

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
013PD: PADONIA-MARTIN SILTY CLAY LOAMS, 5 TO 9 PERCENT SLOPES	PADONIA	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
013SG: SHELBY CLAY LOAM, 6 TO 12 PERCENT SLOPES	KIPSON	No	hillslope	---	---	---	---
	SHELBY	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
013SM: SHELBY CLAY LOAM, 12 TO 18 PERCENT SLOPES, MODERATELY ERODED	OLMITZ	No	fan terrace	---	---	---	---
	SHELBY	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	PADONIA	No	hillslope	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	OLMITZ	No	fan terrace	---	---	---	---
085WB: WYMORE SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES	WYMORE	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
085WC: WYMORE SILTY CLAY LOAM, 2 TO 5 PERCENT SLOPES, ERODED	SHELBY	No	hillslope	---	---	---	---
	WYMORE	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
087MO: MARTIN-OSKA SILTY CLAY LOAMS, 3 TO 6 PERCENT SLOPES	SHELBY	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	OSKA	No	hillslope	---	---	---	---
	Unnamed soils	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
087SC: SHELBY-PAWNEE COMPLEX, 3 TO 8 PERCENT SLOPES	VINLAND	No	hillslope	---	---	---	---
	SHELBY	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	GRUNDY	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	MORRILL	No	hillslope	---	---	---	---
	OSKA	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
601GC: GOSPORT COMPLEX, 10 TO 30 PERCENT SLOPES	VINLAND	No	hillslope	---	---	---	---
	GOSPORT	No	hillslope	---	---	---	---
	UNNAMED SOIL	---	hillslope	---	---	---	---
	ELMONT	No	hillslope	---	---	---	---
601GT: GRUNDY SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES	MARTIN	No	hillslope	---	---	---	---
	GRUNDY	No	hillslope	---	---	---	---
601KH: KNOX SILT LOAM, 7 TO 12 PERCENT SLOPES	SHARPSBURG	No	hillslope	---	---	---	---
	KNOX	No	hillslope	---	---	---	---
601LA: LADOGA SILT LOAM, 4 TO 7 PERCENT SLOPES	ARMSTER	No	hillslope	---	---	---	---
	LADOGA	No	hillslope	---	---	---	---
	SIMILAR SOIL	No	hillslope	---	---	---	---
	WELDA	No	terrace	---	---	---	---
	LADOGA	No	hillslope	---	---	---	---
601SH: SHELBY LOAM, 4 TO 8 PERCENT SLOPES	KNOX	No	hillslope	---	---	---	---
	SHARPSBURG	No	hillslope	---	---	---	---
	SHELBY	No	hillslope	---	---	---	---
	ELMONT	No	hillslope	---	---	---	---
	OSKA	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	SHARPSBURG	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
601SM: SHELBY LOAM, 8 TO 12 PERCENT SLOPES	SHELBY	No	hillslope	---	---	---	---
	ELMONT	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
Ab: ALBATON SILTY CLAY, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	ALBATON	Yes	alluvial flat, flood plain	2B3	YES	NO	NO
	ONAWA	No	flood plain	---	---	---	---
	WALDRON	No	flood plain	---	---	---	---
Ae: AKSARBEN SILTY CLAY LOAM, 5 TO 11 PERCENT SLOPES	JUDSON	No	fan remnant	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	MARSHALL	No	hillslope	---	---	---	---
	MORRILL	No	hillslope	---	---	---	---
	WYMORE	No	hillslope	---	---	---	---
	AKSARBEN	No	hillslope	---	---	---	---
AED: ARENTS, EARTHEN DAM	ARENTS, EARTHEN DAM	Unranked	---	---	---	---	---
Aq: FLUVAQUENTS, PONDED	FLUVAQUENTS	Yes	depression, flood plain	2B2	YES	NO	NO
	ONAWA	No	flood plain	---	---	---	---
Ar: ARMSTER CLAY LOAM, 6 TO 12 PERCENT SLOPES	ARMSTER	No	hillslope	---	---	---	---
	KNOX	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	SHARPSBURG	No	hillslope	---	---	---	---
As: ARMSTER CLAY LOAM, 12 TO 20 PERCENT SLOPES	ARMSTER	No	hillslope	---	---	---	---
	GOSPORT	No	hillslope	---	---	---	---
	KNOX	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
Ch: CHASE SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	CHASE	No	flood plain	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	MUSCOTAH	No	flood plain	---	---	---	---
Go: GOSPORT SILTY CLAY LOAM, 25 TO 45 PERCENT SLOPES	GOSPORT	No	hillslope	---	---	---	---
	ARMSTER	No	hillslope	---	---	---	---
	KNOX	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
Gr: GRUNDY SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES	GRUNDY	No	hillslope	---	---	---	---
	SHARPSBURG	No	hillslope	---	---	---	---
Gu: GRUNDY SILTY CLAY LOAM, 2 TO 6 PERCENT SLOPES	GRUNDY	No	hillslope	---	---	---	---
	SHARPSBURG	No	hillslope	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
Gx: GRUNDY SILTY CLAY, 3 TO 7 PERCENT SLOPES, ERODED	GRUNDY	No	hillslope	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	SHARPSBURG	No	hillslope	---	---	---	---
Hn: HAYNIE SILT LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	HAYNIE	No	alluvial flat	---	---	---	---
	ONAWA	No	flood plain	---	---	---	---
	WATHENA	No	flood plain, natural levee	---	---	---	---

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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
Ho: HAYNIE-ONAWA COMPLEX, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	HAYNIE	No	alluvial flat	---	---	---	---
	ONAWA	No	flood plain	---	---	---	---
	WALDRON	No	flood plain	---	---	---	---
Ju: JUDSON SILT LOAM, 2 TO 6 PERCENT SLOPES	JUDSON	No	fan remnant	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
Ke: KENNEBEC SILT LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	KENNEBEC	No	flood plain	---	---	---	---
	MUSCOTAH	No	flood plain	---	---	---	---
	KENRIDGE	No	flood plain	---	---	---	---
	ZOOK	Yes	flood plain	2B3	YES	NO	NO
Kf: KENNEBEC SILT LOAM, CHANNELED, FREQUENTLY FLOODED	KENNEBEC	No	flood plain	---	---	---	---
	NODAWAY	No	flood plain	---	---	---	---
	KENRIDGE	No	flood plain	---	---	---	---
	MUSCOTAH	No	flood plain	---	---	---	---
	ZOOK	Yes	flood plain	2B3	YES	NO	NO
Kg: KENNEBEC-COLO SILT LOAMS, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	KENNEBEC	No	flood plain	---	---	---	---
	COLO	Yes	flood plain	2B3	YES	NO	NO
	CHASE	No	flood plain	---	---	---	---
Kn: KNOX SILT LOAM, 4 TO 10 PERCENT SLOPES	KNOX	No	hillslope	---	---	---	---
	MARSHALL	No	hillslope	---	---	---	---
	PALERMO	---	hillslope	---	---	---	---
Ky: KNOX-GOSPORT COMPLEX, 10 TO 30 PERCENT SLOPES	KNOX	No	hillslope	---	---	---	---
	GOSPORT	No	hillslope	---	---	---	---
	ARMSTER	No	hillslope	---	---	---	---
	JUDSON	No	terrace	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
M-W: MISCELLANEOUS WATER	MISCELLANEOUS WATER	---	---	---	---	---	---
Mc: 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	---	---	---	---
Mw: MUSCOTAH SILT LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED, OVERWASH	MUSCOTAH	No	flood plain	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	ZOOK	Yes	flood plain	2B3	YES	NO	NO
	CHASE	No	flood plain	---	---	---	---
No: NODAWAY SILT LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	NODAWAY	No	flood plain	---	---	---	---
	CHASE	No	flood plain	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	ZOOK	Yes	flood plain	2B3	YES	NO	NO
Od: ONAWA LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED, OVERWASH	ONAWA	No	flood plain	---	---	---	---
	HAYNIE	No	alluvial flat	---	---	---	---

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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
On: ONAWA AND WALDRON SILTY CLAY LOAMS, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	ONAWA	No	flood plain	---	---	---	---
	WALDRON	No	flood plain	---	---	---	---
	HAYNIE	No	alluvial flat	---	---	---	---
	ONAWET	---	flood plain	---	---	---	---
Ow: ONAWET SILTY CLAY LOAM, DEPRESSIONAL, 0 TO 1 PERCENT SLOPES, FREQUENTLY FLOODED	ONAWET	---	flood plain	---	---	---	---
	ALBATON	Yes	depression, flood plain	2B3	YES	NO	NO
Pa: PALERMO-KNOX COMPLEX, 10 TO 18 PERCENT SLOPES	KNOX	No	hillslope	---	---	---	---
	PALERMO	No	hillslope	---	---	---	---
Pb: PALERMO SILTY CLAY LOAM, 18 TO 30 PERCENT SLOPES	PALERMO	No	hillslope	---	---	---	---
	KNOX	No	hillslope	---	---	---	---
Pc: PAWNEE CLAY LOAM, 3 TO 7 PERCENT SLOPES	PAWNEE	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	MORRILL	No	hillslope	---	---	---	---
	OSKA	No	hillslope	---	---	---	---
Pd: PAWNEE CLAY, 3 TO 7 PERCENT SLOPES, ERODED	PAWNEE	No	hillslope	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	SHELBY	No	hillslope	---	---	---	---
Pt: PITS, QUARRIES	Pits, quarries	Unranked	---	---	---	---	---
Re: READING SILT LOAM, 0 TO 2 PERCENT SLOPES, RARELY FLOODED	READING	No	terrace	---	---	---	---
	CHASE	No	terrace	---	---	---	---
	WABASH	Yes	terrace	2B3	YES	NO	NO
Sb: SHARPSBURG SILTY CLAY LOAM, 1 TO 4 PERCENT SLOPES	SHARPSBURG	No	hillslope	---	---	---	---
	SHELBY	No	hillslope	---	---	---	---
	GRUNDY	No	hillslope	---	---	---	---
Sc: SHARPSBURG SILTY CLAY LOAM, 4 TO 8 PERCENT SLOPES	SHARPSBURG	No	hillslope	---	---	---	---
	ARMSTER	No	hillslope	---	---	---	---
	GRUNDY	No	hillslope	---	---	---	---
	SHELBY	No	hillslope	---	---	---	---
Sh: SHELBY CLAY LOAM, 5 TO 10 PERCENT SLOPES	SHELBY	No	hillslope	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	SHARPSBURG	No	hillslope	---	---	---	---
Sm: SHELBY CLAY LOAM, 7 TO 15 PERCENT SLOPES, ERODED	SHELBY	No	hillslope	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	SHARPSBURG	No	hillslope	---	---	---	---
	STEINAUER	No	hillslope	---	---	---	---
Ss: SHELBY-STEINAUER LOAMS, 12 TO 25 PERCENT SLOPES	SHELBY	No	hillslope	---	---	---	---
	STEINAUER	No	hillslope	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---

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				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
Vr: VINLAND-ROCK OUTCROP COMPLEX, 20 TO 40 PERCENT SLOPES	ROCK OUTCROP	No	hillslope	---	---	---	---
Vs: VINLAND SILTY CLAY LOAM, 4 TO 15 PERCENT SLOPES	VINLAND	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	OSKA	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
W: WATER	ROCK OUTCROP	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
Wa: WABASH SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	WABASH	Yes	flood plain	2B3	YES	NO	NO
Wb: WABASH SILTY CLAY, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	CHASE	No	flood-plain step	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	WABASH	Yes	flood plain	2B3	YES	NO	NO
Wg: WAMEGO-VINLAND SILTY CLAY LOAMS, 3 TO 15 PERCENT SLOPES	CHASE	No	flood plain	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
Wh: WATHENA-HAYNIE COMPLEX, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	WAMEGO	No	hillslope	---	---	---	---
	VINLAND PAWNEE	No No	hillslope hillslope	---	---	---	---
Wm: WYMORE SILTY CLAY LOAM, 2 TO 5 PERCENT SLOPES	WATHENA	No	flood plain, natural levee	---	---	---	---
	HAYNIE SARPY	No No	alluvial flat flood-plain splay	---	---	---	---
Wn: WYMORE SILTY CLAY LOAM, 5 TO 9 PERCENT SLOPES	WYMORE	No	interfluve	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	WYMORE	No	hillslope	---	---	---	---
Wn: WYMORE SILTY CLAY LOAM, 5 TO 9 PERCENT SLOPES	PAWNEE	No	hillslope	---	---	---	---
	MAYBERRY	No	hillslope	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---

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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.

