

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
085MA: MARTIN SILTY CLAY LOAM, 3 TO 8 PERCENT SLOPES	MARTIN	No	hillslope	---	---	---	---
	CLIME	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
117SA: SHELBY CLAY LOAM, 6 TO 10 PERCENT SLOPES	SHELBY	No	hillslope	---	---	---	---
	MORRILL	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
117SC: STEINAUER-SHELBY CLAY LOAMS, 10 TO 14 PERCENT SLOPES	STEINAUER	No	hillslope	---	---	---	---
	SHELBY	No	hillslope	---	---	---	---
	OLMITZ	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
131BS: BURCHARD-STEINAUER CLAY LOAMS, 6 TO 12 PERCENT SLOPES	BURCHARD	No	hillslope	---	---	---	---
	STEINAUER	No	hillslope	---	---	---	---
	KIPSON	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	WYMORE	No	hillslope	---	---	---	---
131CH: CHASE SILTY CLAY LOAM, OCCASIONALLY FLOODED	CHASE	No	flood plain	---	---	---	---
	KENNEBEC UNNAMED HYDRIC SOIL	No Yes	flood plain depression, flood plain	2B3	YES	NO	NO
177KS: KIPSON-SOGN COMPLEX, 3 TO 25 PERCENT SLOPES	KIPSON	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	ELMONT	No	hillslope	---	---	---	---
	LABETTE	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
177MC: MARTIN SILTY CLAY LOAM, 3 TO 7 PERCENT SLOPES	MARTIN	No	hillslope	---	---	---	---
	GYMER	No	hillslope	---	---	---	---
	OSKA	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
	SIBLEYVILLE	No	hillslope	---	---	---	---
197SA: SARPY LOAMY SAND, FREQUENTLY FLOODED	SARPY	Yes	flood plain	4	NO	YES	NO
	EUDORA	No	flood plain	---	---	---	---
	HAYNIE	No	flood plain	---	---	---	---
197SC: 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
	IVAN	No	flood plain	---	---	---	---
600AD: IVAN SILT LOAM, CHANNELED	UNNAMED HYDRIC SOIL (ponding)	Yes	depression, flood plain	3	NO	NO	YES

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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
600CA: CARR-SARPY COMPLEX, OCCASIONALLY FLOODED	CARR	No	flood plain	---	---	---	---
	SARPY	No	flood plain	---	---	---	---
	HAYNIE	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
600SA: SARPY LOAMY FINE SAND, 0 TO 4 PERCENT SLOPES, OCCASIONALLY FLOODED	SARPY	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
AED: ARENTS, EARTHEN DAM	ARENTS, EARTHEN DAM	Unranked	---	---	---	---	---
Bd: BENFIELD SILTY CLAY LOAM, 2 TO 5 PERCENT SLOPES	BENFIELD	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
Bf: BENFIELD-FLORENCE COMPLEX, 3 TO 15 PERCENT SLOPES	WYMORE	No	hillslope	---	---	---	---
	BENFIELD	No	hillslope	---	---	---	---
	FLORENCE	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	TULLY	No	hillslope	---	---	---	---
Ce: CHASE SILTY CLAY LOAM, RARELY FLOODED	WYMORE	No	hillslope	---	---	---	---
	CHASE	No	terrace	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
Cm: CLIME SILTY CLAY LOAM, 20 TO 40 PERCENT SLOPES, STONY	READING	No	terrace	---	---	---	---
	WABASH	Yes	terrace	2B3	YES	NO	NO
	CLIME	No	hillslope	---	---	---	---
Cs: CLIME-SOGN SILTY CLAY LOAMS, 5 TO 20 PERCENT SLOPES	SOGN	No	hillslope	---	---	---	---
	TULLY	No	hillslope	---	---	---	---
	CLIME	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	ROCK OUTCROP	---	hillslope	---	---	---	---
	KENNEBEC	---	flood plain	---	---	---	---
Em: ELMONT SILTY CLAY LOAM, 3 TO 7 PERCENT SLOPES	PAWNEE	No	hillslope	---	---	---	---
	TULLY	No	hillslope	---	---	---	---
	UNNAMED HYDRIC SOIL	Yes	hillslope, marsh	2B3	YES	NO	NO
	UNNAMED HYDRIC SOILS	Yes	drainageway, marsh	2B3	YES	NO	NO
	ELMONT	No	hillslope	---	---	---	---
Eo: ELMONT SILTY CLAY LOAM, 3 TO 7 PERCENT SLOPES, ERODED	PAWNEE	No	hillslope	---	---	---	---
	WAMEGO	No	hillslope	---	---	---	---
	ELMONT	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	WAMEGO	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
Eu: EUDORA SILT LOAM, RARELY FLOODED	EUDORA	No	flood plain	---	---	---	---
	KIMO	No	flood plain	---	---	---	---
	SARPY	No	flood plain	---	---	---	---
	UNNAMED HYDRIC SOIL	Yes	depression, flood plain	2B3	YES	NO	NO
Ex: EUDORA-KIMO COMPLEX, RARELY FLOODED	EUDORA	No	flood plain	---	---	---	---
	KIMO	No	flood plain	---	---	---	---
	SARPY	No	flood plain	---	---	---	---
	WABASH	Yes	flood plain	2B3	YES	NO	NO
Gm: GYMER SILTY CLAY LOAM, 3 TO 8 PERCENT SLOPES	GYMER	No	hillslope	---	---	---	---
	CLIME	No	hillslope	---	---	---	---
	TULLY	No	hillslope	---	---	---	---
Hn: HAYNIE VERY FINE SANDY LOAM, OCCASIONALLY FLOODED	HAYNIE	No	flood-plain step	---	---	---	---
	EUDORA	No	flood plain	---	---	---	---
	SARPY	No	flood plain	---	---	---	---
	UNNAMED HYDRIC SOIL (ponding)	Yes	depression, flood plain	3	NO	NO	YES
Hs: HAYNIE-SARPY COMPLEX, OCCASIONALLY FLOODED	HAYNIE	No	flood-plain step	---	---	---	---
	SARPY	No	flood plain	---	---	---	---
	EUDORA	No	flood plain	---	---	---	---
	KIMO	No	flood plain	---	---	---	---
Kc: KENNEBEC SILT LOAM, CHANNELED	UNNAMED HYDRIC SOIL	Yes	depression, flood plain	2B3	YES	NO	NO
	KENNEBEC	No	flood plain	---	---	---	---
	CHASE	No	flood-plain step	---	---	---	---
	READING TULLY	No	terrace	---	---	---	---
Kf: KENNEBEC SILT LOAM, OCCASIONALLY FLOODED	UNNAMED HYDRIC SOIL (ponding)	Yes	hillslope depression, flood plain	3	NO	NO	YES
	KENNEBEC	No	flood plain	---	---	---	---
	WABASH	Yes	flood plain	2B3	YES	NO	NO
	UNNAMED HYDRIC SOIL	Yes	flood plain, marsh	2B3	YES	NO	NO
Km: KIMO SILTY CLAY, RARELY FLOODED	KIMO	No	flood-plain step	---	---	---	---
	EUDORA	No	flood plain	---	---	---	---
	HAYNIE	No	flood-plain step	---	---	---	---
	SARPY UNNAMED HYDRIC SOIL	Yes	flood plain ephemeral oxbow lake, flood plain	2B3,3	YES	NO	YES
M-W: MISCELLANEOUS WATER	MISCELLANEOUS WATER	Unranked	---	---	---	---	---
Mm: MONONA SILT LOAM, 5 TO 10 PERCENT SLOPES	MONONA	No	hillslope	---	---	---	---
	CLIME	No	hillslope	---	---	---	---
	TULLY	No	hillslope	---	---	---	---
Mo: MORRILL LOAM, 3 TO 7 PERCENT SLOPES	MORRILL	No	hillslope	---	---	---	---
	ORTELO PAWNEE	No	hillslope	---	---	---	---
	MORRILL	No	hillslope	---	---	---	---
Mr: MORRILL CLAY LOAM, 3 TO 7 PERCENT SLOPES, ERODED	ORTELO	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
Mt: MORRILL LOAM, 5 TO 20 PERCENT SLOPES, STONY	MORRILL	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	WYMORE VARIANT	No	hillslope	---	---	---	---
Mu: MUIR SILT LOAM, RARELY FLOODED	MUIR	No	terrace	---	---	---	---
	CHASE	No	flood-plain step	---	---	---	---
	ZOOK UNNAMED HYDRIC SOIL (ponding)	Yes Yes	terrace depression, flood plain	2B3 3	YES NO	NO NO	NO YES
	ORTELO	No	hillslope	---	---	---	---
Op: ORTELO FINE SANDY LOAM, 3 TO 7 PERCENT SLOPES	MORRILL	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
Ot: ORTELO FINE SANDY LOAM, 7 TO 12 PERCENT SLOPES	ORTELO	No	hillslope	---	---	---	---
	MORRILL PAWNEE	No No	hillslope hillslope	---	---	---	---
Pe: PAWNEE CLAY LOAM, 1 TO 3 PERCENT SLOPES	MORRILL PAWNEE	No No	hillslope hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	MARTIN WOODSON	No No	hillslope divide	---	---	---	---
Pn: PAWNEE CLAY LOAM, 3 TO 6 PERCENT SLOPES	PAWNEE	No	hillslope	---	---	---	---
	MORRILL	No	hillslope	---	---	---	---
Po: PAWNEE CLAY, 3 TO 6 PERCENT SLOPES, ERODED	PAWNEE	No	hillslope	---	---	---	---
	MORRILL UNNAMED HYDRIC SOIL	No Yes	hillslope hillslope, marsh	---	---	---	---
	2B3			YES	NO	NO	
Ps: PAXICO SILT LOAM, FREQUENTLY FLOODED	PAXICO	Yes	flood plain	4	NO	YES	NO
	HAYNIE	No	flood-plain step	---	---	---	---
	SARPY	No	flood plain	---	---	---	---
Pt: PITS, QUARRIES	Pits, quarries	Unranked	---	---	---	---	---
Re: READING SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES, RARELY FLOODED	READING	No	terrace	---	---	---	---
	CHASE	No	flood-plain step	---	---	---	---
	TULLY UNNAMED HYDRIC SOIL (ponding)	No Yes	hillslope depression, flood plain	---	---	---	---
	3			NO	NO	YES	
Sf: SARPY SAND, FREQUENTLY FLOODED	SARPY	Yes	flood plain	4	NO	YES	NO
	EUDORA	No	flood plain	---	---	---	---
	HAYNIE	No	flood-plain step	---	---	---	---
	KIMO	No	flood-plain step	---	---	---	---
Sg: SHARPSBURG SILT LOAM, 1 TO 4 PERCENT SLOPES	SHARPSBURG	No	hillslope	---	---	---	---
	GYMER	No	terrace	---	---	---	---
	MORRILL	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	WOODSON	No	divide	---	---	---	---
Th: THURMAN LOAMY FINE SAND, 3 TO 8 PERCENT SLOPES	THURMAN	No	hillslope	---	---	---	---
	MORRILL PAWNEE	No No	hillslope 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
Tu: TULLY SILTY CLAY LOAM, 3 TO 7 PERCENT SLOPES	TULLY	No	hillslope	---	---	---	---
	CLIME	No	hillslope	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	READING	No	terrace	---	---	---	---
Tx: TULLY SILTY CLAY, 3 TO 7 PERCENT SLOPES, ERODED	TULLY	No	hillslope	---	---	---	---
	CLIME	No	hillslope	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	READING	No	terrace	---	---	---	---
Tz: TUTTLE CHANNERY SILTY CLAY LOAM, 20 TO 40 PERCENT SLOPES, STONY	TUTTLE	No	hillslope	---	---	---	---
	CLIME	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	TULLY	No	hillslope	---	---	---	---
W: WATER	WATER	Yes	---	4,3	NO	YES	YES
Wb: WABASH SILTY CLAY, OCCASIONALLY FLOODED	WABASH	Yes	terrace	2B3	YES	NO	NO
	READING	No	terrace	---	---	---	---
	WABASH	Yes	flood plain	3	NO	NO	YES
Wd: WAMEGO SILT LOAM, 3 TO 7 PERCENT SLOPES	WAMEGO	No	hillslope	---	---	---	---
	ELMONT	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	WYMORE	No	hillslope	---	---	---	---
We: WAMEGO SILT LOAM, 7 TO 20 PERCENT SLOPES	WAMEGO	No	hillslope	---	---	---	---
	CLIME	No	hillslope	---	---	---	---
	ELMONT	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	ROCK OUTCROP	---	---	---	---	---	---
Wg: WANN FINE SANDY LOAM, CHANNELED	WANN	No	flood plain	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	PAXICO	Yes	flood plain	4	NO	YES	NO
	UNNAMED	Yes	depression, flood plain	3	NO	NO	YES
	HYDRIC SOIL (ponding)						
Wk: WYMORE SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES	WYMORE	No	hillslope	---	---	---	---
Wm: WYMORE SILTY CLAY LOAM, 1 TO 4 PERCENT SLOPES	WYMORE	No	hillslope	---	---	---	---
	BENFIELD	No	hillslope	---	---	---	---
Wn: WYMORE SILTY CLAY LOAM, 4 TO 7 PERCENT SLOPES	WYMORE	No	hillslope	---	---	---	---
	BENFIELD	No	hillslope	---	---	---	---
Ws: WYMORE VARIANT FINE SANDY LOAM, 1 TO 3 PERCENT SLOPES	WYMORE VARIANT	No	hillslope	---	---	---	---
	MORRILL	No	hillslope	---	---	---	---
	ORTELO	No	hillslope	---	---	---	---
Zo: ZOOK SILTY CLAY LOAM, OCCASIONALLY FLOODED	ZOOK	Yes	terrace	2B3	YES	NO	NO
	EUDORA	No	flood plain	---	---	---	---
	MUIR	No	terrace	---	---	---	---

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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

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.

