Why is Kansas called the “wheat state?” It’s because Kansas farmers usually produce more wheat than farmers in any other state. The top five wheat-producing states are Kansas, North Dakota, Montana, Washington and Oklahoma. Wheat, a member of the grass family of plants, is a cereal grain. That means the plants produce seeds used as food by people. In fact, worldwide, wheat is the most widely consumed cereal grain. Much of that wheat is grown right here in Kansas!

Where can you find wheat?
Wheat is in a variety of products, both edible and nonedible. Which ones do you use most often?

Nutrition Facts
Whole wheat grain contributes many nutrients to your diet, including:
- carbohydrates
- B Vitamins
- protein
- fiber
- iron
- thiamine
- manganese
- selenium
- zinc
- copper
- phosphorous

FUN FACT
All the wheat grown in Kansas in a single year would fit in a train stretching from western Kansas to the Atlantic Ocean.
**Career Corner: Careers in the Wheat Industry**

**Wheat Researcher:** Helps develop technology to speed up the process of creating a wheat plant with characteristics that help it flourish and produce nutritious food. Classes in math, science, chemistry and biology help prepare for this career.

**Miller:** In charge of the system that cleans wheat kernels and processes them into flour. Classes in engineering and math will help prepare for this career, along with developing people management skills.

**Food Safety Specialist:** Preserves the food supply by assuring it is safe and wholesome. Enforces Food and Drug Administration guidelines for food safety in food production facilities.

**FUN FACT**
The cylinders (storage bins or silos) of most grain elevators are 100 to 120 feet tall, about the same height as a 10- or 12-story building.
Wheat plants have this fibrous system. They are numerous, shallow, small and branching. These keep the plant in place and absorb water and nutrients.

A wheat plant’s root system can produce many of these, each of which may develop a seed head at the tip. On a wheat plant, these are also called stalks. After harvest, some farmers will bale these stalks into “straw bales” and use them for animal bedding.

When healthy, these collect water and nutrients. Photosynthesis—how a plant produces its own food—takes place in them.

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Each of these grows six to 12 V-shaped rows. Each row can produce two to three seeds, called kernels.

This is the food source for the embryo, and the source of carbohydrates or energy when consumed. The largest part of the kernel, it is the source of white flour.

This is the embryo or “beginning of” a new plant which sprouts upon germination. It is the only living part of the seed.

These are long stiff extensions that protect the kernels.

These are the “fruit” of the wheat plant which can be planted to grow new wheat plants or used in wheat foods, animal feed and consumer products.

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Word Bank
- Germ
- Endosperm
- Bran
- Awns
- Roots
- Stems
- Leaves
- Seeds
- Head

Kansas farmers produce nearly 20% of the wheat grown in the U.S.

Fun Fact
Christopher Columbus brought the first wheat to the Americas in 1492.

George Washington was one of the first major wheat growers in the U.S. Growing the grain was so important to him that he designed a unique 16-sided barn that helped make separating the wheat kernels from the rest of the plant easier.

On average, Kansas produces about 328 million bushels of wheat. A bushel of wheat weighs 60 pounds. That’s nearly 20 BILLION pounds of wheat EACH year!

There are 12,000 wheat seeds in one pound. How many wheat seeds are Kansas farmers producing every year?

12,000 seeds/pound
20,000,000,000 pounds/year

Kansas farmers grow winter wheat. This type of wheat is planted in September or October and starts growing. The plants go dormant (stop growing) in the winter before starting to grow again the spring. In Kansas, winter wheat is harvested in June or July.

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Learn more about Kansas agriculture at www.ksagclassroom.org or contact the Kansas Foundation for Agriculture in the Classroom at (785) 320-4350.