

WATER MANAGEMENT
Dickinson 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
Dickinson County, Kansas

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Map symbol and soil name	Features affecting--			
	Drainage	Irrigation	Terraces and diversions	Grassed waterways
027KS: Kipson-----	Limitation: deep to water	Limitation: slope thin layer	Limitation: area reclaim large stones slope	Limitation: area reclaim large stones slope
Sogn-----	Limitation: deep to water	Limitation: slope thin layer	Limitation: area reclaim slope depth to rock	Limitation: area reclaim slope depth to rock
027LH: Lancaster-----	Limitation: deep to water	Limitation: slope thin layer	Limitation: area reclaim slope	Limitation: area reclaim slope
Hedville-----	Limitation: deep to water	Limitation: slope thin layer	Limitation: large stones slope depth to rock	Limitation: large stones slope depth to rock
061CF: Clime-----	Limitation: deep to water	Limitation: percs slowly slope thin layer	Limitation: area reclaim erodes easily slope	Limitation: area reclaim erodes easily slope
Sogn-----	Limitation: deep to water	Limitation: slope thin layer	Limitation: area reclaim slope depth to rock	Limitation: area reclaim slope depth to rock
061HE: Haynie-----	Limitation: deep to water	Favorable	Limitation: erodes easily	Limitation: erodes easily
061KO: Konza-----	Limitation: deep to water	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
061MK: Mccook-----	Limitation: deep to water	Limitation: flooding	Limitation: erodes easily	Limitation: erodes easily
Smokyhill-----	Limitation: deep to water	Limitation: flooding percs slowly	Limitation: erodes easily	Limitation: erodes easily percs slowly
061TN: Tully-----	Limitation: deep to water	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
061TO: Tully-----	Limitation: deep to water	Limitation: erodes easily percs slowly slope	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
061WE: Wells-----	Limitation: deep to water	Favorable	Favorable	Favorable
Ortello-----	Limitation: deep to water	Limitation: soil blowing	Limitation: too sandy soil blowing	Favorable
115CM: Clime-----	Limitation: deep to water	Limitation: percs slowly thin layer	Limitation: area reclaim erodes easily percs slowly	Limitation: area reclaim erodes easily percs slowly
115CS: Clime-----	Limitation: deep to water	Limitation: percs slowly slope thin layer	Limitation: area reclaim erodes easily slope	Limitation: area reclaim erodes easily slope
Sogn-----	Limitation: deep to water	Limitation: slope thin layer	Limitation: area reclaim slope depth to rock	Limitation: area reclaim slope depth to rock
115LM: Ladysmith-----	Limitation: percs slowly	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly
115LV: Lancaster-----	Limitation: deep to water	Limitation: slope thin layer	Limitation: area reclaim	Limitation: area reclaim
Hedville-----	Limitation: deep to water	Limitation: slope thin layer	Limitation: large stones slope depth to rock	Limitation: large stones slope depth to rock

WATER MANAGEMENT--Continued
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Map symbol and soil name	Features affecting--			
	Drainage	Irrigation	Terraces and diversions	Grassed waterways
127TS: Tully-----	Limitation: deep to water	Limitation: erodes easily percs slowly slope	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
169CR: Crete-----	Limitation: deep to water	Limitation: erodes easily percs slowly	Limitation: erodes easily	Limitation: erodes easily percs slowly
169CS: Crete-----	Limitation: deep to water	Limitation: erodes easily percs slowly slope	Limitation: erodes easily	Limitation: erodes easily percs slowly
169DE: Detroit-----	Limitation: deep to water	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
169KC: Kipson-----	Limitation: deep to water	Limitation: slope depth to rock	Limitation: large stones slope depth to rock	Limitation: large stones slope depth to rock
Clime-----	Limitation: deep to water	Limitation: percs slowly slope depth to rock	Limitation: percs slowly slope depth to rock	Limitation: percs slowly slope depth to rock
169OT: Ortello-----	Limitation: deep to water	Limitation: slope soil blowing	Limitation: too sandy soil blowing	---
169TO: Tobin-----	Limitation: deep to water	Limitation: flooding	Favorable	Favorable
AED: Arents, Earthen Dam-----	---	---	---	---
Ca: Carwile-----	Limitation: percs slowly ponding	Limitation: percs slowly wetness ponding	Limitation: percs slowly wetness ponding	Limitation: percs slowly wetness
Cb: Clime-----	Limitation: deep to water	Limitation: percs slowly slope thin layer	Limitation: area reclaim erodes easily	Limitation: area reclaim erodes easily
Cc: Clime-----	Limitation: deep to water	Limitation: percs slowly slope thin layer	Limitation: area reclaim erodes easily slope	Limitation: area reclaim erodes easily slope
Cd: Clime-----	Limitation: deep to water	Limitation: percs slowly slope thin layer	Limitation: area reclaim erodes easily slope	Limitation: area reclaim erodes easily slope
Sogn-----	Limitation: deep to water	Limitation: slope thin layer	Limitation: area reclaim depth to rock	Limitation: area reclaim depth to rock
Ce: Crete-----	Limitation: deep to water	Limitation: erodes easily percs slowly	Limitation: erodes easily	Limitation: erodes easily percs slowly
Cf: Crete-----	Limitation: deep to water	Limitation: erodes easily percs slowly	Limitation: erodes easily	Limitation: erodes easily percs slowly
Cg: Crete-----	Limitation: deep to water	Limitation: erodes easily percs slowly slope	Limitation: erodes easily	Limitation: erodes easily percs slowly
Da: Detroit-----	Limitation: deep to water	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
Ea: Elsmere-----	Limitation: cutbanks cave	Limitation: wetness droughty	Limitation: too sandy wetness soil blowing	Limitation: droughty
Fa: Fluvaquents-----	---	---	---	---

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Map symbol and soil name	Features affecting--			
	Drainage	Irrigation	Terraces and diversions	Grassed waterways
Ga: Geary-----	Limitation: deep to water	Limitation: slope	Limitation: erodes easily	Limitation: erodes easily
Ha: Hobbs-----	Limitation: deep to water	Limitation: flooding	Favorable	Favorable
Hb: Hobbs-----	Limitation: deep to water	Limitation: flooding	Favorable	Favorable
Ia: Irwin-----	Limitation: deep to water	Limitation: percs slowly	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
Ib: Irwin-----	Limitation: deep to water	Limitation: percs slowly	Limitation: erodes easily percs slowly	Limitation: erodes easily percs slowly
La: Lancaster-----	Limitation: deep to water	Limitation: slope thin layer	Limitation: area reclaim slope	Limitation: area reclaim slope
Hedville-----	Limitation: deep to water	Limitation: slope thin layer soil blowing	Limitation: area reclaim slope depth to rock	Limitation: area reclaim slope depth to rock
M-W: Miscellaneous Water-----	---	---	---	---
Ma: Mccook-----	Limitation: deep to water	Limitation: flooding	Limitation: erodes easily	Limitation: erodes easily
Mb: Muir-----	Limitation: deep to water	Favorable	Favorable	Favorable
Oa: Ortello-----	Limitation: deep to water	Limitation: slope soil blowing	Limitation: too sandy soil blowing	Favorable
Wells-----	Limitation: deep to water	Limitation: slope	Favorable	Favorable
Qa: Quarries-----	---	---	---	---
Sb: Solomon-----	Limitation: flooding percs slowly	Limitation: slow intake wetness droughty	Limitation: percs slowly wetness	Limitation: percs slowly wetness droughty
Sc: Sutphen-----	Limitation: deep to water	Limitation: flooding percs slowly slow intake	Limitation: percs slowly	Limitation: percs slowly
Sd: Sutphen-----	Limitation: deep to water	Limitation: flooding percs slowly slow intake	Limitation: percs slowly	Limitation: percs slowly
Va: Valentine-----	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: slope too sandy soil blowing	Limitation: slope droughty
Vb: Valentine-----	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: too sandy soil blowing	Limitation: droughty
W: Water-----	---	---	---	---
Wa: Wells-----	Limitation: deep to water	Limitation: slope	Favorable	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
027KS: Kipson-----	79	Very limited Seepage Depth to bedrock Slope	1.00 0.53 0.01	Very limited Thin layer Piping	1.00 0.32	Very limited Deep to water	1.00
Sogn-----	20	Very limited Seepage Depth to bedrock	1.00 1.00	Very limited Thin layer	1.00	Very limited Deep to water	1.00
027LH: Lancaster-----	55	Somewhat limited Seepage Depth to bedrock	0.70 0.04	Somewhat limited Thin layer Piping	0.70 0.24	Very limited Deep to water	1.00
Hedville-----	28	Very limited Seepage Depth to bedrock Slope	1.00 1.00 0.12	Very limited Thin layer	1.00	Very limited Deep to water	1.00
061CF: Clime-----	60	Somewhat limited Depth to bedrock Slope	0.11 0.01	Somewhat limited Thin layer Hard to pack	0.86 0.39	Very limited Deep to water	1.00
Sogn-----	20	Very limited Seepage Depth to bedrock	1.00 1.00	Very limited Thin layer	1.00	Very limited Deep to water	1.00
061HE: Haynie-----	55	Somewhat limited Seepage	0.70	Very limited Piping Seepage	1.00 0.04	Very limited Deep to water	1.00
061KO: Konza-----	85	Not limited		Very limited Hard to pack	1.00	Very limited Deep to water	1.00
061MK: Mccook-----	63	Somewhat limited Seepage	0.70	Very limited Piping Seepage	1.00 0.05	Very limited Deep to water	1.00
Smokyhill-----	25	Somewhat limited Seepage	0.70	Very limited Ponding Piping Seepage	1.00 0.87 0.05	Very limited Deep to water	1.00
061TN: Tully-----	85	Somewhat limited Seepage	0.05	Not limited		Very limited Deep to water	1.00
061TO: Tully-----	85	Somewhat limited Seepage	0.05	Not limited		Very limited Deep to water	1.00
061WE: Wells-----	50	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.18	Very limited Deep to water	1.00
Ortello-----	30	Very limited Seepage	1.00	Somewhat limited Seepage	0.09	Very limited Deep to water	1.00
115CM: Clime-----	90	Somewhat limited Depth to bedrock	0.11	Somewhat limited Thin layer Hard to pack	0.86 0.50	Very limited Deep to water	1.00
115CS: Clime-----	65	Somewhat limited Depth to bedrock Slope	0.19 0.02	Somewhat limited Thin layer Hard to pack	0.93 0.50	Very limited Deep to water	1.00
Sogn-----	20	Very limited Seepage Depth to bedrock	1.00 1.00	Very limited Thin layer	1.00	Very limited Deep to water	1.00
115LM: Ladysmith-----	90	Not 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
115LV: Lancaster-----	60	Somewhat limited Seepage Depth to bedrock	0.70 0.04	Hard to pack Somewhat limited Thin layer Piping Seepage	0.98 0.70 0.69 0.03	Deep to water Very limited Deep to water	1.00 1.00
Hedville-----	25	Very limited Seepage Depth to bedrock Slope	1.00 1.00 0.00	Very limited Thin layer	1.00	Very limited Deep to water	1.00
127TS: Tully-----	90	Not limited		Somewhat limited Hard to pack	0.34	Very limited Deep to water	1.00
169CR: Crete-----	100	Somewhat limited Seepage	0.57	Not limited		Very limited Deep to water	1.00
169CS: Crete-----	100	Somewhat limited Seepage	0.57	Not limited		Very limited Deep to water	1.00
169DE: Detroit-----	100	Somewhat limited Seepage	0.05	Not limited		Very limited Deep to water	1.00
169KC: Kipson-----	60	Very limited Seepage Depth to bedrock Slope	1.00 0.53 0.01	Very limited Thin layer Piping	1.00 0.32	Very limited Deep to water	1.00
Clime-----	40	Somewhat limited Depth to bedrock Slope	0.17 0.01	Somewhat limited Thin layer Hard to pack	0.91 0.31	Very limited Deep to water	1.00
169OT: Ortello-----	100	Very limited Seepage	1.00	Somewhat limited Seepage	0.70	Very limited Deep to water	1.00
169TO: Tobin-----	100	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.60	Very limited Deep to water	1.00
AED: Arents, Earthen Dam-	100	Not rated		Not rated		Not rated	
Ca: Carwile-----	90	Somewhat limited Seepage	0.57	Very limited Depth to saturated zone	1.00	Very limited Deep to water	1.00
Cb: Clime-----	85	Somewhat limited Depth to bedrock	0.19	Somewhat limited Thin layer Hard to pack	0.93 0.41	Very limited Deep to water	1.00
Cc: Clime-----	85	Somewhat limited Depth to bedrock Slope	0.19 0.00	Somewhat limited Thin layer Hard to pack	0.93 0.41	Very limited Deep to water	1.00
Cd: Clime-----	70	Somewhat limited Depth to bedrock Slope	0.19 0.01	Somewhat limited Thin layer Hard to pack	0.93 0.41	Very limited Deep to water	1.00
Sogn-----	20	Very limited Seepage Depth to bedrock	1.00 1.00	Very limited Thin layer Piping	1.00 0.92	Very limited Deep to water	1.00
Ce: Crete-----	95	Somewhat limited Seepage	0.05	Somewhat limited Hard to pack	0.65	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
Cf: Crete-----	85	Somewhat limited Seepage	0.05	Somewhat limited Hard to pack	0.63	Very limited Deep to water	1.00
Cg: Crete-----	85	Somewhat limited Seepage	0.05	Somewhat limited Hard to pack	0.63	Very limited Deep to water	1.00
Da: Detroit-----	85	Somewhat limited Seepage	0.05	Somewhat limited Hard to pack	0.42	Very limited Deep to water	1.00
Ea: Elsmere-----	85	Very limited Seepage	1.00	Very limited Seepage Depth to saturated zone	1.00 0.95	Very limited Cutbanks cave Deep to water	1.00 0.02
Fa: Fluvaquents-----	90	Somewhat limited Seepage	0.70	Very limited Ponding Depth to saturated zone Hard to pack	1.00 1.00 0.28	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
Ga: Geary-----	90	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.01	Very limited Deep to water	1.00
Ha: Hobbs-----	93	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.84	Very limited Deep to water	1.00
Hb: Hobbs-----	98	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.84	Very limited Deep to water	1.00
Ia: Irwin-----	90	Not limited		Somewhat limited Hard to pack	0.55	Very limited Deep to water	1.00
Ib: Irwin-----	75	Not limited		Somewhat limited Hard to pack	0.55	Very limited Deep to water	1.00
La: Lancaster-----	60	Somewhat limited Seepage Depth to bedrock	0.70 0.03	Somewhat limited Thin layer Piping	0.66 0.45	Very limited Deep to water	1.00
Hedville-----	20	Very limited Seepage Depth to bedrock Slope	1.00 1.00 0.00	Very limited Thin layer Piping	1.00 1.00	Very limited Deep to water	1.00
M-W: Miscellaneous Water-	100	Not rated		Not rated		Not rated	
Ma: Mccook-----	89	Somewhat limited Seepage	0.70	Very limited Piping Seepage	1.00 0.05	Very limited Deep to water	1.00
Mb: Muir-----	85	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.56	Very limited Deep to water	1.00
Oa: Ortello-----	50	Very limited Seepage	1.00	Somewhat limited Seepage	0.39	Very limited Deep to water	1.00
Wells-----	35	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.29	Very limited Deep to water	1.00
Qa: Quarries-----	100	Not rated		Not rated		Not rated	

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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
Sb: Solomon-----	85	Not limited		Very limited Hard to pack Ponding	1.00 1.00	Very limited Deep to water	1.00
Sc: Sutphen-----	89	Not limited		Very limited Ponding Hard to pack	1.00 0.82	Very limited Deep to water	1.00
Sd: Sutphen-----	88	Not limited		Very limited Ponding Hard to pack	1.00 0.98	Very limited Deep to water	1.00
Va: Valentine-----	85	Very limited Seepage Slope	1.00 0.00	Somewhat limited Seepage	0.70	Very limited Deep to water	1.00
Vb: Valentine-----	85	Very limited Seepage	1.00	Somewhat limited Seepage	0.70	Very limited Deep to water	1.00
W: Water-----	100	Not rated		Not rated		Not rated	
Wa: Wells-----	89	Somewhat limited Seepage	0.70	Somewhat limited Piping Seepage	0.47 0.06	Very limited Deep to water	1.00

