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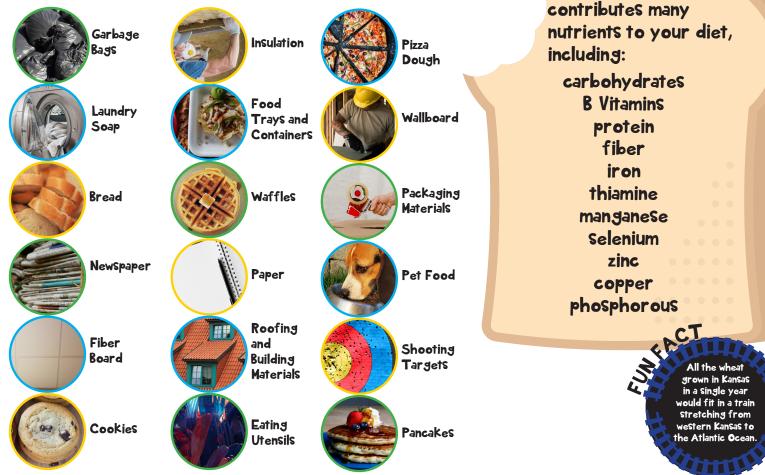
Wonderful Wheat

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! Nutrition Facts

Whole wheat grain

Where can you find wheat?

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



In addition to the main plant and stem, a wheat plant's root system can develop many other side plants. Each of those "tillers" may produce a stem with a seed head but still shares the same root system.

WHEAT

GROWTH

CYCLE

Flowering

Pollination

As a plant's stem grows, nodes (swollen bumps) appear where leaves or branches may develop. Wheat is at the "jointing" stage when the first node can be seen and the seed head begins pushing up the stalk (stem).

Heading

Jointin, y

Wheat is ready to harvest when the seeds are fully developed. At this point, the wheat plants have died and changed into the beautiful golden color. That color change signals that the plant is dry and will be easier to cut.

> Kansas stores more wheat than any other state.

CAREER CORNER: Careers in the Wheat Industry

Seedling

Ripening

Maturity

Seed

Wheat Researcher: Helps develop technology to speed up 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.

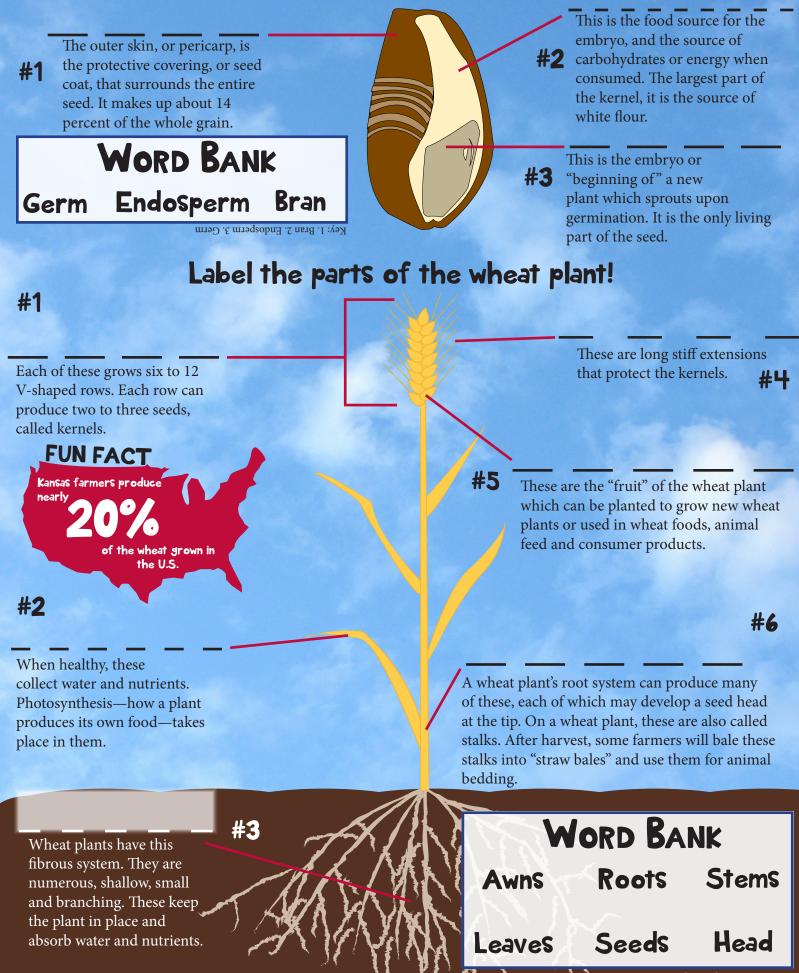
Food Safety Specialist: Preserves the food supply by assuring it is safe and wholesome. Enforces Food and Drug Administration guidelines for food safety in food production facilities.

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.



Label the parts of the wheat Kernel!

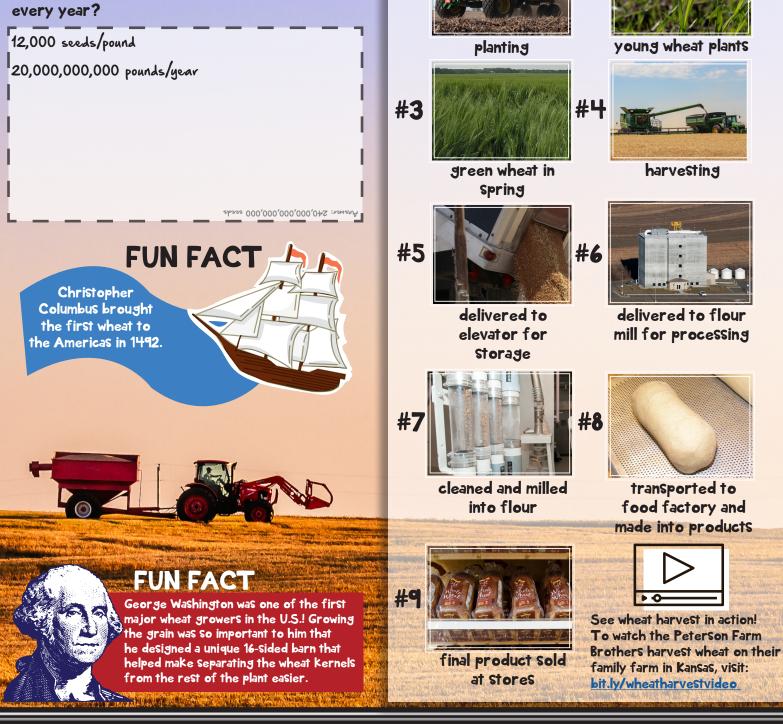


Key: I. Head 2. Leaves 3. Roots 4. Awns 5. Seeds (Kernel) 6. Stems

DO THE MATH

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?



#1



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



FROM FARM TO TABLE

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.

#2