

HYDRIC SOIL INTERPRETATIONS
HYDRIC SOILS LIST
Nelson County Area, North
Dakota

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
2: PARNELL SILT LOAM	PARNELL VALLERS, SALINE	Yes	depression	2B3,3	YES	NO	YES
		Yes	flat	2B3	YES	NO	NO
	TONKA	Yes	depression	3,2B3	YES	NO	YES
	SOUTHAM	Yes	depression	3,2B3	YES	NO	YES
	PLAYMOOR	Yes	flat	2B3	YES	NO	NO
	WYARD	No	---	---	---	---	---
	HAMERLY	No	---	---	---	---	---
3: PLAYMOOR SILTY CLAY LOAM, SALINE	PLAYMOOR,	Yes	flat	2B3	YES	NO	NO
	SALINE	Yes	flat	2B3	YES	NO	NO
	VALLERS, SALINE	No	---	---	---	---	---
	HAMERLY	Yes	depression	2B3,3	YES	NO	YES
	TONKA	No	---	---	---	---	---
	SVEA	Yes	depression	2B3,3	YES	NO	YES
4: SOUTHAM SILTY CLAY LOAM	PARNELL	Yes	depression	2B3,3	YES	NO	YES
	SOUTHAM	Yes	depression	3,2B3	YES	NO	YES
	PLAYMOOR	Yes	flat	2B3	YES	NO	NO
	VALLERS, SALINE	Yes	flat	2B3	YES	NO	NO
	WATER	Yes	depression	3,2B3	YES	NO	YES
5: HAMERLY-TONKA COMPLEX, 0 TO 3 PERCENT SLOPES	HAMERLY	No	---	---	---	---	---
	TONKA	Yes	depression	3,2B3	YES	NO	YES
	VALLERS	Yes	flat	2B3	YES	NO	NO
	WYARD	No	---	---	---	---	---
	PARNELL	Yes	depression	2B3,3	YES	NO	YES
	HAMERLY, SALINE	No	---	---	---	---	---
	VALLERS, SALINE	Yes	flat	2B3	YES	NO	NO
	BALATON	No	ground moraine	---	---	---	---
	BARNES	No	---	---	---	---	---
	CAVOUR	No	flat	---	---	---	---
7: PARNELL-VALLERS COMPLEX, 0 TO 3 PERCENT SLOPES	PARNELL	Yes	depression	3,2B3	YES	NO	YES
	VALLERS	Yes	flat	2B3	YES	NO	NO
	SOUTHAM	Yes	depression	2B3,3	YES	NO	YES
	HAMERLY	No	---	---	---	---	---
	TONKA	Yes	depression	2B3,3	YES	NO	YES
	VALLERS, NONSALINE	Yes	flat	2B3	YES	NO	NO
	PLAYMOOR	Yes	flat	2B3	YES	NO	NO
	WYARD	No	---	---	---	---	---
8: SVEA LOAM	SVEA	No	---	---	---	---	---
	BARNES	No	---	---	---	---	---
	HAMERLY	No	---	---	---	---	---
	BUSE	No	---	---	---	---	---
	CRESBARD	No	---	---	---	---	---
	FORDVILLE	No	---	---	---	---	---
	RENSHAW	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
10: SVEA LOAM, 1 TO 3 PERCENT SLOPES	SVEA	No	---	---	---	---	---
	BARNES	No	---	---	---	---	---
	HAMERLY	No	---	---	---	---	---
	CRESBARD	No	---	---	---	---	---
	TONKA	Yes	depression	2B3, 3	YES	NO	YES
	BUSE	No	---	---	---	---	---
	HAMLET	No	---	---	---	---	---
11B: SVEA-BUSE LOAMS, 3 TO 6 PERCENT SLOPES	BARNES	No	---	---	---	---	---
	SVEA	No	---	---	---	---	---
	BUSE	No	---	---	---	---	---
	TONKA	Yes	depression	3, 2B3	YES	NO	YES
	HAMERLY	No	---	---	---	---	---
	CRESBARD	No	---	---	---	---	---
	PARNELL	Yes	depression	3, 2B3	YES	NO	YES
11C: SVEA-BUSE LOAMS, 6 TO 9 PERCENT SLOPES	VALLERS	Yes	flat	2B3	YES	NO	NO
	SVEA	No	---	---	---	---	---
	BUSE	No	---	---	---	---	---
	BARNES	No	---	---	---	---	---
	HAMERLY	No	---	---	---	---	---
	CRESBARD	No	---	---	---	---	---
	PLAYMOOR	Yes	drainageway	2B3	YES	NO	NO
12B: BARNES-SVEA LOAMS, 3 TO 6 PERCENT SLOPES	TONKA	Yes	depression	2B3, 3	YES	NO	YES
	PARNELL	Yes	depression	3, 2B3	YES	NO	YES
	BARNES	No	---	---	---	---	---
	SVEA	No	---	---	---	---	---
	HAMERLY	No	---	---	---	---	---
	BUSE	No	---	---	---	---	---
	CRESBARD	No	---	---	---	---	---
13D: BUSE-SVEA LOAMS, 9 TO 15 PERCENT SLOPES	RENSHAW	No	---	---	---	---	---
	HAMLET	No	---	---	---	---	---
	TONKA	Yes	depression	3, 2B3	YES	NO	YES
	BUSE	No	---	---	---	---	---
	SVEA	No	---	---	---	---	---
	BARNES	No	---	---	---	---	---
	CRESBARD	No	---	---	---	---	---
13E: BUSE-SVEA LOAMS, 15 TO 25 PERCENT SLOPES	HAMERLY	No	---	---	---	---	---
	SIOUX	No	---	---	---	---	---
	PARNELL	Yes	depression	3, 2B3	YES	NO	YES
	TONKA	Yes	depression	3, 2B3	YES	NO	YES
	BUSE	No	---	---	---	---	---
	SVEA	No	---	---	---	---	---
	BARNES	No	---	---	---	---	---
RENSHAW	No	---	---	---	---	---	
SWENODA	No	---	---	---	---	---	
DICKEY	No	---	---	---	---	---	
LADELLE	No	---	---	---	---	---	
SIOUX	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
14D: SIOUX-BARNES LOAMS, 6 TO 15 PERCENT SLOPES	SIOUX	No	---	---	---	---	---
	BARNES	No	---	---	---	---	---
	COE	No	---	---	---	---	---
	RENSHAW	No	---	---	---	---	---
	SVEA	No	---	---	---	---	---
	BUSE	No	---	---	---	---	---
15: BORUP SILT LOAM	HAMERLY	No	---	---	---	---	---
	BORUP	Yes	flat	2B3	YES	NO	NO
	COLVIN	Yes	flat	2B3	YES	NO	NO
	GLYNDON	No	---	---	---	---	---
	MARYSLAND	Yes	flat	2B3	YES	NO	NO
	DIVIDE	No	---	---	---	---	---
17: BORUP SILT LOAM, SALINE	HAMERLY	No	---	---	---	---	---
	VALLERS	Yes	flat	2B3	YES	NO	NO
	BORUP, SALINE	Yes	flat	2B3	YES	NO	NO
	COLVIN, SALINE	Yes	flat	2B3	YES	NO	NO
	PLAYMOOR	Yes	flat	2B3	YES	NO	NO
	DIVIDE	No	---	---	---	---	---
20: HAMERLY LOAM, 0 TO 2 PERCENT SLOPES	MIRANDA	No	---	---	---	---	---
	PARNELL	Yes	depression	3, 2B3	YES	NO	YES
	HAMERLY	No	---	---	---	---	---
	SVEA	No	---	---	---	---	---
	TONKA	Yes	depression	2B3, 3	YES	NO	YES
	VALLERS	Yes	flat	2B3	YES	NO	NO
20B: HAMERLY LOAM, 2 TO 5 PERCENT SLOPES	CRESBARD	No	---	---	---	---	---
	BARNES	No	---	---	---	---	---
	PARNELL	Yes	depression	3, 2B3	YES	NO	YES
	HAMERLY	No	---	---	---	---	---
	SVEA	No	---	---	---	---	---
	CRESBARD	No	---	---	---	---	---
21: VALLERS AND HAMERLY LOAMS, SALINE, 0 TO 3 PERCENT SLOPES	TONKA	Yes	depression	3, 2B3	YES	NO	YES
	MIRANDA	No	---	---	---	---	---
	BARNES	No	---	---	---	---	---
	VALLERS	Yes	flat	2B3	YES	NO	NO
	VALLERS, SALINE	Yes	drainageway	2B3	YES	NO	NO
	HAMERLY, SALINE	No	---	---	---	---	---
	PLAYMOOR	Yes	drainageway	2B3	YES	NO	NO
	TONKA	Yes	depression	3, 2B3	YES	NO	YES
	HAMERLY,	No	---	---	---	---	---
	NONSALINE	Yes	depression	2B3, 3	YES	NO	YES
CRESBARD	No	---	---	---	---	---	
VALLERS,	Yes	drainageway	2B3	YES	NO	NO	
NONSALINE	Yes	drainageway	2B3	YES	NO	NO	

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				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
22: VALLERS LOAM, 0 TO 3 PERCENT SLOPES	VALLERS	Yes	flat	2B3	YES	NO	NO
	HAMERLY	No	---	---	---	---	---
	VALLERS, SALINE	Yes	flat	2B3	YES	NO	NO
	SVEA	No	---	---	---	---	---
	PLAYMOOR	Yes	flat	2B3	YES	NO	NO
	WYARD	No	---	---	---	---	---
23: CAVOUR-CRESBARD LOAMS, 0 TO 3 PERCENT SLOPES	TONKA	Yes	depression	3,2B3	YES	NO	YES
	CAVOUR	No	---	---	---	---	---
	CRESBARD	No	---	---	---	---	---
	MIRANDA	No	---	---	---	---	---
	SVEA	No	---	---	---	---	---
	VALLERS, SALINE	Yes	flat	2B3	YES	NO	NO
24: SVEA-CRESBARD LOAMS, 0 TO 3 PERCENT SLOPES	BARNES	No	---	---	---	---	---
	HAMERLY	No	---	---	---	---	---
	PLAYMOOR	Yes	flat	2B3	YES	NO	NO
	CRESBARD	No	---	---	---	---	---
	SVEA	No	---	---	---	---	---
	BARNES	No	---	---	---	---	---
25: MIRANDA-CAVOUR LOAMS, 0 TO 3 PERCENT SLOPES	CAVOUR	No	---	---	---	---	---
	VALLERS, SALINE	Yes	flat	2B3	YES	NO	NO
	PLAYMOOR	Yes	flat	2B3	YES	NO	NO
	HAMERLY, SALINE	No	---	---	---	---	---
	SVEA	No	---	---	---	---	---
	CRESBARD	No	---	---	---	---	---
26B: CRESBARD-BARNES LOAMS, 3 TO 6 PERCENT SLOPES	HAMERLY	No	---	---	---	---	---
	CRESBARD	No	---	---	---	---	---
	BARNES	No	---	---	---	---	---
	SVEA	No	---	---	---	---	---
	BUSE	No	---	---	---	---	---
	HAMERLY	No	---	---	---	---	---
27: HAMAR LOAMY SAND	TONKA	Yes	depression	2B3, 3	YES	NO	YES
	MIRANDA	No	---	---	---	---	---
	VALLERS	Yes	drainageway	2B3	YES	NO	NO
	HAMAR	Yes	flat	2B3	YES	NO	NO
	TIFFANY	Yes	depression	3,2B3	YES	NO	YES
	VENLO	Yes	depression	2B2	YES	NO	NO
	ARVESON	Yes	flat	2B3	YES	NO	NO
	AYLMER	No	---	---	---	---	---
	DIVIDE	No	---	---	---	---	---
	MADDOCK	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
28E: WAMDUSKA SANDY LOAM, 9 TO 45 PERCENT SLOPES, EXTREMELY STONY	WAMDUSKA	No	---	---	---	---	---
	MAUVAIS	No	---	---	---	---	---
	LANGHEI	No	---	---	---	---	---
	BUSE	No	---	---	---	---	---
	COE	No	---	---	---	---	---
	KLOTEN SIOUX	No No	--- ---	--- ---	--- ---	--- ---	--- ---
29B: MADDOCK LOAMY SAND, 1 TO 6 PERCENT SLOPES	MADDOCK	No	---	---	---	---	---
	DICKEY	No	---	---	---	---	---
	EMBDEN	No	---	---	---	---	---
	ARVILLA	No	---	---	---	---	---
	EGELAND	No	---	---	---	---	---
	GARDENA HECLA	No No	--- ---	--- ---	--- ---	--- ---	--- ---
30: EMBDEN FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES	EMBDEN	No	---	---	---	---	---
	ARVILLA	No	---	---	---	---	---
	CLONTARF GARDENA	No No	--- ---	--- ---	--- ---	--- ---	--- ---
31B: EGELAND SANDY LOAM, 3 TO 6 PERCENT SLOPES	EGELAND	No	---	---	---	---	---
	EMBDEN	No	---	---	---	---	---
	MADDOCK	No	---	---	---	---	---
	GLYNDON	No	---	---	---	---	---
	WYNDMERE	No	---	---	---	---	---
32: GARDENA SILT LOAM, 0 TO 3 PERCENT SLOPES	GARDENA	No	---	---	---	---	---
	EMBDEN	No	---	---	---	---	---
	SVEA	No	---	---	---	---	---
	EMRICK	No	---	---	---	---	---
	SWENODA	No	---	---	---	---	---
	GLYNDON WYNDMERE	No No	--- ---	--- ---	--- ---	--- ---	--- ---
32B: GARDENA SILT LOAM, 3 TO 6 PERCENT SLOPES	GARDENA	No	---	---	---	---	---
	EMRICK	No	---	---	---	---	---
	HEIMDAL	No	---	---	---	---	---
	SVEA	No	---	---	---	---	---
	BARNES	No	---	---	---	---	---
	GLYNDON	No	---	---	---	---	---
33: GLYNDON SILT LOAM	GLYNDON	No	---	---	---	---	---
	BORUP	Yes	flat	2B3	YES	NO	NO
	HAMERLY	No	---	---	---	---	---
	WYNDMERE	No	---	---	---	---	---
	BEARDEN	No	---	---	---	---	---
	LAMOURE	Yes	flood plain	2B3	YES	NO	NO
	DIVIDE	No	---	---	---	---	---

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				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
34: LADELLE SILT LOAM	LADELLE	No	---	---	---	---	---
	WALSH	No	---	---	---	---	---
	LAPRAIRIE	No	---	---	---	---	---
	CHANNEL	---	---	---	---	---	---
	BORUP	Yes	flat	2B3	YES	NO	NO
	LAMOURE	Yes	flood plain	2B3	YES	NO	NO
35: LADELLE SILT LOAM, CHANNELED	WAMDUSKA	No	---	---	---	---	---
	CHANNEL	---	---	---	---	---	---
	LADELLE, CHANNELED	No	---	---	---	---	---
	LAMOURE CHANNELED	Yes	channel	2B3	YES	NO	NO
	CLAIRE CHANNELED	No	---	---	---	---	---
	MINNEWAUKAN VELVA CHANNELED	Yes	channel	2B2	YES	NO	NO
	VELVA CHANNELED	No	---	---	---	---	---
	EMBDEN	No	---	---	---	---	---
	RAUVILLE	Yes	oxbow	3,2B3	YES	NO	YES
	36B: ARVILLA SANDY LOAM, 0 TO 6 PERCENT SLOPES	ARVILLA	No	---	---	---	---
RENSHAW		No	---	---	---	---	---
DIVIDE		No	---	---	---	---	---
WYRENE		No	---	---	---	---	---
CLONTARF		No	---	---	---	---	---
HAMAR PD TOWNER		Yes	depression	2B3	YES	NO	NO
TOWNER		No	---	---	---	---	---
---		---	---	---	---	---	---
37: FORDVILLE LOAM	FORDVILLE	No	---	---	---	---	---
	SVEA	No	---	---	---	---	---
	RENSHAW	No	---	---	---	---	---
	GARDENA	No	---	---	---	---	---
	EMRICK	No	---	---	---	---	---
	GLYNDON	No	---	---	---	---	---
	HAMERLY	No	---	---	---	---	---
	---	---	---	---	---	---	---
38B: RENSHAW LOAM, 1 TO 6 PERCENT SLOPES	RENSHAW	No	---	---	---	---	---
	FORDVILLE	No	---	---	---	---	---
	SIOUX	No	---	---	---	---	---
	GARDENA	No	---	---	---	---	---
	HEIMDAL	No	---	---	---	---	---
	ARVILLA	No	---	---	---	---	---
	DIVIDE	No	---	---	---	---	---
39E: SIOUX LOAM, 6 TO 25 PERCENT SLOPES	SIOUX	No	---	---	---	---	---
	LADELLE	No	---	---	---	---	---
	RENSHAW	No	---	---	---	---	---
	FORDVILLE	No	---	---	---	---	---
	MADDOCK	No	---	---	---	---	---

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				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria	
40: DIVIDE LOAM, 0 TO 3 PERCENT SLOPES	DIVIDE	No	flat	Soil blowing 2B3	NO	NO	NO	
	MARYSLAND	Yes	flat		YES	NO	NO	
	OSAKIS	No	flat		---	---	---	---
	CAVOUR	No	---		---	---	---	---
	GLYNDON	No	flat, lake plain		---	---	---	---
	WYARD	No	---		---	---	---	---
41: VANG LOAM	HAMAR	Yes	flat	2B3	YES	NO	NO	
	VANG	No	---	---	---	---	---	
	WALSH	No	---	---	---	---	---	
	BRANTFORD	No	---	---	---	---	---	
	SVEA	No	---	---	---	---	---	
	DIVIDE	No	---	---	---	---	---	
42B: BRANTFORD LOAM, 1 TO 6 PERCENT SLOPES	BRANTFORD	No	---	---	---	---	---	
	VANG	No	---	---	---	---	---	
	WALSH	No	---	---	---	---	---	
	COE	No	---	---	---	---	---	
	BARNES	No	---	---	---	---	---	
	SVEA	No	---	---	---	---	---	
43E: COE GRAVELLY LOAM, 6 TO 25 PERCENT SLOPES	COE	No	---	---	---	---	---	
	WALSH	No	---	---	---	---	---	
	BUSE	No	---	---	---	---	---	
	BRANTFORD	No	---	---	---	---	---	
	PARNELL	Yes	depression	3,2B3	YES	NO	YES	
	VANG	No	---	---	---	---	---	
44B: WALSH LOAM, 1 TO 6 PERCENT SLOPES	LADELLE	No	---	---	---	---	---	
	WALSH	No	---	---	---	---	---	
	LADELLE	No	---	---	---	---	---	
	EDGELEY	No	---	---	---	---	---	
44C: WALSH LOAM, 6 TO 9 PERCENT SLOPES	ARVILLA	No	---	---	---	---	---	
	WALSH	No	---	---	---	---	---	
	EDGELEY	No	---	---	---	---	---	
	BARNES	No	---	---	---	---	---	
	BUSE	No	---	---	---	---	---	
	LADELLE	No	---	---	---	---	---	
45E: ZELL-MADDOCK COMPLEX, 6 TO 25 PERCENT SLOPES	KLOTEN	No	---	---	---	---	---	
	ZELL	No	---	---	---	---	---	
	MADDOCK	No	---	---	---	---	---	
	EGELAND	No	---	---	---	---	---	
	EMBDEN	No	---	---	---	---	---	
	SERDEN	No	---	---	---	---	---	
	GARDENA	No	---	---	---	---	---	
	ARVILLA	No	---	---	---	---	---	
COE	No	---	---	---	---	---		

HYDRIC SOIL INTERPRETATIONS
HYDRIC SOILS LIST
Nelson County Area, North
Dakota

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
46C: WAMDUSKA-MAUVAIS COMPLEX, 1 TO 9 PERCENT SLOPES	WAMDUSKA	No	---	---	---	---	---
	MAUVAIS	No	---	---	---	---	---
	COE	No	---	---	---	---	---
	LALLIE, SALINE	Yes	lake plain	2B3	YES	NO	NO
	MINNEWAUKAN	Yes	beach	2B2	YES	NO	NO
	BUSE	No	---	---	---	---	---
	GLYNDON HAMERLY	No	---	---	---	---	---
47: LALLIE SILTY CLAY LOAM, SALINE	LALLIE, SALINE	Yes	lake plain	2B3,3	YES	NO	YES
	MINNEWAUKAN	Yes	beach	2B2	YES	NO	NO
	BORUP, SALINE	Yes	flat	2B3	YES	NO	NO
	WAMDUSKA	No	---	---	---	---	---
	LALLIE SIL MAUVAIS	Yes	flood plain	2B3,3	YES	NO	YES
48B: BARNES-RENSHAW LOAMS, 1 TO 6 PERCENT SLOPES	RENSHAW	No	---	---	---	---	---
	BARNES	No	---	---	---	---	---
	SVEA	No	---	---	---	---	---
	SIOUX	No	---	---	---	---	---
	BUSE	No	---	---	---	---	---
	EMBDEN	No	---	---	---	---	---
	HAMERLY	No	---	---	---	---	---
	FORDVILLE	No	---	---	---	---	---
	70E: KLOTEN-BUSE LOAMS, 9 TO 25 PERCENT SLOPES	KLOTEN	No	---	---	---	---
BUSE		No	---	---	---	---	---
EDGELEY		No	---	---	---	---	---
WALSH		No	---	---	---	---	---
BARNES		No	---	---	---	---	---
SVEA		No	---	---	---	---	---
LAMOURE		Yes	flood plain	2B3	YES	NO	NO
MIRANDA		No	---	---	---	---	---
73: LAMOURE SILTY CLAY LOAM		LAMOURE	Yes	flood plain	2B3	YES	NO
	RAUVILLE	Yes	oxbow	4,3,2B3	YES	YES	YES
	LADELLE	No	---	---	---	---	---
	CHANNEL	---	---	---	---	---	---
	LAPRAIRIE	No	---	---	---	---	---
	COLVIN	Yes	flood plain	2B3	YES	NO	NO
W: WATER	WATER	Yes	depression	2B3,3	YES	NO	YES
	SOUTHAM	Yes	depression	2B3,3	YES	NO	YES
	PARNELL	Yes	depression	2B3,3	YES	NO	YES
	VALLERS	Yes	flat	2B3	YES	NO	NO

HYDRIC SOIL INTERPRETATIONS
 HYDRIC SOILS LIST
 Nelson County Area, North
 Dakota

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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.

