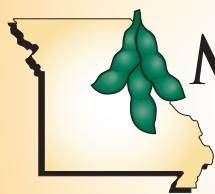


The Missouri Soybean Merchandising Council  
presents

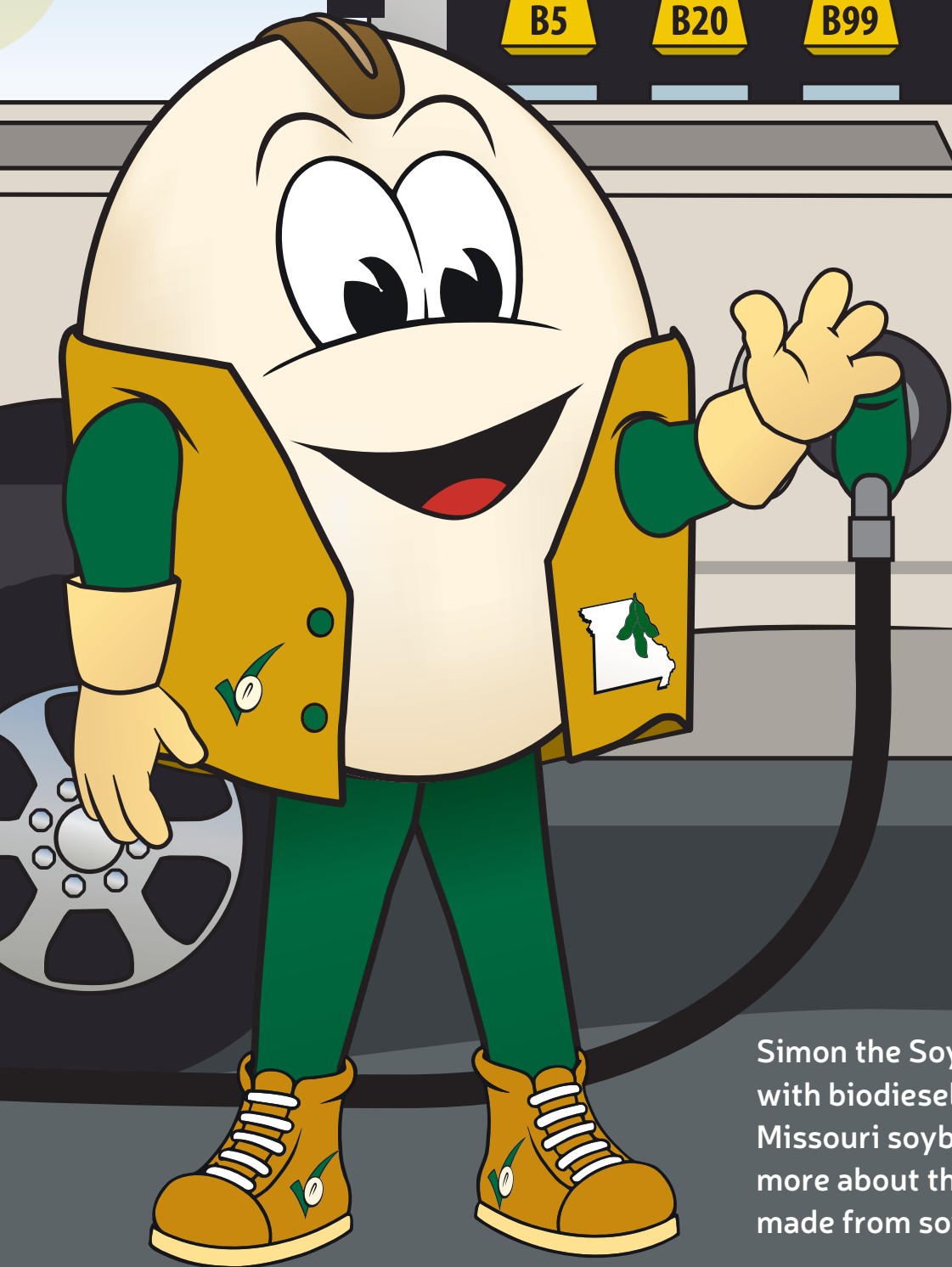




MISSOURI  
SOYBEANS

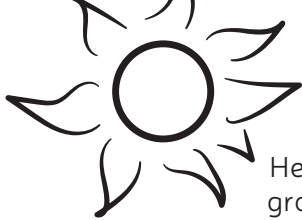
B5

B20

B99



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. **MOSOY.ORG** |  



# 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!

FINISH

Seed



Germination



Sprouting



Leaflets form



Second Leafing



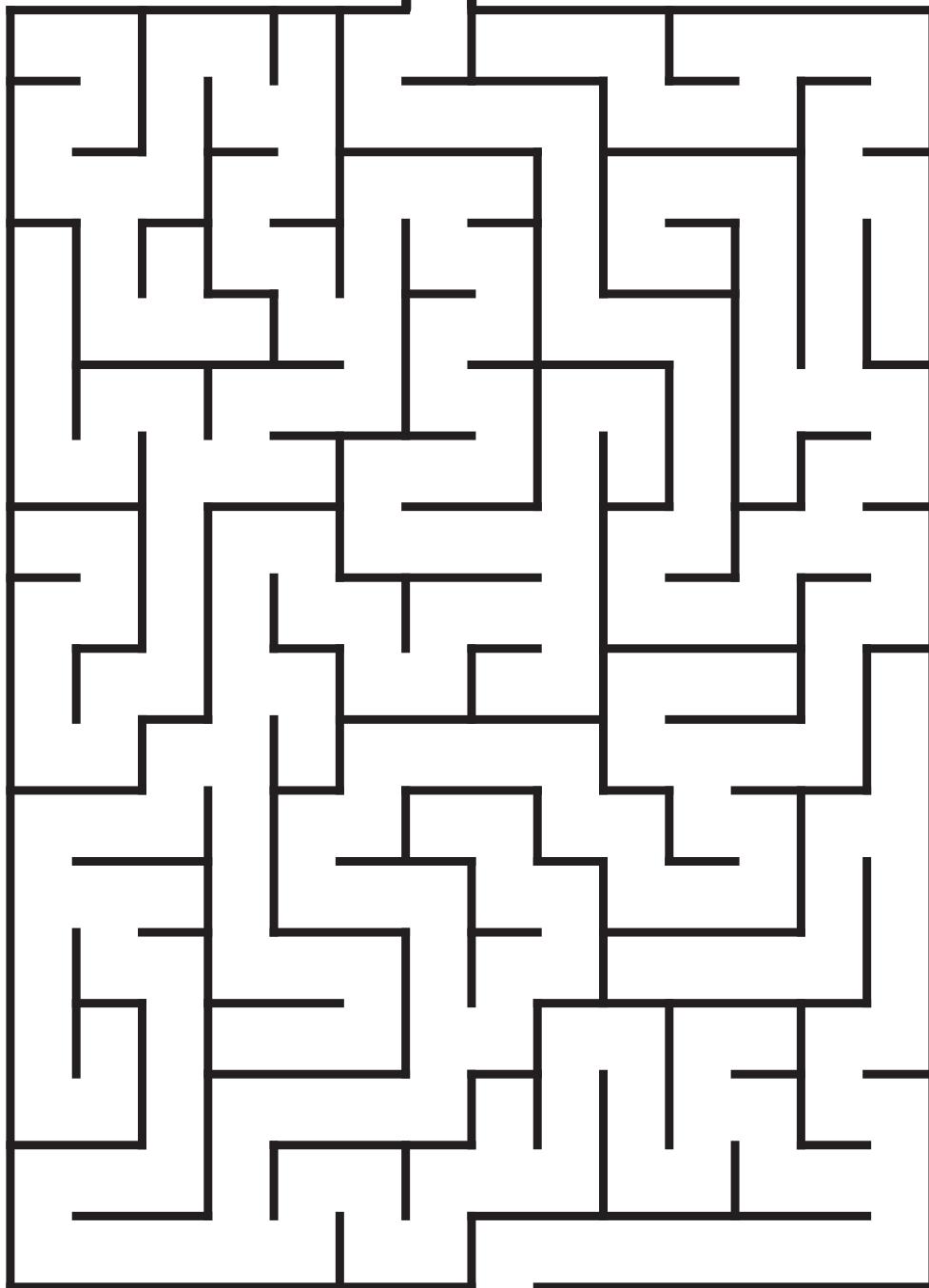
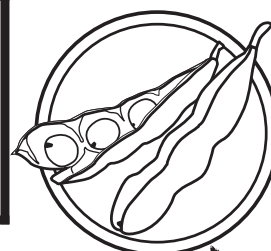
Flowering



Maturity



Harvest



Soybeans are usually planted about 1 inch under the soil.

START



This shows two soybean "pods". Each soybean plant has many pods.



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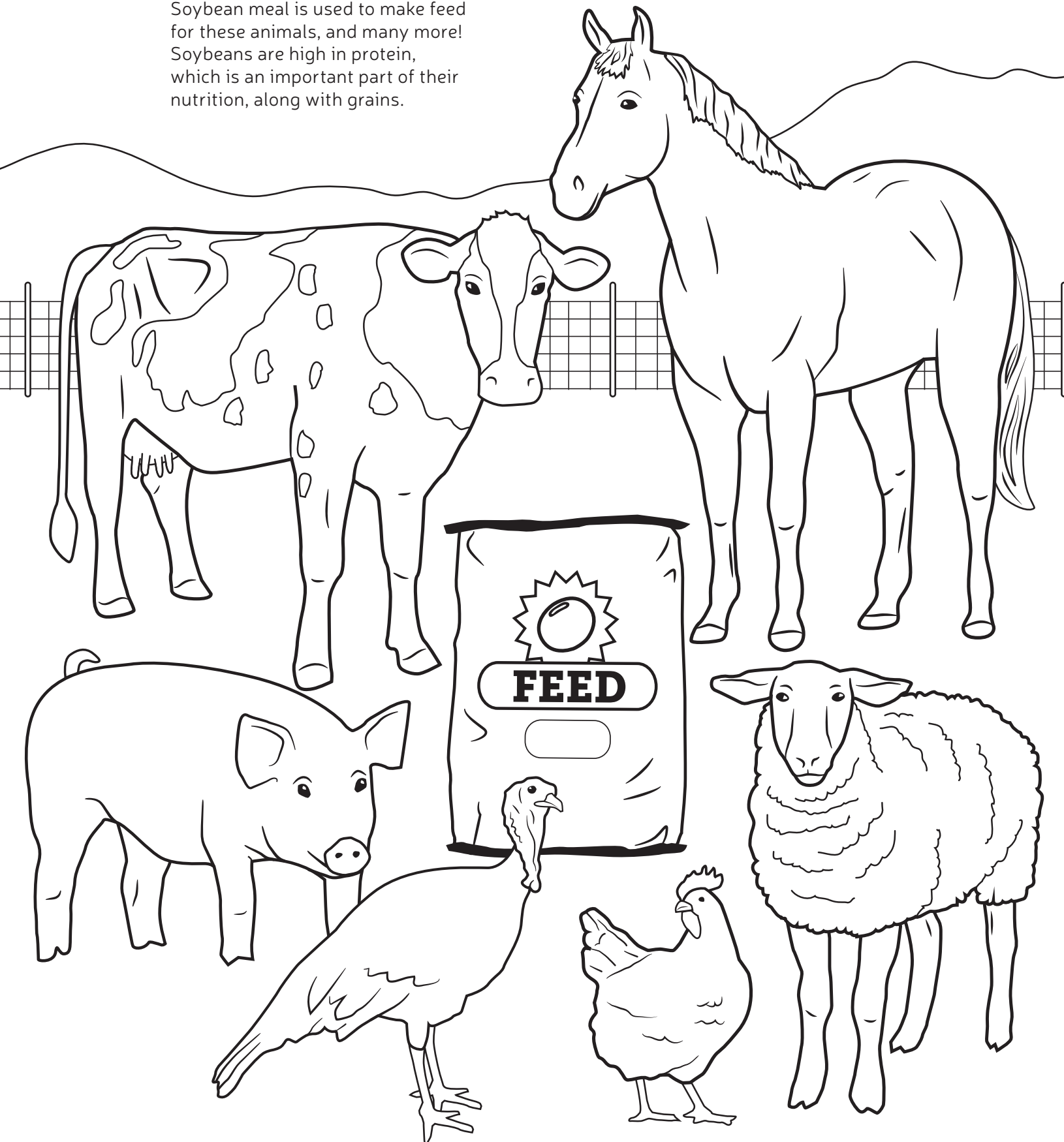


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# Feeding Hungry Animals


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.



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# 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!



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# 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 \_\_\_\_\_.

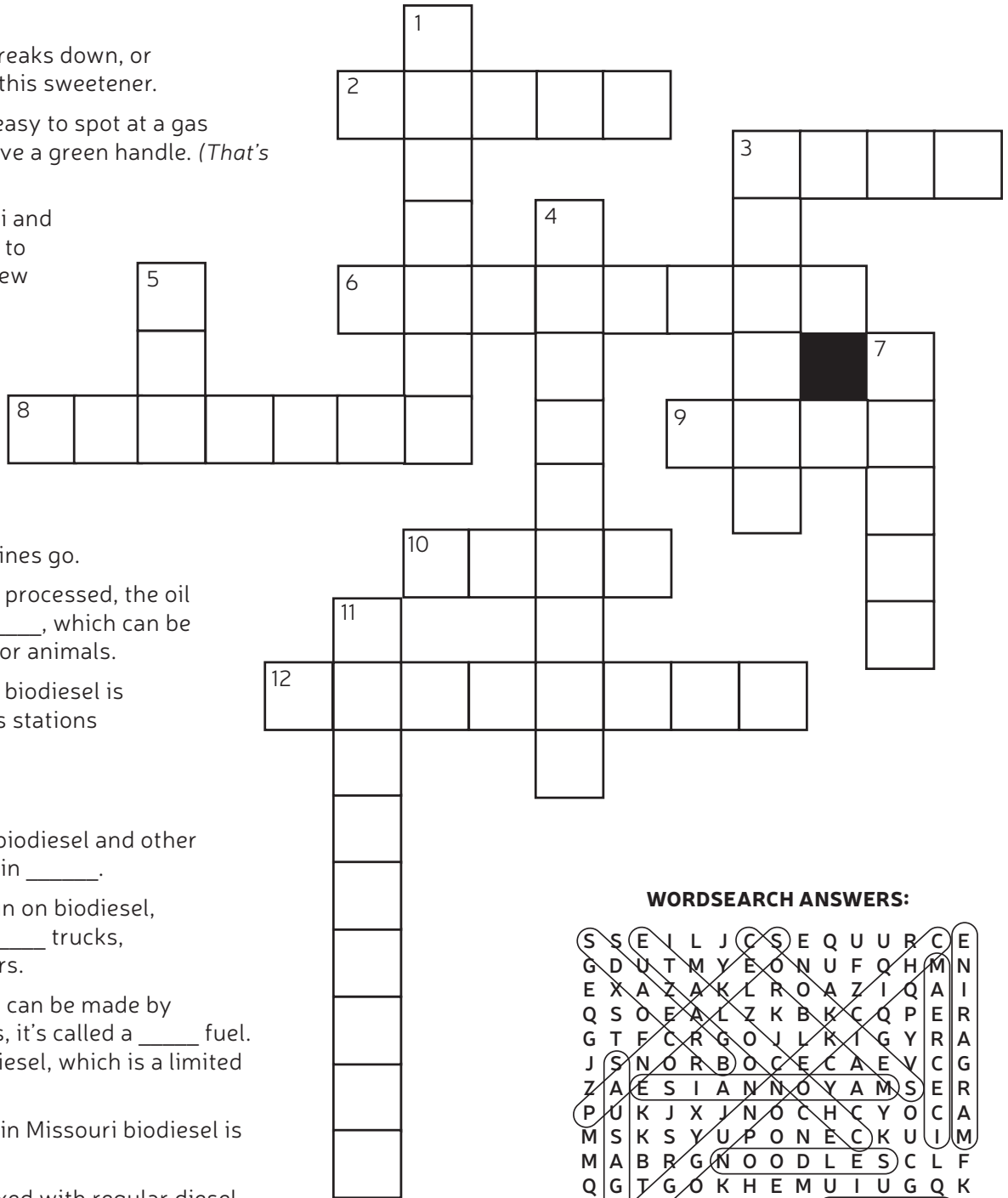
**3)** Many vehicles can run on biodiesel, including some cars, \_\_\_\_\_ trucks, semi-trucks, and tractors.

**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)

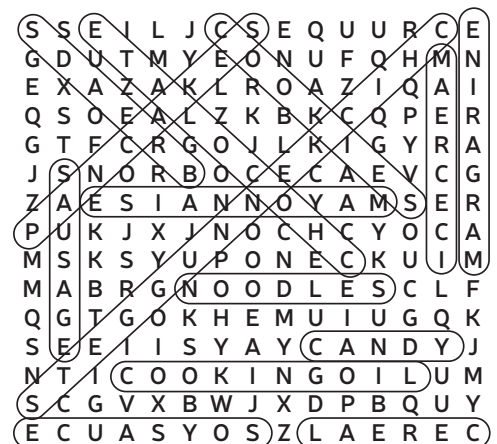
**5)** The main ingredient in Missouri biodiesel is soybean \_\_\_\_\_.

**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.



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# 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

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

Wordsearch answers on page 5.

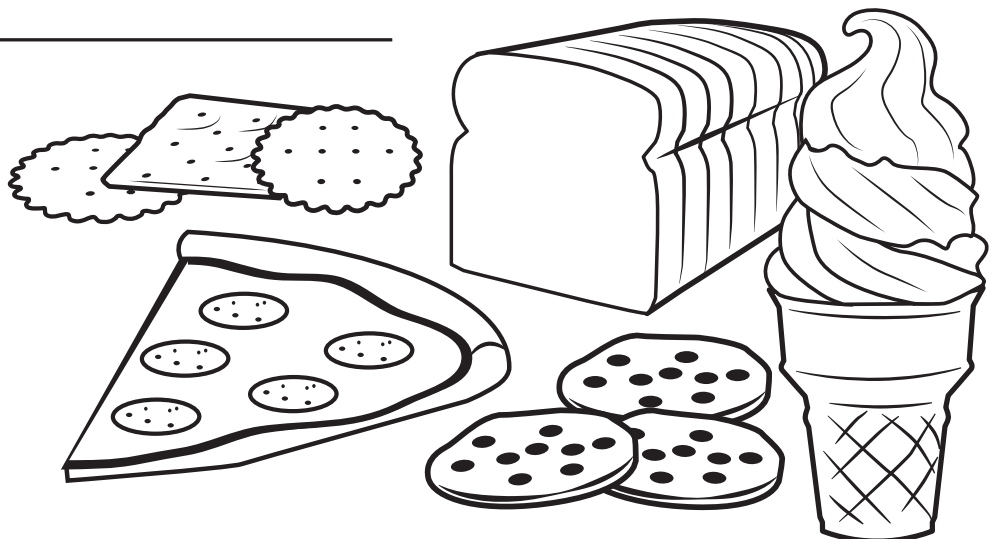
## CROSSWORD ANSWERS:

### Across

- 2) SUGAR
- 3) PUMP
- 6) RESEARCH
- 8) GALLONS
- 9) FUEL
- 10) MEAL
- 12) GASOLINE

### Down

- 1) BUSHEL
- 3) PICKUP
- 4) RENEWABLE
- 5) OIL
- 7) BLEND
- 11) HARVESTED



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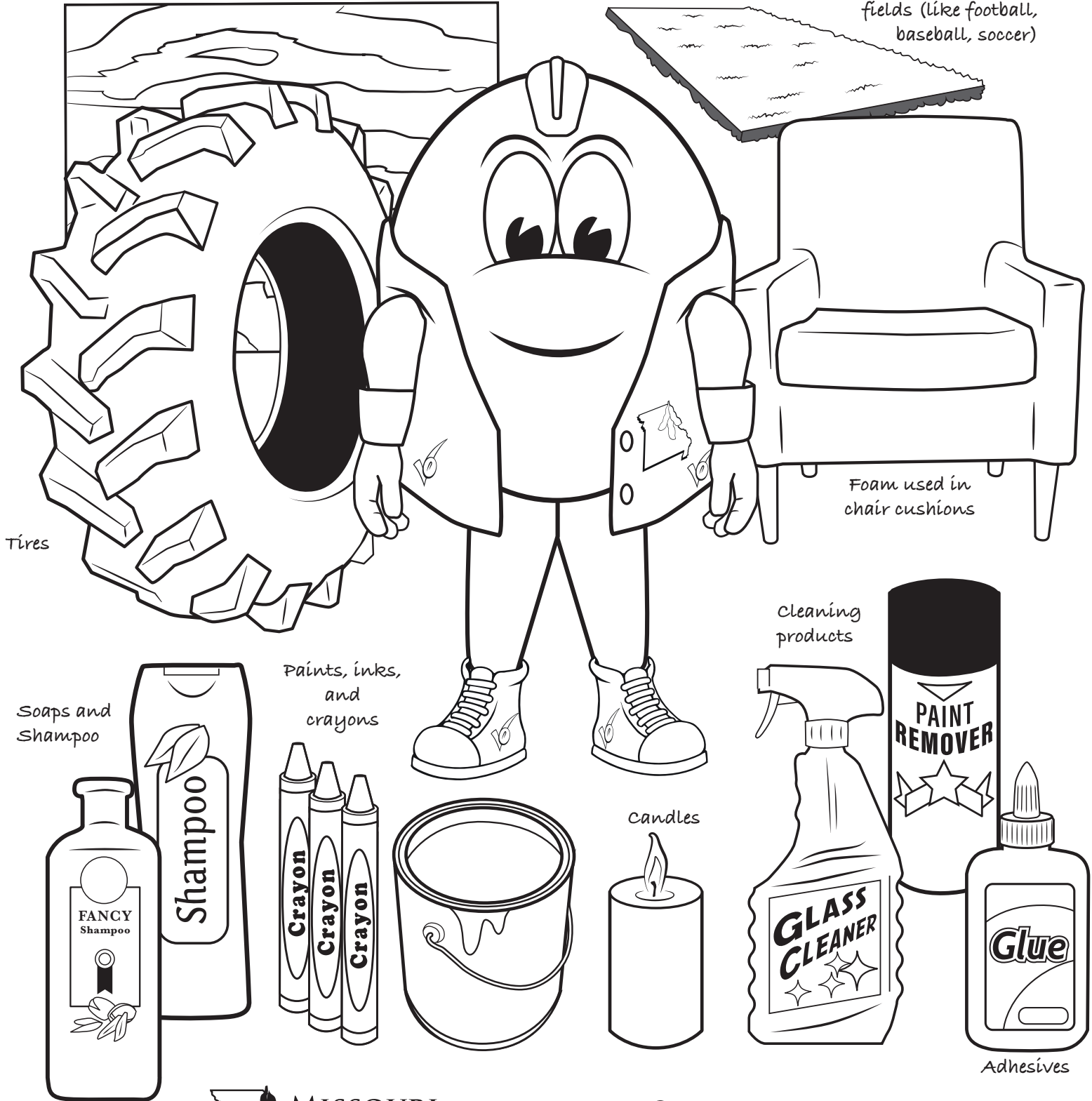


# Surprising Soybeans!

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)



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# MISSOURI SOYBEANS

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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