

## World Geography

### Modeling Minnesota Agriculture

Name: \_\_\_\_\_  
Section: \_\_\_\_\_  
Score: \_\_\_\_/5

Directions: Use the following information sheet and maps to plot out Minnesota's agricultural zones and answer the questions in relating to the Von Thunen Model.

**Alfalfa** is in the same family as peas but is primarily used as livestock fodder. Alfalfa is often grown in large fields like hay.

**Apple Orchards** in Minnesota have a shorter growing season than orchards in warmer areas like California, and because of such are often much smaller

**Beef Cattle** are normally grown to full size and then sent for slaughter, whereas **Dairy Cows** are kept alive as long as possible to produce as much milk as possible

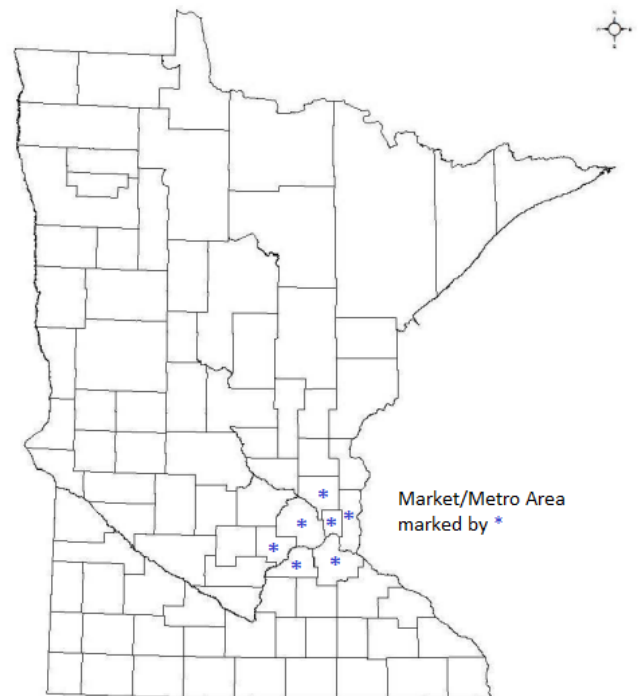
**Sweet Corn** and **Green Peas** are produced in much smaller quantities than their other varieties and are sold for human consumption. **Corn for Grain** is primarily mass produced for animal fodder and ethanol production.

Minnesota is famous for its **Wheat** production for the use of making flour, and use to be a world center for wheat. The University of Minnesota is famous for producing a variety of winter wheat to better withstand the harsh winters of Minnesota.

**Soybeans** are multi-purpose for their use as animal fodder, but also in their use for making tofu, and vegetable oil.

**Sugar beets** require large amounts of land for higher yields and refined to produce sugar

Minnesota Counties



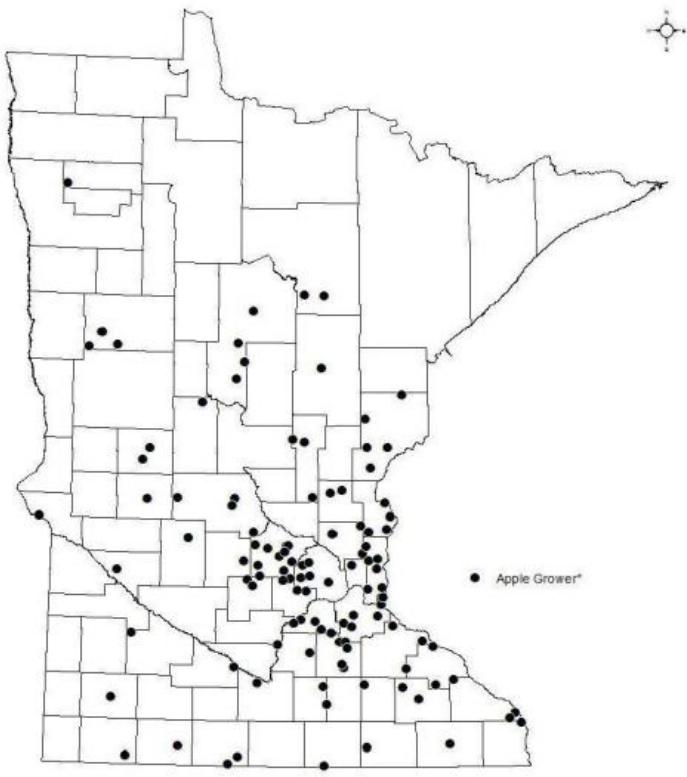
Map produced by: Minnesota Department of Agriculture

0 25 50 100 Miles



Soybean Field

### Apple Growers in Minnesota

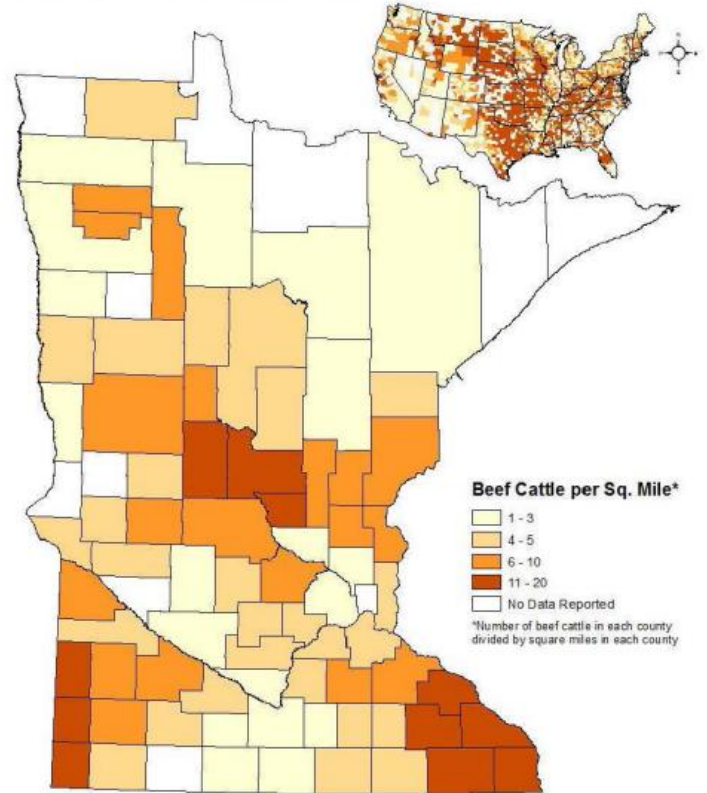


\*Apple Grower indicates commercial apple grower who sells directly to the end consumer.

Map produced by: Minnesota Department of Agriculture  
Data Source: Minnesota Department of Agriculture, MN Grown Program (2014)



### Beef Cattle in Minnesota Counties



**Beef Cattle per Sq. Mile\***

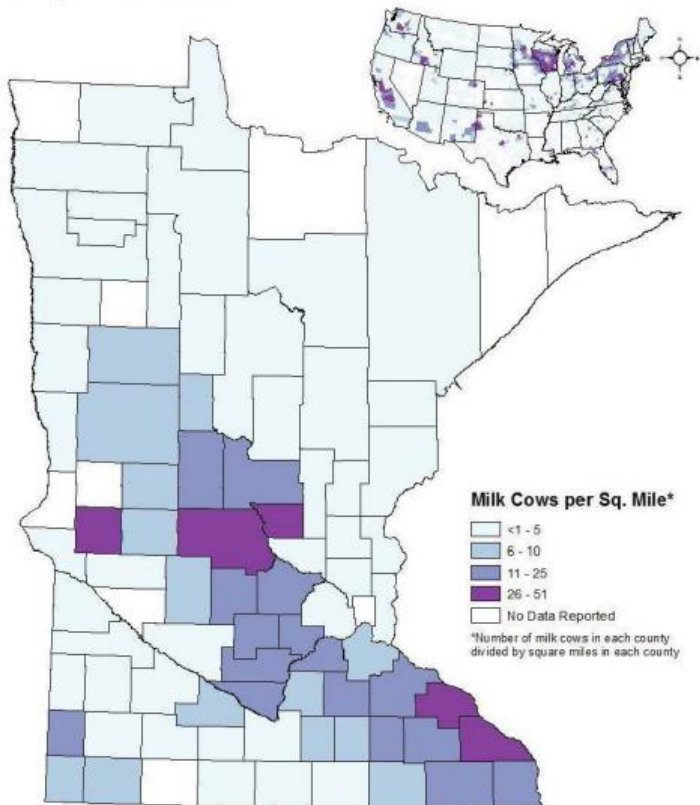
- 1 - 3
- 4 - 5
- 6 - 10
- 11 - 20
- No Data Reported

\*Number of beef cattle in each county divided by square miles in each county

Map produced by: Minnesota Department of Agriculture  
Data Source: U.S. Dept. of Agriculture - 2012 Census of Agriculture



### Dairy Cows in Minnesota Counties



**Milk Cows per Sq. Mile\***

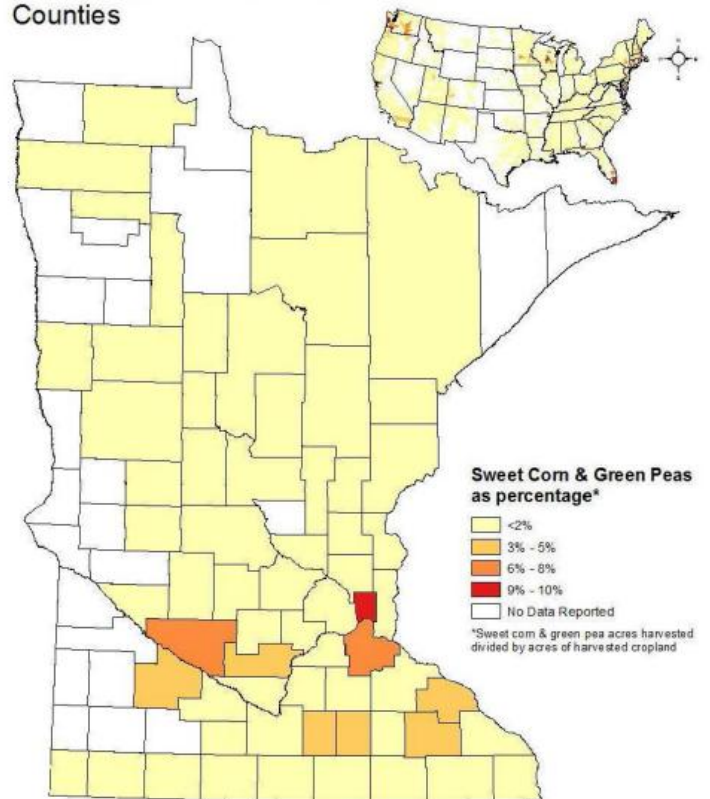
- <1 - 5
- 6 - 10
- 11 - 25
- 26 - 51
- No Data Reported

\*Number of milk cows in each county divided by square miles in each county

Map produced by: Minnesota Department of Agriculture  
Data Source: U.S. Dept. of Agriculture - 2012 Census of Agriculture



### Sweet Corn & Green Peas in Minnesota Counties



**Sweet Corn & Green Peas as percentage\***

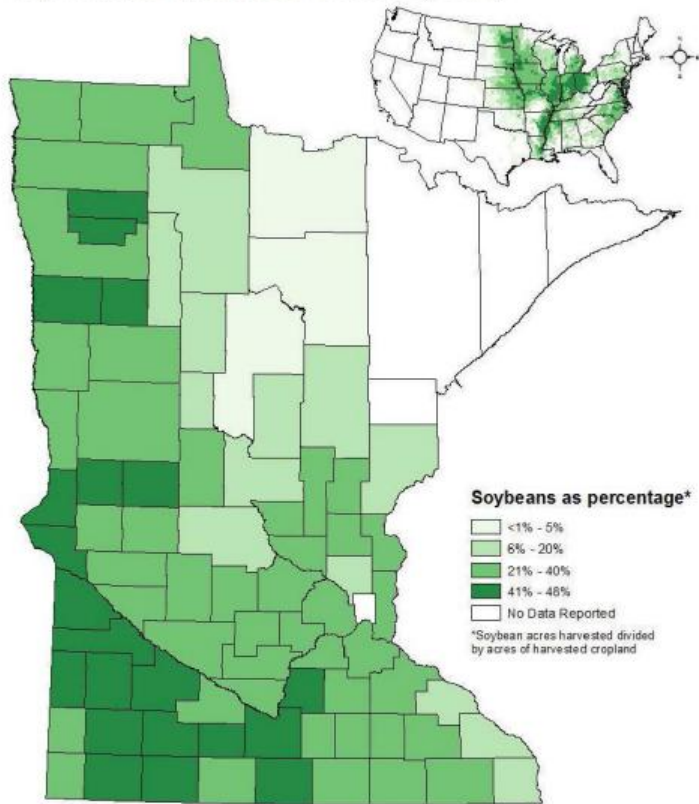
- <2%
- 3% - 5%
- 6% - 8%
- 9% - 10%
- No Data Reported

\*Sweet corn & green pea acres harvested divided by acres of harvested cropland

Map produced by: Minnesota Department of Agriculture  
Data Source: U.S. Dept. of Agriculture - 2012 Census of Agriculture

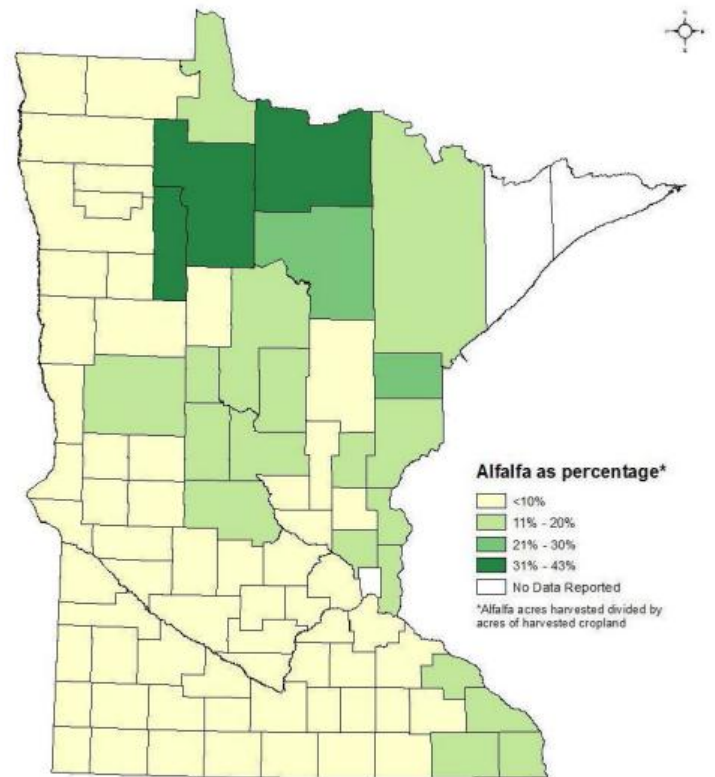


### Soybeans in Minnesota Counties (2012)



Map produced by: Minnesota Department of Agriculture  
Data Source: U.S. Dept. of Agriculture - 2012 Census of Agriculture

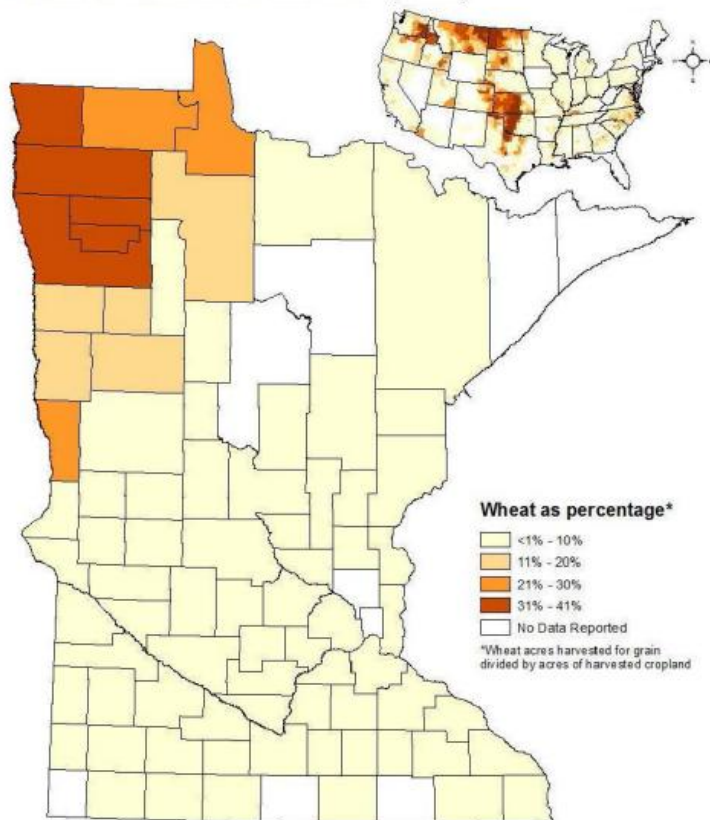
### Alfalfa in Minnesota Counties



Note: Alfalfa is mainly used as feed for horses and cattle, particularly dairy cattle. It is a high-quality hay crop and is the most important perennial forage legume grown in Minnesota. This map represents only land that is planted to alfalfa and cut for hay.

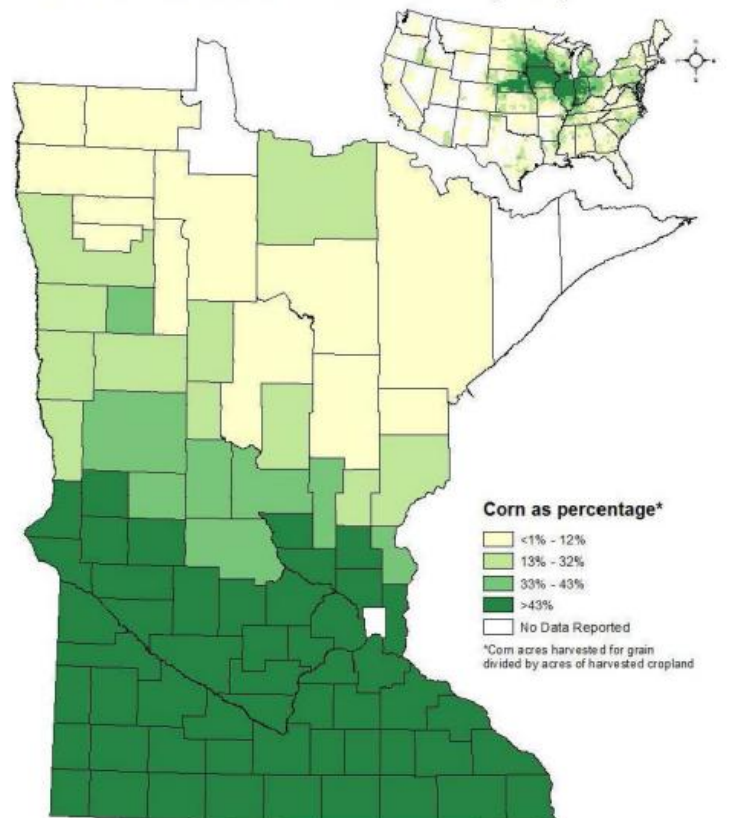
Map produced by: Minnesota Department of Agriculture  
Data Source: U.S. Dept. of Agriculture - 2012 Census of Agriculture

### Wheat in Minnesota Counties (2012)



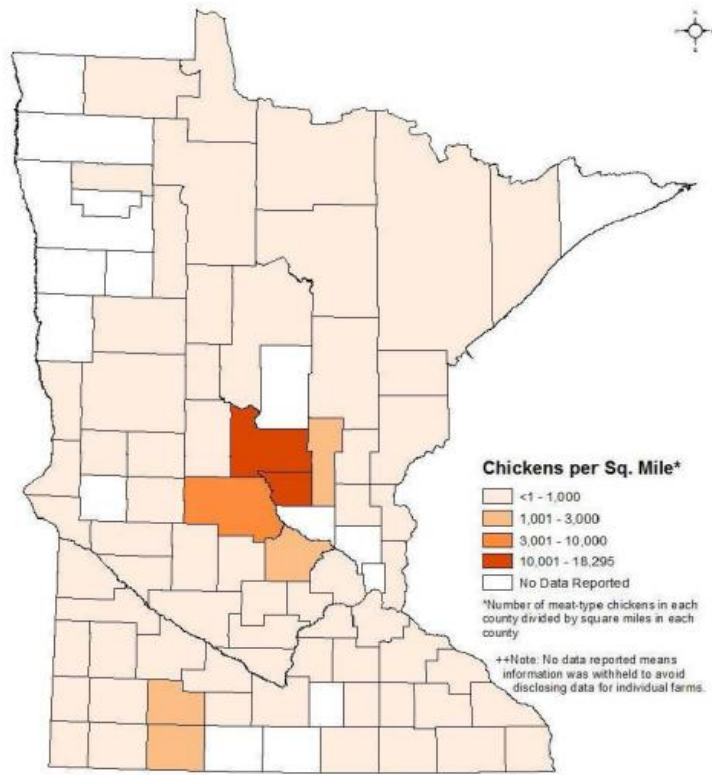
Map produced by: Minnesota Department of Agriculture  
Data Source: U.S. Dept. of Agriculture - 2012 Census of Agriculture

### Corn for Grain in Minnesota Counties (2012)



Map produced by: Minnesota Department of Agriculture  
Data Source: U.S. Dept. of Agriculture - 2012 Census of Agriculture

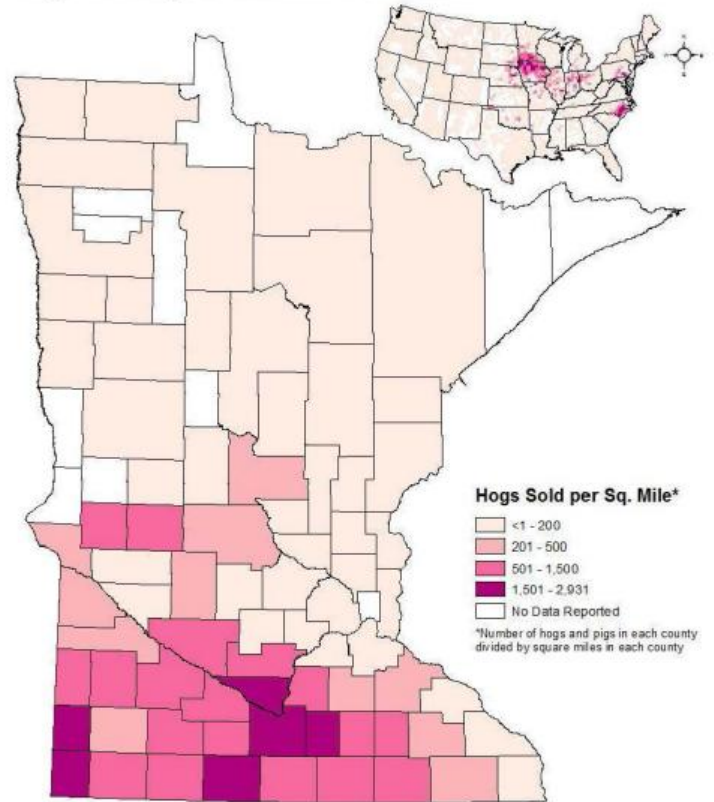
## Meat-Type Chickens in Minnesota Counties



Map produced by: Minnesota Department of Agriculture  
Data Source: U.S. Dept. of Agriculture - 2012 Census of Agriculture

0 25 50 100 Miles

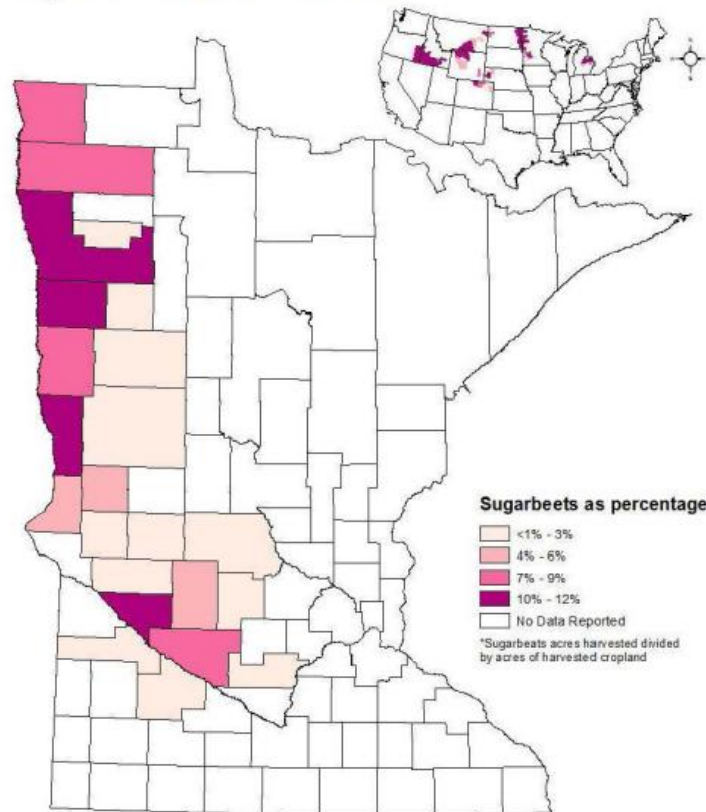
## Hogs and Pigs in Minnesota Counties



Map produced by: Minnesota Department of Agriculture  
Data Source: U.S. Dept. of Agriculture - 2012 Census of Agriculture

0 25 50 100 Miles

## Sugarbeets in Minnesota Counties



Map produced by: Minnesota Department of Agriculture  
Data Source: U.S. Dept. of Agriculture - 2012 Census of Agriculture

0 25 50 100 Miles



**AP Human Geography**  
Modeling Minnesota Agriculture

Name: \_\_\_\_\_  
Section: \_\_\_\_\_  
Score: \_\_\_\_/5

Directions: Using the previous maps make a model of Minnesota's agricultural zones. You don't have to mark every area a particular agriculture practice is, but use your discretion to follow the primary areas or areas where it is a majority.

