

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
005SH: SHELBY CLAY LOAM, 5 TO 10 PERCENT SLOPES	SHELBY	No	hillslope	---	---	---	---
	KENNEBEC	No	flood plain	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	SHARPSBURG	No	hillslope	---	---	---	---
005SM: 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	---	---	---	---
005VS: VINLAND SILTY CLAY LOAM, 4 TO 15 PERCENT SLOPES	VINLAND	No	hillslope	---	---	---	---
	ROCK OUTCROP	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
013WN: WYMORE SILTY CLAY LOAM, 5 TO 9 PERCENT SLOPES	PAWNEE	No	hillslope	---	---	---	---
	WYMORE	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	MAYBERRY	No	hillslope	---	---	---	---
045VM: VINLAND-MARTIN COMPLEX, 7 TO 15 PERCENT SLOPES	KENNEBEC	No	flood plain	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	Unnamed soil	No	hillslope	---	---	---	---
	SIBLEYVILLE	No	hillslope	---	---	---	---
085MC: MARTIN-VINLAND SILTY CLAY LOAMS, 5 TO 10 PERCENT SLOPES	SOGN	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
	CLIME	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
085WB: WYMORE SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES	ROCK OUTCROP	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	WYMORE	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
177SM: SHELBY CLAY LOAM, 3 TO 8 PERCENT SLOPES	SHELBY	No	hillslope	---	---	---	---
	ELMONT	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	MORRILL	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
601GT: GRUNDY SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES	GRUNDY	No	hillslope	---	---	---	---
	SHARPSBURG	No	hillslope	---	---	---	---
601SH: SHELBY LOAM, 4 TO 8 PERCENT SLOPES	SHELBY	No	hillslope	---	---	---	---
	ELMONT	No	hillslope	---	---	---	---
	OSKA	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	SHARPSBURG	No	hillslope	---	---	---	---
601SM: SHELBY LOAM, 8 TO 12 PERCENT SLOPES	SHELBY	No	hillslope	---	---	---	---
	ELMONT	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
AED: ARENTS, EARTHEN DAM	ARENTS, EARTHEN DAM	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
Be: BISMARCKGROVE-KIMO COMPLEX, 1 TO 3 PERCENT SLOPES, RARELY FLOODED	BISMARCKGROVE	No	flood-plain step	---	---	---	---
	KIMO	No	meander scar	---	---	---	---
	EUDORA	No	flood-plain step	---	---	---	---
	BOURBONNAIS	No	flood-plain step	---	---	---	---
Bp: BELVUE SILT LOAM, ESCARPMENT, 2 TO 12 PERCENT SLOPES	STONEHOUSE	No	flood-plain step	---	---	---	---
	BELVUE	Unranked	flood-plain step	---	---	---	---
	KIMO, OVERWASH	Unranked	meander scar	---	---	---	---
	BOURBONNAIS	No	flood-plain step	---	---	---	---
Bx: BOURBONNAIS- BISMARCKGROVE COMPLEX, 0 TO 2 PERCENT SLOPES, RARELY FLOODED	BOURBONNAIS	No	flood-plain step	---	---	---	---
	BISMARCKGROVE	No	flood-plain step	---	---	---	---
	EUDORA	No	flood-plain step	---	---	---	---
	STONEHOUSE	No	flood-plain step	---	---	---	---
By: BOURBONNAIS- BISMARCKGROVE COMPLEX, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	BOURBONNAIS	No	flood-plain step	---	---	---	---
	BISMARCKGROVE	No	flood-plain step	---	---	---	---
	EUDORA	No	flood-plain step	---	---	---	---
	STONEHOUSE	No	flood-plain step	---	---	---	---
Eb: EUDORA-BISMARCKGROVE SILT LOAMS, 0 TO 3 PERCENT SLOPES, OCCASIONALLY FLOODED	BOURBONNAIS	No	flood-plain step	---	---	---	---
	EUDORA	No	flood-plain step	---	---	---	---
	BISMARCKGROVE	No	flood-plain step	---	---	---	---
	BOURBONNAIS	No	flood-plain step	---	---	---	---
Ec: EUDORA-BISMARCKGROVE FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES, OVERWASH, OCCASIONALLY FLOODED	KIMO	No	meander scar	---	---	---	---
	STONEHOUSE	No	flood-plain step	---	---	---	---
	EUDORA	No	flood-plain step	---	---	---	---
	BISMARCKGROVE	No	flood-plain step	---	---	---	---
Ed: EUDORA SILT LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	BOURBONNAIS	No	flood-plain step	---	---	---	---
	KIMO	No	meander scar	---	---	---	---
	STONEHOUSE	No	flood-plain step	---	---	---	---
	EUDORA	No	flood-plain step	---	---	---	---
Eg: EUDORA SILT LOAM, 0 TO 2 PERCENT SLOPES, RARELY FLOODED	BISMARCKGROVE	No	flood-plain step	---	---	---	---
	EUDORA	No	flood-plain step	---	---	---	---
	BOURBONNAIS	No	flood-plain step	---	---	---	---

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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
Fu: FLUVAQUENTS	Fluvaquents	No	flood plain	4	NO	YES	NO
Gb: GRUNDY SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES	GRUNDY	No	hillslope	---	---	---	---
	OSKA	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	SHELBY	No	hillslope	---	---	---	---
Gc: GRUNDY SILTY CLAY LOAM, 2 TO 5 PERCENT SLOPES	GRUNDY	No	hillslope	---	---	---	---
	OSKA	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	SHELBY	No	hillslope	---	---	---	---
GRP: GRAVEL PIT	PITS	Unranked	---	---	---	---	---
Gy: GYMER SILT LOAM, 3 TO 7 PERCENT SLOPES	GYMER	No	hillslope	---	---	---	---
	KONAWA	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	MORRILL	No	hillslope	---	---	---	---
Hc: HAIG SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES	HAIG	Yes	hillslope	2B3	YES	NO	NO
	GRUNDY	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
Kb: KENNEBEC SILT LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	KENNEBEC	No	flood plain	---	---	---	---
	READING	No	terrace	---	---	---	---
	WABASH	Yes	terrace	2B3	YES	NO	NO
Kc: KENNEBEC SOILS, 0 TO 5 PERCENT SLOPES, CHANNELED	KENNEBEC	No	flood plain	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	WABASH	Yes	terrace	2B3	YES	NO	NO
	VINLAND	No	hillslope	---	---	---	---
Ki: KIMO SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES, OCCASIONALLY FLOODED	KIMO	No	flood-plain step	---	---	---	---
	BISMARCKGROVE	No	flood-plain step	---	---	---	---
	EUDORA	No	flood-plain step	---	---	---	---
Km: KIMO SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES, RARELY FLOODED	KIMO	No	meander scar	---	---	---	---
	BISMARCKGROVE	No	flood-plain step	---	---	---	---
Kv: KONAWA COMPLEX, 4 TO 10 PERCENT SLOPES	KONAWA	No	hillslope	---	---	---	---
	GYMER	No	hillslope	---	---	---	---
	MORRILL	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
M-W: MISCELLANEOUS WATER	MISCELLANEOUS WATER	---	---	---	---	---	---
Mb: MARTIN SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES	MARTIN	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	WOODSON	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
Mc: MARTIN SILTY CLAY LOAM, 3 TO 8 PERCENT SLOPES	MARTIN	No	hillslope	---	---	---	---
	OSKA	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
	GYMER	No	hillslope	---	---	---	---
	SIBLEYVILLE	No	hillslope	---	---	---	---
Mh: MARTIN SOILS, 3 TO 8 PERCENT SLOPES, ERODED	MARTIN	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	SIBLEYVILLE	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
Mo: MARTIN-OSKA SILTY CLAY LOAMS, 3 TO 6 PERCENT SLOPES	MARTIN	No	hillslope	---	---	---	---
	OSKA	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
MR: MORRILL CLAY LOAM, 3 TO 7 PERCENT SLOPES	MORRILL	No	hillslope	---	---	---	---
	OSKA	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
Mu: MUSCOTAH SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES, VERY RARELY FLOODED	MUSCOTAH	No	terrace	---	---	---	---
	READING	No	terrace	---	---	---	---
	ROSSVILLE	No	terrace	---	---	---	---
	WABASH	Yes	terrace	2B3	YES	NO	NO
Mv: MORRILL LOAM, 3 TO 7 PERCENT SLOPES	MORRILL	No	hillslope	---	---	---	---
	OSKA	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
Oc: OSKA SILTY CLAY LOAM, 2 TO 6 PERCENT SLOPES	OSKA	No	hillslope	---	---	---	---
	GRUNDY	No	hillslope	---	---	---	---
	GYMER	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
Pb: PAWNEE CLAY LOAM, 1 TO 3 PERCENT SLOPES	PAWNEE	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	WOODSON	No	divide	---	---	---	---
Pc: PAWNEE CLAY LOAM, 3 TO 7 PERCENT SLOPES	PAWNEE	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	MORRILL	No	hillslope	---	---	---	---
	OSKA	No	hillslope	---	---	---	---
PE: PAWNEE CLAY LOAM, 3 TO 7 PERCENT SLOPES, ERODED	PAWNEE	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	MORRILL	No	hillslope	---	---	---	---
Ph: PAWNEE SOILS, 3 TO 7 PERCENT SLOPES, ERODED	PAWNEE	No	hillslope	---	---	---	---
	GRUNDY	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	MORRILL	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	SHELBY	No	hillslope	---	---	---	---
Pt: PITS, QUARRIES	Pits, quarries	Unranked	---	---	---	---	---
QUA: QUARRIES, BORROW AREAS, ETC.	QUARRIES	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
Re: READING SILT LOAM, 0 TO 2 PERCENT SLOPES, VERY RARELY FLOODED, MODERATELY WET	READING	No	terrace	---	---	---	---
	MUSCOTAH ROSSVILLE	No No	terrace terrace	--- ---	--- ---	--- ---	--- ---
Rs: ROSSVILLE SILT LOAM, 0 TO 2 PERCENT SLOPES, VERY RARELY FLOODED	ROSSVILLE	No	terrace	---	---	---	---
	READING MUSCOTAH	No No	terrace terrace	--- ---	--- ---	--- ---	--- ---
Sa: STONEHOUSE-EUDORA COMPLEX, 1 TO 5 PERCENT SLOPES, OCCASIONALLY FLOODED, OVERWASH	STONEHOUSE	No	flood-plain step	---	---	---	---
	EUDORA	No	flood-plain step	---	---	---	---
	BOURBONAIS	No	flood-plain step	---	---	---	---
	BISMARCKGROVE	No	flood-plain step	---	---	---	---
Sc: SHELBY-PAWNEE COMPLEX, 3 TO 8 PERCENT SLOPES	KIMO	No	meander scar	---	---	---	---
	SHELBY	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	GRUNDY	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	MORRILL	No	hillslope	---	---	---	---
	OSKA	No	hillslope	---	---	---	---
	SOGN VINLAND	No No	hillslope hillslope	--- ---	--- ---	--- ---	--- ---
So: SHELBY-PAWNEE COMPLEX, 8 TO 12 PERCENT SLOPES	SHELBY	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	MORRILL	No	hillslope	---	---	---	---
	OSKA	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
Ss: SIBLEYVILLE COMPLEX, 3 TO 7 PERCENT SLOPES	SIBLEYVILLE	No	hillslope	---	---	---	---
	SIBLEYVILLE- like	No	hillslope	---	---	---	---
	SIBLEYVILLE- like	No	hillslope	---	---	---	---
	GYMER	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	SHELBY	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
Sv: SIBLEYVILLE COMPLEX, 7 TO 12 PERCENT SLOPES	SIBLEYVILLE	No	hillslope	---	---	---	---
	SIBLEYVILLE	No	hillslope	---	---	---	---
	SIBLEYVILLE	No	hillslope	---	---	---	---
	GYMER	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	SHELBY	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
Sw: SOGN-VINLAND COMPLEX, 5 TO 20 PERCENT SLOPES	SOGN	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	OSKA	No	hillslope	---	---	---	---
	SIBLEYVILLE	No	hillslope	---	---	---	---

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				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
Vc: VINLAND COMPLEX, 3 TO 7 PERCENT SLOPES	VINLAND	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	OSKA	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
	SHELBY	No	hillslope	---	---	---	---
	SIBLEYVILLE	No	hillslope	---	---	---	---
Vo: VINLAND COMPLEX, 7 TO 15 PERCENT SLOPES	SOGN	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	GYMER	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	PAWNEE	No	hillslope	---	---	---	---
Vx: VINLAND-ROCK OUTCROP COMPLEX, 20 TO 40 PERCENT SLOPES	SHELBY	No	---	---	---	---	---
	SIBLEYVILLE	No	hillslope	---	---	---	---
	ROCK OUTCROP	No	hillslope	---	---	---	---
	VINLAND	No	hillslope	---	---	---	---
	SOGN	No	hillslope	---	---	---	---
	MARTIN	No	hillslope	---	---	---	---
	OSKA	No	hillslope	---	---	---	---
W: WATER	WATER	Yes	---	4,3	NO	YES	YES
Wc: WABASH SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES, OCCASIONALLY FLOODED	WABASH	Yes	terrace	2B3	YES	NO	NO
	KENNEBEC	No	flood plain	---	---	---	---
Wh: WABASH SILTY CLAY, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	READING	No	terrace	---	---	---	---
	WABASH	Yes	terrace	2B3	YES	NO	NO
	MUSCOTAH	No	terrace	---	---	---	---

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.

- All Histosols except Folists, or
- Soils in Aquic suborders, great groups, or subgroups, Albolls suborder, Aquisalids, Pachic subgroups, or Cumulic subgroups that are:
  - Somewhat poorly drained with a water table equal to 0.0 foot (ft) from the surface during the growing season, or
  - poorly drained or very poorly drained and have either:
    - 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
    - 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
    - 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
- Soils that are frequently ponded for long duration or very long duration during the growing season, or
- Soils that are frequently flooded for long duration or very long duration during the growing season.

