

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
990: ABBYVILLE LOAM, 0 TO 1 PERCENT SLOPES	ABBYVILLE	No	terrace	---	---	---	---
	KISIWA	Yes	terrace, flood plain	3,2B3	YES	NO	YES
991: ABBYVILLE-KISIWA COMPLEX, 0 TO 2 PERCENT SLOPES, FLOODED	ABBYVILLE	No	terrace	---	---	---	---
	KISIWA	Yes	terrace, flood plain	2B3	YES	NO	NO
	SAXMAN DARLOW	No	flood plain	---	---	---	---
		No	terrace	---	---	---	---
1004: ALBION SANDY LOAM, 0 TO 1 PERCENT SLOPES	ALBION	No	paleoterrace	---	---	---	---
	SHELLABARGER	No	paleoterrace	---	---	---	---
1011: ALBION-SHELLABARGER SANDY LOAMS, 1 TO 3 PERCENT SLOPES	ALBION	No	paleoterrace	---	---	---	---
	SHELLABARGER Unnamed Wet Soils	No	paleoterrace	---	---	---	---
		Yes	drainageway	2A,2B1,2B2,2B3	YES	NO	NO
1057: AQUENTS, FREQUENTLY PONDED	AQUENTS	Yes	depression, paleoterrace	2B3,3	YES	NO	YES
1061: ARENTS, EARTHEN DAM	ARENTS, EARTHEN DAM	Unranked	---	---	---	---	---
1062: ARENTS, LOAMY	ARENTS, LANDFILL	---	---	---	---	---	---
1070: AVANS LOAM, 0 TO 1 PERCENT SLOPES	AVANS	No	paleoterrace	---	---	---	---
	Unnamed Wet Soils	Yes	depression, drainageway	2A,3,2B3	YES	NO	YES
1071: AVANS LOAM, 1 TO 3 PERCENT SLOPES	AVANS	No	paleoterrace	---	---	---	---
	OST Unnamed Wet Soils	No	paleoterrace	---	---	---	---
		Yes	depression, drainageway	2A,3,2B3	YES	NO	YES
1072: AVANS LOAM, 3 TO 7 PERCENT SLOPES	AVANS	No	paleoterrace	---	---	---	---
	OST Unnamed Wet Soils	No	paleoterrace	---	---	---	---
		Yes	drainageway	2A,3,2B3,4	YES	YES	YES
1191: BLAZEFOK SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES, RARELY FLOODED	BLAZEFOK	No	flood plain	---	---	---	---
	TOBIN Unnamed Wet Soils	No	flood plain	---	---	---	---
		Yes	drainageway	2A,3,4	YES	YES	YES
1192: BLAZEFOK-KASKAN COMPLEX, 0 TO 1 PERCENT SLOPES, RARELY FLOODED	BLAZEFOK	No	flood plain	---	---	---	---
	KASKAN Unnamed Wet Soils	No	flood plain	---	---	---	---
		Yes	drainageway	2A,3,4	YES	YES	YES
1200: BUHLER-BLAZEFOK SILTY CLAY LOAMS, 0 TO 1 PERCENT SLOPES, RARELY FLOODED	BUHLER	No	flood plain	---	---	---	---
	BLAZEFOK TOBIN Unnamed Wet Soils	No	flood plain	---	---	---	---
		No	flood plain	---	---	---	---
		Yes	drainageway	2A,3,4	YES	YES	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
1324: CARWAY AND CARBIKA SOILS, 0 TO 1 PERCENT SLOPES	CARWAY	Yes	depression, interdune, paleoterrace	3,2B3	YES	NO	YES
	CARBIKA	Yes	depression, interdune, paleoterrace	3,2B3	YES	NO	YES
	SOLVAY	No	interdune, paleoterrace	---	---	---	---
1357: CARWAY-DILLHUT-SOLVAY COMPLEX, 0 TO 2 PERCENT SLOPES	CARWAY	Yes	depression, interdune, paleoterrace	2B3,3	YES	NO	YES
	DILLHUT	No	dune, paleoterrace	---	---	---	---
	SOLVAY	No	interdune, paleoterrace	---	---	---	---
	CARBIKA	Yes	depression, interdune, paleoterrace	3,2B3	YES	NO	YES
1359: CLARK-OST LOAMS, 3 TO 7 PERCENT SLOPES	CLARK	No	paleoterrace	---	---	---	---
	OST Unnamed Wet Soils	No Yes	paleoterrace drainageway	--- 2A,2B1,2B3, 2B2	--- YES	--- NO	--- NO
1428: CRETE SILT LOAM, 0 TO 1 PERCENT SLOPES	Unnamed wet soils	Yes	depression	2B3,3,2A,4	YES	YES	YES
	CRETE	No	---	---	---	---	---
1429: CRETE SILT LOAM, 1 TO 3 PERCENT SLOPES	CRETE	No	hillslope	---	---	---	---
	Unnamed Wet Soils	Yes	depression	2A,3,2B3	YES	NO	YES
1553: DARLOW-ELMER COMPLEX, 0 TO 2 PERCENT SLOPES	DARLOW	No	terrace	---	---	---	---
	ELMER	No	terrace	---	---	---	---
	PUNKIN	No	paleoterrace	---	---	---	---
	CARBIKA	Yes	depression, interdune, paleoterrace	2B3,3	YES	NO	YES
	CARWAY	Yes	depression, interdune, paleoterrace	2B3,3	YES	NO	YES
1554: DILLHUT FINE SAND, 1 TO 3 PERCENT SLOPES	DILLHUT	No	dune, paleoterrace	---	---	---	---
	DILLWYN	No	interdune, dune, paleoterrace	---	---	---	---
1555: DILLHUT-PLEV COMPLEX, 0 TO 2 PERCENT SLOPES	DILLHUT	No	dune, paleoterrace	---	---	---	---
	PLEV	Yes	depression, interdune, paleoterrace	2B2	YES	NO	NO
	DILLWYN	No	interdune, dune, paleoterrace	---	---	---	---
	WARNUIT	Yes	interdune, depression, paleoterrace	2B3,3	YES	NO	YES
1556: DILLHUT-SOLVAY COMPLEX, 0 TO 3 PERCENT SLOPES	DILLHUT	No	dune, paleoterrace	---	---	---	---
	SOLVAY	No	interdune, paleoterrace	---	---	---	---
	DILLWYN	No	interdune, dune, paleoterrace	---	---	---	---
	CARWAY	Yes	depression, interdune, paleoterrace	3,2B3	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
1725: FARNUM AND FUNMAR LOAMS, 0 TO 1 PERCENT SLOPES	FARNUM	No	paleoterrace	---	---	---	---
	FUNMAR	No	paleoterrace	---	---	---	---
	NARON	No	dune,	---	---	---	---
	CARBIKA	Yes	paleoterrace depression, interdune, paleoterrace	2B3,3	YES	NO	YES
1727: FUNMAR-TAVER LOAMS, 0 TO 2 PERCENT SLOPES	CARWAY	Yes	paleoterrace depression, interdune, paleoterrace	2B3,3	YES	NO	YES
	FUNMAR	No	paleoterrace	---	---	---	---
	TAVER	No	paleoterrace	---	---	---	---
	CARBIKA	Yes	depression, interdune, paleoterrace	2B3,3	YES	NO	YES
1804: GEARY SILT LOAM, 1 TO 3 PERCENT SLOPES	GEARY	No	hillslope	---	---	---	---
	Unnamed Wet Soils	Yes	drainageway	2A,3,2B3	YES	NO	YES
1807: GEARY SILTY CLAY LOAM, 3 TO 7 PERCENT SLOPES, MODERATELY ERODED	GEARY	No	hillslope	---	---	---	---
	Unnamed Wet Soils	Yes	drainageway	2A,3,2B3	YES	NO	YES
1985: HAYES FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES	HAYES	No	dune,	---	---	---	---
	ATTICA	No	paleoterrace dune,	---	---	---	---
	SALTCREEK	No	paleoterrace dune, paleoterrace	---	---	---	---
1986: HAYES-SOLVAY LOAMY FINE SANDS, 0 TO 5 PERCENT SLOPES	HAYES	No	dune,	---	---	---	---
	SOLVAY	No	paleoterrace	---	---	---	---
	CARWAY	Yes	interdune, paleoterrace depression, interdune, paleoterrace	3,2B3	YES	NO	YES
	FARNUM	No	paleoterrace	---	---	---	---
1987: HAYES-TURON COMPLEX, 0 TO 5 PERCENT SLOPES	HAYES	No	dune,	---	---	---	---
	TURON	No	paleoterrace dune,	---	---	---	---
	NARON	No	paleoterrace dune,	---	---	---	---
	SOLVAY	No	interdune, paleoterrace	---	---	---	---
2204: JAMASH-PIEDMONT CLAY LOAMS, 0 TO 1 PERCENT SLOPES	CARWAY	Yes	paleoterrace depression, interdune, paleoterrace	3,2B3	YES	NO	YES
	JAMASH	No	pediment	---	---	---	---
	PIEDMONT	No	pediment	---	---	---	---
2205: JAMASH-PIEDMONT CLAY LOAMS, 1 TO 3 PERCENT SLOPES	Unnamed Wet Soils	Yes	drainageway	2B3,4	YES	YES	NO
	JAMASH	No	pediment	---	---	---	---
2206: JAMASH-PIEDMONT CLAY LOAMS, 3 TO 12 PERCENT SLOPES	PIEDMONT	No	pediment	---	---	---	---
	Unnamed Wet Soils	Yes	drainageway	2B3,4	YES	YES	NO
	JAMASH	No	pediment	---	---	---	---
	PIEDMONT	No	pediment	---	---	---	---
	Unnamed Wet Soils	Yes	drainageway	2B3,4	YES	YES	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
2207: JAMASH CLAY LOAM, 0 TO 8 PERCENT SLOPES	JAMASH	No	pediment	---	---	---	---
	PIEDMONT Unnamed Wet Soils	No Yes	pediment drainageway	--- 2B3,4	--- YES	--- YES	--- NO
2381: KANZA-NINNESCAH SANDY LOAMS, 0 TO 2 PERCENT SLOPES, COMMONLY FLOODED	KANZA	Yes	flood plain	2B3	YES	NO	NO
	NINNESCAH	Yes	flood plain	2B3	YES	NO	NO
2390: KASKAN LOAM, 0 TO 1 PERCENT SLOPES, RARELY FLOODED	KASKAN	No	flood plain	---	---	---	---
	TOBIN	No	flood plain	---	---	---	---
2391: KASKAN SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES, FREQUENTLY FLOODED, CHANNELED	KASKAN	No	flood plain	---	---	---	---
	TOBIN Unnamed Wet Soils	No Yes	flood plain depression, drainageway	--- 2B1,2B2,2B3,4	--- YES	--- YES	--- NO
2395: KISIWA LOAM, 0 TO 1 PERCENT SLOPES	KISIWA	Yes	terrace, flood plain	3,2B3	YES	NO	YES
	PUNKIN CARBIKA	No Yes	paleoterrace depression, interdune, paleoterrace	--- 3,2B3	--- YES	--- NO	--- YES
2509: LADYSMITH SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES	LADYSMITH	No	paleoterrace	---	---	---	---
	Unnamed Wet Soils	Yes	depression	2B3,3	YES	NO	YES
2556: LANGDON FINE SAND, 0 TO 15 PERCENT SLOPES	LANGDON	No	dune, paleoterrace	---	---	---	---
	TIVIN	No	dune, paleoterrace	---	---	---	---
	TURON	No	dune, paleoterrace	---	---	---	---
	CARWAY	Yes	depression, interdune, paleoterrace	3,2B3	YES	NO	YES
	WARNUT	Yes	interdune, depression, paleoterrace	2B3,3	YES	NO	YES
2587: IMANO CLAY LOAM, 0 TO 1 PERCENT SLOPES, OCCASIONALLY FLOODED	IMANO	No	flood plain	---	---	---	---
	WILLOWBROOK	No	flood plain	---	---	---	---
	KANZA	Yes	flood plain	2B3	YES	NO	NO
	NINNESCAH	Yes	flood plain	2B3	YES	NO	NO
2588: LONGFORD SILTY CLAY LOAM, 3 TO 7 PERCENT SLOPES, MODERATELY ERODED	LONGFORD	No	hillslope	---	---	---	---
	GEARY	No	hillslope	---	---	---	---
2812: MAHONE LOAMY FINE SAND, 0 TO 2 PERCENT SLOPES, RARELY FLOODED	MAHONE	No	flood plain	---	---	---	---
	YAGGY	No	flood plain	---	---	---	---
2948: NALIM LOAM, 0 TO 1 PERCENT SLOPES	NALIM	No	paleoterrace	---	---	---	---
	FARNUM Unnamed Wet Soils	No Yes	paleoterrace depression	--- 2B3,3	--- YES	--- NO	--- YES
2949: NARON FINE SANDY LOAM, 3 TO 7 PERCENT SLOPES, MODERATELY ERODED	NARON	No	dune, paleoterrace	---	---	---	---
	SALTCREEK	No	dune, 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
2950: NARON FINE SANDY LOAM, 7 TO 15 PERCENT SLOPES, MODERATELY ERODED	NARON	No	dune, paleoterrace	---	---	---	---
2951: NASH SILT LOAM, 1 TO 3 PERCENT SLOPES	AVANS	No	paleoterrace	---	---	---	---
	NASH	No	interfluv	---	---	---	---
	LUCIEN Unnamed Wet Soils	No Yes	interfluv drainageway	--- 2B3,4	--- YES	--- YES	--- NO
2952: NASH-LUCIEN SILT LOAMS, 3 TO 7 PERCENT SLOPES	NASH	No	hillslope	---	---	---	---
	LUCIEN OST Unnamed Wet Soils	No No Yes	hillslope paleoterrace drainageway	--- --- 2B3,4	--- --- YES	--- --- YES	--- --- NO
	NASH	No	hillslope	---	---	---	---
2953: NASH-LUCIEN SILT LOAMS, 7 TO 15 PERCENT SLOPES, MODERATELY ERODED	NASH	No	hillslope	---	---	---	---
	LUCIEN CLARK Unnamed Wet Soils	No No Yes	hillslope paleoterrace drainageway	--- --- 2B3,4	--- --- YES	--- --- YES	--- --- NO
	NICKERSON	No	terrace	---	---	---	---
2955: NICKERSON FINE SANDY LOAM, 0 TO 1 PERCENT SLOPES	CARWAY	Yes	depression, interdune, paleoterrace	2B3,3	YES	NO	YES
	NICKERSON	No	terrace	---	---	---	---
	CARWAY	Yes	depression, interdune, paleoterrace	3,2B3	YES	NO	YES
2956: NICKERSON LOAMY FINE SAND, 0 TO 2 PERCENT SLOPES	CARBIKA	Yes	depression, interdune, paleoterrace	2B3,3	YES	NO	YES
	NICKERSON	No	terrace	---	---	---	---
	PUNKIN CARBIKA	No Yes	paleoterrace depression, interdune, paleoterrace	--- 3,2B3	--- YES	--- NO	--- YES
2957: NICKERSON-PUNKIN FINE SANDY LOAMS, 0 TO 2 PERCENT SLOPES	CARWAY	Yes	depression, interdune, paleoterrace	3,2B3	YES	NO	YES
	NINNESCAH	Yes	flood plain	2B3	YES	NO	NO
	KANZA	Yes	flood plain	2B3	YES	NO	NO
2958: NINNESCAH FINE SANDY LOAM, 0 TO 1 PERCENT SLOPES, OCCASIONALLY FLOODED	NINNESCAH	Yes	flood plain	2B3	YES	NO	NO
2959: NINNESCAH FINE SANDY LOAM, 0 TO 1 PERCENT SLOPES, OCCASIONALLY FLOODED, SALINE	NINNESCAH	Yes	flood plain	2B3	YES	NO	NO
3051: OST LOAM, 0 TO 1 PERCENT SLOPE	OST	No	paleoterrace	---	---	---	---
	CLARK Unnamed Wet Soils	No Yes	paleoterrace depression	--- 2A,2B3,3	--- YES	--- NO	--- YES
	OST	No	paleoterrace	---	---	---	---
3052: OST-CLARK LOAMS, 1 TO 3 PERCENT SLOPES	CLARK Unnamed Wet Soils	No Yes	paleoterrace drainageway	--- 2A,2B1,2B2	--- 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
3170: PENALOSA SILT LOAM, 0 TO 1 PERCENT SLOPES	PENALOSA	No	paleoterrace	---	---	---	---
	CARBIKA	Yes	depression, interdune, paleoterrace	3,2B3	YES	NO	YES
3171: PENALOSA SILT LOAM, 1 TO 3 PERCENT SLOPES	PENALOSA	No	paleoterrace	---	---	---	---
	Unnamed Wet Soils	Yes	drainageway	2B3,3	YES	NO	YES
3180: PRATT FINE SAND, 5 TO 10 PERCENT SLOPES	PRATT	No	dune, paleoterrace	---	---	---	---
	ATTICA	No	dune, paleoterrace	---	---	---	---
3181: PRATT-TURON FINE SANDS, 1 TO 5 PERCENT SLOPES	PRATT	No	dune, paleoterrace	---	---	---	---
	TURON	No	dune, paleoterrace	---	---	---	---
	HAYES	No	dune, paleoterrace	---	---	---	---
	CARWAY	Yes	depression, interdune, paleoterrace	2B3,3	YES	NO	YES
	WARNUT	Yes	interdune, depression, paleoterrace	3,2B3	YES	NO	YES
3190: PUNKIN SILT LOAM, 0 TO 1 PERCENT SLOPES	PUNKIN	No	paleoterrace	---	---	---	---
	DARLOW	No	terrace	---	---	---	---
	CARBIKA	Yes	depression, interdune, paleoterrace	2B3,3	YES	NO	YES
3191: PUNKIN-TAVER COMPLEX, 0 TO 1 PERCENT SLOPES	KISIWA	Yes	terrace, flood plain	2B3,3	YES	NO	YES
	PUNKIN	No	paleoterrace	---	---	---	---
	TAVER	No	paleoterrace	---	---	---	---
	DARLOW	No	terrace	---	---	---	---
	CARBIKA	Yes	depression, interdune, paleoterrace	2B3,3	YES	NO	YES
	KISIWA	Yes	terrace, flood plain	2B3,3	YES	NO	YES
3403: SAND PITS	SAND PIT	Unranked	---	---	---	---	---
3469: SMOLAN SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES	SMOLAN	No	hillslope	---	---	---	---
	LONGFORD	No	hillslope	---	---	---	---
3510: SALTCREEK-FUNMAR-FARNUM COMPLEX, 1 TO 3 PERCENT SLOPES	SALTCREEK	No	dune, paleoterrace	---	---	---	---
	FUNMAR	No	paleoterrace	---	---	---	---
	FARNUM	No	paleoterrace	---	---	---	---
	CARBIKA	Yes	depression, interdune, paleoterrace	3,2B3	YES	NO	YES
3511: SALTCREEK AND NARON FINE SANDY LOAMS, 0 TO 1 PERCENT SLOPES	CARWAY	Yes	depression, interdune, paleoterrace	3,2B3	YES	NO	YES
	SALTCREEK	No	dune, paleoterrace	---	---	---	---
	NARON	No	dune, 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
3512: SALT CREEK AND NARON FINE SANDY LOAMS, 1 TO 3 PERCENT SLOPES	SALT CREEK	No	dune, paleoterrace	---	---	---	---
	NARON	No	dune, paleoterrace	---	---	---	---
	FUNMAR	No	paleoterrace	---	---	---	---
	CARBIKA	Yes	depression, interdune, paleoterrace	3, 2B3	YES	NO	YES
	CARWAY	Yes	depression, interdune, paleoterrace	2B3, 3	YES	NO	YES
3520: SAXMAN LOAMY SAND, 0 TO 1 PERCENT SLOPES	TAVER	No	paleoterrace	---	---	---	---
	SAXMAN	No	flood plain	---	---	---	---
	WILLOWBROOK	No	flood plain	---	---	---	---
3530: SHELLABARGER, ERODED AND ALBION SOILS, 7 TO 15 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
	ALBION	No	paleoterrace	---	---	---	---
	CLARK	No	paleoterrace	---	---	---	---
	Unnamed Wet Soils	Yes	drainageway	2A, 2B1, 2B3, 2B2	YES	NO	NO
3531: SHELLABARGER AND NALIM SOILS, 3 TO 7 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
	NALIM	No	paleoterrace	---	---	---	---
3532: SHELLABARGER LOAMY SAND, 0 TO 3 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
	ALBION	No	paleoterrace	---	---	---	---
3533: SHELLABARGER SANDY LOAM, 0 TO 1 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
	NALIM	No	paleoterrace	---	---	---	---
	Unnamed Wet Soils	Yes	depression	2A, 2B3, 3	YES	NO	YES
3534: SHELLABARGER SANDY LOAM, 1 TO 3 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
	ALBION	No	paleoterrace	---	---	---	---
	Unnamed Wet Soils	Yes	drainageway	2A, 2B3	YES	NO	NO
3535: SHELLABARGER-NALIM COMPLEX, 1 TO 3 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
	NALIM	No	paleoterrace	---	---	---	---
	Unnamed Wet Soils	Yes	depression, drainageway	2A, 3, 2B3, 4	YES	YES	YES
3540: SOLVAY LOAMY FINE SAND, 0 TO 2 PERCENT SLOPES	SOLVAY	No	interdune, paleoterrace	---	---	---	---
	HAYES	No	dune, paleoterrace	---	---	---	---
	CARBIKA	Yes	depression, interdune, paleoterrace	2B3, 3	YES	NO	YES
	CARWAY	Yes	depression, interdune, paleoterrace	2B3, 3	YES	NO	YES
3550: SPELVIN LOAMY SAND, 0 TO 1 PERCENT SLOPES 3639: TAVER LOAM, 0 TO 1 PERCENT SLOPES	SPELVIN	No	interdune, paleoterrace	---	---	---	---
	TAVER	No	paleoterrace	---	---	---	---
	SALT CREEK	No	dune, paleoterrace	---	---	---	---
	CARBIKA	Yes	depression, interdune, paleoterrace	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
3640: TIVIN FINE SAND, 10 TO 30 PERCENT SLOPES	TIVIN	No	dune,	---	---	---	---
	LANGDON	No	paleoterrace dune,	---	---	---	---
	PLEV	Yes	paleoterrace depression, interdune, paleoterrace	2B2	YES	NO	NO
3641: TIVIN-DILLHUT FINE SANDS, 0 TO 15 PERCENT SLOPES	TIVIN	No	dune,	---	---	---	---
			paleoterrace				
	DILLHUT	No	dune,	---	---	---	---
			paleoterrace				
	SOLVAY	No	interdune,	---	---	---	---
			paleoterrace				
3642: TIVIN-WILLOWBROOK, OCCASIONALLY FLOODED, COMPLEX, 0 TO 12 PERCENT SLOPES	CARWAY	Yes	depression, interdune, paleoterrace	3,2B3	YES	NO	YES
	WARNUT	Yes	interdune, depression, paleoterrace	3,2B3	YES	NO	YES
	PLEV	Yes	depression, interdune, paleoterrace	2B2	YES	NO	NO
3643: TOBIN SILT LOAM, 0 TO 1 PERCENT SLOPES, OCCASIONALLY FLOODED	TIVIN	No	dune, flood plain	---	---	---	---
	WILLOWBROOK	No	flood plain	---	---	---	---
	TOBIN	No	flood plain	---	---	---	---
3644: TURON-CARWAY COMPLEX, 0 TO 5 PERCENT SLOPES	Unnamed Wet Soils	Yes	drainageway	2A,2B3,4	YES	YES	NO
	TURON	No	dune,	---	---	---	---
	CARWAY	Yes	paleoterrace depression, interdune, paleoterrace	3,2B3	YES	NO	YES
	SOLVAY	No	interdune, paleoterrace	---	---	---	---
3760: URBAN LAND-BLAZEFORK-KASKAN COMPLEX, 0 TO 1 PERCENT SLOPES, PROTECTED	URBAN LAND	Unranked	---	---	---	---	---
	BLAZEFORK	No	stream terrace	---	---	---	---
	KASKAN	No	flood plain	---	---	---	---
	Unnamed Wet Soils	Yes	drainageway	2A,3	YES	NO	YES
3762: URBAN LAND-DARLOW-ELMER COMPLEX, 0 TO 1 PERCENT SLOPES	URBAN LAND	Unranked	---	---	---	---	---
	DARLOW	No	terrace	---	---	---	---
	ELMER	No	terrace	---	---	---	---
	PUNKIN	No	paleoterrace	---	---	---	---
	CARBIKA	Yes	depression, interdune, paleoterrace	3,2B3	YES	NO	YES
3763: URBAN LAND-IMANO COMPLEX, 0 TO 1 PERCENT SLOPES, PROTECTED	URBAN LAND	Unranked	---	---	---	---	---
	IMANO	No	flood plain	---	---	---	---
	WILLOWBROOK	No	flood plain	---	---	---	---
	KANZA	Yes	flood plain	2B3	YES	NO	NO
	NINNESCAH	Yes	flood plain	2B3	YES	NO	NO
3764: URBAN LAND-MAHONE COMPLEX, 0 TO 1 PERCENT SLOPES, PROTECTED	URBAN LAND	Unranked	---	---	---	---	---
	MAHONE	No	flood plain	---	---	---	---
	YAGGY	No	flood plain	---	---	---	---

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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
3765: URBAN LAND-SALTCREEK- NARON COMPLEX, 0 TO 1 PERCENT SLOPES	URBAN LAND	Unranked	---	---	---	---	---
	SALTCREEK	No	dune, paleoterrace	---	---	---	---
	NARON	No	dune, paleoterrace	---	---	---	---
3766: URBAN LAND-SAXMAN COMPLEX, 0 TO 1 PERCENT SLOPES, PROTECTED	URBAN LAND	Unranked	---	---	---	---	---
	SAXMAN	No	flood plain	---	---	---	---
	WILLOWBROOK	No	flood plain	---	---	---	---
3767: URBAN LAND-WILLOWBROOK COMPLEX, 0 TO 1 PERCENT SLOPES, PROTECTED	URBAN LAND	Unranked	---	---	---	---	---
	WILLOWBROOK	No	flood plain	---	---	---	---
	NICKERSON	No	terrace	---	---	---	---
	KANZA	Yes	flood plain	2B3	YES	NO	NO
	NINNESCAH	Yes	flood plain	2B3	YES	NO	NO
3768: URBAN LAND-YAGGY COMPLEX, 0 TO 1 PERCENT SLOPES, PROTECTED	URBAN LAND	Unranked	---	---	---	---	---
	YAGGY	No	flood plain	---	---	---	---
	IMANO	No	flood plain	---	---	---	---
	KANZA	Yes	flood plain	2B3	YES	NO	NO
	NINNESCAH	Yes	flood plain	2B3	YES	NO	NO
3900: WALNUT FINE SANDY LOAM, 0 TO 1 PERCENT SLOPES	WALNUT	Yes	interdune, depression, paleoterrace	3, 2B3	YES	NO	YES
	CARWAY	Yes	depression, interdune, paleoterrace	3, 2B3	YES	NO	YES
3926: WATER	WATER	Yes	---	3, 4	NO	YES	YES
3966: WILLOWBROOK FINE SANDY LOAM, 0 TO 1 PERCENT SLOPES, OCCASIONALLY FLOODED	WILLOWBROOK	No	flood plain	---	---	---	---
	NICKERSON	No	terrace	---	---	---	---
	KANZA	Yes	flood plain	2B3	YES	NO	NO
	NINNESCAH	Yes	flood plain	2B3	YES	NO	NO
4004: YAGGY FINE SANDY LOAM, 0 TO 1 PERCENT SLOPES	YAGGY	No	flood plain	---	---	---	---
	IMANO	No	flood plain	---	---	---	---
	KANZA	Yes	flood plain	2B3	YES	NO	NO
	NINNESCAH	Yes	flood plain	2B3	YES	NO	NO
4005: YAGGY-SAXMAN COMPLEX, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	YAGGY	No	flood plain	---	---	---	---
	SAXMAN	No	flood plain	---	---	---	---
	SOLVAY	No	interdune, paleoterrace	---	---	---	---
	KANZA	Yes	flood plain	2B3	YES	NO	NO
	NINNESCAH	Yes	flood plain	2B3	YES	NO	NO
4110: ZELLMONT AND POXMASH SANDY LOAMS, 0 TO 3 PERCENT SLOPES	ZELLMONT	No	strath terrace	---	---	---	---
	POXMASH	No	strath terrace	---	---	---	---
	Unnamed Wet Soils	Yes	drainageway	2A, 2B1, 2B2, 2B3	YES	NO	NO

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				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.

