Simon the Soybean is filling his truck with biodiesel, a product made from Missouri soybeans! Read on to learn more about the many things made from soy. 

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Help the Soybean Grow!

Help the soybean seed sprout, send its shoot up to reach the sunlight, and grow leaves. Learn about soybean growth stages on the sides of the maze!

Soybeans are usually planted about 1 inch under the soil. This shows two soybean “pods”. Each soybean plant has many pods.
Feeding Hungry Animals

Soybean meal is used to make feed for these animals, and many more! Soybeans are high in protein, which is an important part of their nutrition, along with grains.
Filled up and ready to go!
Simon loaded his planter with soybean seed and filled up the tractor with biodiesel from his fuel tanks. Now he’s ready to plant his crop!
Simon’s Biodiesel Crossword

ACROSS
2) Biodiesel naturally breaks down, or biodegrades, as fast as this sweetener.
3) A biodiesel _____ is easy to spot at a gas station. They always have a green handle. (That’s the law in Missouri)
6) Scientists in Missouri and beyond perform _____ to improve and discover new ideas for biodiesel.
8) Missouri produces about 200 million _____ of biodiesel each year.
9) Biodiesel is a type of ____. It makes cars and machines go.
10) When soybeans are processed, the oil is separated from the _____, which can be used in food for people or animals.
12) Like regular _____, biodiesel is sold by the gallon at gas stations across the USA.

DOWN
1) Soybeans grown for biodiesel and other products are measured in _____.
3) Many vehicles can run on biodiesel, including some cars, _____ trucks, semi-trucks, and tractors.
4) Since more biodiesel can be made by growing more soybeans, it’s called a _____ fuel. (Instead of petroleum diesel, which is a limited resource)
5) The main ingredient in Missouri biodiesel is soybean _____.
7) Biodiesel is often mixed with regular diesel. This is called a ____. (“B20” is a popular one)
11) First, soybeans are grown. Next, they are _______. Then, they are processed into feed, biodiesel, and many other things we use every day.

WORDSEARCH ANSWERS:

Crossword answers on page 6.
Soybean helps make many foods!

It’s obvious some foods have soy (like soy sauce), but there are also LOADS of other foods that use soybean oil, soybean meal, or both!

Find and circle the foods made with soybean.

BREADS
CEREAL
CHICKEN NUGGETS
CHOCOLATE
COOKIES
COOKING OIL
HARD CANDY
ICE CREAM
MARGARINE
MAYONNAISE
NOODLES
PANCAKES
SAUSAGE
SOY SAUCE

Wordsearch answers on page 5.

CROSSWORD ANSWERS:

<table>
<thead>
<tr>
<th>Across</th>
<th>Down</th>
</tr>
</thead>
<tbody>
<tr>
<td>2) SUGAR</td>
<td>1) BUSHEL</td>
</tr>
<tr>
<td>3) PUMP</td>
<td>3) PICKUP</td>
</tr>
<tr>
<td>6) RESEARCH</td>
<td>4) RENEWABLE</td>
</tr>
<tr>
<td>8) GALLONS</td>
<td>5) OIL</td>
</tr>
<tr>
<td>9) FUEL</td>
<td>7) BLEND</td>
</tr>
<tr>
<td>10) MEAL</td>
<td>11) HARVESTED</td>
</tr>
<tr>
<td>12) GASOLINE</td>
<td></td>
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</tbody>
</table>
Surprising Soybeans!

We learned a lot of food products are made with soybean. Did you know soybeans are also used in many non-food items, like these?

- Plywood and lumber products
- Artificial turf, used in on sports fields (like football, baseball, soccer)
- Foam used in chair cushions
- Soaps and Shampoo
- Paints, inks, and crayons
- Candles
- Cleaning products
- Adhesives

Brought to you by Missouri soybean farmers and their checkoff.
Thanks for learning about Missouri soybeans with me. I hope you had a fun time!

The soybean industry provides roughly 61,900 jobs, 2,300 of those are in the biodiesel industry.

1 acre of soybeans can be used to make 82,368 crayons.

While some oils leave carbon deposits in engines, lubricants made with high oleic soybean oil have a natural cleaning effect on engines.

Today, one bushel of soybean can be produced with 50% less energy, 50% fewer emissions, 40% less water and 35% less land than in 1980.

Missouri’s soybean businesses produced $3.2 billion in added value to the state’s economy.

Roughly 13% of Missouri farmland is used for growing soybeans.

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