

*Datasets / Variable Definitions  
for MUDAC 2024*

**Name: AgDistricts.csv**

Source: [Link](#)

Col	Variable	Variable Description
1	State	State = MINNESOTA
2	County	County Name
3	ANSI	Unique American National Standards Institute (ANSI) code for each county in Minnesota
4	Ag District	Agricultural Districts in Minnesota; Northwest (10), North Central (20), Northeast (30), West Central (40), Central (50), East Central (60), Southwest (70), South Central (80), Southeast (90)  Source: <a href="#">Link</a>
5	Ag District Code	Numeric Code for Agricultural Districts in Minnesota; Northwest (10), North Central (20), Northeast (30), West Central (40), Central (50), East Central (60), Southwest (70), South Central (80), Southeast (90)

**Name: Animals.csv**

Source: <https://quickstats.nass.usda.gov/>

Col	Variable	Variable Description
1-5	Same as AgDistricts.csv	See description for Ag Districts.csv
6	Year	Year; 2010 - 2023
7	CATTLE, COWS, BEEF - INVENTORY	The number of cows - beef (head count)
8	CATTLE, COWS, MILK - INVENTORY	The number of cows - milk (head count)
9	CATTLE, INCL CALVES - INVENTORY	The number of cattle including calves (head count)
10	CATTLE, ON FEED - INVENTORY	The number of cows - feedlot (head count); Only for years 2012, 2017, and 2022
11	HOGS - INVENTORY	The number of hogs (head count); Only for years 2012, 2017, and 2022
12	TURKEYS - INVENTORY	The number of turkeys (head count); Only for years 2012, 2017, and 2022

**Name: CropProductivityIndex.csv**

Source: <https://landeconomics.umn.edu/>

Col	Variable	Variable Description
1-5	Same as AgDistricts.csv	See description for Ag Districts.csv
6	CPI	Crop Productivity Index; Ranges from 0 to 100; A higher value indicates a higher quality of soil for the production of crops  Source: <a href="#">Link</a>
7	Notes	Identifies counties where a secondary source was used to obtain the CPI

**Name: Crops.csv**Source: <https://quickstats.nass.usda.gov/>

Col	Variable	Variable Description
1-5	Same as AgDistricts.csv	See description for Ag Districts.csv
6	Year	Year; 2010 - 2023
7	CORN - ACRES PLANTED	The amount of corn planted (acres)
8	CORN, GRAIN - ACRES HARVESTED	The number of acres of corn - grain harvested (acres)
9	CORN, GRAIN - PRODUCTION, MEASURED IN BU	The total amount of corn - grain produced (bushels)
10	CORN, GRAIN - YIELD, MEASURED IN BU / ACRE	The amount of corn - grain produced per acre (bushels per acre)
11	CORN, SILAGE - ACRES HARVESTED	The number of acres of corn - silage harvested (acres)
12	CORN, SILAGE - PRODUCTION, MEASURED IN TONS	The total amount of corn - silage produced (tons)
13	CORN, SILAGE - YIELD, MEASURED IN TONS / ACRE	The amount of corn - silage produced per acre (tons / acre)
14	SOYBEANS - ACRES HARVESTED	The amount of soybeans harvested (acres)
15	SOYBEANS - ACRES PLANTED	The amount of soybeans planted (acres)
16	SOYBEANS - PRODUCTION, MEASURED IN BU	The total amount of soybeans produced (bushels)
17	SOYBEANS - YIELD, MEASURED IN BU / ACRE	The amount of soybeans produced per acre (bushels / acre)
18	SUGARBEETS - ACRES HARVESTED	The amount of sugerbeats harvested (acres)

19	SUGARBEETS - ACRES PLANTED	The amount of sugerbeets planted (acres)
20	SUGARBEETS - PRODUCTION, MEASURED IN TONS	The amount of sugarbeets produced (tons)
21	SUGARBEETS - SUCROSE, MEASURED IN PCT	The sucrose level of sugarbeets produced (percent)
22	SUGARBEETS - YIELD, MEASURED IN TONS / ACRE	The amount of sugarbeets produced per acre (tons/acre)

Note: SUGARBEETS data are somewhat sparse.

**Name: FertilizerConsumption.csv**

Source: <https://www.mda.state.mn.us/pesticide-fertilizer/fertilizer-use-sales-data>

Note: Data from Tables 6 & 7 from the pdf files provided on this website.

Col	Variable	Variable Description
1-5	Same as AgDistricts.csv	See description for Ag Districts.csv
6	Year	Year; 2010 - 2020
7	Urea (46-0-0)	The amount of Urea applied to tillable land in the county (tons)
8	Potash (0-0-60)	The amount of Potash applied to tillable land in the county (tons)
9	Monammonium Phosphate (MAP) (11-52-0)	The amount of MAP applied to tillable land in the county (tons)
10	Diammonium Phosphate (DAP) (18-46-0)	The amount of DAP applied to tillable land in the county (tons)
11	Ammonia (82-0-0)	The amount of Ammonia applied to tillable land in the county (tons)

**Name: TillableLand.csv**

Source: <https://landeconomics.umn.edu/>

Col	Variable	Variable Description
1-5	Same as AgDistricts.csv	See description for Ag Districts.csv
6	Year	Year; 2010 - 2023
7	Total Class 2a Tillable Acres	Amount of Class 2a tillable land which is agricultural land that can cultivated for row crops or grains. (acres)  Source: <a href="#">Link</a>
8	Total Estimated Value	The total estimated value of all Class 2a tillable land (dollars)
9	Estimated Value Per Acre	Estimated Class 2a tillable land value per acre (dollars / acre)