

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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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
017IN: IRWIN SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES, ERODED	IRWIN	No	hillslope	---	---	---	---
	DWIGHT	No	hillslope	---	---	---	---
017IS: IRWIN SILTY CLAY LOAM, 3 TO 5 PERCENT SLOPES, ERODED	IRWIN	No	hillslope	---	---	---	---
	TULLY	No	hillslope	---	---	---	---
017RA: READING SILT LOAM, 0 TO 1 PERCENT SLOPES, RARELY FLOODED	READING	No	terrace	---	---	---	---
	KAHOLA	No	flood plain	---	---	---	---
017TU: TULLY CHERTY SILTY CLAY LOAM, 5 TO 15 PERCENT SLOPES	CHASE	No	flood plain	---	---	---	---
	TULLY	No	hillslope	---	---	---	---
041HA: HOBBS SILT LOAM, OCCASIONALLY FLOODED	CLIME	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	HOBBS	No	flood plain	---	---	---	---
	SUTPHEN	No	flood plain	---	---	---	---
	UNNAMED	Yes	depression, flood plain	3	NO	NO	YES
	HYDRIC SOIL (ponding)	Yes	flood plain, marsh	2B3	YES	NO	NO
	UNNAMED	Yes	flood plain, marsh	2B3	YES	NO	NO
	HYDRIC SOIL (saturation)	Yes	flood plain, marsh	2B3	YES	NO	NO
041HB: HOBBS SILT LOAM, CHANNELED	HOBBS	No	flood plain	---	---	---	---
	calcareous, fine-loamy, cumulic hapludolls	No	flood plain	---	---	---	---
	MUIR	No	flood plain	---	---	---	---
	CRETE	No	hillslope	---	---	---	---
	GEARY	No	hillslope	---	---	---	---
	UNNAMED	Yes	depression, flood plain	3	NO	NO	YES
	HYDRIC SOIL (ponding)	Yes	flood plain, marsh	2B3	YES	NO	NO
	UNNAMED	Yes	flood plain, marsh	2B3	YES	NO	NO
	HYDRIC SOIL (saturation)	Yes	flood plain, marsh	2B3	YES	NO	NO
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	No	flood plain	---	---	---	---
061CF: CLIME-SOGR SILTY CLAY LOAMS, 5 TO 20 PERCENT SLOPES	CLIME	No	hillslope	---	---	---	---
	SOGR	No	hillslope	---	---	---	---
	TULLY	No	hillslope	---	---	---	---
	IRWIN	No	hillslope	---	---	---	---
	TUTTLE	No	hillslope	---	---	---	---
	KAHOLA	No	flood plain	---	---	---	---
	KONZA	No	ridge	---	---	---	---
	UNNAMED	Yes	flood plain, marsh	2B3	YES	NO	NO
	HYDRIC SOIL (saturation)	Yes	flood plain, marsh	2B3	YES	NO	NO
	calcareous, fine-loamy, cumulic hapludolls	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
061ID: IRWIN SILTY CLAY LOAM, 3 TO 7 PERCENT SLOPES	IRWIN	No	hillslope	---	---	---	---
	KONZA	No	ridge	---	---	---	---
	CLIME	No	hillslope	---	---	---	---
	FLORENCE	No	hillslope	---	---	---	---
	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
061KO: KONZA SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES	UNNAMED HYDRIC SOIL (saturation)	Yes	flood plain, marsh	2B3	YES	NO	NO
	KONZA	No	ridge	---	---	---	---
	IRWIN	No	hillslope	---	---	---	---
	LABETTE	No	hillslope	---	---	---	---
	LADYSMITH	No	ridge	---	---	---	---
061RA: READING SILT LOAM, 0 TO 1 PERCENT SLOPES	CLIME	No	hillslope	---	---	---	---
	FLORENCE	No	hillslope	---	---	---	---
	READING	No	flood plain	---	---	---	---
	TULLY	No	hillslope	---	---	---	---
	KAHOLA	No	flood plain	---	---	---	---
061TN: TULLY SILTY CLAY LOAM, 1 TO 4 PERCENT SLOPES	TULLY	No	hillslope	---	---	---	---
	KAHOLA	No	flood plain	---	---	---	---
	READING	No	flood plain	---	---	---	---
	CLIME	No	hillslope	---	---	---	---
	FLORENCE	No	hillslope	---	---	---	---
111RA: READING SILT LOAM, 0 TO 2 PERCENT SLOPES, RARELY FLOODED	READING	No	stream terrace	---	---	---	---
	CLIME-SOIGN SILTY CLAY LOAMS, 3 TO 20 PERCENT SLOPES	No	hillslope	---	---	---	---
	SOIGN	No	hillslope	---	---	---	---
	LABETTE	No	hillslope	---	---	---	---
	TULLY	No	hillslope	---	---	---	---
115LA: LABETTE SILTY CLAY LOAM, 1 TO 4 PERCENT SLOPES	LABETTE	No	hillslope	---	---	---	---
	DWIGHT	No	hillslope	---	---	---	---
	SOIGN	No	hillslope	---	---	---	---
	CHASE	No	stream terrace	---	---	---	---
	IVAN	No	flood plain	---	---	---	---
197CE: CHASE SILTY CLAY LOAM, RARELY FLOODED	READING	No	stream terrace	---	---	---	---
	WABASH	Yes	flood plain	2B3	YES	NO	NO
	UNNAMED HYDRIC SOIL (saturation)	Yes	flood plain, marsh	2B3	YES	NO	NO
	FLORENCE	No	hillslope	---	---	---	---
	LABETTE	No	ridge	---	---	---	---
197FL: FLORENCE-LABETTE COMPLEX, 3 TO 15 PERCENT SLOPES	CLIME	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	IRWIN	No	hillslope	---	---	---	---
	SOIGN	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
197IX: IVAN SILTY CLAY LOAM, CHanneled	IVAN	No	flood plain	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	READING	No	stream terrace	---	---	---	---
	UNNAMED	Yes	flood plain, marsh	2B3	YES	NO	NO
197RE: READING SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES, RARELY FLOODED	READING	No	stream terrace	---	---	---	---
	CHASE	No	stream terrace	---	---	---	---
	IVAN	No	flood plain	---	---	---	---
AED: ARENTS, EARTHEN DAM	ARENTS, EARTHEN DAM	Unranked	---	---	---	---	---
Ar: IVAN SILT LOAM, CHanneled	IVAN	No	flood plain	---	---	---	---
	READING	No	stream terrace	---	---	---	---
BOA: BORROW AREAS	BORROW PITS	Unranked	---	---	---	---	---
Ch: CHASE SILTY CLAY LOAM, OCCASIONALLY FLOODED	CHASE	No	stream terrace	---	---	---	---
	MASON	No	flood plain	---	---	---	---
	OSAGE	Yes	flood plain	2B3	YES	NO	NO
	READING	No	stream terrace	---	---	---	---
Cs: CLIME-SOGN COMPLEX, 5 TO 20 PERCENT SLOPES	CLIME	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	IRWIN	No	hillslope	---	---	---	---
	KIPSON	No	hillslope	---	---	---	---
	LABETTE	No	hillslope	---	---	---	---
	TULLY	No	hillslope	---	---	---	---
	DWIGHT	No	hillslope	---	---	---	---
	UNNAMED	Yes	flood plain, marsh	2B3	YES	NO	NO
	HYDRIC SOIL (saturation)						
Dh: DWIGHT SILT LOAM, 1 TO 3 PERCENT SLOPES	DWIGHT	No	hillslope	---	---	---	---
	IRWIN	No	hillslope	---	---	---	---
	LABETTE	No	hillslope	---	---	---	---
	LADYSMITH	No	paleoterrace	---	---	---	---
Fc: FLORENCE CHERTY SILT LOAM, 5 TO 15 PERCENT SLOPES	FLORENCE	No	hillslope	---	---	---	---
	DWIGHT	No	hillslope	---	---	---	---
	TULLY	No	hillslope	---	---	---	---
Fe: FLORENCE-LABETTE COMPLEX, 2 TO 12 PERCENT SLOPES	FLORENCE	No	hillslope	---	---	---	---
	LABETTE	No	hillslope	---	---	---	---
	FLORENCE	No	hillslope	---	---	---	---
	LABETTE	No	hillslope	---	---	---	---
	DWIGHT	No	hillslope	---	---	---	---
	TULLY	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
Ic: IRWIN SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES	IRWIN	No	hillslope	---	---	---	---
	LADYSMITH	No	paleoterrace	---	---	---	---
Id: IRWIN SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES	IRWIN	No	hillslope	---	---	---	---
	DWIGHT	No	hillslope	---	---	---	---
	LABETTE	No	hillslope	---	---	---	---
	LADYSMITH	No	paleoterrace	---	---	---	---
	UNNAMED	Yes	hillslope, marsh	2B3	YES	NO	NO
	HYDRIC SOIL (saturation)						
Ie: IRWIN SILTY CLAY LOAM, 3 TO 5 PERCENT SLOPES	IRWIN	No	hillslope	---	---	---	---
	LABETTE	No	hillslope	---	---	---	---
	TULLY	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
In: IRWIN SOILS, 1 TO 3 PERCENT SLOPES, ERODED	IRWIN	No	hillslope	---	---	---	---
	DWIGHT	No	hillslope	---	---	---	---
	LABETTE	No	hillslope	---	---	---	---
	LADYSMITH	No	paleoterrace	---	---	---	---
	UNNAMED HYDRIC SOIL (saturation)	Yes	hillslope, marsh	2B3	YES	NO	NO
Io: IRWIN SOILS, 3 TO 5 PERCENT SLOPES, ERODED	IRWIN	No	hillslope	---	---	---	---
	LABETTE	No	hillslope	---	---	---	---
	TULLY	No	hillslope	---	---	---	---
Iv: IVAN AND KENNEBEC SILT LOAMS, OCCASIONALLY FLOODED	IVAN	No	flood plain	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	MASON	No	flood plain	---	---	---	---
	READING	No	stream terrace	---	---	---	---
	UNNAMED HYDRIC SOIL (ponding)	Yes	depression, flood plain	3	NO	NO	YES
	UNNAMED HYDRIC SOIL (saturation)	Yes	flood plain, marsh	2B3	YES	NO	NO
IVV: 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
Ks: KIPSON-SOGN COMPLEX, 3 TO 15 PERCENT SLOPES	KIPSON	No	hillslope	---	---	---	---
	KIPSON	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	TULLY	No	hillslope	---	---	---	---
	LABETTE	No	hillslope	---	---	---	---
Lb: LABETTE SILTY CLAY LOAM, 2 TO 5 PERCENT SLOPES	LABETTE	No	hillslope	---	---	---	---
	DWIGHT	No	hillslope	---	---	---	---
	IRWIN	No	hillslope	---	---	---	---
Ld: LABETTE-DWIGHT COMPLEX, 1 TO 3 PERCENT SLOPES	LABETTE	No	hillslope	---	---	---	---
	DWIGHT	No	hillslope	---	---	---	---
	IRWIN	No	hillslope	---	---	---	---
Le: LABETTE-SOGN COMPLEX, 2 TO 8 PERCENT SLOPES	LABETTE	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	DWIGHT	No	hillslope	---	---	---	---
	FLORENCE	No	hillslope	---	---	---	---
	KIPSON	No	hillslope	---	---	---	---
	UNNAMED HYDRIC SOIL (saturation)	Yes	flood plain, marsh	2B3	YES	NO	NO
Ls: LADYSMITH SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES	LADYSMITH	No	paleoterrace	---	---	---	---
	DWIGHT	No	hillslope	---	---	---	---
	IRWIN	No	hillslope	---	---	---	---
Lt: LADYSMITH SILTY CLAY LOAM, 1 TO 2 PERCENT SLOPES, ERODED	LADYSMITH	No	paleoterrace	---	---	---	---
	DWIGHT	No	hillslope	---	---	---	---
	IRWIN	No	hillslope	---	---	---	---
M-W: MISCELLANEOUS WATER	MISCELLANEOUS WATER	Unranked	---	---	---	---	---

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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
Mr: MASON AND READING SILT LOAMS, 0 TO 1 PERCENT SLOPES, RARELY FLOODED	MASON	No	flood plain	---	---	---	---
	READING	No	stream terrace	---	---	---	---
	CHASE	No	stream terrace	---	---	---	---
	IVAN	No	flood plain	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	UNNAMED	Yes	depression, flood plain	3	NO	NO	YES
	HYDRIC SOIL (ponding)						
	UNNAMED	Yes	flood plain, marsh	2B3	YES	NO	NO
	HYDRIC SOIL (saturation)						
Os: OSAGE SILTY CLAY, OCCASIONALLY FLOODED	OSAGE	Yes	flood plain	2B3	YES	NO	NO
	CHASE	No	stream terrace	---	---	---	---
QUA: QUARRIES	QUARRIES	Unranked	---	---	---	---	---
Rd: READING SILT LOAM, 1 TO 3 PERCENT SLOPES, RARELY FLOODED	READING	No	stream terrace	---	---	---	---
	TULLY	No	hillslope	---	---	---	---
Sm: SMOLAN SILT LOAM, 1 TO 3 PERCENT SLOPES	SMOLAN	No	paleoterrace	---	---	---	---
	IRWIN	No	hillslope	---	---	---	---
	TULLY	No	hillslope	---	---	---	---
Sn: SMOLAN SILTY CLAY LOAM, 2 TO 6 PERCENT SLOPES, ERODED	SMOLAN	No	paleoterrace	---	---	---	---
	IRWIN	No	hillslope	---	---	---	---
	TULLY	No	hillslope	---	---	---	---
Ts: TULLY SILTY CLAY LOAM, 3 TO 7 PERCENT SLOPES	TULLY	No	hillslope	---	---	---	---
	READING	No	stream terrace	---	---	---	---
	SMOLAN	No	paleoterrace	---	---	---	---
Tt: TULLY SILTY CLAY LOAM, 3 TO 7 PERCENT SLOPES, ERODED	TULLY	No	hillslope	---	---	---	---
	READING	No	stream terrace	---	---	---	---
	SMOLAN	No	paleoterrace	---	---	---	---
Ty: TULLY SOILS, 5 TO 15 PERCENT SLOPES	TULLY	No	hillslope	---	---	---	---
	CLIME	No	hillslope	---	---	---	---
	IRWIN	No	hillslope	---	---	---	---
	KIPSON	No	hillslope	---	---	---	---
	LABETTE	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
W: WATER	WATER	Unranked	---	---	---	---	---

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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.

