

HYDRIC SOIL INTERPRETATIONS
HYDRIC SOILS LIST
Walsh County, 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
An: ANTLER STONY CLAY LOAM	ANTLER , STONY	No	---	---	---	---	---
Ao: ANTLER CLAY LOAM	ANTLER	No	---	---	---	---	---
As: ARVESON-FOSSUM FINE SANDY LOAMS	ARVESON	Yes	flat	2B3	YES	NO	NO
	FOSSUM	Yes	flat	2B3	YES	NO	NO
At: ARVESON-FOSSUM LOAMS	ARVESON	Yes	flat	2B3	YES	NO	NO
	FOSSUM	Yes	flat	2B3	YES	NO	NO
AuA: ARVILLA SANDY LOAM, NEARLY LEVEL	ARVILLA	No	---	---	---	---	---
AuB: ARVILLA SANDY LOAM, GENTLY SLOPING	ARVILLA	No	---	---	---	---	---
BaC: BARNES LOAM, ROLLING	BARNES	No	---	---	---	---	---
BaC2: BARNES LOAM, ROLLING, ERODED	BARNES	No	---	---	---	---	---
Bbd2: BARNES-BUSE LOAMS, HILLY, ERODED	BARNES, ERODED	No	---	---	---	---	---
	BUSE, ERODED	No	---	---	---	---	---
Be: BARNES-BUSE STONY LOAMS	BARNES, STONY	No	---	---	---	---	---
	BUSE, STONY	No	---	---	---	---	---
BgC: BARNES-RENSHAW LOAMS, ROLLING	BARNES	No	---	---	---	---	---
	RENSHAW	No	---	---	---	---	---
BhD: BARNES-SIOUX COMPLEX, HILLY	BARNES	No	---	---	---	---	---
	SIOUX	No	---	---	---	---	---
BkB: BARNES-SVEA LOAMS, GENTLY UNDULATING	BARNES	No	---	---	---	---	---
	SVEA	No	---	---	---	---	---
BkB2: BARNES-SVEA LOAMS, GENTLY UNDULATING, ERODED	BARNES	No	---	---	---	---	---
	SVEA	No	---	---	---	---	---
BlA: BARNES-SVEA STONY LOAMS, NEARLY LEVEL	BARNES	No	---	---	---	---	---
	SVEA	No	---	---	---	---	---
BlC: BARNES-SVEA STONY LOAMS, ROLLING	BARNES	No	---	---	---	---	---
	SVEA	No	---	---	---	---	---
Bm: BEARDEN SILT LOAM	BEARDEN	No	---	---	---	---	---
BnA: BEARDEN SILTY CLAY LOAM, LEVEL	BEARDEN	No	---	---	---	---	---
BnC: BEARDEN SILTY CLAY LOAM, SLOPING	BEARDEN	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
Bo: BEARDEN SILTY CLAY LOAM, FANS	BEARDEN	No	---	---	---	---	---
Br: BEARDEN SILTY CLAY LOAM, SALINE	BEARDEN, SALINE	No	---	---	---	---	---
Bs: BEARDEN SILTY CLAY LOAM, GRAVELLY SUBSTRATUM	BEARDEN	No	---	---	---	---	---
Bt: BEARDEN SILTY CLAY	BEARDEN	No	---	---	---	---	---
Bu: BENOIT LOAM	BENOIT, (MARYSLAND)	Yes	flat	2B3	YES	NO	NO
Bv: BORUP SILT LOAM	BORUP	Yes	flat	2B3	YES	NO	NO
BwB: BRANTFORD-VANG LOAMS, GENTLY SLOPING	BRANTFORD	No	---	---	---	---	---
ByC: BUSE-BARNES LOAMS, ROLLING	BUSE	No	---	---	---	---	---
ByD: BUSE-BARNES LOAMS, HILLY	BARNES	No	---	---	---	---	---
	BUSE	No	---	---	---	---	---
ByE: BUSE-BARNES LOAMS, STEEP	BARNES	No	---	---	---	---	---
	BUSE	No	---	---	---	---	---
CaA: CASHEL SILTY CLAY, NEARLY LEVEL	CASHEL	No	---	---	---	---	---
CaB: CASHEL SILTY CLAY, GENTLY SLOPING	CASHEL	No	---	---	---	---	---
CcE: CASHEL SOILS, STEEP	CASHEL	No	---	---	---	---	---
Cd: CAVOUR COMPLEX	CAVOUR	No	---	---	---	---	---
Ce: COE SOILS	COE	No	---	---	---	---	---
Cf: COLVIN SILT LOAM	COLVIN	Yes	flat	2B3	YES	NO	NO
Ch: COLVIN SILTY CLAY LOAM	COLVIN	Yes	flat	2B3	YES	NO	NO
Co: COLVIN SILTY CLAY LOAM, VERY WET	COLVIN, VERY WET	Yes	depression	2B3,3	YES	NO	YES
DdA: DIVIDE LOAM, LEVEL	DIVIDE	No	---	---	---	---	---
Dp: DUMPS AND PITS	DUMPS	No	---	---	---	---	---
	PITS	No	---	---	---	---	---
Eba: EDGELEY LOAM, NEARLY LEVEL	EDGELEY	No	---	---	---	---	---
Ebb: EDGELEY LOAM, GENTLY UNDULATING	EDGELEY	No	---	---	---	---	---
Ebc: EDGELEY LOAM, UNDULATING	EDGELEY	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
EmA: EMBDEN SANDY LOAM, LEVEL	EMBDEN	No	---	---	---	---	---
EmB: EMBDEN SANDY LOAM, GENTLY UNDULATING	EMBDEN	No	---	---	---	---	---
EmC: EMBDEN SANDY LOAM, SLOPING	EMBDEN	No	---	---	---	---	---
EnA: EMBDEN LOAM, LEVEL	EMBDEN	No	---	---	---	---	---
Fa: FAIRDALE SILT LOAM	FAIRDALE	No	---	---	---	---	---
FaB: FAIRDALE SILT LOAM, GENTLY SLOPING	FAIRDALE	No	---	---	---	---	---
Fd: FAIRDALE SILT LOAM, OCCASSIONALLY FLOODED	FAIRDALE	No	---	---	---	---	---
Fe: FAIRDALE AND LAPRAIRIE SOILS, CHANNELED	CHANNEL	Yes	---	4	NO	YES	NO
	FAIRDALE	No	---	---	---	---	---
	LAPRAIRIE	No	---	---	---	---	---
FfA: FARGO SILTY CLAY, NEARLY LEVEL	FARGO	Yes	lake plain	2B3	YES	NO	NO
Fg: FARGO SILTY CLAY, DEPRESSIONAL	FARGO, DEPRESSIONAL	Yes	depression	3,2B3	YES	NO	YES
FhA: FARGO-HEGNE SILTY CLAYS, LEVEL	FARGO	Yes	lake plain	2B3	YES	NO	NO
	HEGNE	Yes	lake plain	2B3	YES	NO	NO
FhB: FARGO-HEGNE SILTY CLAYS, GENTLY SLOPING	FARGO	Yes	lake plain	2B3	YES	NO	NO
	HEGNE	Yes	lake plain	2B3	YES	NO	NO
GaA: GARDENA SILT LOAM, NEARLY LEVEL	GARDENA	No	---	---	---	---	---
GaB: GARDENA SILT LOAM, GENTLY SLOPING	GARDENA	No	---	---	---	---	---
Gb: GILBY LOAM	GILBY	No	---	---	---	---	---
Ge: GILBY LOAM, WET	GILBY	Yes	depression	2B3	YES	NO	NO
Gh: GILBY STONY LOAM	GILBY, STONY	No	---	---	---	---	---
Gla: GLYNDON SILT LOAM, LEVEL	GLYNDON	No	---	---	---	---	---
Glb: GLYNDON SILT LOAM, GENTLY SLOPING	GLYNDON	No	---	---	---	---	---
Gm: GLYNDON SILT LOAM, MODERATELY SALINE	GLYNDON, MODERATELY SALINE	No	---	---	---	---	---
Gr: GRANO SILTY CLAY, VERY WET	GRANO, VERY WET	Yes	depression	2B3,3	YES	NO	YES

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				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
Gs: GRANO-HEGNE SILTY CLAYS	GRANO	Yes	depression	2B3,3	YES	NO	YES
	HEGNE	Yes	lake plain	2B3	YES	NO	NO
Ha: HAMAR AND ULEN LOAMY SANDS	HAMAR	No	---	---	---	---	---
	ULEN	No	---	---	---	---	---
Hd: HAMAR AND ULEN SANDY LOAMS	HAMAR	Yes	depression	2B3	YES	NO	NO
	ULEN	No	---	---	---	---	---
He: HAMERLY-CRESBARD LOAMS	HAMERLY	No	---	---	---	---	---
	CRESBARD	No	---	---	---	---	---
HgA: HAMERLY-SVEA LOAMS, NEARLY LEVEL	HAMERLY	No	---	---	---	---	---
	SVEA	No	---	---	---	---	---
HgB: HAMERLY-SVEA LOAMS, GENTLY UNDULATING	HAMERLY	No	---	---	---	---	---
	SVEA	No	---	---	---	---	---
Hh: HATTIE SILTY CLAY, LACUSTRINE	HATTIE, LACUSTRINE	No	---	---	---	---	---
H1A: HECLA LOAMY SAND, NEARLY LEVEL	HECLA	No	---	---	---	---	---
H1B: HECLA LOAMY SAND, GENTLY UNDULATING	HECLA	No	---	---	---	---	---
HmA: HEGNE-FARGO SILTY CLAYS, NEARLY LEVEL	HEGNE	Yes	lake plain	2B3	YES	NO	NO
	FARGO	Yes	lake plain	2B3	YES	NO	NO
HmB: HEGNE-FARGO SILTY CLAYS, GENTLY SLOPING	HEGNE	Yes	lake plain	2B3	YES	NO	NO
	FARGO	Yes	lake plain	2B3	YES	NO	NO
Hn: HEGNE SILTY CLAY, SALINE	HEGNE, SALINE	Yes	depression	2B3,3	YES	NO	YES
Hs: HEGNE SILTY CLAY, STRONGLY SALINE-ALKALI	HEGNE, STR. SALINE, ALKALI	Yes	lake plain	2B3	YES	NO	NO
Kn: KLOTEN COMPLEX	KLOTEN	No	---	---	---	---	---
La: LAMOURE SOILS, MODERATELY SALINE	LAMOURE, MODERATELY SALINE	Yes	flood plain	2B3	YES	NO	NO
LeA: LANKIN LOAM, LEVEL	LANKIN	No	---	---	---	---	---
Lk: LANKIN CLAY LOAM	LANKIN	No	---	---	---	---	---
LnA: LANKIN AND SVEA LOAMS, NEARLY LEVEL	LANKIN	No	---	---	---	---	---
	SVEA	No	---	---	---	---	---
LnB: LANKIN AND SVEA LOAMS, GENTLY SLOPING	LANKIN	No	---	---	---	---	---
	SVEA	No	---	---	---	---	---

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				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
Lp: LA PRAIRIE SILT LOAM	LA PRAIRIE	No	---	---	---	---	---
Lr: LA PRAIRIE SILTY CLAY LOAM	LA PRAIRIE	No	---	---	---	---	---
Lu: LUDDEN SILTY CLAY	CHANNEL	Yes	---	4	NO	YES	NO
Ly: LUDDEN AND RYAN SOILS	LUDDEN	Yes	flood plain	4, 2B3	YES	YES	NO
M-W: MISCELLANEOUS WATER	LUDDEN RYAN	Yes	flood plain	2B3, 4	YES	YES	NO
Mk3: MADDOCK-HECLA COMPLEX, SEVERELY ERODED	MISCELLANEOUS WATER	Yes	depression	2B3	YES	NO	NO
Mn: MANFRED SOILS	MADDOCK	No	---	---	---	---	---
Oa: OJATA SOILS	HECLA	No	---	---	---	---	---
OeA: OVERLY SILT LOAM, LEVEL	MANFRED	Yes	depression	2B3, 3	YES	NO	YES
Ola: OVERLY SILTY CLAY LOAM, LEVEL	OJATA	Yes	lake plain	2B3	YES	NO	NO
Olb: OVERLY SILTY CLAY LOAM, GENTLY SLOPING	OVERLY	No	---	---	---	---	---
Olc: OVERLY SILTY CLAY LOAM, SLOPING	OVERLY	No	---	---	---	---	---
Om: OVERLY SILTY CLAY LOAM, FANS	OVERLY	No	---	---	---	---	---
OvA: OVERLY SILTY CLAY, LEVEL	OVERLY	No	---	---	---	---	---
Ow: OVERLY SILTY CLAY, FANS	OVERLY	No	---	---	---	---	---
Pa: PARNELL SILTY CLAY LOAM	OVERLY	No	---	---	---	---	---
Pg: PITS, GRAVEL AND SAND	PARNELL	Yes	depression	3, 2B3	YES	NO	YES
Pt: PARNELL AND TONKA SOILS	PITS	No	---	---	---	---	---
Pu: PERELLA SILTY CLAY LOAM	PARNELL	Yes	depression	2B3, 3	YES	NO	YES
Ra: RAUVILLE SOILS	TONKA	Yes	depression	3, 2B3	YES	NO	YES
ReA: RENSHAW LOAM, NEARLY LEVEL	PERELLA	Yes	depression	3, 2B3	YES	NO	YES
ReB: RENSHAW LOAM, GENTLY SLOPING	RAUVILLE	Yes	oxbow	4, 2B3	YES	YES	NO
	RENSHAW	No	---	---	---	---	---
	RENSHAW	No	---	---	---	---	---

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				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
Ro: ROCKWELL FINE SANDY LOAM	ROCKWELL	Yes	beach	2B3	YES	NO	NO
So: SOUTHAM SOILS	SOUTHAM SOILS	Yes	depression	2B3,3	YES	NO	YES
Sr: SIOUX-RENSHAW COMPLEX	SIOUX RENSHAW	No No	---	---	---	---	---
SsE: SIOUX AND RENSHAW SOILS, STEEP	SIOUX RENSHAW	No No	---	---	---	---	---
SuA: SVEA-BARNES LOAMS, NEARLY LEVEL	SVEA BARNES	No No	---	---	---	---	---
SvA: SVEA-CRESBARD LOAMS, NEARLY LEVEL	SVEA CRESBARD	No No	---	---	---	---	---
ToA: TOWNER SANDY LOAM, LEVEL	TOWNER	No	---	---	---	---	---
Un: ULEN SANDY LOAM	ULEN	No	---	---	---	---	---
Va: VALLERS LOAM, SALINE	VALLERS, SALINE	Yes	flat	2B3	YES	NO	NO
Vh: VALLERS-HAMERLY LOAMS	VALLERS HAMERLY	Yes No	flat ---	2B3 ---	YES ---	NO ---	NO ---
Vm: VALLERS-HAMERLY STONY LOAMS	VALLERS, STONY HAMERLY, STONY	Yes No	flat ---	2B3 ---	YES ---	NO ---	NO ---
VnA: VANG-BRANTFORD LOAMS, NEARLY LEVEL	VANG BRANTFORD	No No	---	---	---	---	---
Wa: WAHPETON SILTY CLAY	WAHPETON	No	---	---	---	---	---
WhC: WALSH LOAM, SLOPING	WALSH	No	---	---	---	---	---
WlA: WALSH LOAM, SAND SUBSTRATUM, NEARLY LEVEL	WALSHL., SAND SUBSTRATUM	No	---	---	---	---	---
WlB: WALSH LOAM, SAND SUBSTRATUM, GENTLY SLOPING	WALSH L., SAND SUBSTRATUM	No	---	---	---	---	---
Wm: WALSH SILT LOAM	WALSH	No	---	---	---	---	---
WnA: WALSH CLAY LOAM, LEVEL	WALSH	No	---	---	---	---	---
Wob: WAUKON LOAM, GENTLY UNDULATING	WAUKON	No	---	---	---	---	---
Wod: WAUKON LOAM, STRONGLY ROLLING	WAUKON	No	---	---	---	---	---

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				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
ZgC: ZELL-GARDENA SILT LOAMS, SLOPING	ZELL	No	---	---	---	---	---
	GARDENA	No	---	---	---	---	---
ZgE: ZELL-GARDENA SILT LOAMS, STEEP	ZELL	No	---	---	---	---	---
	GARDENA	No	---	---	---	---	---

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.

