

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
027CT: CRETE SILTY CLAY LOAM, 3 TO 7 PERCENT SLOPES	CRETE	No	hillslope	---	---	---	---
	GEARY	No	hillslope	---	---	---	---
	HOLDER	No	hillslope	---	---	---	---
	BENFIELD	No	hillslope	---	---	---	---
	HOBBS	No	flood plain	---	---	---	---
	LANCASTER	No	hillslope	---	---	---	---
027EU: EUDORA LOAM, OCCASIONALLY FLOODED	EUDORA	No	flood plain	---	---	---	---
	CASS	No	flood plain	---	---	---	---
	SARPY	No	flood plain	---	---	---	---
	UNNAMED HYDRIC SOIL (ponding)	Yes	depression, flood plain	3	NO	NO	YES
027HE: HAYNIE-SARPY COMPLEX, OCCASIONALLY FLOODED	HAYNIE	No	flood plain	---	---	---	---
	SARPY	No	flood plain	---	---	---	---
	UNNAMED HYDRIC SOIL (ponding)	Yes	depression, flood plain	3	NO	NO	YES
027HN: HOBBS SILT LOAM, CHANNELED	HOBBS	No	flood plain	---	---	---	---
	MUIR	No	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
089ND: NIBSON SILT LOAM, 5 TO 25 PERCENT SLOPES	NIBSON	No	hillslope	---	---	---	---
123AB: ARMO LOAM, 3 TO 7 PERCENT SLOPES	ARMO	No	hillslope	---	---	---	---
123AC: ARMO LOAM, 7 TO 15 PERCENT SLOPES	ARMO	No	hillslope	---	---	---	---
123HB: HARNEY SILT LOAM, 1 TO 3 PERCENT SLOPES	HARNEY	No	plain	---	---	---	---
123HE: HARNEY-MENTO SILTY CLAY LOAMS, 3 TO 7 PERCENT SLOPES, ERODED	HARNEY	No	plain	---	---	---	---
	MENTO	No	---	---	---	---	---
123LA: LANCASTER-ARMO LOAMS, 3 TO 7 PERCENT SLOPES	LANCASTER	No	hillslope	---	---	---	---
	ARMO	No	hillslope	---	---	---	---
123NA: NEW CAMBRIA SILTY CLAY, RARELY FLOODED	NEW CAMBRIA	No	stream terrace	---	---	---	---
	UNNAMED HYDRIC SOILS	Yes	oxbow lake	2B3,3	YES	NO	YES
123NC: NIBSON SOILS, 3 TO 30 PERCENT SLOPES	NIBSON	No	hillslope	---	---	---	---
123RB: ROXBURY SILT LOAM, CHANNELED	ROXBURY	No	flood plain	---	---	---	---
	UNNAMED HYDRIC SOIL	Yes	flood plain, marsh	2B3	YES	NO	NO
	UNNAMED HYDRIC SOILS	Yes	ephemeral oxbow lake, flood plain	3	NO	NO	YES
123RC: ROXBURY SILT LOAM, OCCASIONALLY FLOODED	ROXBURY	No	flood plain	---	---	---	---
123WA: WAKEEN SILT LOAM, 3 TO 7 PERCENT SLOPES	WAKEEN	No	hillslope	---	---	---	---
143EE: EDALGO-HEDVILLE COMPLEX, 5 TO 30 PERCENT SLOPES	EDALGO	No	---	---	---	---	---
	HEDVILLE	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
143GE: GEARY SILT LOAM, 1 TO 3 PERCENT SLOPES	GEARY	No	hillslope	---	---	---	---
143HE: HEDVILLE-ROCK OUTCROP COMPLEX, 5 TO 30 PERCENT SLOPES	HEDVILLE	No	hillslope	---	---	---	---
	ROCK OUTCROP	Unranked	---	---	---	---	---
143HP: HOBBS-GEARY SILT LOAMS, 0 TO 15 PERCENT SLOPES	HOBBS	No	flood plain	---	---	---	---
	GEARY	No	---	---	---	---	---
143LA: LANCASTER LOAM, 3 TO 7 PERCENT SLOPES	LANCASTER	No	hillslope	---	---	---	---
143RO: ROXBURY SILT LOAM, CHanneled	ROXBURY	No	flood plain	---	---	---	---
	UNNAMED HYDRIC SOILS	Yes	depression	2B3,3	YES	NO	YES
157BK: GEARY-HOBBS SILT LOAMS, 0 TO 30 PERCENT SLOPES	GEARY	No	hillside	---	---	---	---
	HOBBS	No	flood plain	---	---	---	---
	HASTINGS	No	hillside	---	---	---	---
	UNNAMED HYDRIC SOILS	Yes	ephemeral oxbow lake, flood plain	3	NO	NO	YES
157CH: CRETE SILTY CLAY LOAM, 3 TO 7 PERCENT SLOPES	CRETE	No	hillside	---	---	---	---
	HASTINGS	No	hillside	---	---	---	---
	GEARY	No	hillside	---	---	---	---
157ED: EUDORA LOAM, 0 TO 2 PERCENT SLOPES, RARELY FLOODED	EUDORA	No	terrace	---	---	---	---
	MUIR	No	terrace	---	---	---	---
157KN: KENESAW SILT LOAM, 5 TO 12 PERCENT SLOPES, ERODED	KENESAW	No	hillside	---	---	---	---
	HASTINGS	No	hillside	---	---	---	---
157SD: INAVALE LOAMY SAND, 3 TO 12 PERCENT SLOPES	INAVALE	No	dune	---	---	---	---
201CG: CASS FINE SANDY LOAM, OCCASIONALLY FLOODED	CASS	No	flood plain	---	---	---	---
	EUDORA	No	flood plain	---	---	---	---
	MUIR	No	flood plain	---	---	---	---
	SARPY	No	flood plain	---	---	---	---
	HAYNIE	No	flood plain	---	---	---	---
201CS: CRETE SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES	CRETE	No	hillslope	---	---	---	---
	HOBBS	No	flood plain	---	---	---	---
201SA: SARPY LOAMY FINE SAND, 0 TO 5 PERCENT SLOPES, RARELY FLOODED	SARPY	No	dune, terrace	---	---	---	---
	CASS	No	flood plain	---	---	---	---
	EUDORA	No	flood plain	---	---	---	---
Aa: HOBBS SILT LOAM, FREQUENTLY FLOODED	HOBBS	No	flood plain	---	---	---	---
	TOBIN	No	flood plain	---	---	---	---
	UNNAMED HYDRIC SOIL	Yes	flood plain, marsh	2B3	YES	NO	NO
	UNNAMED HYDRIC SOILS	Yes	depression, flood plain	3	NO	NO	YES
Ah: SALTINE SILTY CLAY LOAM, FREQUENTLY FLOODED	Saltine	No	flood plain	---	---	---	---
	UNNAMED HYDRIC SOIL	Yes	flood plain, marsh	2B3	YES	NO	NO
	UNNAMED HYDRIC SOILS	Yes	depression, flood plain	3	NO	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
Ar: ARMO SILT LOAM, 2 TO 7 PERCENT SLOPES	ARMO	No	hillslope	---	---	---	---
	HASTINGS	No	hillslope	---	---	---	---
	WAKEEN	No	hillslope	---	---	---	---
Ba: HASTINGS-HOBBS COMPLEX, 0 TO 25 PERCENT SLOPES	HASTINGS	No	hillslope	---	---	---	---
	HOBBS	No	flood plain	---	---	---	---
	UNNAMED	Yes	flood plain, marsh	2B3	YES	NO	NO
	HYDRIC SOIL						
	UNNAMED	Yes	depression, flood plain	3	NO	NO	YES
	HYDRIC SOILS						
Br: BRIDGEPORT SILT LOAM, OCCASIONALLY FLOODED	BRIDGEPORT	No	flood plain	---	---	---	---
	UNNAMED	Yes	flood plain, marsh	2B3	YES	NO	NO
	HYDRIC SOIL						
	UNNAMED	Yes	depression, flood plain	3	NO	NO	YES
	HYDRIC SOILS						
Ca: COZAD-CASS SOILS, OCCASIONALLY FLOODED	COZAD	No	flood plain	---	---	---	---
	CASS	No	flood plain	---	---	---	---
	MCCOOK	No	stream terrace	---	---	---	---
	MUNJOR	No	flood plain	---	---	---	---
	UNNAMED	Yes	depression, flood plain	2B3,3	YES	NO	YES
	HYDRIC SOIL						
Cb: CASS FINE SANDY LOAM, RARELY FLOODED	Cass	No	terrace	---	---	---	---
Cf: MUNJOR AND INVALE SOILS, 1 TO 4 PERCENT SLOPES, FREQUENTLY FLOODED	MUNJOR	No	flood plain	---	---	---	---
	INVALE	No	flood plain	---	---	---	---
	UNNAMED	Yes	ephemeral oxbow lake, flood plain	3	NO	NO	YES
	HYDRIC SOIL						
CLP: CLAY PITS	CLAY PITS	Unranked	---	---	---	---	---
Cr: CRETE SILT LOAM, 0 TO 1 PERCENT SLOPES	CRETE	No	divide	---	---	---	---
Cs: CRETE SILT LOAM, 1 TO 3 PERCENT SLOPES	CRETE	No	hillslope	---	---	---	---
	HASTINGS	No	divide	---	---	---	---
Ct: CRETE SILT LOAM, 3 TO 6 PERCENT SLOPES	CRETE	No	hillslope	---	---	---	---
	HASTINGS	No	hillslope	---	---	---	---
Cu: CRETE SILTY CLAY LOAM, 2 TO 6 PERCENT SLOPES, ERODED	CRETE	No	hillslope	---	---	---	---
	HASTINGS	No	hillslope	---	---	---	---
De: DETROIT SILTY CLAY LOAM, RARELY FLOODED	DETROIT	No	stream terrace	---	---	---	---
	NEW CAMBRIA	No	stream terrace	---	---	---	---
	MUIR	No	terrace	---	---	---	---
	UNNAMED	Yes	depression, terrace	3,2B3	YES	NO	YES
	HYDRIC SOILS						
Eu: EUDORA SILT LOAM, RARELY FLOODED	EUDORA	No	terrace	---	---	---	---
Ge: GEARY SILT LOAM, 3 TO 7 PERCENT SLOPES	GEARY	No	hillslope	---	---	---	---
	HASTINGS	No	hillslope	---	---	---	---
	WELLS	No	hillslope	---	---	---	---
	LONGFORD	No	hillslope	---	---	---	---
GRP: GRAVEL PITS	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
Gs: GEARY SILTY CLAY LOAM, 3 TO 7 PERCENT SLOPES, SEVERELY ERODED	GEARY	No	hillslope	---	---	---	---
	HASTINGS	No	hillslope	---	---	---	---
	WELLS	No	hillslope	---	---	---	---
	LONGFORD	No	hillslope	---	---	---	---
Hb: HASTINGS SILT LOAM, 1 TO 3 PERCENT SLOPES	HASTINGS	No	divide	---	---	---	---
Hc: HASTINGS SILT LOAM, 3 TO 7 PERCENT SLOPES	CRETE	No	hillslope	---	---	---	---
	HASTINGS	No	hillslope	---	---	---	---
	CRETE	No	hillslope	---	---	---	---
Hd: HASTINGS SILTY CLAY LOAM, 2 TO 6 PERCENT SLOPES, ERODED	GEARY	No	hillslope	---	---	---	---
	HASTINGS	No	hillslope	---	---	---	---
	CRETE	No	hillslope	---	---	---	---
He: HEDVILLE STONY LOAM, 5 TO 30 PERCENT SLOPES	GEARY	No	hillslope	---	---	---	---
	HEDVILLE	No	hillslope	---	---	---	---
	WELLS	No	hillslope	---	---	---	---
Ho: HOBBS SILT LOAM, OCCASIONALLY FLOODED	LANCASTER	No	hillslope	---	---	---	---
	HOBBS	No	flood plain	---	---	---	---
	TOBIN	No	flood plain	---	---	---	---
	MUIR	No	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
Hr: HORD SILT LOAM, RARELY FLOODED	HORD	No	terrace	---	---	---	---
	DETROIT	No	stream terrace	---	---	---	---
	MUIR	No	terrace	---	---	---	---
	UNNAMED HYDRIC SOIL	Yes	depression	3	NO	NO	YES
Hu: HUMBARGER LOAM, OCCASIONALLY FLOODED	HUMBARGER	No	flood plain	---	---	---	---
	COZAD	No	flood plain	---	---	---	---
	CASS	No	flood plain	---	---	---	---
	MCCOOK	No	stream terrace	---	---	---	---
	UNNAMED HYDRIC SOIL	Yes	ephemeral oxbow lake, flood plain	3	NO	NO	YES
Kp: KIPSON SOILS, 5 TO 30 PERCENT SLOPES	KIPSON	No	hillslope	---	---	---	---
	WAKEEN	No	hillslope	---	---	---	---
	HASTINGS	No	hillslope	---	---	---	---
	ARMO	No	hillslope	---	---	---	---
	TOBIN	No	flood plain	---	---	---	---
Lh: LANCASTER-HEDVILLE COMPLEX, 5 TO 30 PERCENT SLOPES	LANCASTER	No	hillslope	---	---	---	---
	HEDVILLE	No	hillslope	---	---	---	---
	EDALGO	No	hillslope	---	---	---	---
	CRETE	No	hillslope	---	---	---	---
	UNNAMED HYDRIC SOIL	Yes	drainageway, marsh	2B3	YES	NO	NO
	UNNAMED HYDRIC SOILS	Yes	hillslope, marsh	2B3	YES	NO	NO
Lm: LONGFORD SILT LOAM, 1 TO 3 PERCENT SLOPES	LONGFORD	No	hillslope	---	---	---	---
	HASTINGS	No	divide	---	---	---	---
	GEARY	No	hillslope	---	---	---	---
	WELLS	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
Ln: LONGFORD SILT LOAM, 3 TO 7 PERCENT SLOPES	LONGFORD	No	hillslope	---	---	---	---
	HASTINGS	No	divide	---	---	---	---
	GEARY	No	hillslope	---	---	---	---
	WELLS	No	hillslope	---	---	---	---
Lo: LONGFORD SILTY CLAY LOAM, 3 TO 7 PERCENT SLOPES, ERODED	LONGFORD	No	hillslope	---	---	---	---
	HASTINGS	No	hillslope	---	---	---	---
	GEARY	No	hillslope	---	---	---	---
	WELLS	No	hillslope	---	---	---	---
M-W: MISCELLANEOUS WATER	MISCELLANEOUS WATER	---	---	---	---	---	---
Mc: MCCOOK SILT LOAM, RARELY FLOODED	MCCOOK	No	stream terrace	---	---	---	---
	UNNAMED HYDRIC SOIL	Yes	flood plain, marsh	2B3	YES	NO	NO
	UNNAMED HYDRIC SOILS	Yes	depression, flood plain	3	NO	NO	YES
Mr: MUIR SILT LOAM, RARELY FLOODED	MUIR	No	terrace	---	---	---	---
	HORD	No	terrace	---	---	---	---
	DETROIT	No	stream terrace	---	---	---	---
	UNNAMED HYDRIC SOIL (ponding)	Yes	depression, flood plain	3	NO	NO	YES
Nc: NEW CAMBRIA SILTY CLAY LOAM, RARELY FLOODED	NEW CAMBRIA	No	stream terrace	---	---	---	---
	DETROIT	No	stream terrace	---	---	---	---
	ROXBURY	No	stream terrace	---	---	---	---
	UNNAMED HYDRIC SOIL 1	Yes	depression, terrace	3	NO	NO	YES
Nu: NUCKOLLS SILT LOAM, 4 TO 12 PERCENT SLOPES	NUCKOLLS	No	hillslope	---	---	---	---
	HASTINGS	No	hillslope	---	---	---	---
	HOBBS	No	flood plain	---	---	---	---
Nx: NUCKOLLS SILT LOAM, 4 TO 12 PERCENT SLOPES, ERODED	NUCKOLLS	No	hillslope	---	---	---	---
	HASTINGS	No	hillslope	---	---	---	---
	HOBBS	No	flood plain	---	---	---	---
QUA: QUARRIES	QUARRIES	Unranked	---	---	---	---	---
Rx: ROXBURY SILT LOAM, RARELY FLOODED	ROXBURY	No	stream terrace	---	---	---	---
	NEW CAMBRIA	No	stream terrace	---	---	---	---
	DETROIT	No	stream terrace	---	---	---	---
	UNNAMED HYDRIC SOIL	Yes	depression, terrace	3	NO	NO	YES
Sa: INAVALE LOAMY SAND, 0 TO 3 PERCENT SLOPES, OCCASIONALLY FLOODED	INAVALE	No	flood plain	---	---	---	---
	MUNJOR	No	flood plain	---	---	---	---
	UNNAMED HYDRIC SOIL	Yes	ephemeral oxbow lake, flood plain	3	NO	NO	YES
SAP: SAND PITS	SAND PITS	Unranked	---	---	---	---	---
Sd: INAVALE LOAMY SAND, 3 TO 12 PERCENT SLOPES	INAVALE	No	dune	---	---	---	---
St: SUTPHEN SILTY CLAY, RARELY FLOODED	SUTPHEN	No	flood plain	---	---	---	---
	DETROIT	No	stream terrace	---	---	---	---
	UNNAMED HYDRIC SOIL	Yes	depression, flood plain	2B3	YES	NO	NO

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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
To: TOBIN SILT LOAM, OCCASIONALLY FLOODED W: WATER Wa: WAKEEN SILTY CLAY LOAM, 3 TO 6 PERCENT SLOPES	TOBIN	No	flood plain	---	---	---	---
	HOBBS	No	flood plain	---	---	---	---
	MUIR	No	terrace	---	---	---	---
	UNNAMED HYDRIC SOIL (saturation)	Yes	flood plain, marsh	2B3	YES	NO	NO
	WATER	Unranked	---	---	---	---	---
	WAKEEN	No	hillslope	---	---	---	---
	ARMO	No	hillslope	---	---	---	---
	KIPSON HASTINGS	No No	hillslope 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.

