

WATER MANAGEMENT  
Anderson 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  
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Map symbol and soil name	Features affecting--			
	Drainage	Irrigation	Terraces and diversions	Grassed waterways
001CA: Catoosa-----	Limitation: deep to water	Limitation: erodes easily depth to rock	Limitation: erodes easily depth to rock	Limitation: erodes easily depth to rock
001CB: Catoosa-----	Limitation: deep to water	Limitation: erodes easily slope depth to rock	Limitation: erodes easily depth to rock	Limitation: erodes easily depth to rock
Rock Outcrop----	---	---	---	---
001CC: Collinsville----	Limitation: deep to water	Limitation: large stones slope droughty	Limitation: large stones slope depth to rock	Limitation: large stones slope droughty
Bates-----	Limitation: deep to water	Limitation: slope depth to rock	Limitation: depth to rock	Limitation: depth to rock
001EC: Eram, eroded----	Limitation: percs slowly slope depth to rock	Limitation: percs slowly slope wetness	Limitation: erodes easily wetness depth to rock	Limitation: erodes easily wetness depth to rock
031EB: Eram-----	Limitation: percs slowly depth to rock	Limitation: percs slowly wetness depth to rock	Limitation: erodes easily wetness depth to rock	Limitation: erodes easily wetness depth to rock
031EC: Eram-----	Limitation: percs slowly slope depth to rock	Limitation: percs slowly slope wetness	Limitation: erodes easily wetness depth to rock	Limitation: erodes easily wetness depth to rock
031EP: Eram-----	Limitation: percs slowly slope depth to rock	Limitation: percs slowly slope wetness	Limitation: erodes easily wetness depth to rock	Limitation: erodes easily wetness depth to rock
Apperson-----	Limitation: percs slowly slope	Limitation: percs slowly slope wetness	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness
031ER: Eram-----	Limitation: percs slowly slope depth to rock	Limitation: percs slowly slope wetness	Limitation: erodes easily slope depth to rock	Limitation: erodes easily slope wetness
Collinsville----	Limitation: deep to water	Limitation: slope depth to rock	Limitation: slope depth to rock	Limitation: slope depth to rock
031LU: Lula-----	Limitation: deep to water	Limitation: erodes easily	Limitation: erodes easily large stones	Limitation: erodes easily large stones
059CM: Clareson-----	Limitation: deep to water	Limitation: large stones slope droughty	Limitation: large stones slope depth to rock	Limitation: large stones slope droughty
Eram-----	Limitation: percs slowly slope depth to rock	Limitation: percs slowly slope wetness	Limitation: erodes easily wetness depth to rock	Limitation: erodes easily wetness depth to rock
059DN: Dennis-----	Limitation: percs slowly slope	Limitation: percs slowly slope wetness	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness
Bates-----	Limitation: deep to water	Limitation: slope depth to rock	Limitation: depth to rock	Limitation: depth to rock
059EA: Eram-----	Limitation: percs slowly slope depth to rock	Limitation: percs slowly slope wetness	Limitation: erodes easily slope depth to rock	Limitation: erodes easily slope wetness
Lebo-----	Limitation: deep to water	Limitation: slope depth to rock	Limitation: slope depth to rock	Limitation: slope depth to rock
059EC: Eram-----	Limitation: percs slowly slope depth to rock	Limitation: percs slowly slope wetness	Limitation: erodes easily wetness depth to rock	Limitation: erodes easily wetness depth to rock

WATER MANAGEMENT--Continued  
Anderson County, Kansas

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Map symbol and soil name	Features affecting--			
	Drainage	Irrigation	Terraces and diversions	Grassed waterways
Lula-----	Limitation: deep to water	Limitation: erodes easily slope	Limitation: erodes easily large stones	Limitation: erodes easily large stones
059LN: Lebo-----	Limitation: deep to water	Limitation: slope depth to rock droughty	Limitation: large stones slope depth to rock	Limitation: large stones slope droughty
Rock Outcrop---- 059OV: Osage-----	---	---	---	---
602CM: Clareson-----	Limitation: deep to water	Limitation: slow intake wetness droughty	Limitation: percs slowly wetness	Limitation: percs slowly wetness droughty
Rock Outcrop---- 602EF: Eram-----	---	---	---	---
Lebo-----	Limitation: percs slowly slope depth to rock	Limitation: percs slowly slope wetness	Limitation: erodes easily slope depth to rock	Limitation: erodes easily slope wetness
602LB: Lebo-----	Limitation: deep to water	Limitation: slope depth to rock	Limitation: slope depth to rock	Limitation: slope depth to rock
AED: Arents, Earthen Dam-----	---	---	---	---
BOP: Borrow Pits-----	---	---	---	---
Cb: Catoosa-----	Limitation: deep to water	Limitation: erodes easily depth to rock	Limitation: erodes easily depth to rock	Limitation: erodes easily depth to rock
Cc: Clareson-----	Limitation: deep to water	Limitation: large stones percs slowly droughty	Limitation: large stones percs slowly depth to rock	Limitation: large stones depth to rock droughty
Rock Outcrop---- Cd: Collinsville----	---	---	---	---
Bates-----	Limitation: deep to water	Limitation: large stones slope depth to rock	Limitation: large stones slope depth to rock	Limitation: large stones slope depth to rock
Db: Dennis-----	Limitation: percs slowly	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness
De: Dennis, eroded--	Limitation: percs slowly	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness
Eb: Eram-----	Limitation: percs slowly depth to rock	Limitation: percs slowly wetness depth to rock	Limitation: erodes easily wetness depth to rock	Limitation: erodes easily wetness depth to rock
Ec: Eram-----	Limitation: percs slowly slope depth to rock	Limitation: percs slowly slope wetness	Limitation: erodes easily wetness depth to rock	Limitation: erodes easily wetness depth to rock
Ed: Eram, eroded----	Limitation: percs slowly depth to rock	Limitation: percs slowly wetness depth to rock	Limitation: erodes easily wetness depth to rock	Limitation: erodes easily wetness depth to rock
Eh: Eram, eroded----	Limitation: percs slowly slope depth to rock	Limitation: percs slowly slope wetness	Limitation: erodes easily wetness depth to rock	Limitation: erodes easily wetness depth to rock

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Map symbol and soil name	Features affecting--			
	Drainage	Irrigation	Terraces and diversions	Grassed waterways
Ek: Eram-----	Limitation: percs slowly slope depth to rock	Limitation: percs slowly slope wetness	Limitation: erodes easily wetness depth to rock	Limitation: erodes easily wetness depth to rock
Clareson-----	Limitation: deep to water	Limitation: large stones slope droughty	Limitation: large stones slope depth to rock	Limitation: large stones slope droughty
Eo: Eram, eroded----	Limitation: percs slowly slope depth to rock	Limitation: percs slowly slope wetness	Limitation: erodes easily wetness depth to rock	Limitation: erodes easily wetness depth to rock
Gullied Land----	---	---	---	---
Ep: Eram-----	Limitation: percs slowly slope depth to rock	Limitation: percs slowly slope wetness	Limitation: erodes easily slope depth to rock	Limitation: erodes easily slope wetness
Talihina-----	Limitation: percs slowly slope depth to rock	Limitation: percs slowly slope wetness	Limitation: erodes easily slope depth to rock	Limitation: erodes easily slope wetness
Ev: Eram-----	Limitation: percs slowly slope depth to rock	Limitation: percs slowly slope wetness	Limitation: erodes easily wetness depth to rock	Limitation: erodes easily wetness depth to rock
Verdigris-----	Limitation: deep to water	Limitation: flooding	Favorable	Favorable
GRP: Gravel Pits----	---	---	---	---
Kb: Kenoma-----	Limitation: deep to water	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
Kd: Kenoma, eroded--	Limitation: deep to water	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
Kh: Kenoma-----	Limitation: deep to water	Limitation: erodes easily percs slowly slope	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
Olpe-----	Limitation: deep to water	Limitation: percs slowly slope droughty	Limitation: percs slowly	Limitation: percs slowly droughty
La: Lanton-----	Limitation: flooding percs slowly	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness
Le: Leanna, drained-	Limitation: flooding percs slowly	Limitation: flooding percs slowly wetness	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness
Lh: Lula-----	Limitation: deep to water	Limitation: erodes easily	Limitation: erodes easily large stones	Limitation: erodes easily large stones
LIQ: Limestone Quarry	---	---	---	---
Me: Mason-----	Limitation: deep to water	Limitation: erodes easily	Limitation: erodes easily	Limitation: erodes easily
Mf: Mayes-----	Limitation: percs slowly	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness
Ok: Okemah-----	Limitation: percs slowly	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness
Op: Olpe-----	Limitation: deep to water	Limitation: percs slowly slope droughty	Limitation: percs slowly slope	Limitation: percs slowly slope droughty

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Map symbol and soil name	Features affecting--			
	Drainage	Irrigation	Terraces and diversions	Grassed waterways
Os: Osage-----	Limitation: flooding percs slowly	Limitation: flooding percs slowly wetness	Limitation: percs slowly wetness	Limitation: percs slowly wetness
Se: Stony Land-----	---	---	---	---
Talihina-----	Limitation: percs slowly slope depth to rock	Limitation: percs slowly slope wetness	Limitation: erodes easily slope depth to rock	Limitation: erodes easily slope wetness
Sf: Summit-----	Limitation: percs slowly	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly
Sh: Summit-----	Limitation: percs slowly slope	Limitation: percs slowly slope wetness	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly
Sk: Summit, eroded--	Limitation: percs slowly	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly
So: Summit, eroded--	Limitation: percs slowly slope	Limitation: percs slowly slope wetness	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly
Eram, eroded----	Limitation: percs slowly slope depth to rock	Limitation: percs slowly slope wetness	Limitation: erodes easily wetness depth to rock	Limitation: erodes easily wetness depth to rock
VC: Verdigris-----	Limitation: deep to water	Limitation: flooding	Favorable	Favorable
Vf: Verdigris-----	Limitation: deep to water	Limitation: flooding	Favorable	Favorable
Vx: Verdigris-----	Limitation: deep to water	Limitation: flooding	Favorable	Favorable
W: Water-----	---	---	---	---
Wb: Welda-----	Limitation: deep to water	Limitation: erodes easily	Limitation: erodes easily	Limitation: erodes easily
Wc: Welda-----	Limitation: deep to water	Limitation: erodes easily slope	Limitation: erodes easily	Limitation: erodes easily
Wd: Woodson-----	Limitation: percs slowly	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness
Wf: Woodson-----	Limitation: percs slowly	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness
Wh: Woodson, eroded-	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
001CA: Catoosa-----	90	Somewhat limited Depth to bedrock Seepage	0.93 0.70	Somewhat limited Thin layer Piping	0.93 0.11	Very limited Deep to water	1.00
001CB: Catoosa-----	58	Somewhat limited Depth to bedrock Seepage	0.93 0.70	Somewhat limited Thin layer Piping	0.93 0.37	Very limited Deep to water	1.00
Rock Outcrop-----	29	Not rated		Not rated		Not rated	
001CC: Collinsville-----	50	Very limited Seepage Depth to bedrock	1.00 1.00	Very limited Thin layer Piping Seepage	1.00 1.00 0.06	Very limited Deep to water	1.00
Bates-----	41	Somewhat limited Seepage Depth to bedrock	0.70 0.08	Somewhat limited Thin layer	0.81	Very limited Deep to water	1.00
001EC: Eram, eroded-----	90	Somewhat limited Depth to bedrock	0.11	Very limited Depth to saturated zone Thin layer Hard to pack	1.00 0.86 0.12	Very limited Deep to water	1.00
031EB: Eram-----	85	Somewhat limited Depth to bedrock	0.09	Very limited Depth to saturated zone Thin layer	1.00 0.83	Very limited Deep to water	1.00
031EC: Eram-----	85	Somewhat limited Depth to bedrock	0.17	Very limited Depth to saturated zone Thin layer Hard to pack	1.00 0.91 0.32	Very limited Deep to water	1.00
031EP: Eram-----	50	Somewhat limited Depth to bedrock	0.23	Very limited Depth to saturated zone Thin layer Hard to pack	1.00 0.95 0.32	Very limited Deep to water	1.00
Apperson-----	35	Somewhat limited Depth to bedrock	0.37	Very limited Depth to saturated zone Hard to pack Thin layer	1.00 1.00 0.37	Very limited Deep to water	1.00
031ER: Eram-----	65	Somewhat limited Depth to bedrock	0.17	Very limited Depth to saturated zone Thin layer Hard to pack	1.00 0.91 0.32	Very limited Deep to water	1.00
Collinsville-----	20	Very limited Seepage Depth to bedrock	1.00 1.00	Very limited Piping Thin layer	1.00 1.00	Very limited Deep to water	1.00
031LU: Lula-----	85	Somewhat limited Seepage Depth to bedrock	0.70 0.16	Somewhat limited Piping Thin layer	0.59 0.16	Very limited Deep to water	1.00
059CM: Clareson-----	55	Somewhat limited Depth to bedrock	0.95	Somewhat limited Thin layer Content of large stones	0.95 0.81	Very limited Deep to water	1.00
Eram-----	30	Somewhat limited		Very 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
059DN: Dennis-----	60	Depth to bedrock	0.02	Depth to saturated zone Thin layer Hard to pack	1.00 0.56 0.32	Deep to water	1.00
		Not limited		Very limited Depth to saturated zone Hard to pack	1.00 0.24	Very limited Deep to water	1.00
		Somewhat limited Seepage Depth to bedrock	0.70 0.05	Very limited Piping Thin layer Seepage	1.00 0.74 0.03	Very limited Deep to water	1.00
059EA: Eram-----	55	Somewhat limited Depth to bedrock	0.02	Very limited Depth to saturated zone Thin layer Hard to pack	1.00 0.56 0.32	Very limited Slow refill Cutbanks cave	1.00 0.10
		Somewhat limited Seepage Depth to bedrock	0.70 0.17	Somewhat limited Thin layer	0.91	Very limited Deep to water	1.00
		Somewhat limited Depth to bedrock	0.02	Very limited Depth to saturated zone Thin layer Hard to pack	1.00 0.56 0.32	Very limited Slow refill Cutbanks cave	1.00 0.10
059EC: Eram-----	60	Somewhat limited Seepage Depth to bedrock	0.70 0.29	Somewhat limited Thin layer Hard to pack	0.29 0.23	Very limited Deep to water	1.00
		Somewhat limited Seepage Slope Depth to bedrock	0.70 0.50 0.17	Somewhat limited Thin layer	0.91	Very limited Deep to water	1.00
		Not rated		Not rated		Not rated	
059LN: Lebo-----	75	Not rated		Not rated		Not rated	
		Not limited		Very limited Ponding Depth to saturated zone Hard to pack	1.00 1.00 0.92	Very limited Slow refill Cutbanks cave	1.00 0.10
		Somewhat limited Depth to bedrock	0.77	Somewhat limited Content of large stones Thin layer	0.91 0.77	Very limited Deep to water	1.00
602CM: Clareson-----	60	Slope	0.00	Not rated		Not rated	
		Somewhat limited Depth to bedrock	0.19	Very limited Depth to saturated zone Thin layer Hard to pack	1.00 0.93 0.12	Very limited Deep to water	1.00
		Somewhat limited Seepage Slope Depth to bedrock	0.70 0.02 0.02	Somewhat limited Thin layer	0.56	Very limited Deep to water	1.00
602EF: Eram-----	55	Somewhat limited Seepage	0.70	Somewhat limited Thin layer	0.56	Very limited Deep to water	1.00
		Somewhat limited Depth to bedrock	0.19	Very limited Depth to saturated zone Thin layer Hard to pack	1.00 0.93 0.12	Very limited Deep to water	1.00
		Somewhat limited Seepage	0.70	Somewhat limited Thin layer	0.56	Very limited Deep to water	1.00
602LB: Lebo-----	85	Somewhat limited Seepage	0.70	Somewhat limited Thin layer	0.56	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
		Slope Depth to bedrock	0.21 0.02				
AED: Arents, Earthen Dam-	100	Not rated		Not rated		Not rated	
BOP: Borrow Pits-----	100	Not rated		Not rated		Not rated	
Cb: Catoosa-----	85	Somewhat limited Depth to bedrock Seepage	0.91 0.70	Somewhat limited Thin layer Piping	0.91 0.01	Very limited Deep to water	1.00
Cc: Clareson-----	60	Somewhat limited Depth to bedrock	0.98	Very limited Content of large stones Thin layer Hard to pack	1.00 0.98 0.88	Very limited Deep to water	1.00
Rock Outcrop-----	20	Not rated		Not rated		Not rated	
Cd: Collinsville-----	65	Very limited Seepage Depth to bedrock	1.00 1.00	Very limited Thin layer Piping	1.00 1.00	Very limited Deep to water	1.00
Bates-----	20	Somewhat limited Seepage Depth to bedrock	0.70 0.03	Somewhat limited Thin layer Piping	0.66 0.53	Very limited Deep to water	1.00
Db: Dennis-----	85	Somewhat limited Depth to bedrock	0.00	Very limited Depth to saturated zone Hard to pack Thin layer	1.00 0.25 0.01	Very limited Deep to water	1.00
De: Dennis, eroded-----	85	Somewhat limited Depth to bedrock	0.00	Very limited Depth to saturated zone Hard to pack Thin layer	1.00 0.25 0.01	Very limited Deep to water	1.00
Eb: Eram-----	85	Somewhat limited Depth to bedrock	0.06	Very limited Depth to saturated zone Thin layer	1.00 0.77	Very limited Deep to water	1.00
Ec: Eram-----	85	Somewhat limited Depth to bedrock	0.06	Very limited Depth to saturated zone Thin layer	1.00 0.77	Very limited Deep to water	1.00
Ed: Eram, eroded-----	85	Somewhat limited Depth to bedrock	0.06	Very limited Depth to saturated zone Thin layer	1.00 0.77	Very limited Deep to water	1.00
Eh: Eram, eroded-----	85	Somewhat limited Depth to bedrock	0.06	Very limited Depth to saturated zone Thin layer	1.00 0.77	Very limited Deep to water	1.00
Ek: Eram-----	60	Somewhat limited Depth to bedrock	0.06	Very limited Depth to saturated zone	1.00	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Clareson-----	20	Somewhat limited Depth to bedrock Seepage	0.98 0.00	Thin layer Very limited Content of large stones Thin layer Hard to pack	0.77 1.00 0.98 0.88	Very limited Deep to water	1.00
Eo: Eram, eroded-----	40	Somewhat limited Depth to bedrock	0.06	Very limited Depth to saturated zone Thin layer	1.00 0.77	Very limited Deep to water	1.00
Gullied Land-----	40	Very limited Seepage Slope	1.00 0.50	Very limited Hard to pack	1.00	Very limited Deep to water	1.00
Ep: Eram-----	45	Somewhat limited Depth to bedrock Slope	0.06 0.01	Very limited Depth to saturated zone Thin layer	1.00 0.77	Very limited Deep to water	1.00
Talihina-----	35	Very limited Seepage Depth to bedrock Slope	1.00 0.66 0.01	Very limited Thin layer	1.00	Very limited Deep to water	1.00
Ev: Eram-----	50	Somewhat limited Depth to bedrock	0.06	Very limited Depth to saturated zone Thin layer	1.00 0.77	Very limited Deep to water	1.00
Verdigris-----	15	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.59	Very limited Deep to water	1.00
GRP: Gravel Pits-----	100	Not rated		Not rated		Not rated	
Kb: Kenoma-----	85	Not limited		Somewhat limited Hard to pack	0.90	Very limited Deep to water	1.00
Kd: Kenoma, eroded-----	85	Not limited		Somewhat limited Hard to pack	0.90	Very limited Deep to water	1.00
Kh: Kenoma-----	40	Not limited		Somewhat limited Hard to pack	0.90	Very limited Deep to water	1.00
Olpe-----	35	Not limited		Somewhat limited Seepage	0.25	Very limited Deep to water	1.00
La: Lanton-----	85	Not limited		Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Deep to water	1.00
Le: Leanna, drained-----	85	Not limited		Very limited Depth to saturated zone	1.00	Very limited Deep to water	1.00
Lh: Lula-----	85	Somewhat limited Seepage Depth to bedrock	0.70 0.13	Somewhat limited Piping Thin layer	0.17 0.13	Very limited Deep to water	1.00
LIQ: Limestone Quarry----	100	Not rated		Not rated		Not rated	

WATER MANAGEMENT--Continued  
Anderson 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
Me: Mason-----	85	Somewhat limited Seepage	0.05	Somewhat limited Piping	0.56	Very limited Deep to water	1.00
Mf: Mayes-----	85	Not limited		Very limited Depth to saturated zone Hard to pack	1.00 0.86	Very limited Deep to water	1.00
Ok: Okemah-----	85	Not limited		Very limited Depth to saturated zone Hard to pack	1.00 0.32	Very limited Deep to water	1.00
Op: Olpe-----	85	Not limited		Somewhat limited Seepage	0.25	Very limited Deep to water	1.00
Os: Osage-----	85	Not limited		Very limited Ponding Depth to saturated zone Hard to pack	1.00 1.00 0.97	Very limited Slow refill Cutbanks cave	1.00 0.10
Se: Stony Land-----	60	Not rated		Not rated		Not rated	
Talihina-----	20	Very limited Seepage Depth to bedrock Slope	1.00 0.66 0.00	Very limited Thin layer	1.00	Very limited Deep to water	1.00
Sf: Summit-----	85	Not limited		Somewhat limited Hard to pack Depth to saturated zone	0.91 0.86	Very limited Deep to water	1.00
Sh: Summit-----	85	Not limited		Somewhat limited Hard to pack Depth to saturated zone	0.91 0.86	Very limited Deep to water	1.00
Sk: Summit, eroded-----	85	Not limited		Somewhat limited Hard to pack Depth to saturated zone	0.91 0.86	Very limited Deep to water	1.00
So: Summit, eroded-----	55	Not limited		Somewhat limited Depth to saturated zone Hard to pack	0.86 0.39	Very limited Deep to water	1.00
Eram, eroded-----	30	Somewhat limited Depth to bedrock	0.06	Very limited Depth to saturated zone Thin layer	1.00 0.77	Very limited Deep to water	1.00
VC: Verdigris-----	85	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.79	Very limited Deep to water	1.00
Vf: Verdigris-----	85	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.59	Very limited Deep to water	1.00
Vx: Verdigris-----	55	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.59	Very limited Deep to water	1.00
W: Water-----	100	Not rated		Not rated		Not rated	

WATER MANAGEMENT--Continued  
Anderson 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
Wb: Welda-----	85	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
Wc: Welda-----	85	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
Wd: Woodson-----	85	Not limited		Very limited Depth to saturated zone Hard to pack	1.00 0.91	Very limited Deep to water	1.00
Wf: Woodson-----	85	Not limited		Very limited Depth to saturated zone Hard to pack	1.00 0.97	Very limited Deep to water	1.00
Wh: Woodson, eroded----	85	Not limited		Very limited Depth to saturated zone Hard to pack	1.00 0.89	Very limited Deep to water	1.00

