

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
061BE: BENFIELD-FLORENCE COMPLEX, 5 TO 30 PERCENT SLOPES	BENFIELD	No	hillslope	---	---	---	---
	FLORENCE	No	hillslope	---	---	---	---
	CLIME	No	hillslope	---	---	---	---
	KONZA	No	ridge	---	---	---	---
	LABETTE	No	hillslope	---	---	---	---
	IRWIN	No	hillslope	---	---	---	---
	TULLY	No	hillslope	---	---	---	---
	KAHOLA	No	flood plain	---	---	---	---
	ROCK OUTCROP calcareous, fine-loamy, cumulic hapludolls	---	---	---	---	---	---
061KA: KAHOLA SILT LOAM, CHANNELED	KAHOLA	No	flood plain	---	---	---	---
	TULLY	No	hillslope	---	---	---	---
	calcareous, fine-loamy, cumulic hapludolls	No	flood plain	---	---	---	---
	UNNAMED HYDRIC SOIL (ponding)	Yes	depression, flood plain	3	NO	NO	YES
	UNNAMED HYDRIC SOIL (saturation)	Yes	flood plain, marsh	2B3	YES	NO	NO
061KB: KAHOLA SILT LOAM, OCCASIONALLY FLOODED	KAHOLA	No	flood plain	---	---	---	---
	calcareous, fine-loamy, cumulic hapludolls	No	flood plain	---	---	---	---
	TULLY	No	hillslope	---	---	---	---
	READING	No	flood plain	---	---	---	---
	UNNAMED HYDRIC SOIL (ponding)	Yes	depression, flood plain	3	NO	NO	YES
	UNNAMED HYDRIC SOIL (saturation)	Yes	flood plain, marsh	2B3	YES	NO	NO
061KO: KONZA SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES	KONZA	No	ridge	---	---	---	---
	IRWIN	No	hillslope	---	---	---	---
	LABETTE	No	hillslope	---	---	---	---
	LADYSMITH	No	ridge	---	---	---	---
	CLIME	No	hillslope	---	---	---	---
	FLORENCE	No	hillslope	---	---	---	---
061TO: TULLY SILTY CLAY LOAM, 3 TO 8 PERCENT SLOPES	TULLY	No	hillslope	---	---	---	---
	KAHOLA	No	flood plain	---	---	---	---
	READING	No	flood plain	---	---	---	---
	BENFIELD	No	hillslope	---	---	---	---
	CLIME	No	hillslope	---	---	---	---
	FLORENCE	No	hillslope	---	---	---	---
	calcareous, fine-loamy, cumulic hapludolls	No	flood plain	---	---	---	---
111CD: CLIME-SOIGN COMPLEX, 5 TO 20 PERCENT SLOPES	CLIME	No	hillslope	---	---	---	---
	SOIGN	No	hillslope	---	---	---	---
111EA: ELMONT SILT LOAM, 1 TO 4 PERCENT SLOPES	ELMONT	No	hillslope	---	---	---	---
111IB: IVAN SILT LOAM, CHANNELED	IVAN	No	flood plain	---	---	---	---
111KA: KENOMA SILT LOAM, 1 TO 3 PERCENT SLOPES	KENOMA	No	ridge	---	---	---	---
	LADYSMITH	No	divide	---	---	---	---
111KB: KENOMA SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES, ERODED	KENOMA	No	ridge	---	---	---	---

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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
111KC: KENOMA SILT LOAM, 3 TO 6 PERCENT SLOPES	KENOMA	No	divide, terrace	---	---	---	---
111KD: KENOMA SILTY CLAY LOAM, 3 TO 6 PERCENT SLOPES, ERODED	KENOMA	No	hillslope	---	---	---	---
111LA: LABETTE SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES	LABETTE	No	hillslope	---	---	---	---
111MB: MARTIN SILTY CLAY LOAM, 4 TO 7 PERCENT SLOPES	MARTIN	No	hillslope	---	---	---	---
111MC: MARTIN SILTY CLAY, 3 TO 7 PERCENT SLOPES, ERODED	MARTIN	No	hillslope	---	---	---	---
111RA: READING SILT LOAM, 0 TO 2 PERCENT SLOPES, RARELY FLOODED	READING	No	stream terrace	---	---	---	---
111TA: TULLY SILTY CLAY LOAM, 2 TO 7 PERCENT SLOPES	TULLY	No	hillslope	---	---	---	---
111TB: TULLY SILTY CLAY LOAM, 3 TO 7 PERCENT SLOPES, ERODED	TULLY	No	hillslope	---	---	---	---
127IE: IRWIN SILTY CLAY LOAM, 3 TO 5 PERCENT SLOPES	IRWIN	No	hillslope	---	---	---	---
	LABETTE	No	hillslope	---	---	---	---
	TULLY	No	hillslope	---	---	---	---
127RD: READING SILT LOAM, 1 TO 3 PERCENT SLOPES, RARELY FLOODED	READING	No	stream terrace	---	---	---	---
	TULLY	No	hillslope	---	---	---	---
127TS: TULLY SILTY CLAY LOAM, 3 TO 7 PERCENT SLOPES	TULLY	No	hillslope	---	---	---	---
	READING	No	stream terrace	---	---	---	---
	SMOLAN	No	paleoterrace	---	---	---	---
139CS: CLIME-SOGN COMPLEX, 3 TO 15 PERCENT SLOPES	CLIME	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	ROCK OUTCROP	Unranked	---	---	---	---	---
	LULA	No	hillslope	---	---	---	---
	SUMMIT	No	hillslope	---	---	---	---
139EN: ERAM SILTY CLAY LOAM, 3 TO 7 PERCENT SLOPES	ERAM	No	hillslope	---	---	---	---
	CLARESON	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	ELMONT	No	hillslope	---	---	---	---
139KE: KENOMA SILT LOAM, 1 TO 4 PERCENT SLOPES	KENOMA	No	hillslope	---	---	---	---
	LULA	No	hillslope	---	---	---	---
	OLPE	No	paleoterrace	---	---	---	---
139LS: LEBO-SUMMIT SILTY CLAY LOAMS, 7 TO 12 PERCENT SLOPES	LEBO	No	hillslope	---	---	---	---
	SUMMIT	No	hillslope	---	---	---	---
	CLARESON	No	hillslope	---	---	---	---
	ROCK OUTCROP	Unranked	---	---	---	---	---
139MB: MASON SILT LOAM, RARELY FLOODED	MASON	No	stream terrace	---	---	---	---
	OSAGE	Yes	flood plain	2B3	YES	NO	NO
	DENNIS	No	hillslope	---	---	---	---
139SO: SUMMIT SILTY CLAY LOAM, 3 TO 7 PERCENT SLOPES	SUMMIT	No	hillslope	---	---	---	---
	CLARESON	No	hillslope	---	---	---	---
	LEBO	No	hillslope	---	---	---	---
	LULA	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
139VB: VERDIGRIS SILT LOAM, OCCASIONALLY FLOODED	VERDIGRIS	No	flood plain	---	---	---	---
139VC: VERDIGRIS SILT LOAM, CHANNELED	OSAGE	Yes	flood plain	2B3,3	YES	NO	YES
	VERDIGRIS	No	flood plain	---	---	---	---
	BATES	No	hillside	---	---	---	---
	ERAM	No	hillside	---	---	---	---
	OSAGE	Yes	flood plain	2B3,4	YES	YES	NO
149HS: HAYNIE-SARPY COMPLEX, OCCASIONALLY FLOODED	ROCK OUTCROP	No	---	---	---	---	---
	HAYNIE	No	flood-plain step	---	---	---	---
	SARPY	No	flood plain	---	---	---	---
	EUDORA	No	flood plain	---	---	---	---
	KIMO	No	flood plain	---	---	---	---
149SF: SARPY SAND, FREQUENTLY FLOODED	UNNAMED HYDRIC SOIL	Yes	depression, flood plain	2B3	YES	NO	NO
	SARPY	Yes	flood plain	4	NO	YES	NO
	EUDORA	No	flood plain	---	---	---	---
	HAYNIE	No	flood-plain step	---	---	---	---
	KIMO	No	flood-plain step	---	---	---	---
161EM: ELMONT SILT LOAM, 3 TO 8 PERCENT SLOPES	ELMONT	No	hillslope	---	---	---	---
	Unnamed soil ROCK OUTCROP	---	hillslope ---	---	---	---	---
161IC: IRWIN SILTY CLAY LOAM, 4 TO 8 PERCENT SLOPES	IRWIN	No	hillslope	---	---	---	---
	CLIME	No	hillslope	---	---	---	---
	ROCK OUTCROP	---	---	---	---	---	---
	WYMORE	No	hillslope	---	---	---	---
161TT: TULLY SILTY CLAY LOAM, 1 TO 4 PERCENT SLOPES, ERODED	TULLY	No	hillslope	---	---	---	---
	IRWIN	No	ridge	---	---	---	---
	READING	No	terrace	---	---	---	---
161TU: TULLY SILTY CLAY LOAM, 4 TO 8 PERCENT SLOPES	WYMORE	No	hillslope	---	---	---	---
	TULLY	No	hillslope	---	---	---	---
	IRWIN	No	ridge	---	---	---	---
	WYMORE	No	hillslope	---	---	---	---
177AN: KENNEBEC SILT LOAM, CHANNELED	UNNAMED HYDRIC SOIL	Yes	hillslope, marsh	2B3	YES	NO	NO
	KENNEBEC	No	flood plain	---	---	---	---
	WABASH	Yes	flood plain	2B3	YES	NO	NO
	MARTIN	No	hillslope	---	---	---	---
177BK: MARTIN-KENNEBEC COMPLEX, 0 TO 12 PERCENT SLOPES	KENNEBEC	No	flood plain	---	---	---	---
	WABASH	Yes	flood plain	2B3	YES	NO	NO
	GYMER	No	terrace	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
177GM: GYMER SILT LOAM, 3 TO 8 PERCENT SLOPES	MORRILL	No	hillslope	---	---	---	---
	SHARPSBURG	No	hillslope	---	---	---	---
	THURMAN	No	hillslope	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
177KB: KENNEBEC SILT LOAM, OCCASIONALLY FLOODED	WABASH	Yes	flood plain	2B3	YES	NO	NO
	UNNAMED HYDRIC SOIL	Yes	flood plain, marsh	2B3	YES	NO	NO
	LADYSMITH	No	paleoterrace	---	---	---	---
177LD: LADYSMITH SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES	LABETTE	No	hillslope	---	---	---	---
	MARTIN	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
177LM: LADYSMITH SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES	LADYSMITH	No	paleoterrace	---	---	---	---
	LABETTE	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
177MB: MARTIN SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES	MARTIN	No	hillslope	---	---	---	---
	LABETTE	No	hillslope	---	---	---	---
	LADYSMITH	No	paleoterrace	---	---	---	---
177MH: MARTIN SILTY CLAY LOAM, 7 TO 11 PERCENT SLOPES, ERODED	MARTIN	No	hillslope	---	---	---	---
	ELMONT	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
177PA: PAWNEE CLAY LOAM, 0 TO 3 PERCENT SLOPES	PAWNEE	No	hillslope	---	---	---	---
177SE: SARPY-EUDORA COMPLEX, OVERWASH, OCCASIONALLY FLOODED	SARPY	No	flood plain	---	---	---	---
	EUDORA	No	flood plain	---	---	---	---
177SV: SOGN-VINLAND COMPLEX, 3 TO 25 PERCENT SLOPES	SOGN	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	---	---	---	---	---
Ce: CHASE SILTY CLAY LOAM, RARELY FLOODED	CHASE	No	stream terrace	---	---	---	---
	IVAN	No	flood plain	---	---	---	---
	READING	No	stream terrace	---	---	---	---
	WABASH	Yes	flood plain	2B3	YES	NO	NO
	UNNAMED HYDRIC SOIL (saturation)	Yes	flood plain, marsh	2B3	YES	NO	NO
Cm: CLIME SILTY CLAY LOAM, 3 TO 7 PERCENT SLOPES	CLIME	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	WAMEGO	No	hillslope	---	---	---	---
Cr: CLIME SILTY CLAY LOAM, 20 TO 40 PERCENT SLOPES, STONY	CLIME	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	ROCK OUTCROP	---	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
Cs: CLIME-SOGN SILTY CLAY LOAMS, 5 TO 20 PERCENT SLOPES	CLIME	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	IVAN	No	flood plain	---	---	---	---
	LABETTE	No	ridge	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	ROCK OUTCROP	---	hillslope	---	---	---	---
Eo: ELMONT SILT LOAM, 3 TO 7 PERCENT SLOPES	ELMONT	No	hillslope	---	---	---	---
	CLIME	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	ROCK OUTCROP	---	hillslope	---	---	---	---
	WAMEGO	No	hillslope	---	---	---	---
Eu: EUDORA SILT LOAM, RARELY FLOODED	EUDORA	No	flood-plain step	---	---	---	---
	KIMO	No	flood-plain step	---	---	---	---

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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
Ex: EUDORA-KIMO COMPLEX, RARELY FLOODED	EUDORA	No	flood-plain step	---	---	---	---
	KIMO	No	flood-plain step	---	---	---	---
	UNNAMED HYDRIC SOIL	Yes	oxbow lake	2B3,3	YES	NO	YES
F1: FLORENCE-LABETTE COMPLEX, 3 TO 15 PERCENT SLOPES	FLORENCE	No	hillslope	---	---	---	---
	LABETTE	No	ridge	---	---	---	---
	CLIME	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	IRWIN	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
FLL: FLORENCE-LABETTE COMPLEX, 2 TO 12 PERCENT SLOPES	FLORENCE	No	hillslope	---	---	---	---
	LABETTE	No	hillslope	---	---	---	---
Gy: GYMER SILTY CLAY LOAM, 3 TO 8 PERCENT SLOPES	GYMER	No	hillslope	---	---	---	---
	MORRILL	No	hillslope	---	---	---	---
	WYMORE	No	hillslope	---	---	---	---
He: HAYNIE VERY FINE SANDY LOAM, OCCASIONALLY FLOODED	HAYNIE	No	flood-plain step	---	---	---	---
	KIMO	No	flood-plain step	---	---	---	---
	SARPY	No	flood plain depression,	---	---	---	---
	UNNAMED HYDRIC SOIL	Yes	flood plain	2B3,3	YES	NO	YES
Ib: IRWIN SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES	IRWIN	No	hillslope	---	---	---	---
	DWIGHT	No	hillslope	---	---	---	---
	LADYSMITH	No	divide	---	---	---	---
Id: IRWIN SILTY CLAY LOAM, 3 TO 7 PERCENT SLOPES	IRWIN	No	hillslope	---	---	---	---
	LABETTE	No	ridge	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
Iv: IVAN SILT LOAM, OCCASIONALLY FLOODED	IVAN	No	flood plain	---	---	---	---
	CHASE	No	stream terrace	---	---	---	---
	READING	No	stream terrace	---	---	---	---
	UNNAMED HYDRIC SOIL (saturation)	Yes	flood plain, marsh	2B3	YES	NO	NO
Ix: IVAN SILTY CLAY LOAM, CHANNELED	IVAN	No	flood plain	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	READING	No	stream terrace	---	---	---	---
	UNNAMED HYDRIC SOIL	Yes	flood plain, marsh	2B3	YES	NO	NO
La: LABETTE SILTY CLAY LOAM, 2 TO 5 PERCENT SLOPES	LABETTE	No	hillslope	---	---	---	---
	FLORENCE	No	hillslope	---	---	---	---
	IRWIN	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
LBB: LABETTE SILTY CLAY LOAM, 3 TO 6 PERCENT SLOPES	LABETTE	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
Lm: LADYSMITH SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES	LADYSMITH	No	hillslope	---	---	---	---
	IRWIN	No	hillslope	---	---	---	---
M-W: MISCELLANEOUS WATER	MISCELLANEOUS WATER	Unranked	---	---	---	---	---

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				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
Mb: MARTIN SILTY CLAY LOAM, 3 TO 7 PERCENT SLOPES	MARTIN	No	hillslope	---	---	---	---
	CLIME	No	hillslope	---	---	---	---
	IVAN	No	flood plain	---	---	---	---
	WAMEGO	No	hillslope	---	---	---	---
	ROCK OUTCROP	---	hillslope	---	---	---	---
Mc: MARTIN SILTY CLAY LOAM, 3 TO 7 PERCENT SLOPES, ERODED	ELMONT	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	CLIME	No	hillslope	---	---	---	---
	ROCK OUTCROP	---	hillslope	---	---	---	---
Mr: MORRILL LOAM, 4 TO 7 PERCENT SLOPES	MORRILL	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	WYMORE	No	hillslope	---	---	---	---
Ms: MORRILL LOAM, 5 TO 12 PERCENT SLOPES, VERY STONY	MORRILL	No	hillslope	---	---	---	---
	CLIME	---	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
Pa: PAWNEE CLAY LOAM, 1 TO 3 PERCENT SLOPES	PAWNEE	No	hillslope	---	---	---	---
	MORRILL	No	hillslope	---	---	---	---
Pn: PAWNEE CLAY LOAM, 3 TO 7 PERCENT SLOPES	PAWNEE	No	hillslope	---	---	---	---
	MORRILL	No	hillslope	---	---	---	---
Po: PAWNEE CLAY LOAM, 3 TO 7 PERCENT SLOPES, ERODED	PAWNEE	No	hillslope	---	---	---	---
	MORRILL	No	hillslope	---	---	---	---
Px: PAXICO SILT LOAM, FREQUENTLY FLOODED	PAXICO	Yes	flood plain	4	NO	YES	NO
	HAYNIE	No	flood-plain step	---	---	---	---
	SARPY	No	flood plain	---	---	---	---
Rb: READING SILT LOAM, 0 TO 2 PERCENT SLOPES, RARELY FLOODED	READING	No	terrace	---	---	---	---
	EUDORA	No	flood-plain step	---	---	---	---
Re: READING SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES, RARELY FLOODED	READING	No	stream terrace	---	---	---	---
	CHASE	No	stream terrace	---	---	---	---
	IVAN	No	flood plain	---	---	---	---
Sa: SARPY LOAMY SAND, FREQUENTLY FLOODED	SARPY	Yes	flood plain	4	NO	YES	NO
	EUDORA	No	flood plain	---	---	---	---
	HAYNIE	No	flood plain	---	---	---	---
Sc: SARPY-HAYNIE COMPLEX, OCCASIONALLY FLOODED	PAXICO	Yes	flood plain	4	NO	YES	NO
	SARPY	No	flood plain	---	---	---	---
	HAYNIE	No	flood-plain step	---	---	---	---
	EUDORA	No	flood plain	---	---	---	---
	KIMO	No	flood-plain step	---	---	---	---
	UNNAMED HYDRIC SOIL	Yes	depression, flood plain	2B3	YES	NO	NO
Tz: TUTTLE CHANNERY SILTY CLAY LOAM, 20 TO 60 PERCENT SLOPES, STONY	TUTTLE	No	hillslope	---	---	---	---
	CLIME	No	hillslope	---	---	---	---
	ROCK OUTCROP	---	---	---	---	---	---
	SOGN	No	hillslope	---	---	---	---

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
W: WATER	WATER	Yes	---	4,3	NO	YES	YES
Wb: WABASH SILTY CLAY, OCCASIONALLY FLOODED	WABASH	Yes	flood plain	2B3	YES	NO	NO
	CHASE	No	flood plain	---	---	---	---
	IVAN	No	flood plain	---	---	---	---
	READING	No	stream terrace	---	---	---	---
We: WAMEGO SILTY CLAY LOAM, 3 TO 7 PERCENT SLOPES	WAMEGO	No	hillslope	---	---	---	---
	CLIME	---	hillslope	---	---	---	---
	ELMONT	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	ROCK OUTCROP	---	---	---	---	---	---
Wf: WAMEGO SILTY CLAY LOAM, 7 TO 15 PERCENT SLOPES	WAMEGO	No	hillslope	---	---	---	---
	CLIME	No	hillslope	---	---	---	---
	ELMONT	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	ROCK OUTCROP	---	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
Wy: WYMORE SILTY CLAY LOAM, 2 TO 6 PERCENT SLOPES	WYMORE	No	hillslope	---	---	---	---

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.

