

WATER MANAGEMENT
Sedgwick 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
Sedgwick County, Kansas

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Map symbol and soil name	Features affecting--			
	Drainage	Irrigation	Terraces and diversions	Grassed waterways
015LS: Ladysmith-----	Limitation: percs slowly	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly
079CR: Crete-----	Limitation: deep to water	Limitation: erodes easily percs slowly	Limitation: erodes easily	Limitation: erodes easily percs slowly
079CT: Crete-----	Limitation: deep to water	Limitation: erodes easily percs slowly	Limitation: erodes easily	Limitation: erodes easily percs slowly
079DE: Detroit-----	Limitation: deep to water	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
079DU: Drummond-----	Limitation: excess sodium excess salt percs slowly	Limitation: percs slowly wetness droughty	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily excess sodium excess salt
079FA: Farnum-----	Limitation: deep to water	Limitation: soil blowing	Limitation: soil blowing	Favorable
079FE: Farnum-----	Limitation: deep to water	Limitation: slope	Favorable	Favorable
079GD: Geary-----	Limitation: deep to water	Favorable	Limitation: erodes easily	Limitation: erodes easily
079KA: Kaski-----	Limitation: deep to water	Limitation: flooding	Favorable	Favorable
079LA: Ladysmith-----	Limitation: percs slowly	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness
079LB: Ladysmith-----	Limitation: percs slowly	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness
079SM: Smolan-----	Limitation: deep to water	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
095AD: Albion-----	Limitation: deep to water	Limitation: slope soil blowing droughty	Limitation: slope too sandy soil blowing	Limitation: slope droughty
095LA: Lincoln-----	Limitation: deep to water	Limitation: fast intake soil blowing droughty	Limitation: too sandy soil blowing	Limitation: droughty
095WA: Waldeck-----	Limitation: flooding cutbanks cave	Limitation: flooding wetness soil blowing	Limitation: too sandy wetness soil blowing	Favorable
191BA: Bethany-----	Limitation: deep to water	Limitation: erodes easily	Limitation: erodes easily	Limitation: erodes easily
191BB: Bethany-----	Limitation: deep to water	Limitation: erodes easily	Limitation: erodes easily	Limitation: erodes easily
191DR: Dale-----	Limitation: deep to water	Limitation: erodes easily	Limitation: erodes easily	Limitation: erodes easily
Reinach-----	Limitation: deep to water	Limitation: erodes easily	Limitation: erodes easily	Limitation: erodes easily
191EA: Elandco-----	Limitation: deep to water	Limitation: erodes easily	Limitation: erodes easily	Limitation: erodes easily
191LO: Lesho-----	Limitation: flooding cutbanks cave	Limitation: flooding wetness	Limitation: too sandy wetness	Favorable
1011: Albion-----	Limitation: deep to water	Limitation: soil blowing	Limitation: too sandy soil blowing	Favorable

WATER MANAGEMENT--Continued
Sedgwick County, Kansas

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Map symbol and soil name	Features affecting--			
	Drainage	Irrigation	Terraces and diversions	Grassed waterways
Shellabarger----	Limitation: deep to water	Favorable	Limitation: soil blowing	Favorable
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
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
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: wetness soil blowing	Limitation: too sandy wetness soil blowing	Limitation: wetness
2587: Imano-----	Limitation: flooding cutbanks cave	Limitation: flooding wetness	Limitation: too sandy wetness	Favorable
2948: Nalim-----	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
3535: Shellabarger----	Limitation: deep to water	Favorable	Limitation: soil blowing	Favorable
Nalim-----	Limitation: deep to water	Favorable	Favorable	Favorable
3639: Taver-----	Limitation: deep to water	Limitation: percs slowly	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
3966: Willowbrook----	Limitation: flooding cutbanks cave	Limitation: flooding wetness soil blowing	Limitation: too sandy wetness soil blowing	Favorable
4004: Yaggy-----	Limitation: flooding cutbanks cave	Limitation: wetness soil blowing droughty	Limitation: too sandy wetness soil blowing	Limitation: droughty
Aa: Albion-----	Limitation: deep to water	Limitation: soil blowing 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
Shellabarger----	Limitation: deep to water	Limitation: soil blowing	Limitation: soil blowing	Favorable
Ab: Albion-----	Limitation: deep to water	Limitation: slope soil blowing droughty	Limitation: slope too sandy soil blowing	Limitation: slope droughty
Shellabarger----	Limitation: deep to water	Limitation: slope soil blowing	Limitation: slope soil blowing	Limitation: slope
AED: Arents, Earthen Dam-----	---	---	---	---
Ba: Blanket-----	Limitation: deep to water	Limitation: erodes easily	Limitation: erodes easily	Limitation: erodes easily
Bb: Blanket-----	Limitation: deep to water	Limitation: erodes easily	Limitation: erodes easily	Limitation: erodes easily
BRR: Brewer-----	Limitation: deep to water	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
Ca: Canadian-----	Limitation: deep to water	Limitation: soil blowing droughty	Limitation: soil blowing	Limitation: droughty
Cb: Canadian-----	Limitation: deep to water	Limitation: soil blowing droughty	Limitation: soil blowing	Limitation: droughty
Waldeck-----	Limitation: flooding cutbanks cave	Limitation: flooding wetness soil blowing	Limitation: too sandy wetness soil blowing	Favorable
Cc: Carwile-----	Limitation: percs slowly	Limitation: percs slowly wetness soil blowing	Limitation: erodes easily wetness soil blowing	Limitation: erodes easily percs slowly rooting depth
Cd: Clark-----	Limitation: deep to water	Favorable	Favorable	Favorable
Ost-----	Limitation: deep to water	Favorable	Favorable	Favorable
Ce: Clime-----	Limitation: deep to water	Limitation: percs slowly slope slow intake	Limitation: percs slowly depth to rock	Limitation: percs slowly depth to rock
Ea: Elandco-----	Limitation: deep to water	Limitation: erodes easily	Limitation: erodes easily	Limitation: erodes easily
Eb: Elandco-----	Limitation: deep to water	Limitation: erodes easily flooding	Limitation: erodes easily	Limitation: erodes easily
Ec: Elandco-----	Limitation: deep to water	Limitation: erodes easily flooding	Limitation: erodes easily	Limitation: erodes easily
Fa: Farnum-----	Limitation: deep to water	Favorable	Favorable	Favorable
Fb: Farnum-----	Limitation: deep to water	Favorable	Favorable	Favorable
Fc: Farnum-----	Limitation: deep to water	Favorable	Limitation: too sandy	Favorable
Ga: Goessel-----	Limitation: percs slowly	Limitation: percs slowly slow intake wetness	Limitation: percs slowly wetness	Limitation: percs slowly
Gb: Goessel-----	Limitation: percs slowly	Limitation: percs slowly slow intake wetness	Limitation: percs slowly wetness	Limitation: percs slowly
Ia: Irwin-----	Limitation: deep to water	Limitation: percs slowly	Limitation: percs slowly	Limitation: percs slowly

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	Drainage	Irrigation	Terraces and diversions	Grassed waterways
Ib: Irwin-----	Limitation: deep to water	Limitation: percs slowly slope	Limitation: percs slowly	Limitation: percs slowly
Ic: Irwin-----	Limitation: deep to water	Limitation: percs slowly slope	Limitation: percs slowly	Limitation: percs slowly
INT: Aguolls-----	---	---	---	---
KAA: Kaski-----	Limitation: deep to water	Limitation: flooding	Favorable	Favorable
La: Lesho-----	Limitation: flooding outbanks cave	Limitation: flooding wetness	Limitation: too sandy wetness	Favorable
Lb: Lincoln-----	Limitation: deep to water	Limitation: flooding soil blowing droughty	Limitation: too sandy soil blowing	Limitation: droughty
M-W: Miscellaneous Water-----	---	---	---	---
Ma: Milan-----	Limitation: deep to water	Favorable	Favorable	Favorable
Mb: Milan-----	Limitation: deep to water	Limitation: slope	Favorable	Favorable
Mc: Milan-----	Limitation: deep to water	Limitation: slope	Favorable	Favorable
Na: Naron-----	Limitation: deep to water	Limitation: soil blowing	Limitation: soil blowing	Favorable
Oc: Wellsford-----	Limitation: deep to water	Limitation: percs slowly depth to rock	Limitation: percs slowly depth to rock	Limitation: percs slowly depth to rock
Od: Wellsford-----	Limitation: deep to water	Limitation: percs slowly slope depth to rock	Limitation: percs slowly depth to rock	Limitation: percs slowly depth to rock
Rock Outcrop----	---	---	---	---
Pa: Pits-----	---	---	---	---
Pb: Plevna-----	Limitation: flooding	Limitation: flooding wetness soil blowing	Limitation: wetness soil blowing	Limitation: wetness
Pc: Pratt-----	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: too sandy soil blowing	Limitation: droughty
Pd: Pratt-----	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: slope too sandy soil blowing	Limitation: slope droughty
Tivoli-----	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: slope too sandy soil blowing	Limitation: slope droughty
Ra: Renfrow-----	Limitation: deep to water	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
Rb: Renfrow-----	Limitation: deep to water	Limitation: erodes easily percs slowly slope	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
Rc: Renfrow-----	Limitation: deep to water	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
Wellsford-----	Limitation: deep to water	Limitation: percs slowly depth to rock	Limitation: percs slowly depth to rock	Limitation: percs slowly depth to rock

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Map symbol and soil name	Features affecting--			
	Drainage	Irrigation	Terraces and diversions	Grassed waterways
Rd: Rosehill-----	Limitation: deep to water	Limitation: percs slowly slow intake depth to rock	Limitation: percs slowly depth to rock	Limitation: percs slowly depth to rock
Sa: Shellabarger----	Limitation: deep to water	Limitation: soil blowing	Limitation: soil blowing	Favorable
Sb: Shellabarger----	Limitation: deep to water	Limitation: slope soil blowing	Limitation: soil blowing	Favorable
Sc: Shellabarger----	Limitation: deep to water	Limitation: slope soil blowing	Limitation: soil blowing	Favorable
Ta: Tabler-----	Limitation: percs slowly	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly
Tb: Tabler-----	Limitation: percs slowly	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly
Drummond-----	Limitation: excess sodium percs slowly	Limitation: percs slowly wetness droughty	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily excess sodium droughty
Ua: Urban Land-----	---	---	---	---
Canadian-----	Limitation: deep to water	Limitation: soil blowing droughty	Limitation: soil blowing	Limitation: droughty
Ub: Urban Land-----	---	---	---	---
Elandco-----	Limitation: deep to water	Limitation: erodes easily	Limitation: erodes easily	Limitation: erodes easily
Uc: Urban Land-----	---	---	---	---
Farnum-----	Limitation: deep to water	Favorable	Favorable	Favorable
Ud: Urban Land-----	---	---	---	---
Irwin-----	Limitation: deep to water	Limitation: percs slowly	Limitation: percs slowly	Limitation: percs slowly
Ue: Urban Land-----	---	---	---	---
Tabler-----	Limitation: percs slowly	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly
Va: Vanoss-----	Limitation: deep to water	Limitation: erodes easily	Limitation: erodes easily	Limitation: erodes easily
Vb: Vanoss-----	Limitation: deep to water	Limitation: erodes easily	Limitation: erodes easily	Limitation: erodes easily
Vc: Vanoss-----	Limitation: deep to water	Limitation: erodes easily slope	Limitation: erodes easily	Limitation: erodes easily
Vd: Vanoss-----	Limitation: deep to water	Limitation: erodes easily slope	Limitation: erodes easily	Limitation: erodes easily
Ve: Vernon-----	Limitation: deep to water	Limitation: percs slowly soil blowing droughty	Limitation: erodes easily percs slowly soil blowing	Limitation: erodes easily rooting depth droughty
Vf: Vernon-----	Limitation: deep to water	Limitation: slope soil blowing droughty	Limitation: erodes easily percs slowly soil blowing	Limitation: erodes easily rooting depth droughty
W: Water-----	---	---	---	---
Wa: Waldeck-----	Limitation: flooding cutbanks cave	Limitation: flooding wetness soil blowing	Limitation: too sandy wetness soil blowing	Favorable

WATER MANAGEMENT--Continued
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Map symbol and soil name	Features affecting--			
	Drainage	Irrigation	Terraces and diversions	Grassed waterways
Wb: Waurika-----	Limitation: percs slowly	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness

WATER MANAGEMENT--Continued
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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
015LS: Ladysmith-----	90	Somewhat limited Seepage	0.01	Very limited Depth to saturated zone Hard to pack	1.00 0.98	Somewhat limited Slow refill Cutbanks cave Deep to water	0.99 0.10 0.06
079CR: Crete-----	100	Somewhat limited Seepage	0.57	Not limited		Very limited Deep to water	1.00
079CT: Crete-----	100	Somewhat limited Seepage	0.57	Not limited		Very limited Deep to water	1.00
079DE: Detroit-----	100	Somewhat limited Seepage	0.05	Not limited		Very limited Deep to water	1.00
079DU: Drummond-----	75	Not limited		Somewhat limited Depth to saturated zone Salinity	0.43 0.12	Very limited Slow refill Salty water Deep to water Cutbanks cave	1.00 0.50 0.25 0.10
079FA: Farnum-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping Seepage	0.18 0.08	Very limited Deep to water	1.00
079FE: Farnum-----	100	Somewhat limited Seepage	0.70	Somewhat limited Seepage Piping	0.08 0.05	Very limited Deep to water	1.00
079GD: Geary-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.06	Very limited Deep to water	1.00
079KA: Kaski-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.76	Very limited Deep to water	1.00
079LA: Ladysmith-----	100	Somewhat limited Seepage	0.01	Somewhat limited Hard to pack	0.99	Very limited Deep to water	1.00
079LB: Ladysmith-----	100	Somewhat limited Seepage	0.01	Somewhat limited Hard to pack	0.99	Very limited Deep to water	1.00
079SM: Smolan-----	90	Somewhat limited Seepage	0.05	Somewhat limited Hard to pack	0.42	Very limited Deep to water	1.00
095AD: Albion-----	100	Very limited Seepage Slope	1.00 0.00	Somewhat limited Seepage	0.10	Very limited Deep to water	1.00
095LA: Lincoln-----	100	Very limited Seepage	1.00	Somewhat limited Seepage	0.39	Very limited Deep to water	1.00
095WA: Waldeck-----	100	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
191BA: Bethany-----	100	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
191BB: Bethany-----	100	Somewhat limited Seepage	0.70	Not limited		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
191DR: Dale-----	50	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.81	Very limited Deep to water	1.00
Reinach-----	50	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Very limited Deep to water	1.00
191EA: Elandco-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.82	Very limited Deep to water	1.00
191LO: Lesho-----	100	Very limited Seepage	1.00	Somewhat limited Seepage Depth to saturated zone	1.00 0.43	Very limited Cutbanks cave Deep to water	1.00 0.25
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
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
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
2207: Jamash-----	80	Somewhat limited Depth to bedrock	0.66	Very limited Thin layer	1.00	Very limited 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
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
2948: Nalim-----	80	Very limited Seepage	1.00	Somewhat limited Seepage	0.98	Very limited Deep to water	1.00
3052: Ost-----	55	Somewhat limited		Somewhat limited		Very limited	

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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
Clark-----	45	Seepage	0.05	Piping	0.82	Deep to water	1.00
3170: Penalosa-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.52	Very limited Deep to water	1.00
3171: Penalosa-----	100	Somewhat limited Seepage	0.70	Not limited		Very limited 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
3639: Taver-----	90	Somewhat limited Seepage	0.70	Somewhat limited Seepage	0.00	Very limited Deep to water	1.00
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
Aa: Albion-----	70	Very limited Seepage	1.00	Somewhat limited Seepage	0.01	Very limited Deep to water	1.00
Shellabarger-----	30	Somewhat limited Seepage	0.70	Somewhat limited Seepage	0.08	Very limited Deep to water	1.00
Ab: Albion-----	50	Very limited Seepage Slope	1.00 0.00	Somewhat limited Seepage	0.01	Very limited Deep to water	1.00
Shellabarger-----	50	Somewhat limited Seepage Slope	0.70 0.00	Somewhat limited Seepage	0.08	Very limited Deep to water	1.00
AED: Arents, Earthen Dam-	100	Not rated		Not rated		Not rated	
Ba: Blanket-----	100	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
Bb: Blanket-----	100	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
BRR: Brewer-----	85	Not limited		Somewhat limited Hard to pack	0.20	Very limited Deep to water	1.00
Ca: Canadian-----	100	Very limited Seepage	1.00	Very limited Piping Seepage	1.00 0.07	Very limited Deep to water	1.00
Cb: Canadian-----	70	Very limited Seepage	1.00	Very limited Piping Seepage	1.00 0.07	Very limited Deep to water	1.00
Waldeck-----	30	Very limited		Somewhat limited		Very limited	

WATER MANAGEMENT--Continued
Sedgwick 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
Cc: Carwile-----	100	Seepage	1.00	Depth to saturated zone Seepage	0.43 0.15	Cutbanks cave	1.00
		Somewhat limited Seepage	0.57	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill	0.30
						Cutbanks cave	0.10
Cd: Clark-----	75	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.13	Very limited Deep to water	1.00
Ost-----	25	Somewhat limited Seepage	0.05	Very limited Piping	1.00	Very limited Deep to water	1.00
Ce: Clime-----	100	Somewhat limited Depth to bedrock	0.19	Somewhat limited Thin layer Hard to pack	0.93 0.50	Very limited Deep to water	1.00
Ea: Elandco-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.82	Very limited Deep to water	1.00
Eb: Elandco-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.82	Very limited Deep to water	1.00
Ec: Elandco-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.82	Very limited Deep to water	1.00
Fa: Farnum-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.08	Very limited Deep to water	1.00
Fb: Farnum-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.08	Very limited Deep to water	1.00
Fc: Farnum-----	100	Very limited Seepage	1.00	Somewhat limited Seepage	0.33	Very limited Deep to water	1.00
Ga: Goessel-----	100	Not limited		Very limited Hard to pack Depth to saturated zone	1.00 0.86	Very limited Deep to water	1.00
Gb: Goessel-----	100	Not limited		Very limited Hard to pack Depth to saturated zone	1.00 0.86	Very limited Deep to water	1.00
Ia: Irwin-----	100	Not limited		Somewhat limited Hard to pack	0.21	Very limited Deep to water	1.00
Ib: Irwin-----	100	Not limited		Somewhat limited Hard to pack	0.21	Very limited Deep to water	1.00
Ic: Irwin-----	100	Not limited		Somewhat limited Hard to pack	0.25	Very limited Deep to water	1.00
INT: Aquolls-----	100	Very limited Seepage	1.00	Very limited Depth to saturated zone Ponding	1.00 1.00	Somewhat limited Cutbanks cave	0.10
KAA: Kaski-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.76	Very limited Deep to water	1.00

WATER MANAGEMENT--Continued
Sedgwick 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
La: Lesho-----	100	Very limited Seepage	1.00	Somewhat limited Depth to saturated zone Seepage	0.43 0.12	Very limited Cutbanks cave Deep to water	1.00 0.25
Lb: Lincoln-----	100	Very limited Seepage	1.00	Somewhat limited Seepage	0.22	Very limited Deep to water	1.00
M-W: Miscellaneous Water-	100	Not rated		Not rated		Not rated	
Ma: Milan-----	100	Somewhat limited Seepage	0.05	Somewhat limited Piping	0.10	Very limited Deep to water	1.00
Mb: Milan-----	100	Somewhat limited Seepage	0.05	Somewhat limited Piping	0.10	Very limited Deep to water	1.00
Mc: Milan-----	100	Somewhat limited Seepage	0.05	Somewhat limited Piping	0.08	Very limited Deep to water	1.00
Na: Naron-----	100	Very limited Seepage	1.00	Somewhat limited Seepage	0.08	Very limited Deep to water	1.00
Oc: Wellsford-----	100	Very limited Seepage Depth to bedrock	1.00 0.66	Very limited Thin layer Hard to pack	1.00 0.50	Very limited Deep to water	1.00
Od: Wellsford-----	60	Very limited Seepage Depth to bedrock	1.00 0.66	Very limited Thin layer Hard to pack	1.00 0.50	Very limited Deep to water	1.00
Rock Outcrop-----	40	Not rated		Not rated		Not rated	
Pa: Pits-----	100	Not rated		Not rated		Not rated	
Pb: Plevna-----	100	Very limited Seepage	1.00	Very limited Seepage Depth to saturated zone	1.00 1.00	Very limited Cutbanks cave	1.00
Pc: Pratt-----	100	Very limited Seepage	1.00	Somewhat limited Seepage	0.22	Very limited Deep to water	1.00
Pd: Pratt-----	65	Very limited Seepage	1.00	Somewhat limited Seepage	0.22	Very limited Deep to water	1.00
Tivoli-----	35	Very limited Seepage Slope	1.00 0.08	Somewhat limited Seepage	0.50	Very limited Deep to water	1.00
Ra: Renfrow-----	100	Not limited		Somewhat limited Hard to pack	0.19	Very limited Deep to water	1.00
Rb: Renfrow-----	100	Not limited		Somewhat limited Hard to pack	0.19	Very limited Deep to water	1.00
Rc: Renfrow-----	65	Not limited		Somewhat limited Hard to pack	0.19	Very limited Deep to water	1.00

WATER MANAGEMENT--Continued
Sedgwick 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
Wellsford-----	35	Very limited Seepage Depth to bedrock	1.00 0.66	Very limited Thin layer Hard to pack	1.00 0.50	Very limited Deep to water	1.00
Rd: Rosehill-----	100	Somewhat limited Depth to bedrock	0.11	Very limited Hard to pack Thin layer	1.00 0.85	Very limited Deep to water	1.00
Sa: Shellabarger-----	100	Somewhat limited Seepage	0.70	Somewhat limited Seepage	0.08	Very limited Deep to water	1.00
Sb: Shellabarger-----	100	Somewhat limited Seepage	0.70	Somewhat limited Seepage	0.08	Very limited Deep to water	1.00
Sc: Shellabarger-----	100	Somewhat limited Seepage	0.70	Somewhat limited Seepage	0.08	Very limited Deep to water	1.00
Ta: Tabler-----	100	Not limited		Somewhat limited Hard to pack	0.16	Very limited Deep to water	1.00
Tb: Tabler-----	60	Not limited		Somewhat limited Hard to pack	0.16	Very limited Deep to water	1.00
Drummond-----	40	Not limited		Somewhat limited Piping	0.02	Somewhat limited Deep to water Cutbanks cave Salty water	0.81 0.10 0.01
Ua: Urban Land-----	70	Not rated		Not rated		Not rated	
Canadian-----	30	Very limited Seepage	1.00	Very limited Piping Seepage	1.00 0.07	Very limited Deep to water	1.00
Ub: Urban Land-----	75	Not rated		Not rated		Not rated	
Elandco-----	25	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.82	Very limited Deep to water	1.00
Uc: Urban Land-----	70	Not rated		Not rated		Not rated	
Farnum-----	30	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.72	Very limited Deep to water	1.00
Ud: Urban Land-----	70	Not rated		Not rated		Not rated	
Irwin-----	30	Not limited		Somewhat limited Hard to pack	0.21	Very limited Deep to water	1.00
Ue: Urban Land-----	70	Not rated		Not rated		Not rated	
Tabler-----	30	Not limited		Somewhat limited Hard to pack	0.16	Very limited Deep to water	1.00
Va: Vanoss-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.43	Very limited Deep to water	1.00

WATER MANAGEMENT--Continued
Sedgwick 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
Vb: Vanoss-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.43	Very limited Deep to water	1.00
Vc: Vanoss-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.43	Very limited Deep to water	1.00
Vd: Vanoss-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.36	Very limited Deep to water	1.00
Ve: Vernon-----	100	Not limited		Not limited		Very limited Deep to water	1.00
Vf: Vernon-----	100	Not limited		Not limited		Very limited Deep to water	1.00
W: Water-----	100	Not rated		Not rated		Not rated	
Wa: Waldeck-----	100	Very limited Seepage	1.00	Somewhat limited Depth to saturated zone Seepage	0.43 0.15	Very limited Cutbanks cave Deep to water	1.00 0.25
Wb: Waurika-----	100	Not limited		Very limited Depth to saturated zone	1.00	Very limited Deep to water	1.00

