

Pig Basics...

A female is called a gilt. After she has borne a litter she is called a sow. A neutered male is a barrow and the adult male is a boar. The offspring of a male boar and a female sow are called piglets or pigs.

When sows give birth it is called farrowing. After three months, three weeks and three days, or 114 days, a sow gives birth to 8 to 12 piglets called a litter. It isn't unusual for a sow to raise five or more litters in her lifetime. Piglets are born with eight needle sharp teeth which are sometimes clipped to prevent injury to the sow and other piglets. Their curly tails are often shortened to prevent tail biting. Pigs do not have sweat glands so a mist of water must be provided in the hot summer months to keep them cool.

Piglets weigh about three pounds when born and are approximately 11 ½ inches in length. They are weaned from the sow between two and three weeks of age. Swine are sold at market when they are full grown, in just six months and weigh about 275 pounds.

Soybean: Inside Out

80% MEAL The primary component of soybeans is meal.

20% OIL The other soybean component is oil.

68% FOOD

68% of soybean oil is used for frying and baking food, as a vegetable oil and as an ingredient in foods like salad dressings and margarines.

25% BIODIESEL & BIOHEAT® 25% of soybean oil is used for biodiesel and Bioheat.

7% INDUSTRIAL USE Less than 7% of soybean oil is converted into industrial uses like paints, plastics and cleaners.



97% ANIMAL FEED

97% of U.S. soybean meal is used to feed poultry and livestock.



3% FOOD PRODUCTS 3% of soybean oil is used in food products like protein alternatives and soy milk.

PORK FUN FACTS

- The leanest pork choices include pork tenderloin, pork loin, and ham
- Pork is a great source for protein. Protein is an important building block of bones, muscles, cartilage, skin, and blood. In fact, hair and nails are mostly made of protein, plus you need it to make enzymes, hormones, and other body chemicals
- Pork is the most widely eaten meat in the world

SHORT SNOUTS SOYBEAN SPROUTS

Especially for Young Readers

Nebraska Pork Producers Association / www.nepork.org

Nebraska Soybean Board / www.nebrasokaybeans.org

Compliments of the Nebraska Pork Producers Association and the Nebraska Soybean Board

Everything but the OINK!

Did you know that pigs eat soybeans too?

Pigs are raised for meat to help feed people all over the world. Eating soybean meal helps them grow into healthy pigs. In order to use the entire pig, by-products are made or extracted from the remaining almost 25% of the pig. Pigs and Soybeans are both a source of many medications and everyday products we use at home and at school. Rapidly advancing science and technology are continually adding to the list of life supporting and lifesaving products which are derived from the incredible pig and the magic soybean plant.

Look for the 24 by-products in the word search game to the right. You will find by-products from Pigs, from Soybeans, and some products can be made with both. The lists of words can be found in the diagram below.

Answers are listed on the bottom of the back cover.



N	Z	P	D	N	T	W	B	W	E	Y	M	O	L	E
N	O	G	L	N	O	U	J	Z	K	R	A	O	E	S
B	W	I	I	A	T	I	E	A	N	E	R	P	A	E
R	I	A	T	T	S	E	T	G	I	T	G	M	T	V
U	P	O	O	A	R	T	N	O	E	S	A	A	H	L
S	M	N	D	F	L	A	I	C	L	L	R	H	E	A
H	S	S	I	I	E	U	O	C	T	O	I	S	R	V
N	E	T	E	B	E	S	S	R	Z	H	N	O	J	Y
F	N	A	Y	L	M	S	A	N	F	P	E	W	I	N
A	M	O	R	E	D	I	E	E	I	U	J	M	N	T
T	S	K	T	T	Q	N	E	L	C	H	A	L	K	X
E	V	I	S	E	H	D	A	N	I	L	U	S	N	I
W	C	P	A	O	S	N	H	C	J	Q	H	A	E	G
S	K	X	C	R	A	Y	O	N	S	B	E	W	Z	Q
H	J	G	U	F	E	R	T	I	L	I	Z	E	R	I

SOYBEAN PRODUCTS

CANDLES
BIODIESEL
PAINT
SHAMPOO
SOYBEAN OIL
FEED
INK
MARGARINE

BOTH SOYBEAN AND PORK PRODUCTS

CRAYONS
SOAP
COSMETICS
INSULATION
PLASTIC
ADHESIVE
UPHOLSTERY
LOTION

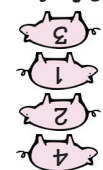
PORK PRODUCTS

CHALK
HEART VALVES
LEATHER
ANTIFREEZE
ART BRUSH
FERTILIZER
BUTTONS
INSULIN



2 x 365 days = 730 gallons per year
2 x 30 days = 60 gallons per month
4 2 x 7 days = 14 gallons per week
3 100 + 900 = 1000 / 60 = 16.66 bushels
2 2600 x 50 x 50 = 6,500,000 beans
1 80 pods x 3 beans = 240 beans

Math and Measurement



How Pigs Grow

Technology and Our Four Seasons

Fig Barn Technology
Heaters
Fans
Sprinklers
Fans
Tractor/planter
Combine
Pivot Irrigation
Farmers maintain equipment

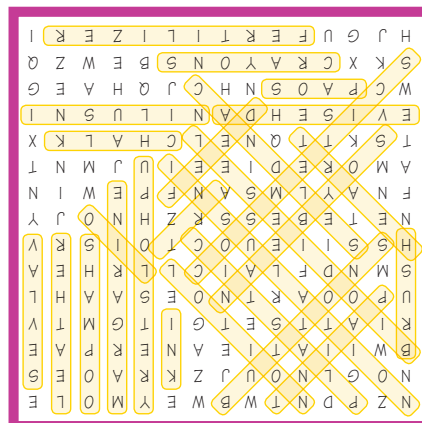
How Soybeans Grow

5 4 1 6 3 2

Winter
Fall
Summer
Spring

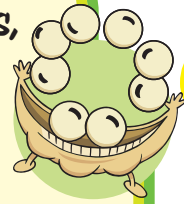
Snouts, Sprouts, Storybook and Scramble

1) spring 2) sunlight 3) water 4) fall 5) combine 6) crushed
7) meal 8) farmer 9) nutrients 10) protein 11) pork chops
12) bacon 13) ham



Soybeans
Nebraska Soybean Board

Snoots, Sprouts, Storybook and Scramble



Unscramble the following words. Each word has been assigned a number. Fill in the blanks in the following story to learn more about your food.

- 1) gipnsr 2) nitguhs! 3) etawr
4) lafl 5) benomic 6) serduhc
7) lema 8) marfer 9) rittnenus
10) neropti 11) korp scoph
12) canob 13) mha

In the (1)....., farmers plant soybean seeds in the ground. The seeds use (2)..... soil, and (3)..... to grow all during the summer. In the (4)....., the soybeans are harvested using a (5)..... which cuts the dry plants near the ground and separates the soybeans from the pods and stems. The farmer takes the soybeans to a processor where the beans will be (6)..... and separated into soybean meal and soybean oil. The soybean (7)..... is sold to the pig (8)....., who will add it to other grains to give the feed (9)..... and a boost of (10)..... This helps the pigs grow strong and healthy. Pigs provide people with great tasting meats like (11)..... and (13).....

TECHNOLOGY AND OUR FOUR SEASONS

Technology plays an important role in agriculture. Farmers use different kinds of technology to help them grow their crops and raise their livestock, like pigs. Draw lines to match the technology with the season when it is used.



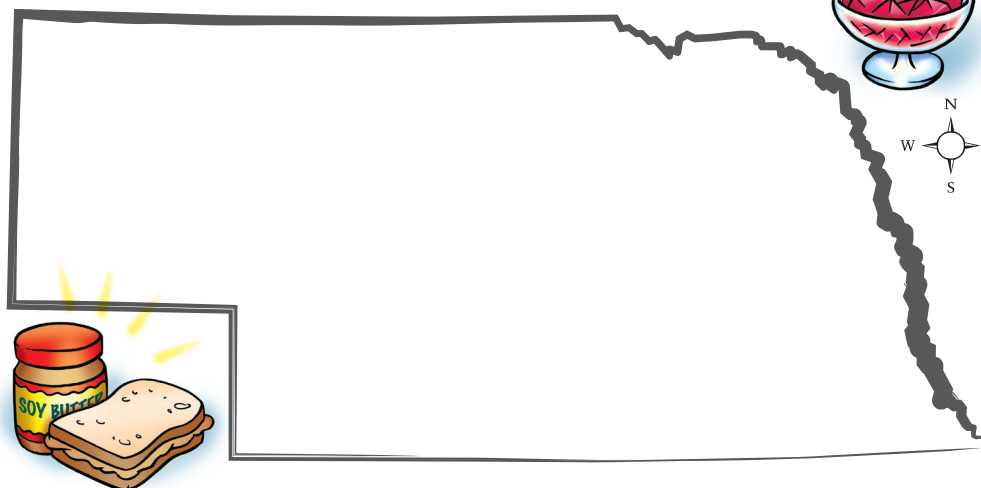
PIG BARN TECHNOLOGY	SEASONS	SOYBEAN TECHNOLOGY
Heaters	Spring	Pivot Irrigation
Fans	Summer	Farmers maintain equipment
Sprinklers	Fall	Tractor/planter
Fans	Winter	Combine

Pig and soybean farmers are busy all year, working to provide you and people all over the world with nutritious food.

Where Do Pigs Live? Where Do Soybeans Grow?

Pigs are raised in every county in Nebraska, totaling over 3 million pigs. Color the map of Nebraska a light shade of pink. Nebraska ranks 6th in the nation for raising pigs.

To find out where soybeans are grown, take a pencil and divide the map of Nebraska in half vertically, cutting it right down the middle. Color the east half of the map yellow. Next, divide the west side of the map in half, but draw your line horizontally. Color the south side of the map yellow. The areas colored yellow shows you where most soybeans are grown in Nebraska. Nebraska ranks 5th in the U.S. in soybean production, harvesting about 255 million bushels each year.



KIDS IN THE KITCHEN

Before You Start to Cook...

1. Ask an adult for help.
2. Read through the recipe.
3. Be sure you have all the ingredients.
4. Wash your hands!

Ham and Cheese Muffins

2 cups flour
1 tablespoon baking powder
1/2 teaspoon salt
1 egg
1/2 cup soybean oil (also named vegetable oil)
8 ounces ham steak, boneless, diced
1 1/2 cups Cheddar cheese, grated

Photo credit:



Be inspired



Heat oven to 400 F.

Lightly grease and flour 12 regular muffin tins. In a large bowl, stir the flour, baking powder and salt together; set aside. Whisk together the egg, buttermilk and soybean oil in a small bowl. Stir in the ham and cheese. Using a rubber spatula, stir the egg mixture into the dry ingredients until combined. **Do not over mix.** Spoon into each of the prepared muffin tins approximately 3/4 full. Bake until golden brown, about 20 minutes. Remove from muffin tin and let cool. (Makes 12)

Nutrition Facts

Calories: 230, Protein: 14 grams, Fat: 12 grams, Sodium: 750 milligrams, Cholesterol: 50 milligrams, Saturated Fat: 4 grams, Carbohydrates: 17 grams, Fiber: 0 grams

HOW SOYBEANS GROW

The bean is the seed of the soybean plant. Soybeans are grown in fields as a crop. In Nebraska, most of the soybeans are used to feed livestock, like pigs. Soybeans are used in many common foods, like soy sauce, vegetable oil, salad dressing and snack foods. Below are photos of the life cycle of the soybean. Number the photos in chronological order.



HOW PIGS GROW

Write the number in the pig to put these events in order from first to last:

- At 6 months, pigs weigh approximately 275 pounds.
- At 4 weeks, pigs weigh 15-20 pounds.
- When they are born, piglets weigh 2-3 pounds.
- At 8 weeks, pigs weigh 40-60 pounds.

Pigs grow fast because they eat a good diet. For a pig to reach 275 pounds, it will eat 900 pounds of corn and other grains, plus 100 pounds of soybean meal.



Math and Measurement

Use your math skills to solve the following problems, while you learn about farming in Nebraska.

- 1) One soybean plant can have up to 80 pods, and each pod has three beans. How many beans can one soybean plant provide?



- 2) If you have 2600 beans per pound and have 50 pounds in a bag, and you're going to get about 50 times the yield of one bag. How many beans are you going to get out of the field when you harvest in the fall?

- 3) An adult pig consumes 100 pounds of soybean meal and 900 pounds of other grains in its lifetime. A bushel is a form of measurement that farmers use to measure their crops. A bushel of soybeans weighs 60 pounds, and a bushel of corn weighs 56 pounds. Using 60 pounds per bushel, approximately, how many bushels of feed does one pig eat in its life?



- 4) Pigs drink approximately two gallons of water each day. How many gallons of water does a pig drink in a week?

A month?

A year?