

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	---	---	---	---
	ZAAR	No	hillslope	---	---	---	---
001CB: CATOOSA-ROCK OUTCROP COMPLEX, 1 TO 8 PERCENT SLOPES	CATOOSA	No	hillslope	---	---	---	---
	ROCK OUTCROP ERAM	Unranked No	hillslope hill	---	---	---	---
001CC: COLLINSVILLE-BATES COMPLEX, 2 TO 15 PERCENT SLOPES	COLLINSVILLE	No	hillslope	---	---	---	---
	BATES	No	hillslope	---	---	---	---
	CATOOSA	No	ridge	---	---	---	---
	DENNIS ERAM	No No	hillslope hill	---	---	---	---
001EC: ERAM SILTY CLAY LOAM, 2 TO 7 PERCENT SLOPES, ERODED	ERAM	No	hillslope	---	---	---	---
	BATES	No	hillslope	---	---	---	---
031EB: ERAM SILT LOAM, 1 TO 3 PERCENT SLOPES	ERAM	No	hillslope	---	---	---	---
	COLLINSVILLE DWIGHT	No No	hillslope hillslope	---	---	---	---
031EC: ERAM SILT LOAM, 3 TO 7 PERCENT SLOPES	ERAM	No	hillslope	---	---	---	---
	COLLINSVILLE SHIDLER	No No	hillslope hillslope	---	---	---	---
031EP: ERAM-APPERSON SILTY CLAY LOAMS, 4 TO 7 PERCENT SLOPES	ERAM	No	hillslope	---	---	---	---
	APPERSON	No	hillslope	---	---	---	---
	CLARESON	No	hillslope	---	---	---	---
	ROCK OUTCROP SHIDLER	--- No	hillslope rim	---	---	---	---
031ER: ERAM-COLLINSVILLE COMPLEX, 4 TO 15 PERCENT SLOPES	ERAM	No	hillslope	---	---	---	---
	COLLINSVILLE	No	hillslope	---	---	---	---
	APPERSON	No	hillslope	---	---	---	---
	BATES	No	hillslope	---	---	---	---
031LU: LULA SILT LOAM, 0 TO 2 PERCENT SLOPES	SUMMIT	No	hillslope	---	---	---	---
	LULA	No	hillslope	---	---	---	---
	APPERSON	No	hillslope	---	---	---	---
	DWIGHT	No	hillslope	---	---	---	---
059CM: CLARESON-ERAM SILTY CLAY LOAMS, 3 TO 15 PERCENT SLOPES	KENOMA	No	hillslope	---	---	---	---
	SHIDLER	No	hillslope	---	---	---	---
	CLARESON	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
059DN: DENNIS-BATES COMPLEX, 2 TO 6 PERCENT SLOPES	BATES	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	OSAGE	Yes	flood plain	2B3	YES	NO	NO
	ERAM	No	hillslope	---	---	---	---
059EA: ERAM-LEBO SILTY CLAY LOAMS, 7 TO 12 PERCENT SLOPES	LEBO	No	hillslope	---	---	---	---
	CLARESON	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
059EC: ERAM-LULA COMPLEX, 3 TO 7 PERCENT SLOPES	LULA	No	hillslope	---	---	---	---
	BATES	No	hillslope	---	---	---	---
	KENOMA	Unranked	hillslope	---	---	---	---
	OLPE	No	paleoterrace	---	---	---	---

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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
059LN: LEBO-ROCK OUTCROP COMPLEX, 20 TO 40 PERCENT SLOPES	LEBO	No	hillslope	---	---	---	---
059OV: OSAGE SILTY CLAY, OCCASIONALLY FLOODED	ROCK OUTCROP CLARESON	Unranked No	ridge hillslope	---	---	---	---
	OSAGE	Yes	flood plain	2B3	YES	NO	NO
	VERDIGRIS	No	flood plain	---	---	---	---
602CM: CLARESON-ROCK OUTCROP COMPLEX, 2 TO 15 PERCENT SLOPES	CLARESON	No	hillslope	---	---	---	---
602EF: ERAM-LEBO SILTY CLAY LOAMS, 5 TO 20 PERCENT SLOPES	ROCK OUTCROP CATOOSA	Unranked No	ridge hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	LEBO	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
602LB: LEBO CHANNERY SILTY CLAY LOAM, 15 TO 30 PERCENT SLOPES	LEBO	No	hillslope	---	---	---	---
	CLARESON	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	LEBO	No	hillslope	---	---	---	---
AED: ARENTS, EARTHEN DAM	CLARESON	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
BOP: BORROW PITS	ARENTS, EARTHEN DAM	Unranked	---	---	---	---	---
Cb: BORROW PITS	BORROW PITS	Unranked	---	---	---	---	---
Cc: CATOOSA SILT LOAM, 0 TO 3 PERCENT SLOPES	CATOOSA	No	hillslope	---	---	---	---
	CLARESON	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	KENOMA	No	divide	---	---	---	---
	LULA	No	hillslope	---	---	---	---
	SUMMIT	No	hillslope	---	---	---	---
Cd: CLARESON COMPLEX, 1 TO 4 PERCENT SLOPES	CLARESON	No	hillslope	---	---	---	---
	ROCK OUTCROP CATOOSA	---	hillslope	---	---	---	---
	TALIHINA	No	hillslope	---	---	---	---
Db: DENNIS SILT LOAM, 1 TO 4 PERCENT SLOPES	COLLINSVILLE	No	hillslope	---	---	---	---
	BATES	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	TALIHINA	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	SUMMIT	No	hillslope	---	---	---	---
De: DENNIS SILTY CLAY LOAM, 1 TO 4 PERCENT SLOPES, ERODED	DENNIS	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	KENOMA	No	divide	---	---	---	---
	OKEMAH	No	hillslope	---	---	---	---
Eb: ERAM SILTY CLAY LOAM, 1 TO 4 PERCENT SLOPES	TALIHINA	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	CATOOSA	No	hillslope	---	---	---	---
	COLLINSVILLE	No	hillslope	---	---	---	---
	SUMMIT	No	hillslope	---	---	---	---
	TALIHINA	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
Ec: ERAM SILTY CLAY LOAM, 4 TO 7 PERCENT SLOPES	ERAM	No	hillslope	---	---	---	---
	CATOOSA	No	hillslope	---	---	---	---
	CLARESON	No	hillslope	---	---	---	---
	COLLINSVILLE	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	SUMMIT	No	hillslope	---	---	---	---
	TALIHINA	No	hillslope	---	---	---	---
Ed: ERAM SOILS, 1 TO 4 PERCENT SLOPES, ERODED	ERAM	No	hillslope	---	---	---	---
	COLLINSVILLE	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
Eh: ERAM SOILS, 4 TO 7 PERCENT SLOPES, ERODED	TALIHINA	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	COLLINSVILLE	No	hillslope	---	---	---	---
Ek: ERAM-CLARESON COMPLEX, 1 TO 15 PERCENT SLOPES	DENNIS	No	hillslope	---	---	---	---
	TALIHINA	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	CLARESON	No	hillslope	---	---	---	---
	ROCK OUTCROP	---	hillslope	---	---	---	---
	SUMMIT	No	hillslope	---	---	---	---
	CATOOSA	No	hillslope	---	---	---	---
Eo: ERAM-GULLIED LAND COMPLEX, 3 TO 7 PERCENT SLOPES	DENNIS	No	hillslope	---	---	---	---
	TALIHINA	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	GULLIED LAND	Unranked	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	TALIHINA	No	hillslope	---	---	---	---
	COLLINSVILLE	No	hillslope	---	---	---	---
Ep: ERAM-TALIHINA SILTY CLAY LOAMS, 5 TO 20 PERCENT SLOPES	SUMMIT	No	hillslope	---	---	---	---
	CLARESON	No	hillslope	---	---	---	---
	COLLINSVILLE	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	VERDIGRIS	No	flood plain	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
Ev: ERAM-VERDIGRIS COMPLEX, 0 TO 8 PERCENT SLOPES	KENOMA	No	hillslope	---	---	---	---
	MASON	No	stream terrace	---	---	---	---
	OSAGE	Yes	flood plain	2B3	YES	NO	NO
	SUMMIT	No	hillslope	---	---	---	---
	TALIHINA	No	hillslope	---	---	---	---
	WOODSON	No	divide	---	---	---	---
	VERDIGRIS	No	flood plain	---	---	---	---
GRP: GRAVEL PIT	GRAVEL PITS	Unranked	---	---	---	---	---
Kb: KENOMA SILT LOAM, 1 TO 4 PERCENT SLOPES	KENOMA	No	hillslope	---	---	---	---
	CATOOSA	No	hillslope	---	---	---	---
	CLARESON	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	OLPE	No	paleoterrace	---	---	---	---
	SUMMIT	No	hillslope	---	---	---	---
	WOODSON	No	divide	---	---	---	---

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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
Kd: KENOMA SOILS, 1 TO 4 PERCENT SLOPES, ERODED	KENOMA	No	hillslope	---	---	---	---
	CATOOSA	No	hillslope	---	---	---	---
	CLARESON	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	OLPE	No	paleoterrace	---	---	---	---
	SUMMIT	No	hillslope	---	---	---	---
	WOODSON	No	divide	---	---	---	---
Kh: KENOMA-OLPE COMPLEX, 2 TO 7 PERCENT SLOPES	KENOMA	No	hillslope	---	---	---	---
	OLPE	No	paleoterrace	---	---	---	---
	CATOOSA	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	SUMMIT	No	hillslope	---	---	---	---
	WOODSON	No	divide	---	---	---	---
La: LANTON SILTY CLAY LOAM, OCCASIONALLY FLOODED	LANTON	No	flood plain	---	---	---	---
	MASON	No	stream terrace	---	---	---	---
	OSAGE	Yes	flood plain	2B3	YES	NO	NO
	VERDIGRIS	No	flood plain	---	---	---	---
Le: LEANNA SILT LOAM, OCCASIONALLY FLOODED	LEANNA	No	flood plain	---	---	---	---
	LANTON	No	flood plain	---	---	---	---
	OSAGE	Yes	flood plain	2B3	YES	NO	NO
	VERDIGRIS	No	flood plain	---	---	---	---
Lh: LULA SILT LOAM, 0 TO 3 PERCENT SLOPES	LULA	No	hillslope	---	---	---	---
	CATOOSA	No	hillslope	---	---	---	---
	CLARESON	No	hillslope	---	---	---	---
	KENOMA	No	hillslope	---	---	---	---
LIQ: LIMESTONE QUARRY	LIMESTONE QUARRY	Unranked	---	---	---	---	---
Me: MASON SILT LOAM, RARELY FLOODED	MASON	No	stream terrace	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	LANTON	No	flood plain	---	---	---	---
	OSAGE	Yes	flood plain	2B3	YES	NO	NO
	VERDIGRIS	No	flood plain	---	---	---	---
	WELDA	No	hillslope	---	---	---	---
Mf: MAYES SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES	MAYES	No	hillslope	---	---	---	---
	OSAGE	Yes	flood plain	2B3	YES	NO	NO
	WOODSON	No	divide	---	---	---	---
Ok: OKEMAH SILT LOAM, 0 TO 2 PERCENT SLOPES	OKEMAH	No	hillslope	---	---	---	---
	CATOOSA	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	LULA	No	hillslope	---	---	---	---
	SUMMIT	No	hillslope	---	---	---	---
	WOODSON	No	divide	---	---	---	---
Op: OLPE GRAVELLY SILT LOAM, 3 TO 15 PERCENT SLOPES	OLPE	No	paleoterrace	---	---	---	---
	CATOOSA	No	hillslope	---	---	---	---
	CLARESON	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	KENOMA	No	hillslope	---	---	---	---
Os: OSAGE SILTY CLAY LOAM, OCCASIONALLY FLOODED	OSAGE	Yes	flood plain	2B3	YES	NO	NO
	LANTON	No	flood plain	---	---	---	---
	VERDIGRIS	No	flood plain	---	---	---	---

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				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
Se: STONY LAND-TALIHINA COMPLEX, 15 TO 45 PERCENT SLOPES	STONY LAND	Unranked	hillslope	---	---	---	---
	TALIHINA	No	hillslope	---	---	---	---
	CLARESON	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	SUMMIT	No	hillslope	---	---	---	---
Sf: SUMMIT SILTY CLAY LOAM, 1 TO 4 PERCENT SLOPES	SUMMIT	No	hillslope	---	---	---	---
	CATOOSA	No	hillslope	---	---	---	---
	CLARESON	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	LULA	No	hillslope	---	---	---	---
	OKEMAH	No	hillslope	---	---	---	---
	WOODSON	No	divide	---	---	---	---
Sh: SUMMIT SILTY CLAY LOAM, 4 TO 7 PERCENT SLOPES	SUMMIT	No	hillslope	---	---	---	---
	CLARESON	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	OKEMAH	No	hillslope	---	---	---	---
Sk: SUMMIT SOILS, 1 TO 4 PERCENT SLOPES, ERODED	SUMMIT	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	WOODSON	No	divide	---	---	---	---
So: SUMMIT-ERAM COMPLEX, 4 TO 7 PERCENT SLOPES, ERODED	SUMMIT	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	CLARESON	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	KENOMA	No	hillslope	---	---	---	---
VC: VERDIGRIS SILT LOAM, CHanneled	VERDIGRIS	No	flood plain	---	---	---	---
	LEANNA	No	flood plain	---	---	---	---
Vf: VERDIGRIS SILT LOAM, OCCASIONALLY FLOODED	OSAGE	Yes	flood plain	2B3	YES	NO	NO
	VERDIGRIS	No	flood plain	---	---	---	---
	LANTON	No	flood plain	---	---	---	---
	MASON	No	stream terrace	---	---	---	---
Vx: VERDIGRIS SOILS, FREQUENTLY FLOODED	VERDIGRIS	No	flood plain	---	---	---	---
	MASON	No	stream terrace	---	---	---	---
	LANTON	No	flood plain	---	---	---	---
	SUMMIT	No	hillslope	---	---	---	---
	LEANNA	No	flood plain	---	---	---	---
	OSAGE	Yes	flood plain	2B3	YES	NO	NO
W: WATER	WATER	Yes	---	4,3	NO	YES	YES
Wb: WELDA SILT LOAM, 0 TO 2 PERCENT SLOPES	WELDA	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	MASON	No	stream terrace	---	---	---	---
Wc: WELDA SILT LOAM, 2 TO 6 PERCENT SLOPES	WELDA	No	hillslope	---	---	---	---
	DENNIS	No	hillslope	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	SUMMIT	No	hillslope	---	---	---	---
Wd: WOODSON SILT LOAM, 0 TO 1 PERCENT SLOPES	WOODSON	No	divide	---	---	---	---
	KENOMA	No	hillslope	---	---	---	---
	OKEMAH	No	hillslope	---	---	---	---
	SUMMIT	No	hillslope	---	---	---	---

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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
Wf: WOODSON SILT LOAM, 1 TO 3 PERCENT SLOPES  Wh: WOODSON SOILS, 1 TO 3 PERCENT SLOPES, ERODED	WOODSON	No	paleoterrace	---	---	---	---
	ERAM	No	hillslope	---	---	---	---
	KENOMA	No	hillslope	---	---	---	---
	SUMMIT	No	hillslope	---	---	---	---
	WOODSON	No	divide	---	---	---	---
	KENOMA	No	hillslope	---	---	---	---
	SUMMIT	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.

