

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
005PD: PAWNEE CLAY, 3 TO 7 PERCENT SLOPES, ERODED	PAWNEE	No	hillslope	---	---	---	---
	KENNEBEC SHELBY	No	flood plain hillslope	---	---	---	---
005SS: SHELBY-STEINAUER LOAMS, 12 TO 25 PERCENT SLOPES	SHELBY	No	hillslope	---	---	---	---
	STEINAUER KENNEBEC VINLAND	No	hillslope flood plain hillslope	---	---	---	---
005VS: VINLAND SILTY CLAY LOAM, 4 TO 15 PERCENT SLOPES	VINLAND	No	hillslope	---	---	---	---
	ROCK OUTCROP MARTIN PAWNEE	No	hillslope hillslope hillslope	---	---	---	---
013BS: BURCHARD CLAY LOAM, 6 TO 12 PERCENT SLOPES	BURCHARD	No	hillslope	---	---	---	---
	PAWNEE STEINAUER	No	hillslope hillslope	---	---	---	---
013BX: BURCHARD-STEINAUER CLAY LOAMS, 12 TO 18 PERCENT SLOPES	BURCHARD	No	hillslope	---	---	---	---
	STEINAUER PADONIA	No	hillslope hillslope	---	---	---	---
013MF: MARTIN SILTY CLAY LOAM, 4 TO 12 PERCENT SLOPES	MARTIN	No	hillslope	---	---	---	---
	PADONIA VINLAND	No	hillslope hillslope	---	---	---	---
013MY: MUSCOTAH SILTY CLAY LOAM, OCCASIONALLY FLOODED	MUSCOTAH	No	flood plain	---	---	---	---
	KENNEBEC WABASH CHASE	No	flood plain flood plain flood plain	2B3 ---	YES ---	NO ---	NO ---
013PN: PAWNEE CLAY LOAM, 6 TO 12 PERCENT SLOPES	PAWNEE	No	hillslope	---	---	---	---
	MORRILL KENNEBEC OLMITZ	No	hillslope flood plain fan terrace	---	---	---	---
013PO: PAWNEE CLAY, 6 TO 12 PERCENT SLOPES, MODERATELY ERODED	PAWNEE	No	hillslope	---	---	---	---
	MAYBERRY KENNEBEC OLMITZ	No	hillslope flood plain fan terrace	---	---	---	---
013WE: WAMEGO SILTY CLAY LOAM, 3 TO 7 PERCENT SLOPES	WAMEGO	No	hillslope	---	---	---	---
	OLMITZ PAWNEE	No	fan terrace hillslope	---	---	---	---
013WG: WAMEGO-VINLAND SILTY CLAY LOAMS, 3 TO 15 PERCENT SLOPES	WAMEGO	No	hillslope	---	---	---	---
	VINLAND PAWNEE	No	hillslope hillslope	---	---	---	---
013WN: WYMORE SILTY CLAY LOAM, 5 TO 9 PERCENT SLOPES	WYMORE	No	hillslope	---	---	---	---
	PAWNEE MAYBERRY KENNEBEC	No	hillslope hillslope flood plain	---	---	---	---
087MO: MARTIN-OSKA SILTY CLAY LOAMS, 3 TO 6 PERCENT SLOPES	MARTIN	No	hillslope	---	---	---	---
	OSKA	No	hillslope	---	---	---	---
	MARTIN SOGN	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---

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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
087SS: SIBLEYVILLE COMPLEX, 3 TO 7 PERCENT SLOPES	SIBLEYVILLE	No	hillslope	---	---	---	---
	SIBLEYVILLE-like	No	hillslope	---	---	---	---
	SIBLEYVILLE-like	No	hillslope	---	---	---	---
	GYMER	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	SHELBY	No	hillslope	---	---	---	---
087SW: SOGN-VINLAND COMPLEX, 5 TO 20 PERCENT SLOPES	VINLAND	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	OSKA	No	hillslope	---	---	---	---
087VC: VINLAND COMPLEX, 3 TO 7 PERCENT SLOPES	SIBLEYVILLE	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	OSKA	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	SHELBY	No	hillslope	---	---	---	---
087VO: VINLAND COMPLEX, 7 TO 15 PERCENT SLOPES	SIBLEYVILLE	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	OSKA	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
131BS: BURCHARD-STEINAUER CLAY LOAMS, 6 TO 12 PERCENT SLOPES	SHELBY	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	BURCHARD	No	hillslope	---	---	---	---
	BURCHARD	No	hillslope	---	---	---	---
	STEINAUER	No	hillslope	---	---	---	---
	KIPSON	No	hillslope	---	---	---	---
131OM: OLMITZ LOAM, 1 TO 5 PERCENT SLOPES	PAWNEE	No	hillslope	---	---	---	---
	WYMORE	No	hillslope	---	---	---	---
	OLMITZ	No	fan terrace	---	---	---	---
	CHASE	No	flood-plain step	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
131ST: STEINAUER CLAY LOAM, 12 TO 25 PERCENT SLOPES	WYMORE	No	hillslope	---	---	---	---
	STEINAUER	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	ROCK OUTCROP	---	hillslope	---	---	---	---
149CE: CHASE SILTY CLAY LOAM, RARELY FLOODED	CHASE	No	terrace	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	READING	No	terrace	---	---	---	---
	WABASH	Yes	terrace	2B3	YES	NO	NO
149CS: CLIME-SOHN SILTY CLAY LOAMS, 5 TO 20 PERCENT SLOPES	CLIME	No	hillslope	---	---	---	---
	SOHN	No	hillslope	---	---	---	---
	ROCK OUTCROP	---	hillslope	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	TULLY	No	hillslope	---	---	---	---
	UNNAMED	Yes	hillslope, marsh	2B3	YES	NO	NO
	HYDRIC SOIL	Yes	marsh	2B3	YES	NO	NO
	UNNAMED	Yes	drainageway, marsh	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
149MO: MORRILL LOAM, 3 TO 7 PERCENT SLOPES	MORRILL	No	hillslope	---	---	---	---
	ORTELO PAWNEE	No No	hillslope hillslope	---	---	---	---
177EL: ELMONT SILT LOAM, 4 TO 7 PERCENT SLOPES	ELMONT	No	hillslope	---	---	---	---
	MARTIN SIBLEYVILLE	No Unranked	hillslope hillslope	---	---	---	---
177KS: KIPSON-SOGRN COMPLEX, 3 TO 25 PERCENT SLOPES	KIPSON	No	hillslope	---	---	---	---
	SOGRN	No	hillslope	---	---	---	---
	ELMONT	No	hillslope	---	---	---	---
	LABETTE	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
177LM: LADYSMITH SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES	LADYSMITH	No	paleoterrace	---	---	---	---
	LABETTE	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
177MF: MARTIN SILTY CLAY LOAM, 7 TO 11 PERCENT SLOPES	MARTIN	No	hillslope	---	---	---	---
	ELMONT	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
177MM: MORRILL CLAY LOAM, 3 TO 8 PERCENT SLOPES	MORRILL	No	hillslope	---	---	---	---
	GYMER	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	SHELBY	No	hillslope	---	---	---	---
177SK: SHELBY CLAY LOAM, 1 TO 3 PERCENT SLOPES	SHELBY	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
177ST: SIBLEYVILLE LOAM, 3 TO 7 PERCENT SLOPES	SIBLEYVILLE	No	hillslope	---	---	---	---
	ELMONT	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
177SV: SOGRN-VINLAND COMPLEX, 3 TO 25 PERCENT SLOPES	SOGRN	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
	ELMONT	No	hillslope	---	---	---	---
	LABETTE	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	ROCK OUTCROP	---	hillslope	---	---	---	---
AED: ARENTS, EARTHEN DAM	ARENTS, EARTHEN DAM	Unranked	---	---	---	---	---
Ba: BURCHARD-SHELBY CLAY LOAMS, 7 TO 12 PERCENT SLOPES	BURCHARD	No	hillslope	---	---	---	---
	SHELBY	No	hillslope	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	OLMITZ	No	fan terrace	---	---	---	---
Bb: BURCHARD-SHELBY CLAY LOAMS, 7 TO 12 PERCENT SLOPES, ERODED	PAWNEE	No	hillslope	---	---	---	---
	BURCHARD	No	hillslope	---	---	---	---
	SHELBY	No	hillslope	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
Bc: BURCHARD-SHELBY CLAY LOAMS, 12 TO 25 PERCENT SLOPES	OLMITZ	No	fan terrace	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	BURCHARD	No	hillslope	---	---	---	---
	SHELBY	No	hillslope	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	OLMITZ	No	fan terrace	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	ROCK OUTCROP	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
Ca: CHASE SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	CHASE	No	terrace	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	OLMITZ	No	fan terrace	---	---	---	---
Cb: CLIME-SOGN COMPLEX, 5 TO 20 PERCENT SLOPES	READING	No	terrace	---	---	---	---
	CLIME	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
Ka: KENNEBEC SILT LOAM, 0 TO 3 PERCENT SLOPES, OCCASIONALLY FLOODED	PAWNEE	No	hillslope	---	---	---	---
	ROCK OUTCROP	No	---	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	WABASH	Yes	flood plain	2B3	YES	NO	NO
Kb: KENNEBEC SOILS, 0 TO 3 PERCENT SLOPES, OCCASIONALLY FLOODED	ZOOK	Yes	flood plain	2B3	YES	NO	NO
	KENNEBEC	No	flood plain	---	---	---	---
	BURCHARD	No	hillslope	---	---	---	---
	CHASE	No	flood-plain step	---	---	---	---
Kc: KENNEBEC SOILS, CHANNELED	KENNEBEC	No	flood plain	---	---	---	---
	CHASE	No	flood-plain step	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
KD: KENNEBEC SILT LOAM, CHANNELED	ZOOK	Yes	flood plain	2B3	YES	NO	NO
	KENNEBEC	No	flood plain	---	---	---	---
	WABASH	Yes	flood plain	2B3	YES	NO	NO
	MARTIN	No	hillslope	---	---	---	---
Ma: MARTIN SILTY CLAY LOAM, 3 TO 8 PERCENT SLOPES	CLIME	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
MAA: MARTIN SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES	MARTIN	No	hillslope	---	---	---	---
	LABETTE	No	hillslope	---	---	---	---
	LADYSMITH	No	paleoterrace	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
Mb: MARTIN SILTY CLAY LOAM, 3 TO 7 PERCENT SLOPES, ERODED	CLIME	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
Mc: MARTIN-VINLAND SILTY CLAY LOAMS, 5 TO 10 PERCENT SLOPES	MARTIN	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
	CLIME	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	ROCK OUTCROP	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---

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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
Oa: OLMITZ CLAY LOAM, 2 TO 5 PERCENT SLOPES	OLMITZ	No	fan terrace	---	---	---	---
	BURCHARD	No	hillslope	---	---	---	---
	CHASE	No	flood-plain step	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	READING	No	---	---	---	---	---
Pa: PAWNEE CLAY LOAM, 1 TO 3 PERCENT SLOPES	SHELBY	No	---	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	BURCHARD	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	SHELBY	No	hillslope	---	---	---	---
Pb: PAWNEE CLAY LOAM, 3 TO 7 PERCENT SLOPES	WYMORE	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	BURCHARD	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	SHELBY	No	---	---	---	---	---
Pc: PAWNEE CLAY LOAM, 3 TO 7 PERCENT SLOPES, ERODED	WYMORE	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	BURCHARD	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
Pt: PITS, QUARRIES	SHELBY	No	hillslope	---	---	---	---
	WYMORE	No	hillslope	---	---	---	---
	Pits, quarries	Unranked	---	---	---	---	---
	READING	No	terrace	---	---	---	---
	CHASE	No	terrace	---	---	---	---
Ra: READING SILT LOAM, 0 TO 2 PERCENT SLOPES, RARELY FLOODED	KENNEBEC	No	flood plain	---	---	---	---
	OLMITZ	No	fan terrace	---	---	---	---
	WABASH	Yes	flood plain	2B3	YES	NO	NO
	ZOOK	Yes	flood plain	2B3	YES	NO	NO
	READING	No	stream terrace	---	---	---	---
RE: READING SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES, RARELY FLOODED	KENNEBEC	No	flood plain	---	---	---	---
	MUIR	No	terrace	---	---	---	---
	WABASH	Yes	flood plain	2B3	YES	NO	NO
	SHELBY	No	hillslope	---	---	---	---
	BURCHARD	No	hillslope	---	---	---	---
Sa: SHELBY CLAY LOAM, 4 TO 8 PERCENT SLOPES	PAWNEE	No	hillslope	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	OLMITZ	No	fan terrace	---	---	---	---
	WYMORE	No	hillslope	---	---	---	---
	SHELBY	No	hillslope	---	---	---	---
Sb: SHELBY CLAY LOAM, 4 TO 8 PERCENT SLOPES, ERODED	BURCHARD	No	hillslope	---	---	---	---
	OLMITZ	No	fan terrace	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	SHELBY	No	hillslope	---	---	---	---
Va: VINLAND SILTY CLAY LOAM, 6 TO 14 PERCENT SLOPES	WYMORE	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
	CLIME	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---

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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
Vb: VINLAND-ROCK OUTCROP COMPLEX, 20 TO 40 PERCENT SLOPES	VINLAND	No	hillslope	---	---	---	---
	ROCK OUTCROP	Unranked	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	CLIME	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
Vc: VINLAND-SOGN COMPLEX, 5 TO 20 PERCENT SLOPES	VINLAND	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	ROCK OUTCROP	No	hillslope	---	---	---	---
	CLIME	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
W: WATER	WATER	Yes	---	3,4	NO	YES	YES
Wa: WABASH SILTY CLAY, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	WABASH	Yes	flood plain	2B3	YES	NO	NO
	CHASE	No	flood-plain step	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	OLMITZ	No	fan terrace	---	---	---	---
	READING	No	terrace	---	---	---	---
WAA: WABASH SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	WABASH	Yes	flood plain	2B3	YES	NO	NO
	CHASE	No	flood-plain step	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
Wb: WYMORE SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES	WYMORE	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	SHELBY	No	hillslope	---	---	---	---
Wc: WYMORE SILTY CLAY LOAM, 2 TO 5 PERCENT SLOPES, ERODED	WYMORE	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	SHELBY	No	hillslope	---	---	---	---
Za: ZOOK SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	ZOOK	Yes	flood plain	2B3	YES	NO	NO
	CHASE	No	flood-plain step	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	OLMITZ	No	fan terrace	---	---	---	---
	READING	No	flood plain	---	---	---	---

HYDRIC SOIL INTERPRETATIONS
HYDRIC SOILS LIST
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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

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.

