

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
001CA: CATOOSA SILT LOAM, 0 TO 2 PERCENT SLOPES	CATOOSA	No	ridge	---	---	---	---
	KENOMA	No	divide, paleoterrace	---	---	---	---
	ZAAR	No	hillslope	---	---	---	---
001CB: CATOOSA-ROCK OUTCROP COMPLEX, 1 TO 8 PERCENT SLOPES	CATOOSA	No	hillslope	---	---	---	---
	ROCK OUTCROP	Unranked	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
001CC: COLLINSVILLE-BATES COMPLEX, 2 TO 15 PERCENT SLOPES	COLLINSVILLE	No	hillslope	---	---	---	---
	BATES	No	hillslope	---	---	---	---
	CATOOSA	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
001ZB: ZAAR SILTY CLAY, 3 TO 7 PERCENT SLOPES	ZAAR	No	hillslope	---	---	---	---
031EP: ERAM-APPERSON SILTY CLAY LOAMS, 4 TO 7 PERCENT SLOPES	ERAM	No	hillslope	---	---	---	---
	APPERSON	No	hillslope	---	---	---	---
	CLARESON	No	ridge	---	---	---	---
	ROCK OUTCROP	---	hillslope	---	---	---	---
	SHIDLER	No	rim	---	---	---	---
031ES: ERAM-SHIDLER SILTY CLAY LOAMS, 4 TO 15 PERCENT SLOPES	ERAM	No	hillslope	---	---	---	---
	SHIDLER	No	rim	---	---	---	---
	OLPE	No	hillslope	---	---	---	---
073AT: AQUENTS, FREQUENTLY FLOODED	AQUENTS	No	flood plain	---	---	---	---
073CA: CHASE SILTY CLAY LOAM, OCCASIONALLY FLOODED	CHASE	No	flood plain	---	---	---	---
	IVAN	No	flood plain	---	---	---	---
	READING	No	stream terrace	---	---	---	---
073CM: CLIME SILTY CLAY, 3 TO 7 PERCENT SLOPES	CLIME	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
073CS: CLIME-SOGN COMPLEX, 5 TO 20 PERCENT SLOPES	CLIME	No	ridge	---	---	---	---
	SOGN	No	ridge	---	---	---	---
	DWIGHT	No	divide, hillslope	---	---	---	---
	LABETTE	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	ROCK OUTCROP	---	---	---	---	---	---
073DS: DENNIS SILTY CLAY LOAM, 2 TO 6 PERCENT SLOPES, ERODED	DENNIS	No	hillslope	---	---	---	---
073IC: IVAN SILT LOAM, CHANNELED	IVAN	No	channel, flood plain	---	---	---	---
	CHASE	No	flood plain	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	OSAGE	Yes	flood plain	2B3	YES	NO	NO
	MARTIN	No	hillslope	---	---	---	---
073IF: IVAN SILT LOAM, OCCASIONALLY FLOODED	IVAN	No	flood plain	---	---	---	---
	CHASE	No	flood plain	---	---	---	---
073KE: KENOMA SILTY CLAY LOAM, 2 TO 5 PERCENT SLOPES, ERODED	KENOMA	No	hillslope	---	---	---	---
073LA: LABETTE SILTY CLAY LOAM, 1 TO 4 PERCENT SLOPES	LABETTE	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
073LD: LABETTE-DWIGHT COMPLEX, 0 TO 3 PERCENT SLOPES	LABETTE	No	hillslope	---	---	---	---
	DWIGHT ZAAR	No No	hillslope hillslope	---	---	---	---
073MA: MARTIN SILTY CLAY LOAM, 1 TO 4 PERCENT SLOPES	MARTIN	No	hillslope	---	---	---	---
073NZ: NIOTAZE-DARNELL COMPLEX, 6 TO 35 PERCENT SLOPES	NIOTAZE	No	hillslope	---	---	---	---
	DARNELL ROCK OUTCROP	No ---	hillslope ---	---	---	---	---
073RE: READING SILT LOAM, 0 TO 2 PERCENT SLOPES, RARELY FLOODED	READING	No	stream terrace	---	---	---	---
	CHASE READING	No No	flood plain stream terrace	---	---	---	---
073ST: STEEDMAN STONY LOAM, 3 TO 12 PERCENT SLOPES	STEEDMAN	No	hillslope	---	---	---	---
	ROCK OUTCROP DARNELL	---	---	---	---	---	---
205BH: BATES-COLLINSVILLE LOAMS, 3 TO 7 PERCENT SLOPES	BATES	No	ridge	---	---	---	---
	COLLINSVILLE DENNIS ERAM	No No No	hillslope hillslope hillslope	---	---	---	---
205BO: BATES-COLLINSVILLE LOAMS, 7 TO 20 PERCENT SLOPES	BATES	No	ridge	---	---	---	---
	COLLINSVILLE DENNIS ERAM	No No No	hillslope hillslope hillslope	---	---	---	---
205DW: DENNIS-DWIGHT SILT LOAMS, 1 TO 5 PERCENT SLOPES	DENNIS	No	hillslope	---	---	---	---
	DWIGHT BATES	No No	hillslope, paleoterrace ridge	---	---	---	---
205EB: ERAM SILT LOAM, 1 TO 3 PERCENT SLOPES	ERAM	No	hillslope	---	---	---	---
	BATES RINGO	No No	ridge hillslope	---	---	---	---
205EC: ERAM SILT LOAM, 3 TO 7 PERCENT SLOPES	ERAM	No	hillslope	---	---	---	---
	BATES RINGO	No No	hillslope hillslope	---	---	---	---
205LA: LANTON SILT LOAM, OCCASIONALLY FLOODED	LANTON	No	flood plain	---	---	---	---
	MASON OSAGE	No Yes	stream terrace flood plain	---	---	---	---
205ND: NIOTAZE-DARNELL COMPLEX, 4 TO 30 PERCENT SLOPES	NIOTAZE	No	hillslope	---	---	---	---
	DARNELL STEPHENVILLE ROCK OUTCROP	No No ---	hillslope hillslope ---	---	---	---	---
205SC: SHIDLER-CATOOSA COMPLEX, 1 TO 8 PERCENT SLOPES	SHIDLER	No	ridge	---	---	---	---
	CATOOSA RINGO APPERSON GIRARD	No No No Yes	ridge hillslope hillslope flood plain	---	---	---	---
205SF: STEEDMAN GRAVELLY SILT LOAM, 4 TO 25 PERCENT SLOPES, STONY	STEEDMAN	No	hillslope	---	---	---	---
	BATES COLLINSVILLE	No No	ridge 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
AED: ARENTS, EARTHEN DAM	ARENTS, EARTHEN DAM	Unranked	---	---	---	---	---
Bb: BATES LOAM, 1 TO 4 PERCENT SLOPES	BATES	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
Bc: BATES LOAM, 4 TO 7 PERCENT SLOPES	BATES	No	hillslope	---	---	---	---
	COLLINSVILLE	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
BOP: BORROW PITS	BORROW PITS	Unranked	---	---	---	---	---
Ca: CLARESON-SOIGN COMPLEX, 1 TO 8 PERCENT SLOPES	CLARESON	No	hillslope	---	---	---	---
	SOIGN	No	hillslope	---	---	---	---
	LULA	No	hillslope	---	---	---	---
Cd: CLEORA FINE SANDY LOAM, OCCASIONALLY FLOODED	MASON	No	stream terrace	---	---	---	---
	VERDIGRIS	No	flood plain	---	---	---	---
	CLEORA	No	flood plain	---	---	---	---
Da: DARNELL-NIOTAZE COMPLEX, 24 TO 45 PERCENT SLOPES	DARNELL	No	hillslope	---	---	---	---
	NIOTAZE	No	hillslope	---	---	---	---
	STEPHENVILLE	No	hillslope	---	---	---	---
Dd: DENNIS SILT LOAM, 1 TO 3 PERCENT SLOPES	DENNIS	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	KENOMA	No	hillslope, paleoterrace	---	---	---	---
De: DENNIS SILT LOAM, 3 TO 6 PERCENT SLOPES	DENNIS	No	hillslope	---	---	---	---
	BATES	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
Df: DENNIS SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES, ERODED	DENNIS	No	hillslope	---	---	---	---
	BATES	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
Dg: DENNIS AND ERAM SOILS, 3 TO 7 PERCENT SLOPES, ERODED	DENNIS	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	BATES	No	hillslope	---	---	---	---
Dw: DWIGHT SILT LOAM, 0 TO 2 PERCENT SLOPES	DWIGHT	No	divide, hillslope	---	---	---	---
	KENOMA	No	hillslope, paleoterrace	---	---	---	---
	WOODSON	No	divide, paleoterrace	---	---	---	---
Eb: ERAM SILTY CLAY LOAM, 1 TO 4 PERCENT SLOPES	ERAM	No	hillslope	---	---	---	---
	BATES	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
Ec: ERAM SILTY CLAY LOAM, 4 TO 7 PERCENT SLOPES	ERAM	No	hillslope	---	---	---	---
	BATES	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
Ex: ERAM-COLLINSVILLE COMPLEX, 4 TO 25 PERCENT SLOPES	ERAM	No	hillslope	---	---	---	---
	COLLINSVILLE	No	hillslope	---	---	---	---
	BATES	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
GRP: GRAVEL PITS AND QUARRIES	GRAVEL PITS	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
Ha: HEPLER SILT LOAM, OCCASIONALLY FLOODED	HEPLER	No	flood plain	---	---	---	---
	LEANNA	No	flood plain	---	---	---	---
	OSAGE	Yes	flood plain	2B3	YES	NO	NO
	VERDIGRIS	No	flood plain	---	---	---	---
Ka: KENOMA SILT LOAM, 1 TO 2 PERCENT SLOPES	KENOMA	No	hillslope, paleoterrace	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	WOODSON	No	divide, paleoterrace	---	---	---	---
Ko: KENOMA-OLPE COMPLEX, 2 TO 7 PERCENT SLOPES	KENOMA	No	hillslope, paleoterrace	---	---	---	---
	OLPE	No	hillslope, paleoterrace	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
Kw: KENOMA AND WOODSON SOILS, 1 TO 3 PERCENT SLOPES, ERODED	KENOMA	No	hillslope, paleoterrace	---	---	---	---
	WOODSON	No	divide, paleoterrace	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	DWIGHT	No	divide, hillslope	---	---	---	---
La: LEANNA SILT LOAM, OCCASIONALLY FLOODED	LEANNA	No	flood plain	---	---	---	---
	HEPLER	No	flood plain	---	---	---	---
Lb: LULA SILT LOAM, 0 TO 2 PERCENT SLOPES	OSAGE	Yes	flood plain	2B3	YES	NO	NO
	LULA	No	hillslope	---	---	---	---
	CLARESON	No	hillslope	---	---	---	---
	KENOMA	No	hillslope, paleoterrace	---	---	---	---
Ld: LULA-DWIGHT COMPLEX, 0 TO 2 PERCENT SLOPES	LULA	No	hillslope	---	---	---	---
	DWIGHT	No	divide, hillslope	---	---	---	---
	KENOMA	No	hillslope, paleoterrace	---	---	---	---
	CLARESON	No	hillslope	---	---	---	---
Ma: MASON SILT LOAM, RARELY FLOODED	MASON	No	stream terrace	---	---	---	---
	HEPLER	No	flood plain	---	---	---	---
Ns: NIOTAZE-STEPHENVILLE COMPLEX, 4 TO 25 PERCENT SLOPES	VERDIGRIS	No	flood plain	---	---	---	---
	NIOTAZE	No	hillslope	---	---	---	---
	STEPHENVILLE	No	hillslope	---	---	---	---
	DARNELL	No	hillslope	---	---	---	---
Od: OLPE SOILS, 4 TO 15 PERCENT SLOPES	OLPE	No	hillslope, paleoterrace	---	---	---	---
	KENOMA	No	hillslope, paleoterrace	---	---	---	---
	LULA	No	hillslope	---	---	---	---
Og: OSAGE SILTY CLAY, OCCASIONALLY FLOODED	OSAGE	Yes	flood plain	2B3	YES	NO	NO
	LEANNA	No	flood plain	---	---	---	---
	OSAGE	Yes	flood plain	2B3	YES	NO	NO
Os: OSAGE SILTY CLAY LOAM, OCCASIONALLY FLOODED	VERDIGRIS	No	flood plain	---	---	---	---
	OSAGE	Yes	flood plain	2B3	YES	NO	NO
	LEANNA	No	flood plain	---	---	---	---
Rc: RINGO SILTY CLAY LOAM, 4 TO 7 PERCENT SLOPES	OSAGE	Yes	flood plain	2B3	YES	NO	NO
	VERDIGRIS	No	flood plain	---	---	---	---
	RINGO	No	hillslope	---	---	---	---
	SUMMIT	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
Rd: RINGO-SOGN COMPLEX, 4 TO 15 PERCENT SLOPES	RINGO	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
Sa: STEPHENVILLE FINE SANDY LOAM, 1 TO 4 PERCENT SLOPES	CLARESON	No	hillslope	---	---	---	---
	STEPHENVILLE	No	hillslope	---	---	---	---
Sd: SUMMIT SILTY CLAY LOAM, 1 TO 4 PERCENT SLOPES	DARNELL	No	hillslope	---	---	---	---
	NIOTAZE	No	hillslope	---	---	---	---
Se: SUMMIT SILTY CLAY LOAM, 4 TO 7 PERCENT SLOPES	SUMMIT	No	hillslope	---	---	---	---
	RINGO	No	hillslope	---	---	---	---
Va: VERDIGRIS SILT LOAM, OCCASIONALLY FLOODED	WOODSON	No	divide, paleoterrace	---	---	---	---
	SUMMIT	No	hillslope	---	---	---	---
Vc: VERDIGRIS SOILS, CHANNELED	RINGO	No	hillslope	---	---	---	---
	VERDIGRIS	No	flood plain	---	---	---	---
W: WATER	HEPLER	No	flood plain	---	---	---	---
	MASON	No	stream terrace	---	---	---	---
Wa: WOODSON SILT LOAM, 0 TO 2 PERCENT SLOPES	OSAGE	Yes	flood plain	2B3	YES	NO	NO
	VERDIGRIS	No	flood plain	---	---	---	---
Za: ZAAR SILTY CLAY, 1 TO 4 PERCENT SLOPES	HEPLER	No	flood plain	---	---	---	---
	LEANNA	No	flood plain	---	---	---	---
Za: ZAAR SILTY CLAY, 1 TO 4 PERCENT SLOPES	WATER	Yes	---	4,3	NO	YES	YES
	WOODSON	No	divide, paleoterrace	---	---	---	---
Za: ZAAR SILTY CLAY, 1 TO 4 PERCENT SLOPES	KENOMA	No	hillslope, paleoterrace	---	---	---	---
	SUMMIT	No	hillslope	---	---	---	---
Za: ZAAR SILTY CLAY, 1 TO 4 PERCENT SLOPES	ZAAR	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
Za: ZAAR SILTY CLAY, 1 TO 4 PERCENT SLOPES	WOODSON	No	paleoterrace, 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

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.

