

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.

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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
015LS: LADYSMITH SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES	LADYSMITH	No	ridge	---	---	---	---
079CR: CRETE SILT LOAM, 0 TO 1 PERCENT SLOPES	Unnamed wet soils	Yes	drainageway	2A,3,4,2B3	YES	YES	YES
	CRETE	No	---	---	---	---	---
079CT: CRETE SILT LOAM, 1 TO 3 PERCENT SLOPES	CRETE	No	hillslope	---	---	---	---
	Unnamed Wet Soils	Yes	depression	2A,3,2B3	YES	NO	YES
079DE: DETROIT SILTY CLAY LOAM, RARELY FLOODED	DETROIT	No	flood plain	---	---	---	---
079DU: DRUMMOND COMPLEX, 0 TO 1 PERCENT SLOPES	DRUMMOND	No	terrace	---	---	---	---
	CARWILE	Yes	depression, paleoterrace	2A	YES	NO	NO
	UNNAMED HYDRIC SOILS	Yes	drainageway	3,2B3,2A	YES	NO	YES
079FA: FARNUM FINE SANDY 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
079FE: FARNUM LOAM, 3 TO 6 PERCENT SLOPES	FARNUM	No	paleoterrace	---	---	---	---
079GD: GEARY SILT LOAM, 1 TO 3 PERCENT SLOPES	GEARY	No	hillslope	---	---	---	---
079KA: KASKI LOAM, OCCASIONALLY FLOODED	KASKI	No	flood plain	---	---	---	---
	Unnamed wet soils	Yes	drainageway	2A,2B3	YES	NO	NO
079LA: LADYSMITH SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES	LADYSMITH	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	drainageway	2A,3,4,2B3	YES	YES	YES
079LB: LADYSMITH SILTY CLAY LOAM, 1 TO 2 PERCENT SLOPES	LADYSMITH	No	paleoterrace	---	---	---	---
	UNNAMED HYDRIC SOILS	Yes	drainageway	2A,3,2B3	YES	NO	YES
079SM: SMOLAN SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES	SMOLAN	No	hillslope	---	---	---	---
	LABETTE	No	hillslope	---	---	---	---
	NORGE	No	hillslope	---	---	---	---
095AD: ALBION SANDY LOAM, 6 TO 15 PERCENT SLOPES	ALBION	No	paleoterrace	---	---	---	---
095LA: LINCOLN LOAMY SAND, OCCASIONALLY FLOODED	LINCOLN	No	flood plain	---	---	---	---
	Unnamed wet soils	Yes	drainageway	2A,2B3,2B2	YES	NO	NO
095WA: WALDECK FINE SANDY LOAM, OCCASIONALLY FLOODED	WALDECK	No	flood plain	---	---	---	---
	Unnamed wet soils	Yes	depression	3,2A,2B3	YES	NO	YES
191BA: BETHANY SILT LOAM, 0 TO 1 PERCENT SLOPES	BETHANY	No	paleoterrace	---	---	---	---
191BB: BETHANY SILT LOAM, 1 TO 3 PERCENT SLOPES	BETHANY	No	paleoterrace	---	---	---	---
191DR: DALE AND REINACH SILT LOAMS, RARELY FLOODED	DALE	No	flood plain	---	---	---	---
	REINACH	No	---	---	---	---	---

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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
191EA: ELANDCO SILTY CLAY LOAM, RARELY FLOODED	ELANDCO	No	flood plain	---	---	---	---
	UNNAMED HYDRIC SOILS	Yes	drainageway	3,2A	YES	NO	YES
	Unnamed wet soils	Yes	drainageway	2A,2B3,4	YES	YES	NO
191LO: LESHO CLAY LOAM, OCCASIONALLY FLOODED	LESHO	No	flood plain	---	---	---	---
	Unnamed wet soils	Yes	drainageway	2A,2B3	YES	NO	NO
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
1070: AVANS LOAM, 0 TO 1 PERCENT SLOPES	AVANS	No	paleoterrace	---	---	---	---
	Unnamed Wet Soils	Yes	depression, drainageway	2A,3,2B3	YES	NO	YES
1071: AVANS LOAM, 1 TO 3 PERCENT SLOPES	AVANS	No	paleoterrace	---	---	---	---
	OST Unnamed Wet Soils	No Yes	paleoterrace depression, drainageway	2A,3,2B3	YES	NO	YES
1072: AVANS LOAM, 3 TO 7 PERCENT SLOPES	AVANS	No	paleoterrace	---	---	---	---
	OST Unnamed Wet Soils	No Yes	paleoterrace drainageway	2A,3,2B3,4	YES	YES	YES
2204: JAMASH-PIEDMONT CLAY LOAMS, 0 TO 1 PERCENT SLOPES	JAMASH	No	pediment	---	---	---	---
	PIEDMONT Unnamed Wet Soils	No Yes	pediment drainageway	2B3,4	YES	YES	NO
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
2207: JAMASH CLAY LOAM, 0 TO 8 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
2587: IMANO CLAY LOAM, 0 TO 1 PERCENT SLOPES, OCCASIONALLY FLOODED	IMANO	No	flood plain	---	---	---	---
	WILLOWBROOK	No	flood plain	---	---	---	---
	KANZA NINNESCAH	Yes Yes	flood plain flood plain	2B3 2B3	YES YES	NO NO	NO NO
2948: NALIM LOAM, 0 TO 1 PERCENT SLOPES	NALIM	No	paleoterrace	---	---	---	---
	FARNUM Unnamed Wet Soils	No Yes	paleoterrace depression	2B3,3	YES	NO	YES
3052: OST-CLARK LOAMS, 1 TO 3 PERCENT SLOPES	OST	No	paleoterrace	---	---	---	---
	CLARK Unnamed Wet Soils	No Yes	paleoterrace drainageway	2A,2B1,2B2	YES	NO	NO

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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
3170: PENALOSA SILT LOAM, 0 TO 1 PERCENT SLOPES	PENALOSA	No	paleoterrace	---	---	---	---
	CARBIKA	Yes	depression, interdune, paleoterrace	3,2B3	YES	NO	YES
3171: PENALOSA SILT LOAM, 1 TO 3 PERCENT SLOPES	PENALOSA	No	paleoterrace	---	---	---	---
	Unnamed Wet Soils	Yes	drainageway	2B3,3	YES	NO	YES
3535: SHELLABARGER-NALIM COMPLEX, 1 TO 3 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
	NALIM Unnamed Wet Soils	Yes	paleoterrace depression, drainageway	2A,3,2B3,4	YES	YES	YES
3639: TAVER LOAM, 0 TO 1 PERCENT SLOPES	TAVER	No	paleoterrace	---	---	---	---
	SALTCREEK	No	dune, paleoterrace	---	---	---	---
	CARBIKA	Yes	depression, interdune, paleoterrace	2B3,3	YES	NO	YES
3966: WILLOWBROOK FINE SANDY LOAM, 0 TO 1 PERCENT SLOPES, 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
4004: YAGGY FINE SANDY LOAM, 0 TO 1 PERCENT SLOPES	YAGGY	No	flood plain	---	---	---	---
	IMANO	No	flood plain	---	---	---	---
	KANZA	Yes	flood plain	2B3	YES	NO	NO
	NINNESCAH	Yes	flood plain	2B3	YES	NO	NO
Aa: ALBION-SHELLABARGER SANDY LOAMS, 1 TO 4 PERCENT SLOPES	ALBION	No	paleoterrace	---	---	---	---
	SHELLABARGER Unnamed wet soils	Yes	paleoterrace drainageway	2A,2B3	YES	NO	NO
Ab: ALBION AND SHELLABARGER SANDY LOAMS, 7 TO 15 PERCENT SLOPES	ALBION	No	paleoterrace	---	---	---	---
	SHELLABARGER Unnamed wet soils	Yes	paleoterrace drainageway	2A,2B3	YES	NO	NO
AED: ARENTS, EARTHEN DAM	ARENTS, EARTHEN DAM	Unranked	---	---	---	---	---
Ba: BLANKET SILT LOAM, 0 TO 1 PERCENT SLOPES	BLANKET	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	depression	3,2A,2B3,4	YES	YES	YES
Bb: BLANKET SILT LOAM, 1 TO 3 PERCENT SLOPES	BLANKET	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	drainageway	2A,2B3,4,3	YES	YES	YES
BRR: BREWER SILTY CLAY LOAM, RARELY FLOODED	BREWER	No	flood plain	---	---	---	---
	OSAGE VERDIGRIS	Yes No	flood plain flood plain	2B3 ---	YES ---	NO ---	NO ---
Ca: CANADIAN FINE SANDY LOAM, RARELY FLOODED	CANADIAN	No	flood plain	---	---	---	---
	Unnamed wet soils	Yes	depression	2A,2B3,4	YES	YES	NO

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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
Cb: CANADIAN-WALDECK FINE SANDY LOAMS, RARELY FLOODED	CANADIAN	No	flood plain	---	---	---	---
	WALDECK Unnamed wet soils	No Yes	flood plain drainageway	--- 2B3,4,2A	--- YES	--- YES	--- NO
Cc: 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
Cd: CLARK-OST CLAY LOAMS, 1 TO 4 PERCENT SLOPES	CLARK	No	paleoterrace	---	---	---	---
	OST	No	paleoterrace	---	---	---	---
Ce: CLIME SILTY CLAY, 3 TO 6 PERCENT SLOPES	CLIME	No	hillslope	---	---	---	---
	UNNAMED HYDRIC SOILS	Yes	drainageway	2A,3	YES	NO	YES
	Unnamed wet soils	Yes	depression	2B3,2A,3	YES	NO	YES
Ea: ELANDCO SILT LOAM, RARELY FLOODED	ELANDCO	No	flood plain	---	---	---	---
	UNNAMED HYDRIC SOILS	Yes	depression	2A,3	YES	NO	YES
	Unnamed wet soils	Yes	drainageway	2A,2B3,4	YES	YES	NO
Eb: ELANDCO SILT LOAM, OCCASIONALLY FLOODED	ELANDCO	No	flood plain	---	---	---	---
	Unnamed wet soils	Yes	drainageway	3,2B3,4,2A	YES	YES	YES
Ec: ELANDCO SILT LOAM, FREQUENTLY FLOODED	ELANDCO	No	flood plain	---	---	---	---
	Unnamed wet soils	Yes	drainageway	2A,2B3,3,4	YES	YES	YES
Fa: FARNUM LOAM, 0 TO 1 PERCENT SLOPES	FARNUM	No	paleoterrace	---	---	---	---
	CARWILE	Yes	depression, paleoterrace	2A	YES	NO	NO
	Unnamed wet soils	Yes	depression	2A,2B3,3,4	YES	YES	YES
Fb: FARNUM LOAM, 1 TO 3 PERCENT SLOPES	FARNUM	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	depression	2A,2B3,3,4	YES	YES	YES
Fc: FARNUM LOAM, SANDY SUBSTRATUM, 0 TO 1 PERCENT SLOPES	FARNUM	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	depression	2A,2B3,3,4	YES	YES	YES
Ga: GOESSEL SILTY CLAY, 0 TO 1 PERCENT SLOPES	GOESSEL	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	depression	2B3,3	YES	NO	YES
Gb: GOESSEL SILTY CLAY, 1 TO 2 PERCENT SLOPES	GOESSEL	No	paleoterrace	---	---	---	---
Ia: IRWIN SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES	IRWIN	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	drainageway	2B3,4	YES	YES	NO
Ib: IRWIN SILTY CLAY LOAM, 3 TO 6 PERCENT SLOPES	IRWIN	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	drainageway	2A,2B3	YES	NO	NO
Ic: IRWIN SILTY CLAY LOAM, 2 TO 6 PERCENT SLOPES, ERODED	IRWIN	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	drainageway	2A,2B3	YES	NO	NO

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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
INT: AQUOLLS	AQUOLLS	Yes	depression, terrace	2B3,3	YES	NO	YES
KAA: KASKI LOAM, OCCASIONALLY FLOODED	KASKI	No	flood plain	---	---	---	---
	Unnamed wet soils	Yes	drainageway	2A,2B3	YES	NO	NO
La: LESHO LOAM, OCCASIONALLY FLOODED	LESHO	No	flood plain	---	---	---	---
	PLEVNA	Yes	flood plain	2B3	YES	NO	NO
	UNNAMED HYDRIC SOILS	Yes	drainageway	2B3,4,3	YES	YES	YES
Lb: LINCOLN SOILS, FREQUENTLY FLOODED	LINCOLN	No	flood plain	---	---	---	---
	PLEVNA	Yes	flood plain	2B3	YES	NO	NO
	UNNAMED HYDRIC SOILS	Yes	depression	3,2B3	YES	NO	YES
	Unnamed wet soils	Yes	drainageway	4,2B3,3	YES	YES	YES
M-W: MISCELLANEOUS WATER	MISCELLANEOUS WATER	Unranked	---	---	---	---	---
Ma: MILAN LOAM, 1 TO 3 PERCENT SLOPES	MILAN	No	paleoterrace	---	---	---	---
Mb: MILAN LOAM, 3 TO 6 PERCENT SLOPES	MILAN	No	paleoterrace	---	---	---	---
Mc: MILAN CLAY LOAM, 2 TO 6 PERCENT SLOPES, ERODED	MILAN	No	paleoterrace	---	---	---	---
Na: NARON FINE SANDY LOAM, 0 TO 2 PERCENT SLOPES	NARON	No	dune, paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	drainageway	2B3,4,2A	YES	YES	NO
Oc: WELLSFORD CLAY LOAM, 1 TO 3 PERCENT SLOPES	WELLSFORD	No	pediment	---	---	---	---
Od: WELLSFORD-ROCK OUTCROP COMPLEX, 3 TO 10 PERCENT SLOPES	WELLSFORD	No	pediment	---	---	---	---
	ROCK OUTCROP	Unranked	---	---	---	---	---
	Unnamed wet soils	Yes	drainageway	2B3,4,2A	YES	YES	NO
Pa: PITS	PITS	No	---	---	---	---	---
Pb: PLEVNA FINE SANDY LOAM, FREQUENTLY FLOODED	PLEVNA	Yes	flood plain	2B3,4	YES	YES	NO
	Unnamed wet soils	Yes	drainageway	2A,2B3,3	YES	NO	YES
Pc: 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	2A,2B3,3,2B2	YES	NO	YES
Pd: PRATT-TIVOLI COMPLEX, 5 TO 30 PERCENT SLOPES	PRATT	No	dune, paleoterrace	---	---	---	---
	TIVOLI	No	dune, paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	depression	2A,2B2,2B3,3	YES	NO	YES
Ra: RENFROW SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES	RENFROW	No	hillslope	---	---	---	---
Rb: RENFROW SILTY CLAY LOAM, 3 TO 6 PERCENT SLOPES	RENFROW	No	hillslope	---	---	---	---

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				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
Rc: RENFROW-WELLSFORD CLAY LOAMS, 1 TO 4 PERCENT SLOPES	RENFROW	No	hillslope	---	---	---	---
	WELLSFORD	No	pediment	---	---	---	---
Rd: ROSEHILL SILTY CLAY, 1 TO 3 PERCENT SLOPES	ROSEHILL	No	hillslope	---	---	---	---
Sa: SHELLABARGER SANDY LOAM, 1 TO 3 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
Sb: SHELLABARGER SANDY LOAM, 3 TO 6 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
Sc: SHELLABARGER SANDY LOAM, 3 TO 6 PERCENT SLOPES, ERODED	SHELLABARGER	No	paleoterrace	---	---	---	---
Ta: TABLER SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES	TABLER	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	drainageway	3, 2B3, 4, 2A	YES	YES	YES
Tb: TABLER-DRUMMOND COMPLEX, 0 TO 1 PERCENT SLOPES	TABLER	No	paleoterrace	---	---	---	---
	DRUMMOND CARWILE	No Yes	terrace depression, paleoterrace	--- 2A	--- YES	--- NO	--- NO
	Unnamed wet soils	Yes	drainageway	2B3, 4, 3	YES	YES	YES
Ua: URBAN LAND-CANADIAN COMPLEX, 0 TO 3 PERCENT SLOPES	URBAN LAND	Unranked	---	---	---	---	---
	CANADIAN	No	flood plain	---	---	---	---
Ub: URBAN LAND-ELANDCO COMPLEX, 0 TO 1 PERCENT SLOPES	URBAN LAND	Unranked	---	---	---	---	---
	ELANDCO	No	flood plain	---	---	---	---
Uc: URBAN LAND-FARNUM COMPLEX, 0 TO 3 PERCENT SLOPES	URBAN LAND	Unranked	---	---	---	---	---
	FARNUM	No	paleoterrace	---	---	---	---
Ud: URBAN LAND-IRWIN COMPLEX, 1 TO 3 PERCENT SLOPES	URBAN LAND	Unranked	---	---	---	---	---
	IRWIN	No	paleoterrace	---	---	---	---
Ue: URBAN LAND-TABLER COMPLEX, 0 TO 1 PERCENT SLOPES	URBAN LAND	Unranked	---	---	---	---	---
	TABLER	No	paleoterrace	---	---	---	---
Va: VANOSS SILT LOAM, 0 TO 1 PERCENT SLOPES	VANOSS	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	drainageway	2A, 2B3, 4, 3	YES	YES	YES
Vb: VANOSS SILT LOAM, 1 TO 3 PERCENT SLOPES	VANOSS	No	paleoterrace	---	---	---	---
Vc: VANOSS SILT LOAM, 3 TO 6 PERCENT SLOPES	VANOSS	No	paleoterrace	---	---	---	---
Vd: VANOSS SILT LOAM, 3 TO 6 PERCENT SLOPES, ERODED	VANOSS	No	paleoterrace	---	---	---	---
Ve: VERNON SANDY LOAM, 1 TO 3 PERCENT SLOPES	VERNON	No	hillslope	---	---	---	---
Vf: VERNON SANDY LOAM, 3 TO 6 PERCENT SLOPES	VERNON	No	hillslope	---	---	---	---
W: WATER	WATER	Yes	---	4, 3	NO	YES	YES

HYDRIC SOIL INTERPRETATIONS  
HYDRIC SOILS LIST  
Sedgwick County, Kansas

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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
Wa: WALDECK SANDY LOAM, OCCASIONALLY FLOODED	WALDECK	No	flood plain	---	---	---	---
	PLEVNA	Yes	flood plain	2B3	YES	NO	NO
	Unnamed wet soils	Yes	depression	3,2B3	YES	NO	YES
	WLAURIKA	No	depression,	---	---	---	---
Wb: WAURIKA SILT LOAM, 0 TO 1 PERCENT SLOPES	WLAURIKA	No	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.



