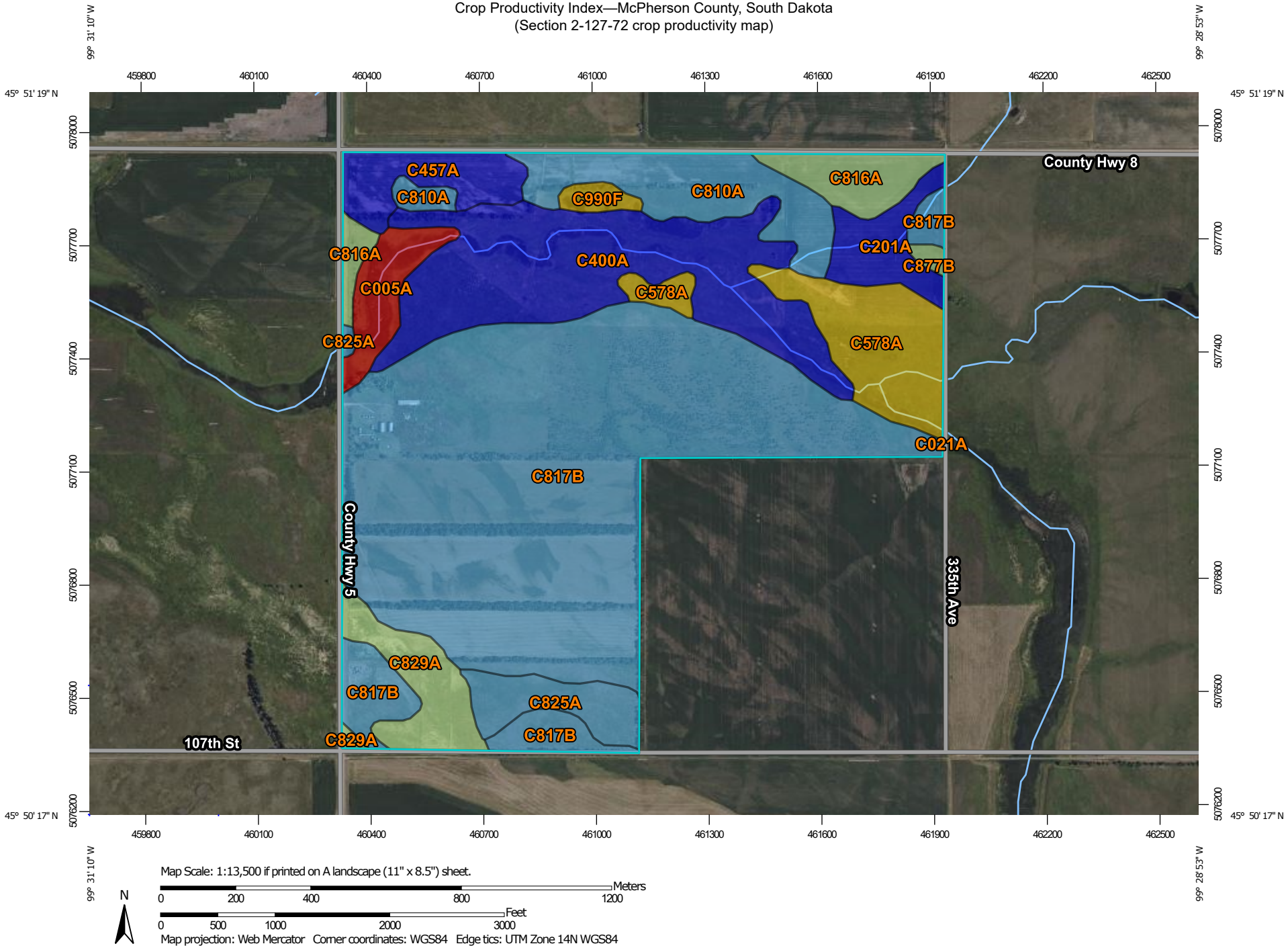
Crop Productivity Index—McPherson County, South Dakota
(Section 2-127-72 crop productivity map)



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- <= 5
- > 5 and <= 21
- > 21 and <= 45
- > 45 and <= 56
- > 56 and <= 98
- Not rated or not available

Soil Rating Lines
- <= 5
- > 5 and <= 21
- > 21 and <= 45
- > 45 and <= 56
- > 56 and <= 98
- Not rated or not available

Soil Rating Points
- <= 5
- > 5 and <= 21
- > 21 and <= 45
- > 45 and <= 56
- > 56 and <= 98
- 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 1:20,000.

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: McPherson County, South Dakota
Survey Area Data: Version 26, Sep 10, 2025

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

Date(s) aerial images were photographed: Jun 18, 2022—Aug 1, 2022

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.

Crop Productivity Index

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
C005A	Southam silty clay loam, 0 to 1 percent slopes	5	12.9	2.7%
C021A	Vallers loam, 0 to 1 percent slopes	45	0.0	0.0%
C201A	Bowbells loam, 0 to 3 percent slopes	92	13.5	2.8%
C400A	Bearden silt loam, 0 to 2 percent slopes	89	76.1	16.1%
C457A	Grassna silt loam, 0 to 2 percent slopes	98	16.0	3.4%
C578A	Ranslo-Harriet loams, 0 to 2 percent slopes, occasionally flooded	21	32.5	6.9%
C810A	Bowdle loam, 0 to 2 percent slopes	56	33.4	7.1%
C816A	Lehr loam, 0 to 2 percent slopes	43	16.0	3.4%
C817B	Lehr-Bowdle loams, 2 to 6 percent slopes	49	235.1	49.7%
C825A	Divide loam, 0 to 2 percent slopes	56	14.7	3.1%
C829A	Marysland loam, 0 to 1 percent slopes	35	18.0	3.8%
C877B	Wabek-Lehr complex, 2 to 6 percent slopes	38	1.4	0.3%
C990F	Pits, gravel and sand, 0 to 60 percent slopes	13	3.4	0.7%
Totals for Area of Interest			**472.9**	**100.0%**

Description

Crop productivity index ratings provide a relative ranking of soils based on their potential for intensive crop production. An index can be used to rate the potential yield of one soil against that of another over a period of time. Ratings range from 0 to 100. The higher numbers indicate higher production potential. The rating is not crop specific. Minnesota inquiries must use the 'Map Unit Cropland Productivity Report (MN)' soils report from the Soil Reports tab under 'Vegetative Productivity'.

When the soils are rated, the following assumptions are made: a) adequate management, b) natural weather conditions (no irrigation), c) artificial drainage where required, d) no frequent flooding on the lower lying soils, and e) no land leveling or terracing. Even though predicted average yields will change with time, the productivity indices are expected to remain relatively constant in relation to one another over time.

Rating Options

Aggregation Method: Weighted Average

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Interpret Nulls as Zero: Yes