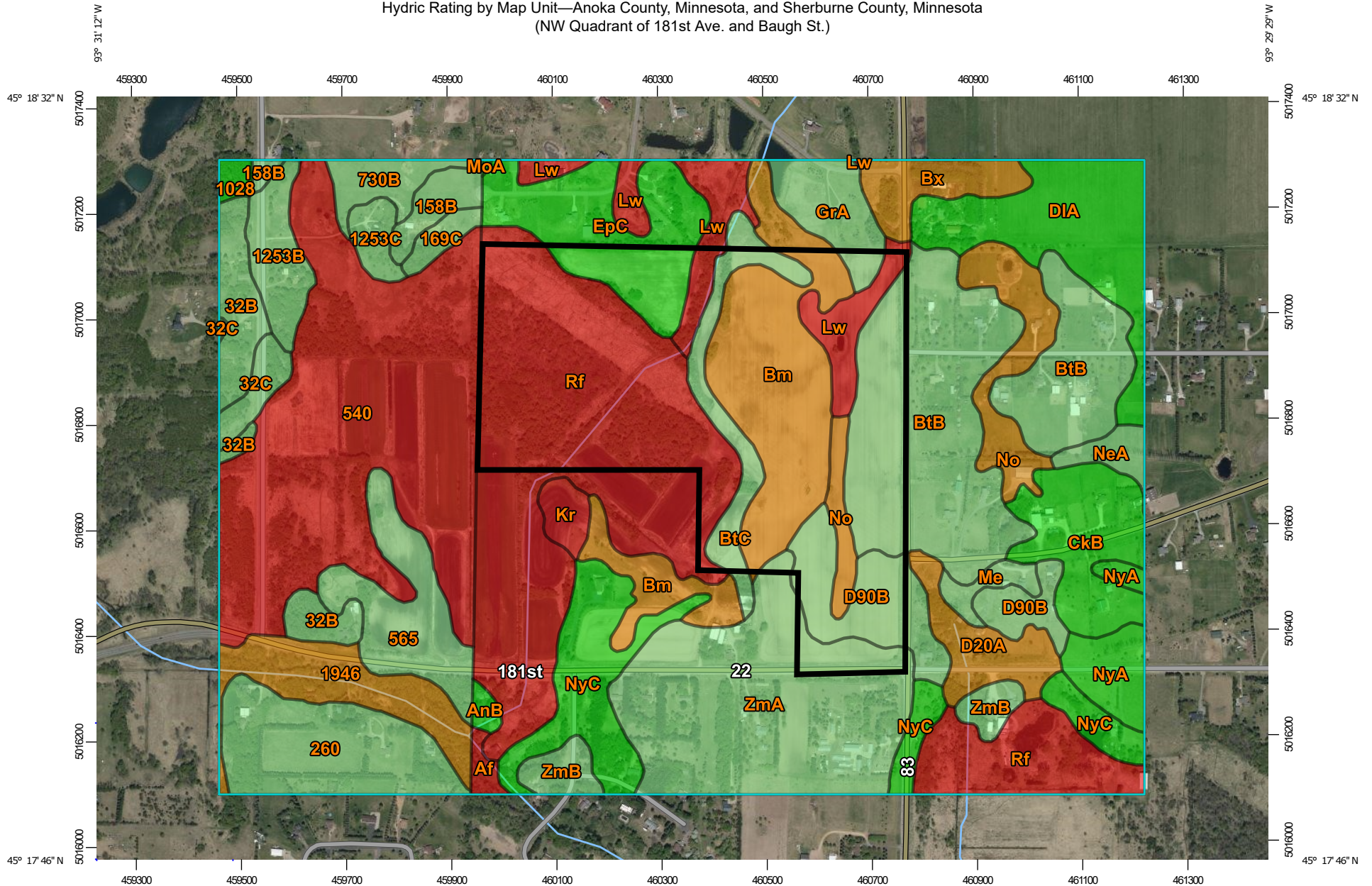
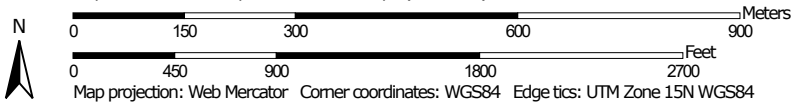


Hydric Rating by Map Unit—Anoka County, Minnesota, and Sherburne County, Minnesota
(NW Quadrant of 181st Ave. and Baugh St.)




Map Scale: 1:10,200 if printed on A landscape (11" x 8.5") sheet.









MAP LEGEND

Area of Interest (AOI)







 Area of Interest (AOI)

Soils







Soil Rating Polygons

-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available


Soil Rating Lines

-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available






Soil Rating Points

-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available


Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Anoka County, Minnesota
Survey Area Data: Version 18, Jun 4, 2020

Soil Survey Area: Sherburne County, Minnesota
Survey Area Data: Version 18, Jun 4, 2020

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 11, 2020—May 19, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Af	Alluvial land, mixed, frequently flooded	100	1.3	0.2%
AnB	Anoka loamy fine sand, 2 to 6 percent slopes	0	1.0	0.2%
Bm	Blomford loamy fine sand	95	33.6	6.4%
BtB	Braham loamy fine sand, 2 to 6 percent slopes	8	52.0	9.9%
BtC	Braham loamy fine sand, 6 to 18 percent slopes	8	8.8	1.7%
Bx	Brickton silt loam	93	6.8	1.3%
CkB	Chetek sandy loam, 2 to 6 percent slopes	0	14.5	2.8%
D20A	Isan-Isan, frequently ponded, complex, 0 to 2 percent slopes	95	7.7	1.5%
D90B	Nymore loamy sand, 1 to 6 percent slopes	3	15.4	2.9%
DIA	Dalbo silt loam, 1 to 5 percent slopes	0	20.0	3.8%
EpC	Emmert complex, 4 to 12 percent slopes	0	19.4	3.7%
GrA	Growton fine sandy loam, 1 to 4 percent slopes	7	7.7	1.5%
Kr	Kratka loamy fine sand	100	2.7	0.5%
Lw	Loamy wet land	100	13.8	2.6%
Me	Meehan sand	8	2.4	0.5%
MoA	Mora fine sandy loam, 1 to 4 percent slopes	0	0.1	0.0%
NeA	Nessel fine sandy loam, 1 to 4 percent slopes	7	2.7	0.5%
No	Nowen sandy loam	92	12.7	2.4%
NyA	Nymore loamy sand, 0 to 2 percent slopes	0	6.5	1.2%
NyC	Nymore loamy sand, 6 to 12 percent slopes	0	20.6	3.9%
Rf	Rifle mucky peat	100	81.3	15.5%
ZmA	Zimmerman fine sand, 0 to 2 percent slopes	4	42.8	8.1%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
ZmB	Zimmerman fine sand, 1 to 6 percent slopes	2	5.3	1.0%
Subtotals for Soil Survey Area			379.1	72.2%
Totals for Area of Interest			525.2	100.0%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
32B	Nebish fine sandy loam, 2 to 6 percent slopes	8	9.7	1.9%
32C	Nebish fine sandy loam, 6 to 12 percent slopes	8	3.2	0.6%
158B	Zimmerman fine sand, 1 to 6 percent slopes	2	4.1	0.8%
169C	Braham loamy fine sand, 6 to 12 percent slopes	3	2.1	0.4%
260	Duelm loamy sand, 0 to 2 percent slopes	7	18.2	3.5%
540	Seelyville muck, 0 to 1 percent slopes	100	67.8	12.9%
565	Eckvoll loamy fine sand, 0 to 3 percent slopes	4	13.6	2.6%
730B	Sanburn fine sandy loam, 2 to 6 percent slopes	1	4.5	0.9%
1028	Udorthents-Pits, gravel, complex	0	1.1	0.2%
1253B	Stonelake-Sanburn complex, 1 to 6 percent slopes	4	6.8	1.3%
1253C	Stonelake-Sanburn complex, 6 to 15 percent slopes	3	2.8	0.5%
1946	Fordum-Winterfield complex, 0 to 2 percent slopes, frequently flooded	80	12.1	2.3%
Subtotals for Soil Survey Area			146.1	27.8%
Totals for Area of Interest			525.2	100.0%

Description

This rating indicates the percentage of map units that meets the criteria for hydric soils. Map units are composed of one or more map unit components or soil types, each of which is rated as hydric soil or not hydric. Map units that are made up dominantly of hydric soils may have small areas of minor nonhydric components in the higher positions on the landform, and map units that are made up dominantly of nonhydric soils may have small areas of minor hydric components in the lower positions on the landform. Each map unit is rated based on its respective components and the percentage of each component within the map unit.

The thematic map is color coded based on the composition of hydric components. The five color classes are separated as 100 percent hydric components, 66 to 99 percent hydric components, 33 to 65 percent hydric components, 1 to 32 percent hydric components, and less than one percent hydric components.

In Web Soil Survey, the Summary by Map Unit table that is displayed below the map pane contains a column named 'Rating'. In this column the percentage of each map unit that is classified as hydric is displayed.

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). Under natural conditions, 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, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2006) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993).

If soils are wet enough for a long enough period of time 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 are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and Vasilas, 2006).

References:

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18.

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service. U.S. Department of Agriculture Handbook 436.

Soil Survey Staff. 2006. Keys to soil taxonomy. 10th edition. U.S. Department of Agriculture, Natural Resources Conservation Service.

Rating Options

Aggregation Method: Percent Present

Component Percent Cutoff: None Specified

Tie-break Rule: Lower