

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
007AE: ALBION AND SHELLABARGER SOILS, 4 TO 15 PERCENT SLOPES	ALBION	No	paleoterrace	---	---	---	---
	SHELLABARGER Unnamed wet soils	No Yes	paleoterrace drainageway	--- 2B3, 2A, 2B2	--- YES	--- NO	--- NO
007CC: CASE-CLARK CLAY LOAMS, 2 TO 6 PERCENT SLOPES	CASE	No	paleoterrace	---	---	---	---
	CLARK	No	paleoterrace	---	---	---	---
007LN: LINCOLN SOILS, FREQUENTLY FLOODED	LINCOLN	No	flood plain	---	---	---	---
	KANZA	Yes	flood plain	2B2	YES	NO	NO
007SB: SHELLABARGER SANDY LOAM, 3 TO 6 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
047PG: PRATT LOAMY FINE SAND, 1 TO 4 PERCENT SLOPES	PRATT	No	dune, paleoterrace	---	---	---	---
	CARWILE	Yes	depression, paleoterrace	2A	YES	NO	NO
	Unnamed wet soils	Yes	depression	3, 2A, 2B3	YES	NO	YES
095AB: ALBION SANDY LOAM, 1 TO 3 PERCENT SLOPES	ALBION	No	paleoterrace	---	---	---	---
095DA: DILLWYN-PLEVNA COMPLEX, OCCASIONALLY FLOODED	DILLWYN	No	interdune, dune, paleoterrace	---	---	---	---
	PLEVNA	Yes	flood plain	4, 2B3	YES	YES	NO
	Unnamed wet soils	Yes	depression	2A, 2B3, 3	YES	NO	YES
097AS: ALBION-SHELLABARGER SANDY LOAMS, 4 TO 15 PERCENT SLOPES	ALBION	No	paleoterrace	---	---	---	---
	SHELLABARGER Unnamed wet soils	No Yes	paleoterrace drainageway	--- 2B2, 2B3, 2A	--- YES	--- NO	--- NO
097CE: CASE CLAY LOAM, 2 TO 7 PERCENT SLOPES	CASE	No	paleoterrace	---	---	---	---
097CK: CLARK LOAM, 1 TO 3 PERCENT SLOPES	CLARK	No	paleoterrace	---	---	---	---
097CM: CLARK LOAM, 3 TO 7 PERCENT SLOPES	CLARK	No	paleoterrace	---	---	---	---
1005: ALBION SANDY LOAM, 1 TO 3 PERCENT SLOPES	ALBION	No	paleoterrace	---	---	---	---
	SHELLABARGER Unnamed Wet Soils	No Yes	paleoterrace drainageway	--- 2A, 2B1, 2B2, 2B3	--- YES	--- NO	--- NO
1006: ALBION SANDY LOAM, 3 TO 7 PERCENT SLOPES, ERODED	ALBION	No	paleoterrace	---	---	---	---
1017: ALBION AND SHELLABARGER 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
1324: CARWAY AND CARBIKA SOILS, 0 TO 1 PERCENT SLOPES	CARWAY	Yes	depression, interdune, paleoterrace	2B3, 3	YES	NO	YES
	CARBIKA	Yes	depression, interdune, paleoterrace	3, 2B3	YES	NO	YES
	SOLVAY	No	interdune, paleoterrace	---	---	---	---
1340: CASE-CLARK COMPLEX, 3 TO 7 PERCENT SLOPES	CASE	No	paleoterrace	---	---	---	---
	CLARK	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
1341: CASE-CLARK COMPLEX, 7 TO 15 PERCENT SLOPES	CASE	No	paleoterrace	---	---	---	---
	CLARK	No	paleoterrace	---	---	---	---
1725: FUNMAR AND FARNUM LOAMS, 0-1 PERCENT SLOPES	FARNUM	No	paleoterrace	---	---	---	---
	FUNMAR	No	paleoterrace	---	---	---	---
	NARON	No	dune,	---	---	---	---
		No	paleoterrace	---	---	---	---
	CARBIKA	Yes	depression, interdune, paleoterrace	2B3,3	YES	NO	YES
	CARWAY	Yes	depression, interdune, paleoterrace	2B3,3	YES	NO	YES
1726: FUNMAR AND FARNUM LOAMS, 1 TO 3 PERCENT SLOPES	FARNUM	No	paleoterrace	---	---	---	---
	FUNMAR	No	paleoterrace	---	---	---	---
	NARON	No	dune,	---	---	---	---
		No	paleoterrace	---	---	---	---
	CARBIKA	Yes	depression, interdune, paleoterrace	2B3,3	YES	NO	YES
	CARWAY	Yes	depression, interdune, paleoterrace	2B3,3	YES	NO	YES
1985: HAYES LOAMY FINE SAND, 1 TO 5 PERCENT SLOPES	HAYES	No	dune,	---	---	---	---
	ATTICA	No	paleoterrace	---	---	---	---
	SALT CREEK	No	dune,	---	---	---	---
1986: HAYES-SOLVAY LOAMY FINE SANDS, 0 TO 5 PERCENT SLOPES		No	paleoterrace	---	---	---	---
	HAYES	No	dune,	---	---	---	---
		No	paleoterrace	---	---	---	---
	SOLVAY	No	interdune, paleoterrace	---	---	---	---
	CARWAY	Yes	depression, interdune, paleoterrace	2B3,3	YES	NO	YES
1987: HAYES-TURON COMPLEX, 0 TO 5 PERCENT SLOPES	FARNUM	No	paleoterrace	---	---	---	---
	HAYES	No	dune,	---	---	---	---
	TURON	No	paleoterrace	---	---	---	---
	NARON	No	dune,	---	---	---	---
	SOLVAY	No	interdune, paleoterrace	---	---	---	---
	CARWAY	Yes	depression, interdune, paleoterrace	3,2B3	YES	NO	YES
1988: HAYES LOAMY FINE SAND, 5 TO 10 PERCENT SLOPES	HAYES	No	dune,	---	---	---	---
	PRATT	No	paleoterrace	---	---	---	---
2556: LANGDON FINE SAND, 0 TO 15 PERCENT SLOPES	LANGDON	No	dune,	---	---	---	---
		No	paleoterrace	---	---	---	---
	TIVIN	No	dune,	---	---	---	---
		No	paleoterrace	---	---	---	---
	TURON	No	dune,	---	---	---	---
	CARWAY	Yes	depression, interdune, paleoterrace	3,2B3	YES	NO	YES
2948: NALIM LOAM, 0 TO 1 PERCENT SLOPES	WARNUT	Yes	interdune, depression, paleoterrace	2B3,3	YES	NO	YES
	NALIM	No	paleoterrace	---	---	---	---
	FARNUM	No	paleoterrace	---	---	---	---
	Unnamed Wet Soils	Yes	depression	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
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
3053: OST LOAM, 1 TO 3 PERCENT SLOPES	OST	No	paleoterrace	---	---	---	---
	SHELLABARGER CLARK	No	paleoterrace	---	---	---	---
	Unnamed Wet Soils	No Yes	paleoterrace drainageway	--- 2A, 2B1, 2B2, 2B3	--- YES	--- NO	--- NO
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
	SHELLABARGER	No	paleoterrace	---	---	---	---
	SHELLABARGER FINE SANDY LOAM, 3 TO 7 PERCENT SLOPES, ERODED	No	paleoterrace	---	---	---	---
3510: SALT CREEK-FUNMAR-FARNUM COMPLEX, 1 TO 3 PERCENT SLOPES	SALT CREEK	No	dune, paleoterrace	---	---	---	---
	FUNMAR FARNUM	No	paleoterrace	---	---	---	---
	CARBIKA	No Yes	paleoterrace depression, interdune, paleoterrace	--- 2B3, 3	--- YES	--- NO	--- YES
	CARWAY	Yes	depression, interdune, paleoterrace	3, 2B3	YES	NO	YES
3512: SALT CREEK AND NARON FINE SANDY LOAMS, 1 TO 3 PERCENT SLOPES	SALT CREEK	No	dune, paleoterrace	---	---	---	---
	NARON	No	dune, paleoterrace	---	---	---	---
	FUNMAR CARBIKA	No Yes	paleoterrace depression, interdune, paleoterrace	--- 2B3, 3	--- YES	--- NO	--- YES
	CARWAY	Yes	depression, interdune, paleoterrace	3, 2B3	YES	NO	YES
	TAVER	No	paleoterrace	---	---	---	---
3533: SHELLABARGER SANDY LOAM, 0 TO 1 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
	NALIM Unnamed Wet Soils	No Yes	paleoterrace depression	--- 2A, 2B3, 3	--- YES	--- NO	--- YES
3534: SHELLABARGER SANDY LOAM, 1 TO 3 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
	ALBION Unnamed Wet Soils	No Yes	paleoterrace drainageway	--- 2A, 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
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
3639: TAVER LOAM, 0 TO 1 PERCENT SLOPES	TAVER	No	paleoterrace	---	---	---	---
	SALTCREEK	No	dune, paleoterrace	---	---	---	---
	CARBIKA	Yes	depression, interdune, paleoterrace	2B3,3	YES	NO	YES
3640: TIVIN FINE SAND, 10 TO 30 PERCENT SLOPES	TIVIN	No	dune, paleoterrace	---	---	---	---
	LANGDON	No	dune, paleoterrace	---	---	---	---
	PLEV	Yes	depression, interdune, paleoterrace	2B2	YES	NO	NO
3644: TURON-CARWAY COMPLEX, 0 TO 5 PERCENT SLOPES	TURON	No	dune, paleoterrace	---	---	---	---
	CARWAY	Yes	depression, interdune, paleoterrace	2B3,3	YES	NO	YES
	SOLVAY	No	interdune, paleoterrace	---	---	---	---
3926: WATER	WATER	Yes	---	3,4	NO	YES	YES
4005: YAGGY-SAXMAN LOAMY SAND, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	YAGGY	No	flood plain	---	---	---	---
	SAXMAN	No	flood plain	---	---	---	---
	SOLVAY	No	interdune, paleoterrace	---	---	---	---
	KANZA NINNESCAH	Yes	flood plain	2B3	YES	NO	NO
Ab: ALBION SANDY LOAM, 1 TO 4 PERCENT SLOPES	ALBION	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	drainageway	2A,2B3	YES	NO	NO
Ao: ALBION SANDY LOAM, 3 TO 7 PERCENT SLOPES, ERODED	ALBION	No	paleoterrace	---	---	---	---
As: ALBION AND SHELLABARGER SOILS, 7 TO 15 PERCENT SLOPES	ALBION	No	paleoterrace	---	---	---	---
	SHELLABARGER	No	paleoterrace	---	---	---	---
Bc: BLANKET SILTY CLAY LOAM, 1 TO 4 PERCENT SLOPES, ERODED	BLANKET	No	paleoterrace	---	---	---	---
Be: BLANKET SILT LOAM, 0 TO 1 PERCENT SLOPES	BLANKET	No	paleoterrace	---	---	---	---
Bh: BLANKET SILT LOAM, 1 TO 3 PERCENT SLOPES	BLANKET	No	paleoterrace	---	---	---	---
Br: FLUVENTS, FREQUENTLY FLOODED	FLUVENTS	No	flood plain	---	---	---	---
Ca: CARWILE FINE SANDY LOAM, 0 TO 1 PERCENT SLOPES	CARWILE	Yes	depression, paleoterrace	2A,3	YES	NO	YES
	Unnamed wet soils	Yes	depression	2A,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
Cc: CASE-CLARK COMPLEX, 3 TO 7 PERCENT SLOPES	CASE	No	paleoterrace	---	---	---	---
	CLARK	No	paleoterrace	---	---	---	---
Ck: CASE-CLARK COMPLEX, 7 TO 15 PERCENT SLOPES	CASE	No	paleoterrace	---	---	---	---
	CLARK	No	paleoterrace	---	---	---	---
Cm: CLARK CLAY LOAM, 1 TO 4 PERCENT SLOPES	CLARK	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	drainageway	2A,3,4	YES	YES	YES
Cn: CLARK FINE SANDY LOAM, 1 TO 3 PERCENT SLOPES	CLARK	No	paleoterrace	---	---	---	---
Co: CLARK-OST CLAY LOAMS, 0 TO 1 PERCENT SLOPES	CLARK	No	paleoterrace	---	---	---	---
	OST	No	paleoterrace	---	---	---	---
Cs: LINCOLN LOAMY SAND, OCCASIONALLY FLOODED	LINCOLN	No	flood plain	---	---	---	---
	Unnamed wet soils	Yes	drainageway	2A,2B2,2B3	YES	NO	NO
Fa: FARNUM CLAY LOAM, 3 TO 6 PERCENT SLOPES, ERODED	FARNUM	No	paleoterrace	---	---	---	---
Fe: FARNUM FINE SANDY LOAM, 0 TO 1 PERCENT SLOPES	FARNUM	No	paleoterrace	---	---	---	---
	CARWILE	Yes	depression, paleoterrace	2A	YES	NO	NO
	Unnamed wet soils	Yes	depression	2A,3	YES	NO	YES
Fm: FARNUM LOAM, 0 TO 1 PERCENT SLOPES	FARNUM	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	depression	2A,3,2B3	YES	NO	YES
Fn: FARNUM LOAM, 1 TO 3 PERCENT SLOPES	FARNUM	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	depression	3,2B3	YES	NO	YES
Fu: FARNUM LOAM, 3 TO 6 PERCENT SLOPES	FARNUM	No	paleoterrace	---	---	---	---
Fw: FARNUM-CARWILE COMPLEX, 0 TO 1 PERCENT SLOPES	FARNUM	No	paleoterrace	---	---	---	---
	CARWILE	Yes	depression, paleoterrace	3,2A	YES	NO	YES
GRP: GRAVEL PIT	PITS	Unranked	---	---	---	---	---
INT: AQUOLLS	AQUOLLS	Yes	depression, terrace	2B3,3	YES	NO	YES
Kp: KANZA-PLEVNA COMPLEX, FREQUENTLY FLOODED	KANZA	Yes	flood plain	2B3	YES	NO	NO
	PLEVNA	Yes	flood plain	2B3,4	YES	YES	NO
Ks: ELANDCO SILT LOAM, OCCASIONALLY FLOODED	ELANDCO	No	flood plain	---	---	---	---
Kw: ELANDCO SILT LOAM, FREQUENTLY FLOODED	ELANDCO	No	flood plain	---	---	---	---
Nd: NARON FINE SANDY LOAM, 0 TO 1 PERCENT SLOPES	NARON	No	dune, paleoterrace	---	---	---	---
Nf: NARON FINE SANDY LOAM, 1 TO 3 PERCENT SLOPES	NARON	No	dune, paleoterrace	---	---	---	---
	CARWILE	Yes	depression, paleoterrace	2A	YES	NO	NO
	Unnamed wet soils	Yes	depression	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
Ng: NARON FINE SANDY LOAM, 3 TO 6 PERCENT SLOPES	NARON	No	dune,	---	---	---	---
	CARWILE	Yes	paleoterrace depression, paleoterrace	2A	YES	NO	NO
Nk: NARON LOAM, 0 TO 1 PERCENT SLOPES	NARON	No	dune,	---	---	---	---
	CARWILE	Yes	paleoterrace depression, paleoterrace	2A	YES	NO	NO
	Unnamed wet soils	Yes	depression	2A, 3, 2B3	YES	NO	YES
Nm: NARON LOAM, 1 TO 3 PERCENT SLOPES	NARON	No	dune,	---	---	---	---
	CARWILE	Yes	paleoterrace depression, paleoterrace	2A	YES	NO	NO
	Unnamed wet soils	Yes	drainageway	2B3, 2A, 3, 4	YES	YES	YES
Nn: NARON-FARNUM COMPLEX, 0 TO 3 PERCENT SLOPES	NARON	No	dune,	---	---	---	---
	FARNUM	No	paleoterrace	---	---	---	---
	CARWILE	Yes	depression, paleoterrace	2A	YES	NO	NO
	Unnamed wet soils	Yes	depression	2A, 3, 2B3, 4	YES	YES	YES
Oc: OST CLAY LOAM, 0 TO 1 PERCENT SLOPES	OST	No	paleoterrace	---	---	---	---
Os: OST CLAY LOAM, 1 TO 4 PERCENT SLOPES	OST	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	depression	2A, 3, 2B3, 4	YES	YES	YES
Pm: PRATT LOAMY FINE SAND, 3 TO 8 PERCENT SLOPES	PRATT	No	dune,	---	---	---	---
	CARWILE	Yes	paleoterrace depression, paleoterrace	2A	YES	NO	NO
	Unnamed wet soils	Yes	depression	2A, 2B3, 3	YES	NO	YES
Pn: PRATT LOAMY FINE SAND, 8 TO 12 PERCENT SLOPES	PRATT	No	dune, paleoterrace	---	---	---	---
Po: PRATT-CARWILE COMPLEX, 0 TO 8 PERCENT SLOPES	PRATT	No	dune,	---	---	---	---
	CARWILE	Yes	paleoterrace depression, paleoterrace	2A, 3	YES	NO	YES
	Unnamed wet soils	Yes	depression	3, 2B3	YES	NO	YES
PRR: PRATT LOAMY FINE SAND, 1 TO 5 PERCENT SLOPES	PRATT	No	dune,	---	---	---	---
	CARWILE	Yes	paleoterrace depression, paleoterrace	2A	YES	NO	NO
	Unnamed wet soils	Yes	depression	3, 2B3, 2A	YES	NO	YES
PSS: PRATT LOAMY FINE SAND, 5 TO 10 PERCENT SLOPES	PRATT	No	dune, paleoterrace	---	---	---	---
	CARWILE	Yes	depression, paleoterrace	2A	YES	NO	NO
	Unnamed wet soils	Yes	depression	3, 2B2, 2B3, 2A	YES	NO	YES
Pt: PRATT-TIVOLI LOAMY FINE SANDS, 8 TO 15 PERCENT SLOPES	PRATT	No	dune, paleoterrace	---	---	---	---
	TIVOLI	No	dune, paleoterrace	---	---	---	---
PTT: PRATT-TIVOLI LOAMY FINE SANDS, 5 TO 15 PERCENT SLOPES	PRATT	No	dune, paleoterrace	---	---	---	---
	TIVOLI	No	dune, paleoterrace	---	---	---	---

HYDRIC SOIL INTERPRETATIONS
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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
Sa: ALBION-KASKI COMPLEX, 0 TO 15 PERCENT SLOPES	ALBION	No	paleoterrace	---	---	---	---
	KASKI	No	flood plain	---	---	---	---
Sb: SHELLABARGER FINE SANDY LOAM, 0 TO 1 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
Se: SHELLABARGER FINE SANDY LOAM, 1 TO 4 PERCENT SLOPES	SHELLABARGER	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	drainageway	2A,2B3	YES	NO	NO
Sf: SHELLABARGER FINE SANDY LOAM, 3 TO 7 PERCENT SLOPES, ERODED	SHELLABARGER	No	paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	drainageway	2A,2B3	YES	NO	NO
Ta: TABLER CLAY LOAM, 0 TO 1 PERCENT SLOPES	TABLER	No	paleoterrace	---	---	---	---
	CARWILE	Yes	depression, paleoterrace	2A	YES	NO	NO
	Unnamed wet soils	Yes	drainageway	3,2B3,2A,4	YES	YES	YES
Tf: TIVOLI FINE SAND, 12 TO 25 PERCENT SLOPES	TIVOLI	No	dune, paleoterrace	---	---	---	---
W: WATER	WATER	Unranked	---	---	---	---	---
Wa: WALDECK FINE SANDY LOAM, OCCASIONALLY FLOODED	WALDECK	No	flood plain	---	---	---	---
	PLEVNA	Yes	flood plain	2B3	YES	NO	NO
Wd: KINGMAN CLAY LOAM, OCCASIONALLY FLOODED	KINGMAN	Yes	flood plain	2B2	YES	NO	NO
Ze: ZENDA CLAY LOAM, OCCASIONALLY FLOODED	ZENDA	No	dune, paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	depression	2B3,3,2A	YES	NO	YES
Zs: ZENDA-DRUMMOND COMPLEX, OCCASIONALLY FLOODED	DRUMMOND	No	terrace	---	---	---	---
	ZENDA	No	dune, paleoterrace	---	---	---	---
	Unnamed wet soils	Yes	depression	3,2A,2B3	YES	NO	YES

HYDRIC SOIL INTERPRETATIONS
HYDRIC SOILS LIST
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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

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.

