percs slowly	Limitation: excess sodium percs slowly
Elmer-----	Limitation: deep to water	Limitation: excess sodium soil blowing	Limitation: erodes easily soil blowing	Limitation: erodes easily excess sodium
1554: Dillhut-----	Limitation: cutbanks cave	Limitation: wetness droughty	Limitation: too sandy wetness soil blowing	Limitation: droughty
1555: Dillhut-----	Favorable	Limitation: wetness droughty	Limitation: wetness soil blowing	Limitation: droughty
Plev-----	Limitation: cutbanks cave	Limitation: fast intake wetness droughty	Limitation: too sandy wetness soil blowing	Limitation: wetness droughty
1556: Dillhut-----	Favorable	Limitation: wetness droughty	Limitation: wetness soil blowing	Limitation: droughty
Solvay-----	Favorable	Limitation: wetness soil blowing	Limitation: wetness soil blowing	Favorable
1725: Farnum-----	Limitation: deep to water	Favorable	Favorable	Favorable
Funmar-----	Limitation: deep to water	Limitation: percs slowly	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
1727: Funmar-----	Limitation: deep to water	Limitation: percs slowly	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
Taver-----	Limitation: deep to water	Limitation: percs slowly	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
1804: Geary-----	Limitation: deep to water	Favorable	Limitation: erodes easily	Limitation: erodes easily
1807: Geary, Moderately Eroded-----	Limitation:  deep to water	Limitation:  slope	Limitation:  erodes easily	Limitation:  erodes easily
1985: Hayes-----	Limitation: deep to water	Limitation: fast intake soil blowing	Limitation: soil blowing	Favorable
1986: Hayes-----	Limitation: deep to water	Limitation: fast intake soil blowing	Limitation: soil blowing	Favorable
Solvay-----	Favorable	Limitation: wetness soil blowing	Limitation: wetness soil blowing	Favorable
1987: Hayes-----	Limitation: deep to water	Limitation: fast intake soil blowing	Limitation: soil blowing	Favorable
Turon-----	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: too sandy soil blowing	Limitation: droughty

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Map symbol and soil name	Features affecting--			
	Drainage	Irrigation	Terraces and diversions	Grassed waterways
2204: Jamash-----	Limitation: deep to water	Limitation: percs slowly slope depth to rock	Limitation: erodes easily percs slowly depth to rock	Limitation: erodes easily rooting depth depth to rock
Piedmont-----	Limitation: deep to water	Limitation: percs slowly depth to rock	Limitation: erodes easily percs slowly depth to rock	Limitation: erodes easily rooting depth depth to rock
2205: Jamash-----	Limitation: deep to water	Limitation: percs slowly slope depth to rock	Limitation: erodes easily percs slowly depth to rock	Limitation: erodes easily rooting depth depth to rock
Piedmont-----	Limitation: deep to water	Limitation: percs slowly depth to rock	Limitation: erodes easily percs slowly depth to rock	Limitation: erodes easily rooting depth depth to rock
2206: Jamash-----	Limitation: deep to water	Limitation: percs slowly slope depth to rock	Limitation: erodes easily percs slowly depth to rock	Limitation: erodes easily rooting depth depth to rock
Piedmont-----	Limitation: deep to water	Limitation: percs slowly depth to rock	Limitation: erodes easily percs slowly depth to rock	Limitation: erodes easily rooting depth depth to rock
2207: Jamash-----	Limitation: deep to water	Limitation: percs slowly slope depth to rock	Limitation: erodes easily percs slowly depth to rock	Limitation: erodes easily rooting depth depth to rock
2381: Kanza-----	Limitation: flooding cutbanks cave	Limitation: wetness droughty	Limitation: too sandy wetness	Limitation: wetness droughty
Ninnescah-----	Limitation: flooding cutbanks cave	Limitation: flooding wetness soil blowing	Limitation: too sandy wetness soil blowing	Limitation: wetness
2390: Kaskan-----	Limitation: deep to water	Favorable	Limitation: erodes easily too sandy	Limitation: erodes easily
2391: Kaskan-----	Limitation: deep to water	Limitation: erodes easily flooding	Limitation: erodes easily	Limitation: erodes easily
2395: Kisiwa-----	Limitation: excess sodium percs slowly ponding	Limitation: excess sodium percs slowly ponding	Limitation: erodes easily percs slowly ponding	Limitation: erodes easily excess sodium wetness
2509: Ladysmith-----	Limitation: percs slowly	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly
2556: Langdon-----	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: too sandy soil blowing	Limitation: droughty
2587: Imano-----	Limitation: flooding cutbanks cave	Limitation: flooding wetness	Limitation: too sandy wetness	Favorable
2588: Longford, Moderately Eroded-----	Limitation:  deep to water	Limitation:  percs slowly slope	Limitation:  erodes easily percs slowly	Limitation:  erodes easily percs slowly
2812: Mahone-----	Limitation: deep to water	Limitation: fast intake soil blowing	Limitation: soil blowing	Favorable
2948: Nalim-----	Limitation: deep to water	Favorable	Favorable	Favorable
2949: Naron, Moderately Eroded-----	Limitation:  deep to water	Favorable	Limitation:  soil blowing	Favorable

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Map symbol and soil name	Features affecting--			
	Drainage	Irrigation	Terraces and diversions	Grassed waterways
2950: Naron, Moderately Eroded-----	Limitation: deep to water	Favorable	Limitation: soil blowing	Favorable
2951: Nash-----	Limitation: deep to water	Limitation: erodes easily depth to rock	Limitation: erodes easily depth to rock	Limitation: erodes easily depth to rock
2952: Nash-----	Limitation: deep to water	Limitation: erodes easily depth to rock	Limitation: erodes easily depth to rock	Limitation: erodes easily depth to rock
Lucien-----	Limitation: deep to water	Limitation: erodes easily slope depth to rock	Limitation: erodes easily depth to rock	Limitation: erodes easily depth to rock
2953: Nash, Moderately Eroded-----	Limitation: deep to water	Limitation: erodes easily depth to rock	Limitation: erodes easily depth to rock	Limitation: erodes easily depth to rock
Lucien-----	Limitation: deep to water	Limitation: erodes easily slope depth to rock	Limitation: erodes easily depth to rock	Limitation: erodes easily depth to rock
2955: Nickerson-----	Limitation: cutbanks cave	Limitation: fast intake wetness soil blowing	Limitation: too sandy wetness soil blowing	Favorable
2956: Nickerson-----	Limitation: cutbanks cave	Limitation: fast intake wetness soil blowing	Limitation: too sandy wetness soil blowing	Favorable
2957: Nickerson-----	Limitation: cutbanks cave	Limitation: fast intake wetness soil blowing	Limitation: too sandy wetness soil blowing	Favorable
Punkin-----	Limitation: deep to water	Limitation: excess sodium percs slowly soil blowing	Limitation: percs slowly soil blowing	Limitation: excess sodium percs slowly
2958: Ninnescah-----	Limitation: flooding cutbanks cave	Limitation: flooding wetness soil blowing	Limitation: too sandy wetness soil blowing	Limitation: wetness
2959: Ninnescah, saline-----	Limitation: flooding cutbanks cave	Limitation: flooding wetness soil blowing	Limitation: too sandy wetness soil blowing	Limitation: excess salt wetness
3051: Ost-----	Limitation: deep to water	Favorable	Favorable	Favorable
3052: Ost-----	Limitation: deep to water	Favorable	Favorable	Favorable
Clark-----	Limitation: deep to water	Favorable	Favorable	Favorable
3170: Penalosa-----	Limitation: deep to water	Limitation: percs slowly	Limitation: erodes easily	Limitation: erodes easily percs slowly
3171: Penalosa-----	Limitation: deep to water	Limitation: percs slowly	Limitation: erodes easily	Limitation: erodes easily percs slowly
3180: Pratt-----	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: too sandy soil blowing	Limitation: droughty
3181: Pratt-----	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: too sandy soil blowing	Limitation: droughty
Turon-----	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: too sandy soil blowing	Limitation: droughty

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Map symbol and soil name	Features affecting--			
	Drainage	Irrigation	Terraces and diversions	Grassed waterways
3190: Punkin-----	Limitation: deep to water	Limitation: excess sodium percs slowly	Favorable	Limitation: excess sodium percs slowly
3191: Punkin-----	Limitation: deep to water	Limitation: excess sodium percs slowly	Favorable	Limitation: excess sodium percs slowly
Taver-----	Limitation: deep to water	Limitation: percs slowly	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
3403: Sand Pit-----	---	---	---	---
3469: Smolan-----	Limitation: deep to water	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
3510: Saltcreek-----	Limitation: deep to water	Limitation: soil blowing	Limitation: erodes easily percs slowly soil blowing	Limitation: erodes easily percs slowly
Funmar-----	Limitation: deep to water	Limitation: percs slowly	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
Farnum-----	Limitation: deep to water	Favorable	Favorable	Favorable
3511: Saltcreek-----	Limitation: deep to water	Limitation: soil blowing	Limitation: erodes easily percs slowly soil blowing	Limitation: erodes easily percs slowly
Naron, sandy substratum-----	Limitation: deep to water	Limitation: soil blowing	Limitation: soil blowing	Favorable
3512: Saltcreek-----	Limitation: deep to water	Limitation: soil blowing	Limitation: erodes easily percs slowly soil blowing	Limitation: erodes easily percs slowly
Naron-----	Limitation: deep to water	Favorable	Limitation: soil blowing	Favorable
3520: Saxman-----	Limitation: cutbanks cave	Limitation: fast intake wetness droughty	Limitation: too sandy wetness soil blowing	Limitation: droughty
3530: Shellabarger, Eroded-----	Limitation: deep to water	Favorable	Limitation: soil blowing	Favorable
Albion-----	Limitation: deep to water	Limitation: soil blowing	Limitation: too sandy soil blowing	Favorable
3531: Shellabarger, Moderately Eroded-----	Limitation: deep to water	Favorable	Limitation: soil blowing	Favorable
Nalim-----	Limitation: deep to water	Favorable	Favorable	Favorable
3532: Shellabarger----	Limitation: deep to water	Favorable	Limitation: soil blowing	Favorable
3533: Shellabarger----	Limitation: deep to water	Favorable	Limitation: soil blowing	Favorable
3534: Shellabarger----	Limitation: deep to water	Favorable	Limitation: soil blowing	Favorable
3535: Shellabarger----	Limitation: deep to water	Favorable	Limitation: soil blowing	Favorable
Nalim-----	Limitation: deep to water	Favorable	Favorable	Favorable
3540: Solvay-----	Favorable	Limitation: wetness soil blowing	Limitation: wetness soil blowing	Favorable
3550: Spelvin-----	Limitation: deep to water	Limitation: fast intake 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
3639: Taver-----	Limitation: deep to water	Limitation: percs slowly	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
3640: Tivin-----	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: slope too sandy soil blowing	Limitation: slope droughty
3641: Tivin-----	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: slope too sandy soil blowing	Limitation: slope droughty
Dillhut-----	Favorable	Limitation: wetness droughty	Limitation: wetness soil blowing	Limitation: droughty
3642: Tivin-----	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: too sandy soil blowing	Limitation: droughty
Willowbrook, occasionally flooded-----	Limitation:  flooding cutbanks cave	Limitation:  flooding wetness soil blowing	Limitation:  too sandy wetness soil blowing	Favorable
3643: Tobin-----	Limitation: deep to water	Limitation: flooding	Limitation: erodes easily	Limitation: erodes easily
3644: Turon-----	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: too sandy soil blowing	Limitation: droughty
Carway-----	Limitation: percs slowly	Limitation: wetness soil blowing	Limitation: erodes easily wetness soil blowing	Limitation: erodes easily percs slowly wetness
3760: Urban Land, Protected----- Blazefork, Protected-----	--- Limitation:  deep to water	--- Limitation:  erodes easily percs slowly	--- Limitation:  erodes easily percs slowly	--- Limitation:  erodes easily percs slowly
Kaskan, Protected-----	Limitation:  deep to water	Favorable	Limitation:  erodes easily too sandy	Limitation:  erodes easily
3762: Urban Land----- Darlow-----	--- Limitation: deep to water	--- Limitation: excess sodium excess salt percs slowly	--- Limitation: percs slowly	--- Limitation: excess sodium percs slowly
Elmer-----	Limitation: deep to water	Limitation: excess sodium soil blowing	Limitation: erodes easily soil blowing	Limitation: erodes easily excess sodium
3763: Urban Land, Protected----- Imano, Protected	--- Limitation: cutbanks cave	--- Limitation: wetness	--- Limitation: too sandy wetness	--- Favorable
3764: Urban Land, Protected----- Mahone, Protected-----	--- Limitation:  deep to water	--- Limitation:  fast intake soil blowing	--- Limitation:  soil blowing	--- Favorable
3765: Urban Land----- Saltcreek-----	--- Limitation: deep to water	--- Limitation: soil blowing	--- Limitation: erodes easily percs slowly soil blowing	--- Limitation: erodes easily percs slowly
Naron-----	Limitation: deep to water	Limitation: soil blowing	Limitation: soil blowing	Favorable
3766: Urban Land, Protected-----	---	---	---	---

WATER MANAGEMENT--Continued  
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Map symbol and soil name	Features affecting--			
	Drainage	Irrigation	Terraces and diversions	Grassed waterways
Saxman, Protected-----	Limitation: cutbanks cave	Limitation: fast intake wetness droughty	Limitation: too sandy wetness soil blowing	Limitation: droughty
3767: Urban Land, Protected----- Willowbrook, Protected-----	--- Limitation: flooding cutbanks cave	--- Limitation: flooding wetness soil blowing	--- Limitation: too sandy wetness soil blowing	--- Favorable
3768: Urban Land, Protected----- Yaggy, Protected	--- Limitation: flooding cutbanks cave	--- Limitation: wetness soil blowing droughty	--- Limitation: too sandy wetness soil blowing	--- Limitation: droughty
3900: Warnut-----	Limitation: ponding cutbanks cave	Limitation: soil blowing ponding	Limitation: too sandy soil blowing ponding	Limitation: wetness
3926: Water----- 3966: Willowbrook-----	--- Limitation: flooding cutbanks cave	--- Limitation: flooding wetness soil blowing	--- Limitation: too sandy wetness soil blowing	--- Favorable
4004: Yaggy-----	Limitation: wetness cutbanks cave	Limitation: wetness soil blowing droughty	Limitation: too sandy wetness soil blowing	Limitation: droughty
4005: Yaggy-----	Limitation: flooding cutbanks cave	Limitation: wetness soil blowing droughty	Limitation: too sandy wetness soil blowing	Limitation: droughty
Saxman-----	Limitation: cutbanks cave	Limitation: fast intake wetness droughty	Limitation: too sandy wetness soil blowing	Limitation: droughty
4110: Zellmont-----	Limitation: deep to water	Limitation: soil blowing	Limitation: too sandy soil blowing	Favorable
Poxmash-----	Limitation: deep to water	Limitation: soil blowing	Limitation: too sandy soil blowing	Favorable



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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
990: Abbyville-----	95	Not limited		Very limited Piping Depth to saturated zone Seepage	1.00 0.43 0.04	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.25 0.10 0.01
991: Abbyville, rarely flooded-----	45	Not limited		Very limited  Piping Depth to saturated zone Seepage	 1.00 0.43 0.04	Very limited  Slow refill Deep to water Cutbanks cave Salty water	 1.00 0.25 0.10 0.01
Kisiwa, occasionally flooded-----	40	Very limited  Seepage	  1.00	Very limited  Ponding Depth to saturated zone Seepage Piping	  1.00 1.00 1.00 1.00	Very limited  Deep to water	  1.00
1004: Albion-----	90	Very limited Seepage	1.00	Somewhat limited Seepage	0.99	Very limited Deep to water	1.00
1011: Albion-----	70	Very limited Seepage	1.00	Somewhat limited Seepage	0.90	Very limited Deep to water	1.00
Shellabarger-----	30	Somewhat limited Seepage	0.70	Somewhat limited Seepage	0.88	Very limited Deep to water	1.00
1057: Aguents-----	100	Very limited Seepage	1.00	Very limited Ponding Depth to saturated zone Seepage	1.00 1.00 1.00	Very limited Cutbanks cave	1.00
1061: Arents, Earthen Dam-	100	Not rated		Not rated		Not rated	
1062: Arents, Landfill----	100	Very limited Seepage Slope	1.00 0.50	Very limited Hard to pack	1.00	Very limited Deep to water	1.00
1070: Avans-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.74	Very limited Deep to water	1.00
1071: Avans-----	85	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.74	Very limited Deep to water	1.00
1072: Avans-----	85	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.74	Very limited Deep to water	1.00
1191: Blazefork-----	90	Somewhat limited Seepage	0.05	Not limited		Somewhat limited Slow refill Deep to water Cutbanks cave	0.95 0.81 0.10
1192: Blazefork-----	60	Somewhat limited Seepage	0.05	Not limited		Somewhat limited Slow refill Deep to water Cutbanks cave	0.95 0.81 0.10
Kaskan-----	40	Very limited Seepage	1.00	Very 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
1200: Buhler-----	65	Somewhat limited Seepage	0.70	Very limited Piping Seepage	1.00 0.09	Very limited Deep to water	1.00
Blazefork-----	30	Somewhat limited Seepage	0.05	Not limited		Somewhat limited Slow refill Deep to water Cutbanks cave	0.95 0.81 0.10
1324: Carway-----	50	Somewhat limited Seepage	0.70	Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Deep to water	1.00
Carbika-----	30	Somewhat limited Seepage	0.70	Very limited Ponding Depth to saturated zone Piping	1.00 1.00 0.40	Very limited Deep to water	1.00
1357: Carway-----	40	Somewhat limited Seepage	0.70	Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Deep to water	1.00
Dillhut-----	30	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage Piping	1.00 1.00 0.53	Very limited Deep to water	1.00
Solvay-----	30	Very limited Seepage	1.00	Somewhat limited Seepage Depth to saturated zone	0.56 0.43	Very limited Cutbanks cave Deep to water	1.00 0.25
1359: Clark-----	70	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.52	Very limited Deep to water	1.00
Ost-----	30	Somewhat limited Seepage	0.05	Somewhat limited Piping	0.82	Very limited Deep to water	1.00
1428: Crete-----	100	Somewhat limited Seepage	0.57	Not limited		Very limited Deep to water	1.00
1429: Crete-----	100	Somewhat limited Seepage	0.57	Not limited		Very limited Deep to water	1.00
1553: Darlow-----	70	Somewhat limited Seepage	0.70	Very limited Piping Salinity Seepage	1.00 0.12 0.12	Very limited Deep to water	1.00
Elmer-----	20	Very limited Seepage	1.00	Very limited Piping Seepage	1.00 0.10	Very limited Deep to water	1.00
1554: Dillhut-----	70	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage Piping	1.00 1.00 0.53	Very limited Deep to water	1.00
1555: Dillhut-----	35	Very limited Seepage	1.00	Somewhat limited Seepage	0.13	Very limited Deep to water	1.00
Plev-----	35	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage	1.00 1.00	Very limited Deep to water	1.00

WATER MANAGEMENT--Continued  
Reno County, Kansas

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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
1556: Dillhut-----	30	Very limited Seepage	1.00	Somewhat limited Seepage	0.13	Very limited Deep to water	1.00
Solvay-----	30	Very limited Seepage	1.00	Somewhat limited Seepage Depth to saturated zone	0.56 0.43	Very limited Cutbanks cave Deep to water	1.00 0.25
1725: Farnum-----	40	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.01	Very limited Deep to water	1.00
Funmar-----	40	Somewhat limited Seepage	0.05	Not limited		Very limited Deep to water	1.00
1727: Funmar-----	55	Somewhat limited Seepage	0.05	Not limited		Very limited Deep to water	1.00
Taver-----	45	Somewhat limited Seepage	0.70	Somewhat limited Seepage	0.00	Very limited Deep to water	1.00
1804: Geary-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.11	Very limited Deep to water	1.00
1807: Geary, Moderately Eroded-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.53	Very limited Deep to water	1.00
1985: Hayes-----	60	Very limited Seepage	1.00	Somewhat limited Piping	0.42	Very limited Deep to water	1.00
1986: Hayes-----	55	Very limited Seepage	1.00	Somewhat limited Piping	0.42	Very limited Deep to water	1.00
Solvay-----	20	Very limited Seepage	1.00	Somewhat limited Seepage Depth to saturated zone	0.44 0.43	Very limited Cutbanks cave Deep to water	1.00 0.25
1987: Hayes-----	40	Very limited Seepage	1.00	Somewhat limited Piping	0.42	Very limited Deep to water	1.00
Turon-----	35	Very limited Seepage	1.00	Somewhat limited Piping Seepage	0.87 0.77	Very limited Deep to water	1.00
2204: Jamash-----	50	Somewhat limited Depth to bedrock	0.66	Very limited Thin layer	1.00	Very limited Deep to water	1.00
Piedmont-----	50	Somewhat limited Depth to bedrock Seepage	0.08 0.05	Somewhat limited Thin layer	0.81	Very limited Deep to water	1.00
2205: Jamash-----	60	Somewhat limited Depth to bedrock	0.66	Very limited Thin layer	1.00	Very limited Deep to water	1.00
Piedmont-----	40	Somewhat limited Depth to bedrock Seepage	0.08 0.05	Somewhat limited Thin layer	0.81	Very limited Deep to water	1.00
2206: Jamash-----	60	Somewhat limited Depth to bedrock	0.66	Very limited Thin layer	1.00	Very limited Deep to water	1.00
Piedmont-----	40	Somewhat limited Depth to bedrock Seepage	0.08 0.05	Somewhat limited Thin layer	0.81	Very limited Deep to water	1.00
2207: Jamash-----	80	Somewhat limited		Very limited		Very limited	

WATER MANAGEMENT--Continued  
Reno County, Kansas

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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
		Depth to bedrock	0.66	Thin layer	1.00	Deep to water	1.00
2381: Kanza-----	50	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage	1.00 0.90	Very limited Cutbanks cave	1.00
Ninnescah-----	50	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage	1.00 0.12	Very limited Cutbanks cave Deep to water	1.00 0.00
2390: Kaskan-----	85	Very limited Seepage	1.00	Very limited Seepage	1.00	Very limited Deep to water	1.00
2391: Kaskan-----	75	Very limited Seepage	1.00	Somewhat limited Seepage	0.43	Very limited Deep to water	1.00
2395: Kisiwa-----	90	Very limited Seepage	1.00	Very limited Ponding Depth to saturated zone Seepage Piping	1.00 1.00 1.00 1.00	Very limited Deep to water	1.00
2509: Ladysmith-----	100	Somewhat limited Seepage	0.01	Somewhat limited Hard to pack Depth to saturated zone	0.94 0.86	Very limited Deep to water	1.00
2556: Langdon-----	50	Very limited Seepage	1.00	Somewhat limited Seepage	0.50	Very limited Deep to water	1.00
2587: Imano-----	85	Very limited Seepage	1.00	Very limited Seepage Depth to saturated zone	1.00 0.43	Very limited Cutbanks cave Deep to water	1.00 0.25
2588: Longford, Moderately Eroded-----	90	Somewhat limited Seepage	0.05	Somewhat limited Hard to pack	0.59	Very limited Deep to water	1.00
2812: Mahone-----	95	Very limited Seepage	1.00	Very limited Piping Seepage	1.00 0.93	Very limited Deep to water	1.00
2948: Nalim-----	80	Very limited Seepage	1.00	Somewhat limited Seepage	0.98	Very limited Deep to water	1.00
2949: Naron, Moderately Eroded-----	85	Very limited Seepage	1.00	Somewhat limited Seepage	0.10	Very limited Deep to water	1.00
2950: Naron, Moderately Eroded-----	85	Very limited Seepage	1.00	Somewhat limited Seepage	0.10	Very limited Deep to water	1.00
2951: Nash-----	90	Somewhat limited Seepage Depth to bedrock	0.70 0.17	Very limited Piping Thin layer	1.00 0.91	Very limited Deep to water	1.00
2952: Nash-----	60	Somewhat limited Seepage Depth to bedrock	0.70 0.17	Very limited Piping Thin layer	1.00 0.91	Very limited Deep to water	1.00
Lucien-----	30	Very limited		Very limited		Very limited	

WATER MANAGEMENT--Continued  
Reno County, Kansas

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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
2953: Nash, Moderately Eroded-----	70	Seepage Depth to bedrock	1.00 0.74	Thin layer Seepage	1.00 0.02	Deep to water	1.00
		Somewhat limited		Very limited		Very limited	
Lucien-----	20	Seepage Depth to bedrock Slope	0.70 0.17 0.00	Piping Thin layer	1.00 0.91	Deep to water	1.00
		Very limited		Very limited		Very limited	
2955: Nickerson-----	100	Seepage Depth to bedrock Slope	1.00 0.74 0.00	Thin layer Seepage	1.00 0.02	Deep to water	1.00
		Very limited		Somewhat limited		Very limited	
2956: Nickerson-----	85	Seepage	1.00	Seepage Depth to saturated zone	0.76 0.43	Cutbanks cave Deep to water	1.00 0.25
		Very limited		Very limited		Very limited	
2957: Nickerson-----	50	Seepage	1.00	Piping Seepage Depth to saturated zone	1.00 0.76 0.43	Cutbanks cave Deep to water	1.00 0.25
		Very limited		Very limited		Very limited	
Punkin-----	50	Seepage	1.00	Seepage Piping	1.00 1.00	Deep to water	1.00
		Very limited		Very limited		Very limited	
2958: Ninnescah-----	85	Seepage	1.00	Depth to saturated zone Seepage	1.00 0.12	Cutbanks cave Deep to water	1.00 0.00
		Very limited		Very limited		Very limited	
2959: Ninnescah, saline---	100	Seepage	1.00	Depth to saturated zone Seepage	1.00 0.43	Cutbanks cave Salty water	1.00 0.06
		Very limited		Very limited		Very limited	
3051: Ost-----	90	Somewhat limited Seepage	0.05	Somewhat limited Piping	0.82	Very limited Deep to water	1.00
3052: Ost-----	55	Somewhat limited Seepage	0.05	Somewhat limited Piping	0.82	Very limited Deep to water	1.00
Clark-----	45	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.52	Very limited Deep to water	1.00
3170: Penalosa-----	100	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
3171: Penalosa-----	100	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
3180: Pratt-----	85	Very limited Seepage	1.00	Somewhat limited Seepage	0.86	Very limited Deep to water	1.00
3181: Pratt-----	45	Very limited Seepage	1.00	Somewhat limited Seepage	0.86	Very limited Deep to water	1.00
Turon-----	30	Very limited Seepage	1.00	Somewhat limited Piping	0.87	Very limited Deep to water	1.00

WATER MANAGEMENT--Continued  
Reno County, Kansas

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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
3190: Punkin-----	90	Not limited		Seepage	0.77		
3191: Punkin-----	70	Not limited		Very limited Hard to pack Seepage	1.00 0.02	Very limited Deep to water	1.00
Taver-----	20	Somewhat limited Seepage	0.70	Very limited Hard to pack Seepage	1.00 0.02	Very limited Deep to water	1.00
3403: Sand Pit-----	100	Not rated		Somewhat limited Seepage	0.00	Very limited Deep to water	1.00
3469: Smolan-----	90	Somewhat limited Seepage	0.05	Not rated		Not rated	
3510: Saltcreek-----	50	Somewhat limited Seepage	0.70	Somewhat limited Hard to pack	0.41	Very limited Deep to water	1.00
Funmar-----	30	Somewhat limited Seepage	0.05	Not limited		Very limited Deep to water	1.00
Farnum-----	20	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
3511: Saltcreek-----	70	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.01	Very limited Deep to water	1.00
Naron, sandy substratum-----	30	Very limited Seepage	1.00	Not limited		Very limited Deep to water	1.00
3512: Saltcreek-----	50	Somewhat limited Seepage	0.70	Somewhat limited Seepage	0.90	Very limited Deep to water	1.00
Naron-----	50	Very limited Seepage	1.00	Not limited		Very limited Deep to water	1.00
3520: Saxman-----	85	Very limited Seepage	1.00	Somewhat limited Seepage	0.55	Very limited Deep to water	1.00
3530: Shellabarger, Eroded	45	Somewhat limited Seepage	0.70	Very limited Seepage Depth to saturated zone	1.00 0.86	Very limited Cutbanks cave Deep to water	1.00 0.06
Albion-----	40	Very limited Seepage	1.00	Somewhat limited Seepage	0.88	Very limited Deep to water	1.00
3531: Shellabarger, Moderately Eroded--	50	Somewhat limited Seepage	0.70	Somewhat limited Seepage	0.90	Very limited Deep to water	1.00
Nalim-----	50	Very limited Seepage	1.00	Somewhat limited Seepage	0.88	Very limited Deep to water	1.00
3532: Shellabarger-----	80	Somewhat limited Seepage	0.70	Somewhat limited Seepage	0.98	Very limited Deep to water	1.00
3533: Shellabarger-----	85	Somewhat limited Seepage	0.70	Somewhat limited Seepage	0.88	Very limited Deep to water	1.00
3534: Shellabarger-----	85	Somewhat limited		Somewhat limited		Very limited	

WATER MANAGEMENT--Continued  
Reno County, Kansas

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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	0.70	Seepage	0.88	Deep to water	1.00
3535: Shellabarger-----	55	Somewhat limited Seepage	0.70	Somewhat limited Seepage	0.88	Very limited Deep to water	1.00
Nalim-----	45	Very limited Seepage	1.00	Somewhat limited Seepage	0.98	Very limited Deep to water	1.00
3540: Solvay-----	90	Very limited Seepage	1.00	Somewhat limited Seepage Depth to saturated zone	0.44 0.43	Very limited Cutbanks cave Deep to water	1.00 0.25
3550: Spelvin-----	100	Very limited Seepage	1.00	Very limited Seepage	1.00	Very limited Deep to water	1.00
3639: Taver-----	90	Somewhat limited Seepage	0.70	Somewhat limited Seepage	0.00	Very limited Deep to water	1.00
3640: Tivin-----	95	Very limited Seepage Slope	1.00 0.03	Very limited Seepage	1.00	Very limited Deep to water	1.00
3641: Tivin-----	45	Very limited Seepage	1.00	Very limited Seepage	1.00	Very limited Deep to water	1.00
Dillhut-----	40	Very limited Seepage	1.00	Somewhat limited Seepage	0.13	Very limited Deep to water	1.00
3642: Tivin-----	70	Very limited Seepage	1.00	Very limited Seepage	1.00	Very limited Deep to water	1.00
Willowbrook, occasionally flooded-----	30	Very limited  Seepage	 1.00	Very limited  Seepage Depth to saturated zone	 1.00 0.43	Very limited  Cutbanks cave Deep to water	 1.00 0.25
3643: Tobin-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.54	Very limited Deep to water	1.00
3644: Turon-----	65	Very limited Seepage	1.00	Somewhat limited Piping Seepage	0.87 0.77	Very limited Deep to water	1.00
Carway-----	20	Somewhat limited Seepage	0.70	Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Deep to water	1.00
3760: Urban Land, Protected-----	50	Not rated		Not rated		Not rated	
Blazefork, Protected	25	Somewhat limited Seepage	0.05	Not limited		Somewhat limited Slow refill Deep to water Cutbanks cave	0.95 0.81 0.10
Kaskan, Protected---	25	Very limited Seepage	1.00	Very limited Seepage	1.00	Very limited Deep to water	1.00
3762: Urban Land-----	50	Not rated		Not rated		Not rated	
Darlow-----	25	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Very limited Deep to water	1.00

WATER MANAGEMENT--Continued  
Reno County, Kansas

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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
Elmer-----	15	Very limited Seepage	1.00	Salinity Seepage Very limited Piping Seepage	0.12 0.12 1.00 0.10	Very limited Deep to water	1.00
3763: Urban Land, Protected-----	50	Not rated		Not rated		Not rated	
Imano, Protected----	40	Very limited Seepage	1.00	Very limited Seepage Depth to saturated zone	1.00 0.43	Very limited Cutbanks cave Deep to water	1.00 0.25
3764: Urban Land, Protected-----	60	Not rated		Not rated		Not rated	
Mahone, Protected---	35	Very limited Seepage	1.00	Very limited Piping Seepage	1.00 0.93	Very limited Deep to water	1.00
3765: Urban Land-----	50	Not rated		Not rated		Not rated	
Saltcreek-----	35	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
Naron-----	15	Very limited Seepage	1.00	Somewhat limited Seepage	0.90	Very limited Deep to water	1.00
3766: Urban Land, Protected-----	50	Not rated		Not rated		Not rated	
Saxman, Protected---	45	Very limited Seepage	1.00	Very limited Seepage Depth to saturated zone	1.00 0.86	Very limited Cutbanks cave Deep to water	1.00 0.06
3767: Urban Land, Protected-----	50	Not rated		Not rated		Not rated	
Willowbrook, Protected-----	45	Very limited Seepage	1.00	Very limited Seepage Depth to saturated zone	1.00 0.43	Very limited Cutbanks cave Deep to water	1.00 0.25
3768: Urban Land, Protected-----	50	Not rated		Not rated		Not rated	
Yaggy, Protected----	45	Very limited Seepage	1.00	Very limited Seepage Depth to saturated zone	1.00 0.43	Very limited Cutbanks cave Deep to water	1.00 0.25
3900: Walnut-----	75	Very limited Seepage	1.00	Very limited Ponding Depth to saturated zone Seepage	1.00 1.00 0.89	Very limited Cutbanks cave	1.00



WATER MANAGEMENT--Continued  
Reno County, Kansas

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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
3926: Water-----	100	Not rated		Not rated		Not rated	
3966: Willowbrook-----	90	Very limited Seepage	1.00	Very limited Seepage Depth to saturated zone	1.00 0.43	Very limited Cutbanks cave Deep to water	1.00 0.25
4004: Yaggy-----	95	Very limited Seepage	1.00	Very limited Seepage Depth to saturated zone	1.00 0.43	Very limited Cutbanks cave Deep to water	1.00 0.25
4005: Yaggy-----	60	Very limited Seepage	1.00	Very limited Seepage Depth to saturated zone	1.00 0.43	Very limited Cutbanks cave Deep to water	1.00 0.25
Saxman-----	30	Very limited Seepage	1.00	Very limited Seepage Depth to saturated zone	1.00 0.86	Very limited Cutbanks cave Deep to water	1.00 0.06
4110: Zellmont-----	70	Somewhat limited Seepage Depth to bedrock	0.70 0.08	Somewhat limited Thin layer	0.81	Very limited Deep to water	1.00
Poxmash-----	30	Very limited Seepage Depth to bedrock	1.00 0.00	Very limited Seepage Thin layer	1.00 0.08	Very limited Deep to water	1.00
Aa: Abbyville-----	95	Not limited		Very limited Piping Depth to saturated zone Seepage	1.00 0.43 0.04	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.25 0.10 0.01
Ae: Avans-----	85	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.74	Very limited Deep to water	1.00
AED: Arents, Earthen Dam-	100	Not rated		Not rated		Not rated	
Af: Avans-----	85	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.74	Very limited Deep to water	1.00
Ag: Aguents-----	100	Very limited Seepage	1.00	Very limited Ponding Depth to saturated zone Seepage	1.00 1.00 1.00	Very limited Cutbanks cave	1.00
Ak: Abbyville, rarely flooded-----	45	Not limited		Very limited  Piping Depth to saturated zone Seepage	 1.00 0.43 0.04	Very limited  Slow refill Deep to water Cutbanks cave Salty water	 1.00 0.25 0.10 0.01
Kisiwa, occasionally flooded-----	40	Very limited  Seepage	 1.00	Very limited  Ponding Depth to saturated zone Seepage	 1.00 1.00 1.00	Very limited  Deep to water	 1.00

WATER MANAGEMENT--Continued  
Reno County, Kansas

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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
An: Zellmont-----	70	Somewhat limited Seepage Depth to bedrock	0.70 0.08	Piping  Somewhat limited Thin layer	1.00  0.81	Very limited Deep to water	1.00
Poxmash-----	30	Very limited Seepage Depth to bedrock	1.00 0.00	Very limited Seepage Thin layer	1.00 0.08	Very limited Deep to water	1.00
Ar: Arents, Landfill----	100	Very limited Seepage Slope	1.00 0.50	Very limited Hard to pack	1.00	Very limited Deep to water	1.00
Ba: Penalosa-----	100	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
Bb: Penalosa-----	100	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
Bf: Blazefork-----	90	Somewhat limited Seepage	0.05	Not limited		Somewhat limited Slow refill Deep to water Cutbanks cave	0.95 0.81 0.10
Bg: Buhler-----	65	Somewhat limited Seepage	0.70	Very limited Piping Seepage	1.00 0.09	Very limited Deep to water	1.00
Blazefork-----	30	Somewhat limited Seepage	0.05	Not limited		Somewhat limited Slow refill Deep to water Cutbanks cave	0.95 0.81 0.10
BkX: Blazefork-----	60	Somewhat limited Seepage	0.05	Not limited		Somewhat limited Slow refill Deep to water Cutbanks cave	0.95 0.81 0.10
Kaskan-----	40	Very limited Seepage	1.00	Very limited Seepage	1.00	Very limited Deep to water	1.00
Cc: Carway-----	50	Somewhat limited Seepage	0.70	Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Deep to water	1.00
Carbika-----	30	Somewhat limited Seepage	0.70	Very limited Ponding Depth to saturated zone Piping	1.00 1.00 0.40	Very limited Deep to water	1.00
Cd: Carway-----	40	Somewhat limited Seepage	0.70	Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Deep to water	1.00
Dillhut-----	30	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage Piping	1.00 1.00 0.53	Very limited Deep to water	1.00
Solvay-----	30	Very limited Seepage	1.00	Somewhat limited Seepage Depth to saturated zone	0.56 0.43	Very limited Cutbanks cave Deep to water	1.00 0.25
Cp: Clark-----	70	Somewhat limited		Somewhat limited		Very limited	

WATER MANAGEMENT--Continued  
Reno County, Kansas

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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
Ost-----	30	Seepage	0.70	Piping	0.52	Deep to water	1.00
Cr: Crete-----	100	Somewhat limited Seepage	0.05	Somewhat limited Piping	0.82	Very limited Deep to water	1.00
Cs: Crete-----	100	Somewhat limited Seepage	0.57	Not limited		Very limited Deep to water	1.00
DAM: Arents, Earthen Dam-	100	Somewhat limited Seepage	0.57	Not limited		Very limited Deep to water	1.00
De: Darlow-----	70	Not rated		Not rated		Not rated	
Elmer-----	20	Somewhat limited Seepage	0.70	Very limited Piping Salinity Seepage	1.00 0.12 0.12	Very limited Deep to water	1.00
Df: Dillhut-----	70	Very limited Seepage	1.00	Very limited Piping Seepage	1.00 0.10	Very limited Deep to water	1.00
Dp: Dillhut-----	35	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage Piping	1.00 1.00 0.53	Very limited Deep to water	1.00
Plev-----	35	Somewhat limited Seepage	1.00	Somewhat limited Seepage	0.13	Very limited Deep to water	1.00
Ds: Dillhut-----	30	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage	1.00 1.00	Very limited Deep to water	1.00
Solvay-----	30	Very limited Seepage	1.00	Somewhat limited Seepage	0.13	Very limited Deep to water	1.00
Fa: Farnum-----	40	Very limited Seepage	1.00	Somewhat limited Seepage Depth to saturated zone	0.56 0.43	Very limited Cutbanks cave Deep to water	1.00 0.25
Funmar-----	40	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.01	Very limited Deep to water	1.00
Ft: Funmar-----	55	Somewhat limited Seepage	0.05	Not limited		Very limited Deep to water	1.00
Taver-----	45	Somewhat limited Seepage	0.05	Not limited		Very limited Deep to water	1.00
Ge: Geary-----	100	Somewhat limited Seepage	0.70	Somewhat limited Seepage	0.00	Very limited Deep to water	1.00
Gg: Geary, Moderately Eroded-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.11	Very limited Deep to water	1.00
Ha: Hayes-----	60	Somewhat limited Seepage	0.70	Somewhat limited		Very limited	
		Seepage	0.70	Piping	0.53	Deep to water	1.00
		Very limited Seepage	1.00	Somewhat limited Piping	0.42	Very limited Deep to water	1.00

WATER MANAGEMENT--Continued  
Reno County, Kansas

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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
Hs: Hayes-----	55	Very limited Seepage	1.00	Somewhat limited Piping	0.42	Very limited Deep to water	1.00
Solvay-----	20	Very limited Seepage	1.00	Somewhat limited Seepage Depth to saturated zone	0.44 0.43	Very limited Cutbanks cave Deep to water	1.00 0.25
Ht: Hayes-----	40	Very limited Seepage	1.00	Somewhat limited Piping	0.42	Very limited Deep to water	1.00
Turon-----	35	Very limited Seepage	1.00	Somewhat limited Piping Seepage	0.87 0.77	Very limited Deep to water	1.00
Ja: Jamash-----	50	Somewhat limited Depth to bedrock	0.66	Very limited Thin layer	1.00	Very limited Deep to water	1.00
Piedmont-----	50	Somewhat limited Depth to bedrock Seepage	0.08 0.05	Somewhat limited Thin layer	0.81	Very limited Deep to water	1.00
Jb: Jamash-----	60	Somewhat limited Depth to bedrock	0.66	Very limited Thin layer	1.00	Very limited Deep to water	1.00
Piedmont-----	40	Somewhat limited Depth to bedrock Seepage	0.08 0.05	Somewhat limited Thin layer	0.81	Very limited Deep to water	1.00
Jc: Jamash-----	80	Somewhat limited Depth to bedrock	0.66	Very limited Thin layer	1.00	Very limited Deep to water	1.00
Jd: Jamash-----	60	Somewhat limited Depth to bedrock	0.66	Very limited Thin layer	1.00	Very limited Deep to water	1.00
Piedmont-----	40	Somewhat limited Depth to bedrock Seepage	0.08 0.05	Somewhat limited Thin layer	0.81	Very limited Deep to water	1.00
Kg: Kaskan-----	85	Very limited Seepage	1.00	Very limited Seepage	1.00	Very limited Deep to water	1.00
Kh: Kaskan-----	75	Very limited Seepage	1.00	Somewhat limited Seepage	0.43	Very limited Deep to water	1.00
Kn: Kanza-----	50	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage	1.00 0.90	Very limited Cutbanks cave	1.00
Ninnescah-----	50	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage	1.00 0.12	Very limited Cutbanks cave Deep to water	1.00 0.00
Ks: Kisiwa-----	90	Very limited Seepage	1.00	Very limited Ponding Depth to saturated zone Seepage Piping	1.00 1.00 1.00 1.00	Very limited Deep to water	1.00
La: Ladysmith-----	100	Somewhat limited Seepage	0.01	Somewhat limited Hard to pack Depth to saturated zone	0.94 0.86	Very limited Deep to water	1.00
Le: Imano-----	85	Very limited		Very limited		Very limited	

WATER MANAGEMENT--Continued  
Reno County, Kansas

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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
Lo: Longford, Moderately Eroded-----	90	Seepage	1.00	Seepage Depth to saturated zone	1.00 0.43	Cutbanks cave Deep to water	1.00 0.25
		Somewhat limited		Somewhat limited		Very limited	
Lt: Langdon-----	50	Seepage	0.05	Hard to pack	0.59	Deep to water	1.00
		Very limited Seepage	1.00	Somewhat limited Seepage	0.50	Very limited Deep to water	1.00
NaX: Nalim-----	80	Very limited Seepage	1.00	Somewhat limited Seepage	0.98	Very limited Deep to water	1.00
Nk: Nickerson-----	100	Very limited Seepage	1.00	Somewhat limited Seepage Depth to saturated zone	0.76 0.43	Very limited Cutbanks cave Deep to water	1.00 0.25
		Very limited Seepage	1.00	Very limited Piping Seepage Depth to saturated zone	1.00 0.76 0.43	Very limited Cutbanks cave Deep to water	1.00 0.25
Np: Nickerson-----	50	Very limited Seepage	1.00	Very limited Seepage Piping	1.00 1.00	Very limited Deep to water	1.00
Punkin-----	50	Very limited Seepage	1.00	Very limited Seepage Piping	1.00 1.00	Very limited Deep to water	1.00
Oc: Ost-----	55	Somewhat limited Seepage	0.05	Somewhat limited Piping	0.82	Very limited Deep to water	1.00
Clark-----	45	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.52	Very limited Deep to water	1.00
Om: Ost-----	90	Somewhat limited Seepage	0.05	Somewhat limited Piping	0.82	Very limited Deep to water	1.00
Pr: Pratt-----	45	Very limited Seepage	1.00	Somewhat limited Seepage	0.86	Very limited Deep to water	1.00
Turon-----	30	Very limited Seepage	1.00	Somewhat limited Piping Seepage	0.87 0.77	Very limited Deep to water	1.00
Ps: Pratt-----	85	Very limited Seepage	1.00	Somewhat limited Seepage	0.86	Very limited Deep to water	1.00
Pz: Punkin-----	90	Not limited		Very limited Hard to pack Seepage	1.00 0.02	Very limited Deep to water	1.00
Sa: Shellabarger-----	85	Somewhat limited Seepage	0.70	Somewhat limited Seepage	0.88	Very limited Deep to water	1.00
Sb: Shellabarger-----	85	Somewhat limited Seepage	0.70	Somewhat limited Seepage	0.88	Very limited Deep to water	1.00
Sd: Shellabarger-----	80	Somewhat limited Seepage	0.70	Somewhat limited Seepage	0.88	Very limited Deep to water	1.00
SfX: Saltcreek-----	50	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
Funmar-----	30	Somewhat limited		Not limited		Very limited	

WATER MANAGEMENT--Continued  
Reno County, Kansas

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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	0.05			Deep to water	1.00
Farnum-----	20	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.01	Very limited Deep to water	1.00
Sg: Saltcreek-----	70	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
Naron, sandy substratum-----	30	Very limited Seepage	1.00	Somewhat limited Seepage	0.90	Very limited Deep to water	1.00
Sh1: Saltcreek-----	50	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
Naron-----	50	Very limited Seepage	1.00	Somewhat limited Seepage	0.55	Very limited Deep to water	1.00
Sl: Smolan-----	90	Somewhat limited Seepage	0.05	Somewhat limited Hard to pack	0.41	Very limited Deep to water	1.00
Sm: Shellabarger-----	55	Somewhat limited Seepage	0.70	Somewhat limited Seepage	0.88	Very limited Deep to water	1.00
Nalim-----	45	Very limited Seepage	1.00	Somewhat limited Seepage	0.98	Very limited Deep to water	1.00
Sn: Shellabarger, Moderately Eroded--	50	Somewhat limited Seepage	0.70	Somewhat limited Seepage	0.88	Very limited Deep to water	1.00
Nalim-----	50	Very limited Seepage	1.00	Somewhat limited Seepage	0.98	Very limited Deep to water	1.00
So: Solvay-----	90	Very limited Seepage	1.00	Somewhat limited Seepage Depth to saturated zone	0.44 0.43	Very limited Cutbanks cave Deep to water	1.00 0.25
Sx: Saxman-----	85	Very limited Seepage	1.00	Very limited Seepage Depth to saturated zone	1.00 0.86	Very limited Cutbanks cave Deep to water	1.00 0.06
Tc: Turon-----	65	Very limited Seepage	1.00	Somewhat limited Piping Seepage	0.87 0.77	Very limited Deep to water	1.00
Carway-----	20	Somewhat limited Seepage	0.70	Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Deep to water	1.00
Td: Tivin-----	45	Very limited Seepage	1.00	Very limited Seepage	1.00	Very limited Deep to water	1.00
Dillhut-----	40	Very limited Seepage	1.00	Somewhat limited Seepage	0.13	Very limited Deep to water	1.00
To: Tobin-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.54	Very limited Deep to water	1.00
Tw: Tivin-----	70	Very limited Seepage	1.00	Very limited Seepage	1.00	Very limited Deep to water	1.00
Willowbrook, occasionally flooded-----	30	Very limited Seepage	1.00	Very limited Seepage	1.00	Very limited Cutbanks cave	1.00

WATER MANAGEMENT--Continued  
Reno County, Kansas

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Uc: Urban Land, Protected-----	60	Not rated		Depth to saturated zone	0.43	Deep to water	0.25
Mahone, Protected---	35	Very limited Seepage	1.00	Not rated		Not rated	
Ug: Urban Land-----	50	Very limited Seepage	1.00	Very limited Piping Seepage	1.00 0.93	Very limited Deep to water	1.00
Darlow-----	25	Not rated		Not rated		Not rated	
Elmer-----	15	Somewhat limited Seepage	0.70	Very limited Piping Salinity Seepage	1.00 0.12 0.12	Very limited Deep to water	1.00
Uk: Urban Land, Protected-----	50	Very limited Seepage	1.00	Very limited Piping Seepage	1.00 0.10	Very limited Deep to water	1.00
Blazefork, Protected	25	Not rated		Not rated		Not rated	
Kaskan, Protected---	25	Somewhat limited Seepage	0.05	Not limited		Somewhat limited Slow refill Deep to water Cutbanks cave	0.95 0.81 0.10
Um: Urban Land, Protected-----	50	Very limited Seepage	1.00	Very limited Seepage	1.00	Very limited Deep to water	1.00
Imano, Protected----	40	Not rated		Not rated		Not rated	
Un: Urban Land-----	50	Very limited Seepage	1.00	Very limited Seepage Depth to saturated zone	1.00 0.43	Very limited Cutbanks cave Deep to water	1.00 0.25
Saltcreek-----	35	Not rated		Not rated		Not rated	
Naron-----	15	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
Us: Urban Land, Protected-----	50	Very limited Seepage	1.00	Somewhat limited Seepage	0.90	Very limited Deep to water	1.00
Saxman, Protected---	45	Not rated		Not rated		Not rated	
Uw: Urban Land, Protected-----	50	Very limited Seepage	1.00	Very limited Seepage Depth to saturated zone	1.00 0.86	Very limited Cutbanks cave Deep to water	1.00 0.06
		Not rated		Not rated		Not rated	

WATER MANAGEMENT--Continued  
Reno County, Kansas

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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
Willowbrook, Protected-----	45	Very limited Seepage	1.00	Very limited Seepage Depth to saturated zone	1.00 0.43	Very limited Cutbanks cave Deep to water	1.00 0.25
Uy: Urban Land, Protected-----	50	Not rated		Not rated		Not rated	
Yaggy, Protected----	45	Very limited Seepage	1.00	Very limited Seepage Depth to saturated zone	1.00 0.43	Very limited Cutbanks cave Deep to water	1.00 0.25
W: Water-----	100	Not rated		Not rated		Not rated	
Wb: Willowbrook-----	90	Very limited Seepage	1.00	Very limited Seepage Depth to saturated zone	1.00 0.43	Very limited Cutbanks cave Deep to water	1.00 0.25
Ya: Yaggy-----	95	Very limited Seepage	1.00	Very limited Seepage Depth to saturated zone	1.00 0.43	Very limited Cutbanks cave Deep to water	1.00 0.25
Ys: Yaggy-----	60	Very limited Seepage	1.00	Very limited Seepage Depth to saturated zone	1.00 0.43	Very limited Cutbanks cave Deep to water	1.00 0.25
Saxman-----	30	Very limited Seepage	1.00	Very limited Seepage Depth to saturated zone	1.00 0.86	Very limited Cutbanks cave Deep to water	1.00 0.06
Zp: Zellmont-----	70	Somewhat limited Seepage Depth to bedrock	0.70 0.08	Somewhat limited Thin layer	0.81	Very limited Deep to water	1.00
Poxmash-----	30	Very limited Seepage Depth to bedrock	1.00 0.00	Very limited Seepage Thin layer	1.00 0.08	Very limited Deep to water	1.00



