

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
059CM: CLARESON-ERAM SILTY CLAY LOAMS, 3 TO 15 PERCENT SLOPES	CLARESON	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	BATES	No	hillslope	---	---	---	---
	ROCK OUTCROP	Unranked	hillslope	---	---	---	---
059DC: DENNIS SILT LOAM, 2 TO 5 PERCENT SLOPES	DENNIS	No	hillslope	---	---	---	---
	BATES	No	hillslope	---	---	---	---
059EC: ERAM-LULA COMPLEX, 3 TO 7 PERCENT SLOPES	WOODSON	No	divide	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	LULA	No	hillslope	---	---	---	---
	BATES	No	hillslope	---	---	---	---
059LN: LEBO-ROCK OUTCROP COMPLEX, 20 TO 40 PERCENT SLOPES	KENOMA	Unranked	hillslope	---	---	---	---
	OLPE	No	paleoterrace	---	---	---	---
	LEBO	No	hillslope	---	---	---	---
	ROCK OUTCROP	Unranked	ridge	---	---	---	---
091OC: OSKA-MARTIN COMPLEX, 4 TO 8 PERCENT SLOPES	CLARESON	No	hillslope	---	---	---	---
	OSKA	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	SHARPSBURG	No	hillslope	---	---	---	---
1051: ARISBURG SILT LOAM, 1 TO 3 PERCENT SLOPES	SIBLEYVILLE	Unranked	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	VINLAND	Unranked	hillslope	---	---	---	---
	ARISBURG	Unranked	hillslope	---	---	---	---
1109: BATES LOAM, 1 TO 4 PERCENT SLOPES	SUMMIT	Unranked	interfluv	---	---	---	---
	WAGSTAFF	Unranked	interfluv	---	---	---	---
	BATES	Unranked	hillslope	---	---	---	---
	DENNIS	Unranked	hillslope	---	---	---	---
1112: BATES LOAM, 4 TO 8 PERCENT SLOPES	ERAM	Unranked	hillslope	---	---	---	---
	ROCK OUTCROP	---	hillslope	---	---	---	---
	SHIDLER	---	hillslope	---	---	---	---
	BATES	Unranked	hillslope	---	---	---	---
1187: BUCYRUS SILT LOAM, 1 TO 4 PERCENT SLOPES	ERAM	Unranked	hillslope	---	---	---	---
	SHIDLER	---	hillslope	---	---	---	---
	WAGSTAFF	Unranked	hillslope	---	---	---	---
	BUCYRUS	Unranked	hillslope	---	---	---	---
1188: BUCYRUS SILTY CLAY LOAM, 4 TO 8 PERCENT SLOPES	ERAM	Unranked	hillslope	---	---	---	---
	SHIDLER	---	hillslope	---	---	---	---
	BUCYRUS	Unranked	hillslope	---	---	---	---
	ERAM	Unranked	hillslope	---	---	---	---
1366: CLARESON-ROCK OUTCROP COMPLEX, 2 TO 15 PERCENT SLOPES	SHIDLER	---	hillslope	---	---	---	---
	CLARESON	No	hillslope	---	---	---	---
	ROCK OUTCROP	Unranked	hillslope	---	---	---	---
	ERAM	Unranked	hillslope	---	---	---	---
1516: DENNIS SILT LOAM, 1 TO 3 PERCENT SLOPES	LEBO	Unranked	hillslope	---	---	---	---
	SUMMIT	Unranked	hillslope	---	---	---	---
	WAGSTAFF	Unranked	hillslope	---	---	---	---
	DENNIS	Unranked	hillslope	---	---	---	---
1518: DENNIS SILT LOAM, 2 TO 5 PERCENT SLOPES	BATES	Unranked	hillslope	---	---	---	---
	ERAM	Unranked	hillslope	---	---	---	---
	KENOMA	Unranked	hillslope	---	---	---	---
	DENNIS	Unranked	hillslope	---	---	---	---
	BATES	Unranked	hillslope	---	---	---	---
	ERAM	Unranked	hillslope	---	---	---	---
	KENOMA	Unranked	hillslope	---	---	---	---
	DENNIS	Unranked	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
1639: ERAM SILTY CLAY LOAM, 1 TO 4 PERCENT SLOPES	ERAM	No	hillslope	---	---	---	---
	SHIDLER	---	hillslope	---	---	---	---
	SUMMIT	Unranked	hillslope	---	---	---	---
	WAGSTAFF	Unranked	hillslope	---	---	---	---
1641: ERAM-SHIDLER SILTY CLAY LOAMS, 4 TO 8 PERCENT SLOPES	ERAM	Unranked	hillslope	---	---	---	---
	SHIDLER	---	hillslope	---	---	---	---
	LEBO	Unranked	hillslope	---	---	---	---
	SUMMIT	Unranked	hillslope	---	---	---	---
	WAGSTAFF	Unranked	hillslope	---	---	---	---
1651: ERAM-LEBO SILTY CLAY LOAMS, 5 TO 20 PERCENT SLOPES	ERAM	Unranked	hillslope	---	---	---	---
	LEBO	Unranked	hillslope	---	---	---	---
	CLARESON	Unranked	hillslope	---	---	---	---
	DENNIS	Unranked	hillslope	---	---	---	---
1953: HEPLER SILT LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	HEPLER	Unranked	flood plain	---	---	---	---
	MASON	Unranked	flood plain	---	---	---	---
2326: KENOMA SILT LOAM, 1 TO 4 PERCENT SLOPES	KENOMA	Unranked	hillslope	---	---	---	---
	ERAM	Unranked	hillslope	---	---	---	---
	WOODSON	Unranked	hillslope	---	---	---	---
2541: LEBO CHANNERY SILTY CLAY LOAM, 15 TO 30 PERCENT SLOPES	LEBO	Unranked	hillslope	---	---	---	---
	CLARESON	Unranked	hillslope	---	---	---	---
	ERAM	Unranked	hillslope	---	---	---	---
	WAGSTAFF	Unranked	hillslope	---	---	---	---
2700: ORTHENTS, SHALLOW	ORTHENTS	Unranked	hillslope	---	---	---	---
2741: MASON SILT LOAM, 0 TO 2 PERCENT SLOPES, RARELY FLOODED	MASON	Unranked	stream terrace	---	---	---	---
	HEPLER	Unranked	flood plain	---	---	---	---
	OSAGE	Unranked	flood plain	2B3,3	YES	NO	YES
	VERDIGRIS	Unranked	flood plain	---	---	---	---
3003: OKEMAH SILT LOAM, 0 TO 3 PERCENT SLOPES	OKEMAH	Unranked	hillslope	---	---	---	---
	WOODSON	Unranked	hillslope	---	---	---	---
3026: OSAGE SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	OSAGE	Unranked	flood plain	2B3,3	YES	NO	YES
	VERDIGRIS	Unranked	flood plain	---	---	---	---
	WYNONA	Unranked	flood plain	---	---	---	---
3028: OSAGE SILTY CLAY, OCCASIONALLY FLOODED	OSAGE	Unranked	flood plain	2B3,3	YES	NO	YES
	VERDIGRIS	Unranked	flood plain	---	---	---	---
	WYNONA	Unranked	flood plain	---	---	---	---
3494: SUMMIT SILTY CLAY LOAM, 1 TO 4 PERCENT SLOPES	SUMMIT	No	hillslope	---	---	---	---
	KENOMA	Unranked	hillslope	---	---	---	---
	WAGSTAFF	Unranked	hillslope	---	---	---	---
3495: SUMMIT SILTY CLAY LOAM, 4 TO 8 PERCENT SLOPES	SUMMIT	Unranked	hillslope	---	---	---	---
	DENNIS	Unranked	hillslope	---	---	---	---
	SHIDLER	---	hillslope	---	---	---	---
	WAGSTAFF	Unranked	hillslope	---	---	---	---
3815: VERDIGRIS SILT LOAM, 0 TO 2 PERCENT SLOPES, FREQUENT FLOODING	VERDIGRIS	Unranked	flood plain	---	---	---	---
	SUMMIT	Unranked	hillslope	---	---	---	---
	OSAGE	Unranked	flood plain	2B3,3	YES	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
3816: VERDIGRIS SILT LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	VERDIGRIS	Unranked	flood plain	---	---	---	---
	OSAGE	Unranked	flood plain	2B3,3	YES	NO	YES
3929: WELDA SILT LOAM, 2 TO 5 PERCENT SLOPES	WELDA	Unranked	---	---	---	---	---
	WAGSTAFF	Unranked	interfluve	---	---	---	---
3951: WOODSON SILT LOAM, 1 TO 3 PERCENT SLOPES	WOODSON	Unranked	paleoterrace	---	---	---	---
	KENOMA	Unranked	hillslope	---	---	---	---
	SUMMIT	Unranked	hillslope	---	---	---	---
3971: WAGSTAFF SILT LOAM, 1 TO 3 PERCENT SLOPES	WAGSTAFF	Unranked	hillslope	---	---	---	---
	BUCYRUS	Unranked	interfluve	---	---	---	---
	SUMMIT	Unranked	interfluve	---	---	---	---
3972: WAGSTAFF SILTY CLAY LOAM, 3 TO 6 PERCENT SLOPES	WAGSTAFF	Unranked	hillslope	---	---	---	---
	SHIDLER	---	hillslope	---	---	---	---
3973: WAGSTAFF-SUMMIT SILTY CLAY LOAMS, 4 TO 8 PERCENT SLOPES	WAGSTAFF	Unranked	hillslope	---	---	---	---
	SUMMIT	Unranked	hillslope	---	---	---	---
	BUCYRUS	Unranked	hillslope	---	---	---	---
	ERAM	Unranked	interfluve	---	---	---	---
3974: WYNONA SILT LOAM, OCCASIONALLY FLOODED	WYNONA	Unranked	flood plain	---	---	---	---
	OSAGE	Unranked	flood plain	2B3,3	YES	NO	YES
Bb: BATES LOAM, 1 TO 4 PERCENT SLOPES	BATES	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	ROCK OUTCROP	---	---	---	---	---	---
Bc: BATES LOAM, 4 TO 8 PERCENT SLOPES	BATES	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	LEBO	No	hillslope	---	---	---	---
	ROCK OUTCROP	---	---	---	---	---	---
Cb: CATOOSA SILT LOAM, 1 TO 3 PERCENT SLOPES	CATOOSA	No	ridge	---	---	---	---
	CLARESON	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
Cm: CLARESON-ROCK OUTCROP COMPLEX, 2 TO 15 PERCENT SLOPES	CLARESON	No	hillslope	---	---	---	---
	ROCK OUTCROP	Unranked	ridge	---	---	---	---
	CATOOSA	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	LEBO	No	hillslope	---	---	---	---
De: DENNIS SILT LOAM, 1 TO 3 PERCENT SLOPES	DENNIS	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	KENOMA	No	hillslope	---	---	---	---
Df: DENNIS SILT LOAM, 3 TO 6 PERCENT SLOPES	DENNIS	No	hillslope	---	---	---	---
	BATES	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	KENOMA	No	hillslope	---	---	---	---
Ec: ERAM SILTY CLAY LOAM, 1 TO 4 PERCENT SLOPES	ERAM	No	hillslope	---	---	---	---
	BATES	No	hillslope	---	---	---	---
	CATOOSA	No	hillslope	---	---	---	---
	DENNIS	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
Ed: ERAM SILTY CLAY LOAM , 4 TO 8 PERCENT SLOPES	ERAM	No	hillslope	---	---	---	---
	BATES	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	LEBO	No	hillslope	---	---	---	---
	SUMMIT	No	hillslope	---	---	---	---
Ef: ERAM-LEBO SILTY CLAY LOAMS, 5 TO 20 PERCENT SLOPES	ERAM	No	hillslope	---	---	---	---
	LEBO	No	hillslope	---	---	---	---
	CLARESON	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
Gc: GRUNDY SILT LOAM, 1 TO 3 PERCENT SLOPES	GRUNDY	No	hillslope	---	---	---	---
	KENOMA	Unranked	hillslope	---	---	---	---
	NEWTONIA	No	hillslope	---	---	---	---
Hp: HEPLER SILT LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	HEPLER	No	flood plain	---	---	---	---
	MASON	No	stream terrace	---	---	---	---
Ke: KENOMA SILT LOAM, 1 TO 4 PERCENT SLOPES	KENOMA	No	hillslope	---	---	---	---
	CATOOSA	No	ridge	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
La: LANTON SILT LOAM, OCCASIONALLY FLOODED	LANTON	No	flood plain	---	---	---	---
	OSAGE	Yes	flood plain	2B3	YES	NO	NO
Lb: LEBO CHANNERY SILTY CLAY LOAM, 15 TO 30 PERCENT SLOPES	LEBO	No	hillslope	---	---	---	---
	CLARESON	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
Lu: LULA SILT LOAM, 0 TO 3 PERCENT SLOPES	LULA	No	hillslope	---	---	---	---
	CATOOSA	No	hillslope	---	---	---	---
	CLARESON	No	hillslope	---	---	---	---
	KENOMA	No	hillslope	---	---	---	---
Mb: MASON SILT LOAM, 0 TO 2 PERCENT SLOPES, RARELY FLOODED	MASON	No	stream terrace	---	---	---	---
	HEPLER	No	flood plain	---	---	---	---
	OSAGE	Yes	flood plain	2B3	YES	NO	NO
	VERDIGRIS	No	flood plain	---	---	---	---
Nf: NEWTONIA SILT LOAM, 0 TO 1 PERCENT SLOPES	NEWTONIA	No	hillslope	---	---	---	---
	GRUNDY	No	hillslope	---	---	---	---
	KENOMA	Unranked	hillslope	---	---	---	---
Ng: NEWTONIA SILT LOAM, 1 TO 4 PERCENT SLOPES	NEWTONIA	No	hillslope	---	---	---	---
	GRUNDY	No	hillslope	---	---	---	---
	WELDA	Unranked	---	---	---	---	---
Nh: NEWTONIA SILT LOAM, 4 TO 8 PERCENT SLOPES	NEWTONIA	No	hillslope	---	---	---	---
	GRUNDY	No	hillslope	---	---	---	---
Oh: OKEMAH SILT LOAM, 0 TO 3 PERCENT SLOPES	OKEMAH	No	hillslope	---	---	---	---
	WOODSON	No	interfluv	---	---	---	---
Ot: OSAGE SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	OSAGE	Yes	flood plain	2B3	YES	NO	NO
	LANTON	No	flood plain	---	---	---	---
	VERDIGRIS	No	flood plain	---	---	---	---
Ov: OSAGE SILTY CLAY, OCCASIONALLY FLOODED	OSAGE	Yes	flood plain	2B3	YES	NO	NO
	VERDIGRIS	No	flood plain	---	---	---	---

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				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
Pc: PARSONS SILT LOAM, 0 TO 2 PERCENT SLOPES	PARSONS	No	paleoterrace	---	---	---	---
	DENNIS ZAAR	No	hillslope	---	---	---	---
Po: PITS, QUARRIES	PITS	Unranked	---	---	---	---	---
Sn: SUMMIT SILTY CLAY LOAM, 1 TO 4 PERCENT SLOPES	SUMMIT	No	hillslope	---	---	---	---
	CATOOSA	No	hillslope	---	---	---	---
So: SUMMIT SILTY CLAY LOAM, 4 TO 8 PERCENT SLOPES	SUMMIT	No	hillslope	---	---	---	---
	CATOOSA DENNIS	No	ridge hillslope	---	---	---	---
Vb: VERDIGRIS SILT LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	VERDIGRIS	No	flood plain	---	---	---	---
Vc: VERDIGRIS SILT LOAM, 0 TO 2 PERCENT SLOPES, FREQUENTLY FLOODED	OSAGE	Yes	flood plain	2B3	YES	NO	NO
	VERDIGRIS	No	flood plain	---	---	---	---
We: WELDA SILT LOAM, 2 TO 5 PERCENT SLOPES	OSAGE SUMMIT	Yes	flood plain hillslope	2B3	YES	NO	NO
	WELDA	No	stream terrace	---	---	---	---
Wo: WOODSON SILT LOAM, 0 TO 2 PERCENT SLOPES	CATOOSA	No	hillslope	---	---	---	---
	WOODSON	No	interfluv	---	---	---	---
	SUMMIT OKEMAH	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.

