

In this section, hydric soils are defined and described and the hydric soils in the survey area are listed. The three essential characteristics of wetlands are hydrophytic vegetation, hydric soils, and wetland hydrology (Cowardin and others, 1979; U.S. Army Corps of Engineers, 1987; National Research Council, 1995; Tiner, 1985). Criteria for each of the characteristics must be met for areas to be identified as wetlands. Undrained hydric soils that have natural vegetation should support a dominant population of ecological wetland plant species. Hydric soils that have been converted to other uses should be capable of being restored to wetlands.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). These soils are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 1995). These criteria are used to identify a phase of a soil series that normally is associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (USDA, 1999) and "Keys to Soil Taxonomy" (USDA, 1998) and in the "Soil Survey Manual" (USDA, 1993).

If soils are wet enough for a long enough period to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils in this survey area are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and others, 1996).

Hydric soils are identified by examining and describing the soil to a depth of about 20 inches. This depth may be greater if determination of an appropriate indicator so requires. It is always recommended that soils be excavated and described to the depth necessary for an understanding of the redoximorphic processes. Then, using the completed soil descriptions, soil scientists can compare the soil features required by each indicator and specify which indicators have been matched with the conditions observed in the soil. The soil can be identified as a hydric soil if at least one of the approved indicators is present.

Map units in the Hydric Soil Interpretations table meet the definition of hydric soils and, in addition, have at least one of the hydric soil indicators. This list can help in planning land uses; however, onsite investigation is recommended to determine the hydric soils on a specific site (National Research Council, 1995; Hurt and others, 1996).

Map units that are made up of hydric soils may have small areas, or inclusions, of nonhydric soils in the higher positions on the landform, and map units made up of nonhydric soils may have inclusions of hydric soils in the lower positions on the landform.

These map units, in general, do not meet the definition of hydric soils because they do not have one of the hydric soil indicators. A portion of these map units, however, may include hydric soils. Onsite investigation is recommended to determine whether hydric soils occur and the location of the included hydric soils.

HYDRIC SOIL INTERPRETATIONS  
HYDRIC SOILS LIST  
Kingman County, Kansas

PAGE 2 of 9

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Map symbol and map unit name	Component	Hydric	Local landform	Hydric soils criteria			
				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
007AE: ALBION AND SHELLABARGER SOILS, 4 TO 15 PERCENT SLOPES	ALBION	No	paleoterrace	---	---	---	---
	SHELLABARGER Unnamed wet soils	No Yes	paleoterrace drainageway	2A, 2B3	YES	NO	NO
007FA: FARNUM FINE SANDY LOAM, 0 TO 1 PERCENT SLOPES	FARNUM	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	depression	2B3, 3, 2A	YES	NO	YES
077KA: KANZA LOAMY FINE SAND, FREQUENTLY FLOODED	KANZA	Yes	flood plain	2B3	YES	NO	NO
	Unnamed wet soils	Yes	drainageway	2B3, 2A	YES	NO	NO
077KR: KIRKLAND-RENFROW CLAY LOAMS, 1 TO 3 PERCENT SLOPES	KIRKLAND	No	hillslope	---	---	---	---
	RENFROW	No	hillslope	---	---	---	---
077NN: NASHVILLE SILT LOAM, 3 TO 6 PERCENT SLOPES, ERODED	NASHVILLE	No	hillslope	---	---	---	---
077PC: POND CREEK SILT LOAM, 0 TO 1 PERCENT SLOPES	POND CREEK	No	terrace	---	---	---	---
077RC: RENFROW-VERNON CLAY LOAMS, 1 TO 3 PERCENT SLOPES	RENFROW	No	hillslope	---	---	---	---
	VERNON	No	hillslope	---	---	---	---
077SB: SHELLABARGER FINE SANDY LOAM, 0 TO 1 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
077SE: SHELLABARGER FINE SANDY LOAM, 1 TO 3 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
077SF: SHELLABARGER FINE SANDY LOAM, 3 TO 6 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	drainageway	2A, 2B3, 2B2	YES	NO	NO
077SG: SHELLABARGER FINE SANDY LOAM, 3 TO 6 PERCENT SLOPES, ERODED	SHELLABARGER	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	drainageway	2B3, 2A, 2B2	YES	NO	NO
077SH: STONEBURG FINE SANDY LOAM, 1 TO 3 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
151AO: ALBION SANDY LOAM, 3 TO 7 PERCENT SLOPES, ERODED	ALBION	No	paleoterrace	---	---	---	---
151CN: CLARK FINE SANDY LOAM, 1 TO 3 PERCENT SLOPES	CLARK	No	paleoterrace	---	---	---	---
151CO: CLARK-OST CLAY LOAMS, 0 TO 1 PERCENT SLOPES	CLARK	No	paleoterrace	---	---	---	---
	OST	No	paleoterrace	---	---	---	---
151KP: KANZA-PLEVNA COMPLEX, FREQUENTLY FLOODED	KANZA	Yes	flood plain	2B3	YES	NO	NO
	PLEVNA	Yes	flood plain	2B3, 4	YES	YES	NO
151ND: NARON FINE SANDY LOAM, 0 TO 1 PERCENT SLOPES	NARON	No	dune, paleoterrace	---	---	---	---

HYDRIC SOIL INTERPRETATIONS  
HYDRIC SOILS LIST  
Kingman County, Kansas

PAGE 3 of 9

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Map symbol and map unit name	Component	Hydric	Local landform	Hydric soils criteria			
				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
151NF: NARON FINE SANDY LOAM, 1 TO 3 PERCENT SLOPES	NARON	No	dune,	---	---	---	---
	CARWILE	Yes	paleoterrace depression,	2A	YES	NO	NO
	Unnamed wet soils	Yes	paleoterrace depression	2B3,3	YES	NO	YES
151OC: OST CLAY LOAM, 0 TO 1 PERCENT SLOPES	OST	No	paleoterrace	---	---	---	---
151OS: OST CLAY LOAM, 1 TO 4 PERCENT SLOPES	OST	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	depression	3,2A,2B3,4	YES	YES	YES
151PN: PRATT LOAMY FINE SAND, 5 TO 10 PERCENT SLOPES	PRATT	No	dune, paleoterrace	---	---	---	---
151SE: SHELLABARGER FINE SANDY LOAM, 1 TO 4 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	drainageway	2B3,2A	YES	NO	NO
151ZS: ZENDA-DRUMMOND COMPLEX, OCCASIONALLY FLOODED	DRUMMOND	No	terrace	---	---	---	---
	ZENDA	No	dune, paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	depression	3,2A,2B3	YES	NO	YES
173MA: MILAN LOAM, 1 TO 3 PERCENT SLOPES	MILAN	No	paleoterrace	---	---	---	---
173PB: PLEVNA FINE SANDY LOAM, FREQUENTLY FLOODED	PLEVNA	Yes	flood plain	2B3,4	YES	YES	NO
	Unnamed wet soils	Yes	depression	2B3,3,2A	YES	NO	YES
173RA: RENFROW SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES	RENFROW	No	hillslope	---	---	---	---
173RC: RENFROW-WELLSFORD CLAY LOAMS, 1 TO 4 PERCENT SLOPES	RENFROW	No	hillslope	---	---	---	---
	WELLSFORD	No	pediment	---	---	---	---
173TA: TABLER SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES	TABLER	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	drainageway	4,2B3,2A,3	YES	YES	YES
191RA: RENFROW-GRAINOLA COMPLEX, 1 TO 3 PERCENT SLOPES	RENFROW	No	hillslope	---	---	---	---
	GRAINOLA	No	hillslope	---	---	---	---
990: ABBYVILLE LOAM, 0 TO 1 PERCENT SLOPE	ABBYVILLE	No	terrace	---	---	---	---
	KISIWA	Yes	terrace, flood plain	2B3,3	YES	NO	YES
991: ABBYVILLE-KISIWA COMPLEX, 0 TO 2 PERCENT SLOPES, FLOODED	ABBYVILLE	No	terrace	---	---	---	---
	KISIWA	Yes	terrace, flood plain	2B3	YES	NO	NO
	SAXMAN	No	flood plain	---	---	---	---
	DARLOW	No	terrace	---	---	---	---
1004: ALBION SANDY LOAM, 0 TO 1 PERCENT SLOPES	ALBION	No	paleoterrace	---	---	---	---
	SHELLABARGER	No	paleoterrace	---	---	---	---

HYDRIC SOIL INTERPRETATIONS  
HYDRIC SOILS LIST  
Kingman County, Kansas

PAGE 4 of 9

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Map symbol and map unit name	Component	Hydric	Local landform	Hydric soils criteria			
				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
1005: ALBION SANDY LOAM, 1 TO 3 PERCENT SLOPES	ALBION	No	paleoterrace	---	---	---	---
	SHELLABARGER Unnamed Wet Soils	No Yes	paleoterrace drainageway	2A, 2B1, 2B2, 2B3	YES	NO	NO
1006: ALBION SANDY LOAM, 3 TO 7 PERCENT SLOPES, ERODED	ALBION	No	paleoterrace	---	---	---	---
1011: ALBION-SHELLABARGER SANDY LOAMS, 1 TO 3 PERCENT SLOPES	ALBION	No	paleoterrace	---	---	---	---
	SHELLABARGER Unnamed Wet Soils	No Yes	paleoterrace drainageway	2A, 2B1, 2B2, 2B3	YES	NO	NO
1017: ALBION AND SHELLABARGER SANDY LOAMS, 7 TO 15 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
	ALBION CLARK Unnamed Wet Soils	No No Yes	paleoterrace paleoterrace drainageway	2A, 2B1, 2B3, 2B2	YES	NO	NO
1061: ARENTS, EARTHEN DAM	ARENTS, EARTHEN DAM	Unranked	---	---	---	---	---
1359: CLARK-OST LOAMS, 3 TO 7 PERCENT SLOPES	CLARK	No	paleoterrace	---	---	---	---
	OST Unnamed Wet Soils	No Yes	paleoterrace drainageway	2A, 2B1, 2B3, 2B2	YES	NO	NO
1555: DILLHUT-PLEV COMPLEX, 0 TO 2 PERCENT SLOPES	DILLHUT	No	dune, paleoterrace	---	---	---	---
	PLEV	Yes	depression, interdune, paleoterrace	2B2	YES	NO	NO
	DILLWYN	No	interdune, dune, paleoterrace	---	---	---	---
	WARNUT	Yes	interdune, depression, paleoterrace	3, 2B3	YES	NO	YES
1728: FUNMAR AND FARNUM LOAMS, 3 TO 6 PERCENT SLOPES	FARNUM	No	paleoterrace	---	---	---	---
	FUNMAR	No	paleoterrace	---	---	---	---
	NARON	No	dune, paleoterrace	---	---	---	---
	CARBIKA	Yes	depression, interdune, paleoterrace	2B3, 3	YES	NO	YES
	CARWAY	Yes	depression, interdune, paleoterrace	3, 2B3	YES	NO	YES
2205: JAMASH-PIEDMONT CLAY LOAMS, 1 TO 3 PERCENT SLOPES	JAMASH	No	pediment	---	---	---	---
	PIEDMONT Unnamed Wet Soils	No Yes	pediment drainageway	2B3, 4	YES	YES	NO
2381: KANZA-NINNESCAH SANDY LOAMS, 0 TO 2 PERCENT SLOPES, COMMONLY FLOODED	KANZA	Yes	flood plain	2B3	YES	NO	NO
	NINNESCAH	Yes	flood plain	2B3	YES	NO	NO
2390: KASKAN LOAM, 0 TO 1 PERCENT, RARELY FLOODED	KASKAN	No	flood plain	---	---	---	---
	TOBIN	No	flood plain	---	---	---	---

HYDRIC SOIL INTERPRETATIONS  
HYDRIC SOILS LIST  
Kingman County, Kansas

PAGE 5 of 9

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Map symbol and map unit name	Component	Hydric	Local landform	Hydric soils criteria			
				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
2556: LANGDON FINE SAND, 0 TO 15 PERCENT SLOPES	LANGDON	No	dune,	---	---	---	---
	TIVIN	No	paleoterrace dune,	---	---	---	---
	TURON	No	paleoterrace dune,	---	---	---	---
	CARWAY	Yes	paleoterrace depression, interdune,	2B3,3	YES	NO	YES
	WARNUT	Yes	paleoterrace interdune, depression, paleoterrace	2B3,3	YES	NO	YES
2812: MAHONE LOAMY FINE SAND, 0 TO 2 PERCENT SLOPES, RARELY FLOODED	MAHONE	No	flood plain	---	---	---	---
	YAGGY	No	flood plain	---	---	---	---
2948: NALIM LOAM, 0 TO 1 PERCENT SLOPES	NALIM	No	paleoterrace	---	---	---	---
	FARNUM Unnamed Wet Soils	No	paleoterrace depression	---	---	---	---
		Yes		2B3,3	YES	NO	YES
3051: OST LOAM, 0 TO 1 PERCENT SLOPES	OST	No	paleoterrace	---	---	---	---
	CLARK Unnamed Wet Soils	No	paleoterrace depression	---	---	---	---
3052: OST-CLARK LOAMS, 1 TO 3 PERCENT SLOPES		Yes		2A,2B3,3	YES	NO	YES
	OST	No	paleoterrace	---	---	---	---
	CLARK Unnamed Wet Soils	No	paleoterrace drainageway	---	---	---	---
3170: PENALOSA SILT LOAM, 0 TO 1 PERCENT SLOPES		Yes		2A,2B1,2B2	YES	NO	NO
	PENALOSA	No	paleoterrace	---	---	---	---
3171: PENALOSA SILT LOAM, 1 TO 3 PERCENT SLOPES	CARBIKA	Yes	depression, interdune, paleoterrace	2B3,3	YES	NO	YES
	PENALOSA	No	paleoterrace	---	---	---	---
3180: PRATT FINE SAND, 5 TO 10 PERCENT SLOPES	Unnamed Wet Soils	Yes	drainageway	2B3,3	YES	NO	YES
	PRATT	No	dune,	---	---	---	---
3181: PRATT-TURON FINE SAND, 1 TO 5 PERCENT SLOPES	ATTICA	No	paleoterrace dune,	---	---	---	---
		No	paleoterrace dune,	---	---	---	---
3445: SHELLABARGER SANDY LOAM, 3 TO 7 PERCENT SLOPES	PRATT	No	dune,	---	---	---	---
	TURON	No	paleoterrace dune,	---	---	---	---
	HAYES	No	paleoterrace dune,	---	---	---	---
	CARWAY	Yes	paleoterrace depression, interdune,	3,2B3	YES	NO	YES
	WARNUT	Yes	paleoterrace interdune, depression, paleoterrace	3,2B3	YES	NO	YES
3510: SALTCREEK-FUNMAR-FARNUM COMPLEX, 1 TO 3 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
	SALTCREEK	No	dune,	---	---	---	---
		No	paleoterrace paleoterrace	---	---	---	---
	FUNMAR FARNUM CARBIKA	No	paleoterrace depression, interdune,	---	---	---	---
		Yes		2B3,3	YES	NO	YES
	CARWAY	Yes	paleoterrace depression, interdune, paleoterrace	3,2B3	YES	NO	YES

HYDRIC SOIL INTERPRETATIONS  
HYDRIC SOILS LIST  
Kingman County, Kansas

PAGE 6 of 9

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Map symbol and map unit name	Component	Hydric	Local landform	Hydric soils criteria			
				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3530: SHELLABARGER, ERODED AND ALBION SOILS, 7 TO 15 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
	ALBION	No	paleoterrace	---	---	---	---
	CLARK	No	paleoterrace	---	---	---	---
	Unnamed Wet Soils	Yes	drainageway	2A, 2B1, 2B3, 2B2	YES	NO	NO
3531: SHELLABARGER AND NALIM SOILS, 3 TO 7 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
	NALIM	No	paleoterrace	---	---	---	---
3532: SHELLABARGER LOAMY SAND, 0 TO 3 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
	ALBION	No	paleoterrace	---	---	---	---
3533: SHELLABARGER SANDY LOAM, 0 TO 1 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
	NALIM	No	paleoterrace	---	---	---	---
	Unnamed Wet Soils	Yes	depression	2A, 2B3, 3	YES	NO	YES
3534: SHELLABARGER SANDY LOAM, 1 TO 3 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
	ALBION	No	paleoterrace	---	---	---	---
	Unnamed Wet Soils	Yes	drainageway	2A, 2B3	YES	NO	NO
3535: SHELLABARGER-NALIM COMPLEX, 1 TO 3 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
	NALIM	No	paleoterrace	---	---	---	---
	Unnamed Wet Soils	Yes	depression, drainageway	2A, 3, 2B3, 4	YES	YES	YES
3926: WATER	WATER	Yes	---	4, 3	NO	YES	YES
3966: WILLOWBROOK FINE SANDY LOAM, 0 TO 1 PERCENT SLOPE, OCCASIONALLY FLOODED	WILLOWBROOK	No	flood plain	---	---	---	---
	NICKERSON	No	terrace	---	---	---	---
	KANZA	Yes	flood plain	2B3	YES	NO	NO
	NINNESCAH	Yes	flood plain	2B3	YES	NO	NO
4005: YAGGY-SAXMAN COMPLEX, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	YAGGY	No	flood plain	---	---	---	---
	SAXMAN	No	flood plain	---	---	---	---
	SOLVAY	No	interdune, paleoterrace	---	---	---	---
	KANZA	Yes	flood plain	2B3	YES	NO	NO
	NINNESCAH	Yes	flood plain	2B3	YES	NO	NO
4110: ZELLMONT AND POXMASH SANDY LOAMS, 0 TO 3 PERCENT SLOPES	ZELLMONT	No	strath terrace	---	---	---	---
	POXMASH	No	strath terrace	---	---	---	---
	Unnamed Wet Soils	Yes	drainageway	2A, 2B1, 2B2, 2B3	YES	NO	NO
Aa: ALBION SANDY LOAM, 0 TO 1 PERCENT SLOPES	ALBION	No	paleoterrace	---	---	---	---
Ab: ALBION SANDY LOAM, 1 TO 3 PERCENT SLOPES	ALBION	No	paleoterrace	---	---	---	---
Ac: ALBION SANDY LOAM, 3 TO 6 PERCENT SLOPES	ALBION	No	paleoterrace	---	---	---	---
Ad: ALBION SANDY LOAM, 6 TO 15 PERCENT SLOPES	ALBION	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	depression	2B3, 2B2, 2A, 4	YES	YES	NO
AED: ARENTS, EARTHEN DAM	ARENTS, EARTHEN DAM	---	---	---	---	---	---

HYDRIC SOIL INTERPRETATIONS  
HYDRIC SOILS LIST  
Kingman County, Kansas

PAGE 7 of 9

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Map symbol and map unit name	Component	Hydric	Local landform	Hydric soils criteria			
				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
Ba: BLANKET SILT LOAM, 0 TO 1 PERCENT SLOPES	BLANKET	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	depression	2A,3,2B3	YES	NO	YES
Bb: BLANKET SILT LOAM, 1 TO 3 PERCENT SLOPES	BLANKET	No	paleoterrace	---	---	---	---
Bc: BLANKET SILTY CLAY LOAM, 1 TO 4 PERCENT SLOPES, ERODED	BLANKET	No	paleoterrace	---	---	---	---
Ca: CANADIAN FINE SANDY LOAM, RARELY FLOODED	CANADIAN	No	flood plain	---	---	---	---
Cb: CARWILE FINE SANDY LOAM, 0 TO 1 PERCENT SLOPES	CARWILE	Yes	depression, paleoterrace	2A	YES	NO	NO
	Unnamed wet soils	Yes	depression	2B3,2A,3	YES	NO	YES
Cc: CASE-CLARK CLAY LOAMS, 2 TO 6 PERCENT SLOPES	CASE	No	paleoterrace	---	---	---	---
	CLARK	No	paleoterrace	---	---	---	---
Cd: CASE-CLARK CLAY LOAMS, 6 TO 15 PERCENT SLOPES	CASE	No	paleoterrace	---	---	---	---
	CLARK	No	paleoterrace	---	---	---	---
Ce: CLARK CLAY LOAM, 0 TO 1 PERCENT SLOPES	CLARK	No	paleoterrace	---	---	---	---
Cf: CLARK CLAY LOAM, 1 TO 4 PERCENT SLOPES	CLARK	No	paleoterrace	---	---	---	---
Da: DILLWYN-PLEVNA COMPLEX, OCCASIONALLY FLOODED	DILLWYN	No	interdune, dune, paleoterrace	---	---	---	---
	PLEVNA	Yes	flood plain	2B3,4	YES	YES	NO
	Unnamed wet soils	Yes	depression	3,2A,2B3	YES	NO	YES
Fa: FARNUM SANDY LOAM, 0 TO 2 PERCENT SLOPES	FARNUM	No	paleoterrace	---	---	---	---
	CARWILE	Yes	depression, paleoterrace	2A	YES	NO	NO
	Unnamed wet soils	Yes	depression	2B3,2A,3	YES	NO	YES
Fb: FARNUM LOAM, 0 TO 1 PERCENT SLOPES	FARNUM	No	paleoterrace	---	---	---	---
	CARWILE	Yes	depression, paleoterrace	2A	YES	NO	NO
	Unnamed wet soils	Yes	depression	2A,3,2B3	YES	NO	YES
Fc: FARNUM LOAM, 1 TO 3 PERCENT SLOPES	FARNUM	No	paleoterrace	---	---	---	---
Fd: FARNUM LOAM, 3 TO 6 PERCENT SLOPES	FARNUM	No	paleoterrace	---	---	---	---
Fe: FARNUM CLAY LOAM, 2 TO 6 PERCENT SLOPES, ERODED	FARNUM	No	paleoterrace	---	---	---	---
Ff: FARNUM-NATRUSTOLLS COMPLEX, 0 TO 1 PERCENT SLOPES	FARNUM	No	paleoterrace	---	---	---	---
	NATRUSTOLLS	No	---	---	---	---	---
	Unnamed wet soils	Yes	depression	2A,3,2B3	YES	NO	YES
Ka: KASKI LOAM, OCCASIONALLY FLOODED	KASKI	No	flood plain	---	---	---	---
	Unnamed wet soils	Yes	depression	2A,2B3	YES	NO	NO
Kb: KINGMAN SILTY CLAY LOAM, OCCASIONALLY FLOODED	KINGMAN	Yes	flood plain	2B3	YES	NO	NO

HYDRIC SOIL INTERPRETATIONS  
HYDRIC SOILS LIST  
Kingman County, Kansas

PAGE 8 of 9

All mapunits are displayed regardless of hydric status and are listed in alpha-numeric order by mapunit symbol. The "Hydric Soils Criteria" columns indicate the conditions that caused the mapunit component to be classified as "Hydric" or "Non-Hydric". These criteria are defined in "Hydric Soils of the United States" (USDA Miscellaneous Publication No. 1491, June, 1991). See the "Criteria for Hydric Soils" endnote to determine the meaning of these columns. Spot symbols are footnoted at the end of the table.

Map symbol and map unit name	Component	Hydric	Local landform	Hydric soils criteria			
				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
La: LINCOLN LOAMY SAND, OCCASIONALLY FLOODED	LINCOLN	No	flood plain	---	---	---	---
	Unnamed wet soils	Yes	drainageway	2A,2B3,2B2	YES	NO	NO
Ma: MCLAIN SILT LOAM, RARELY FLOODED	MCLAIN	No	flood plain	---	---	---	---
	Unnamed wet soils	Yes	depression	2B3,3,2A	YES	NO	YES
Na: NASHVILLE SILT LOAM, 1 TO 3 PERCENT SLOPES	NASHVILLE	No	hillslope	---	---	---	---
Nb: NASHVILLE-QUINLAN COMPLEX, 5 TO 15 PERCENT SLOPES	NASHVILLE	No	hillslope	---	---	---	---
	QUINLAN Unnamed wet soils	No Yes	hillslope depression	---	---	---	---
Oa: WELLSFORD CLAY LOAM, 1 TO 4 PERCENT SLOPES	OWENS	No	hillslope	---	---	---	---
Pa: POND CREEK SILT LOAM, 1 TO 3 PERCENT SLOPES	POND CREEK	No	terrace	---	---	---	---
Pb: PRATT LOAMY FINE SAND, 1 TO 5 PERCENT SLOPES	PRATT	No	dune, paleoterrace	---	---	---	---
	CARWILE	Yes	depression, paleoterrace	2A	YES	NO	NO
	Unnamed wet soils	Yes	depression	3,2A,2B3	YES	NO	YES
Pc: PRATT-CARWILE COMPLEX, 0 TO 5 PERCENT SLOPES	PRATT	No	dune, paleoterrace	---	---	---	---
	CARWILE	Yes	depression, paleoterrace	2A	YES	NO	NO
	Unnamed wet soils	Yes	depression	2A,2B3,3	YES	NO	YES
Pd: PRATT-TIVOLI LOAMY FINE SANDS, 5 TO 15 PERCENT SLOPES	PRATT	No	dune, paleoterrace	---	---	---	---
	TIVOLI	No	dune, paleoterrace	---	---	---	---
	CARWILE	Yes	depression, paleoterrace	3,2A	YES	NO	YES
	Unnamed wet soils	Yes	depression	2A,2B3,3	YES	NO	YES
Qa: QUINLAN LOAM, 1 TO 3 PERCENT SLOPES	QUINLAN	No	hillslope	---	---	---	---
Qb: QUINLAN LOAM, 3 TO 5 PERCENT SLOPES	QUINLAN	No	hillslope	---	---	---	---
	Unnamed wet soils	Yes	drainageway	2B3,2A	YES	NO	NO
Ra: RENFROW CLAY LOAM, 1 TO 3 PERCENT SLOPES	RENFROW	No	hillslope	---	---	---	---
Rb: RUELLA CLAY LOAM, 1 TO 4 PERCENT SLOPES	RUELLA	No	hillslope	---	---	---	---
Rc: RUELLA-ROCK OUTCROP COMPLEX, 3 TO 40 PERCENT SLOPES	RUELLA	No	hillslope	---	---	---	---
	ROCK OUTCROP	Unranked	---	---	---	---	---
Sa: SHELLABARGER LOAMY SAND, 0 TO 3 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
Sb: SHELLABARGER SANDY LOAM, 1 TO 3 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	depression	2B3,2A	YES	NO	NO
Sc: SHELLABARGER SANDY LOAM, 3 TO 6 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---

HYDRIC SOIL INTERPRETATIONS  
HYDRIC SOILS LIST  
Kingman County, Kansas

PAGE 9 of 9

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Map symbol and map unit name	Component	Hydric	Local landform	Hydric soils criteria			
				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
Sd: SHELLABARGER SANDY LOAM, 3 TO 6 PERCENT SLOPES, ERODED	SHELLABARGER	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	drainageway	2B3,2A	YES	NO	NO
Ta: TIVOLI FINE SAND, 15 TO 30 PERCENT SLOPES	TIVOLI	No	dune, paleoterrace	---	---	---	---
	PLEVNA	Yes	flood plain	2B3	YES	NO	NO
	Unnamed wet soils	Yes	depression	2B3,2B2,3,2A	YES	NO	YES
W: WATER	WATER	Unranked	---	---	---	---	---
Wa: WALDECK FINE SANDY LOAM, OCCASIONALLY FLOODED	WALDECK	No	flood plain	---	---	---	---
	PLEVNA	Yes	flood plain	2B3	YES	NO	NO
	Unnamed wet soils	Yes	depression	2A,3,4,2B3	YES	YES	YES
Za: ZENDA CLAY LOAM, OCCASIONALLY FLOODED	ZENDA	No	dune, paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	depression	2A,3,2B3	YES	NO	YES

FOOTNOTE: There may be small areas of included soils or miscellaneous areas that are significant to use and management of the soil; yet are too small to delineate on the soil map at the map's original scale. These may be designated as spot symbols and are defined in the published Soil Survey Report or the USDA-NRCS Technical Guide, Part II.  
Areas mapped as water or any map unit that contains one of the following conventional symbols is considered a hydric soil map unit: marshes or swamps; wet spots; depressions; streams, lakes and ponds.

1. All Histosols except Folists, or
2. Soils in Aquic suborders, great groups, or subgroups, Albolls suborder, Aquisalids, Pachic subgroups, or Cumulic subgroups that are:
  - a. Somewhat poorly drained with a water table equal to 0.0 foot (ft) from the surface during the growing season, or
  - b. poorly drained or very poorly drained and have either:
    - (1) water table equal to 0.0 ft during the growing season if textures are coarse sand, sand, or fine sand in all layers within 20 inches (in),  
or for other soils
    - (2) water table at less than or equal to 0.5 ft from the surface during the growing season if permeability is equal to or greater than 6.0 in/hour (h) in all layers within 20 in, or
    - (3) water table at less than or equal to 1.0 ft from the surface during the growing season if permeability is less than 6.0 in/h in any layer within 20 in, or
3. Soils that are frequently ponded for long duration or very long duration during the growing season, or
4. Soils that are frequently flooded for long duration or very long duration during the growing season.

