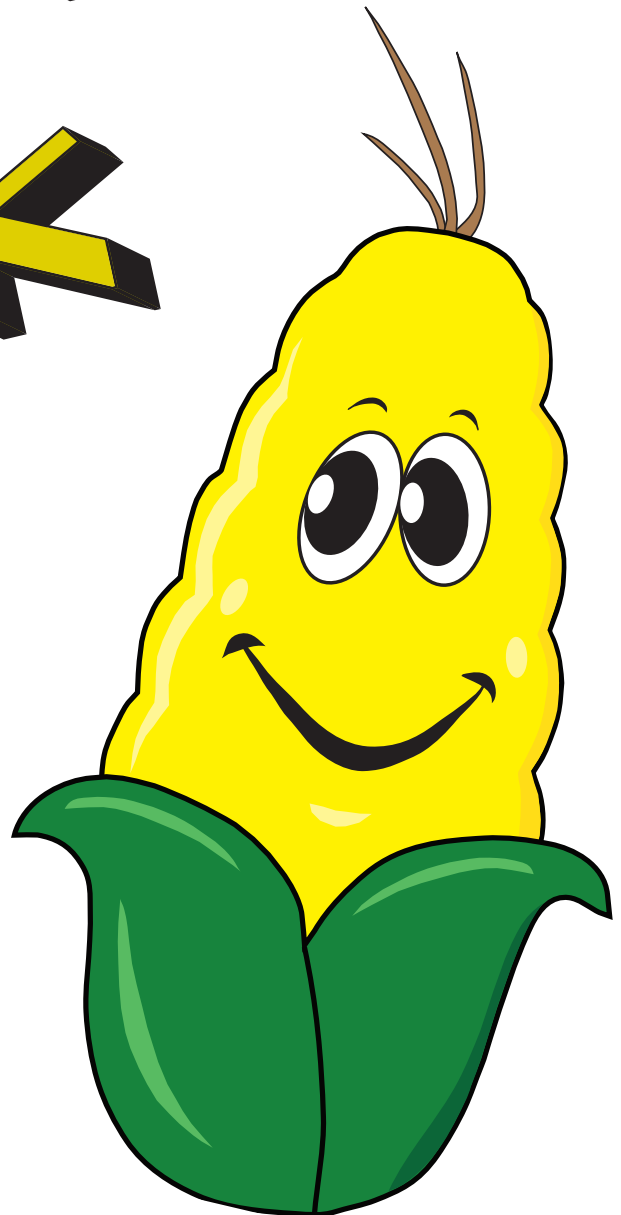


Wisconsin

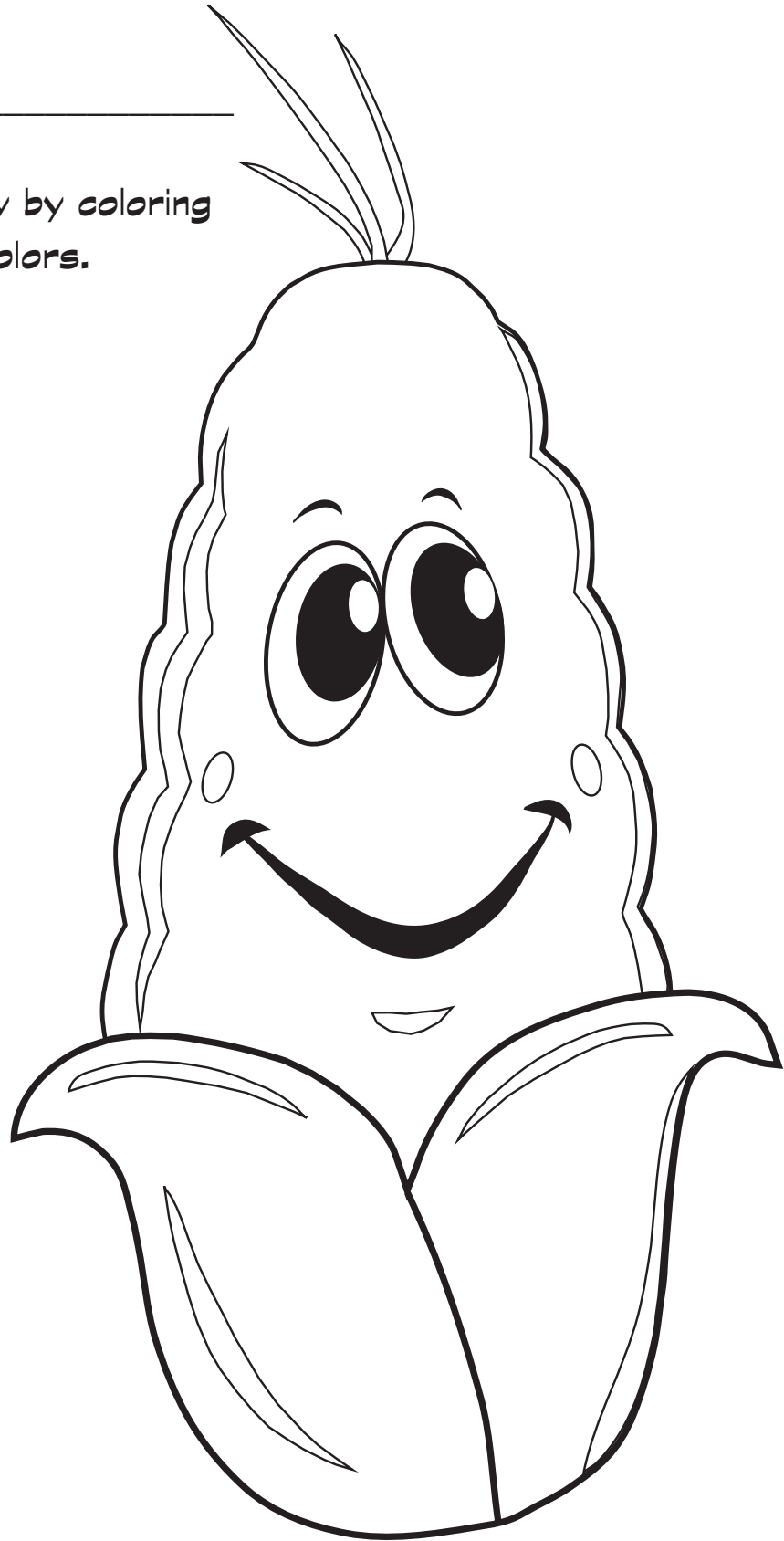
Corn Activity Book



WISCONSIN
CORN
PROMOTION
BOARD, INC.

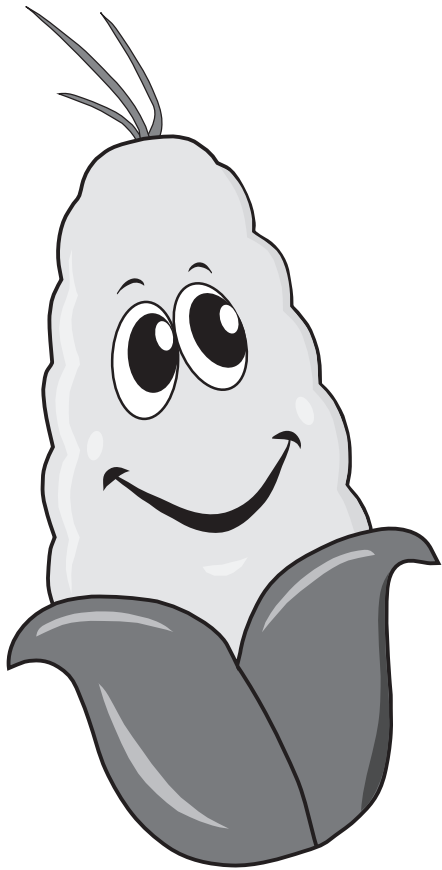
My Name: _____

Customize your Corny by coloring
it with your favorite colors.



Special thanks to Iowa Corn Growers Association, Kentucky Corn Growers Association, Missouri Corn Growers Association and Texas Corn Producers.

Wisconsin Corn Fun Facts



Hi! My name is *Corny*. I know, it's a *corny* name. I'm going to introduce you to the world of Wisconsin corn.

Most of the corn that farmers grow is field corn. They use field corn to feed cows, pigs, chickens and other farm animals.



Wisconsin is ranked as one of the top 10 corn producing states in the nation. Wisconsin is part of the "corn belt."

The corn you eat is called sweet corn, and it sure tastes great. Only 1% of corn grown in the United States is sweet corn.

One ear of corn has about 16 rows and about 800 kernels. The number of rows will always be even.



Why should you never tell a secret near a cornfield?

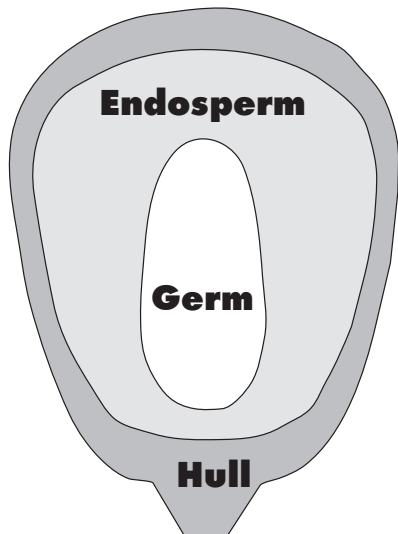
It has too many ears.

All About Corn

Fill in the blanks with:

Stalk, leaf, tassel, silk, ear, prop roots and roots

Parts of the Kernel



Endosperm

Corn meal cereals
cornstarch
jellie
candies

Mixed table syrups

Ice cream

Shoe polished

Infant formulas

Glue

Landry starch

Cosmetics

Hull

Bran

Animal feed

Germ

Soap

Rubber substitute

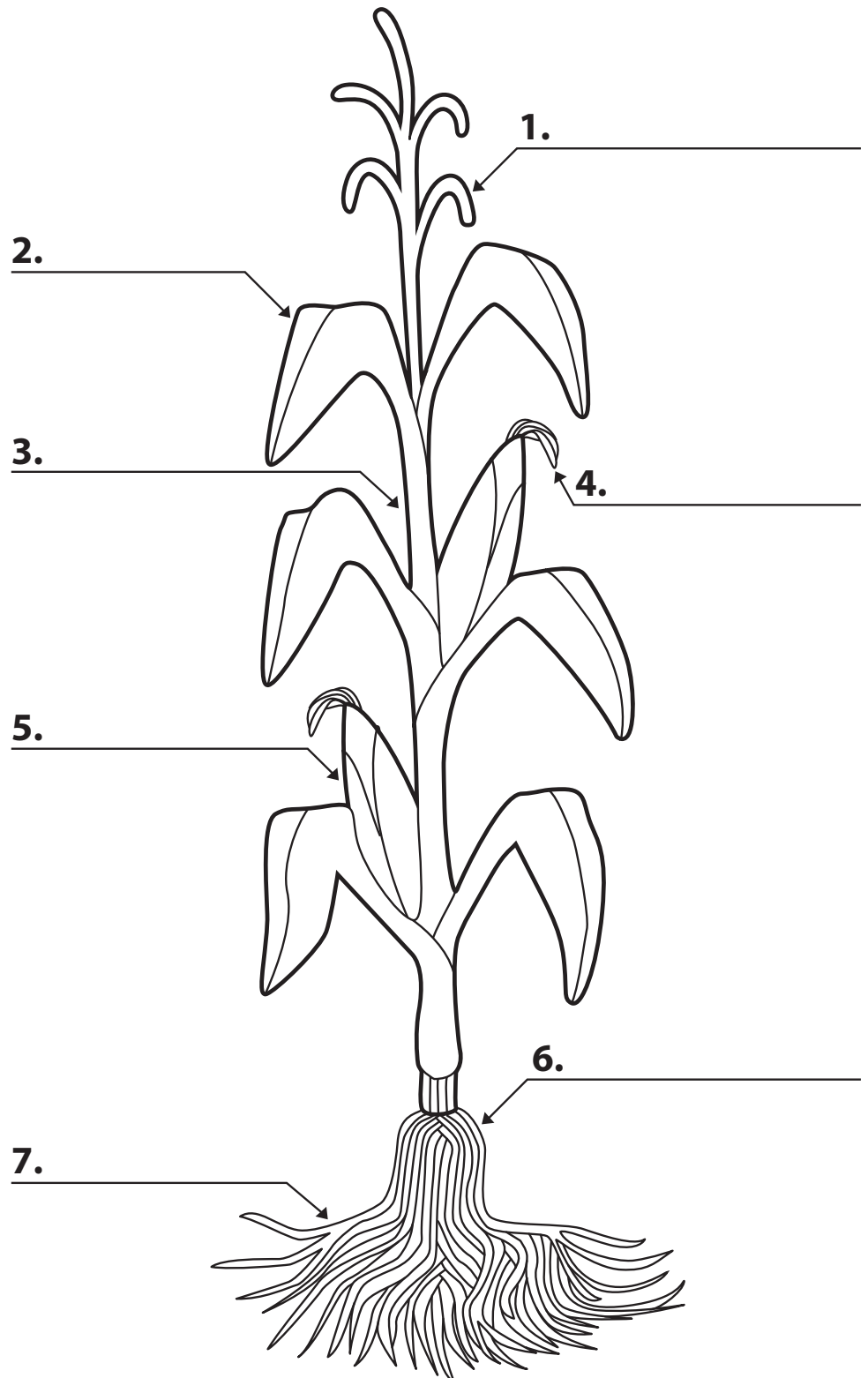
Textile sizing

Cloth coloring

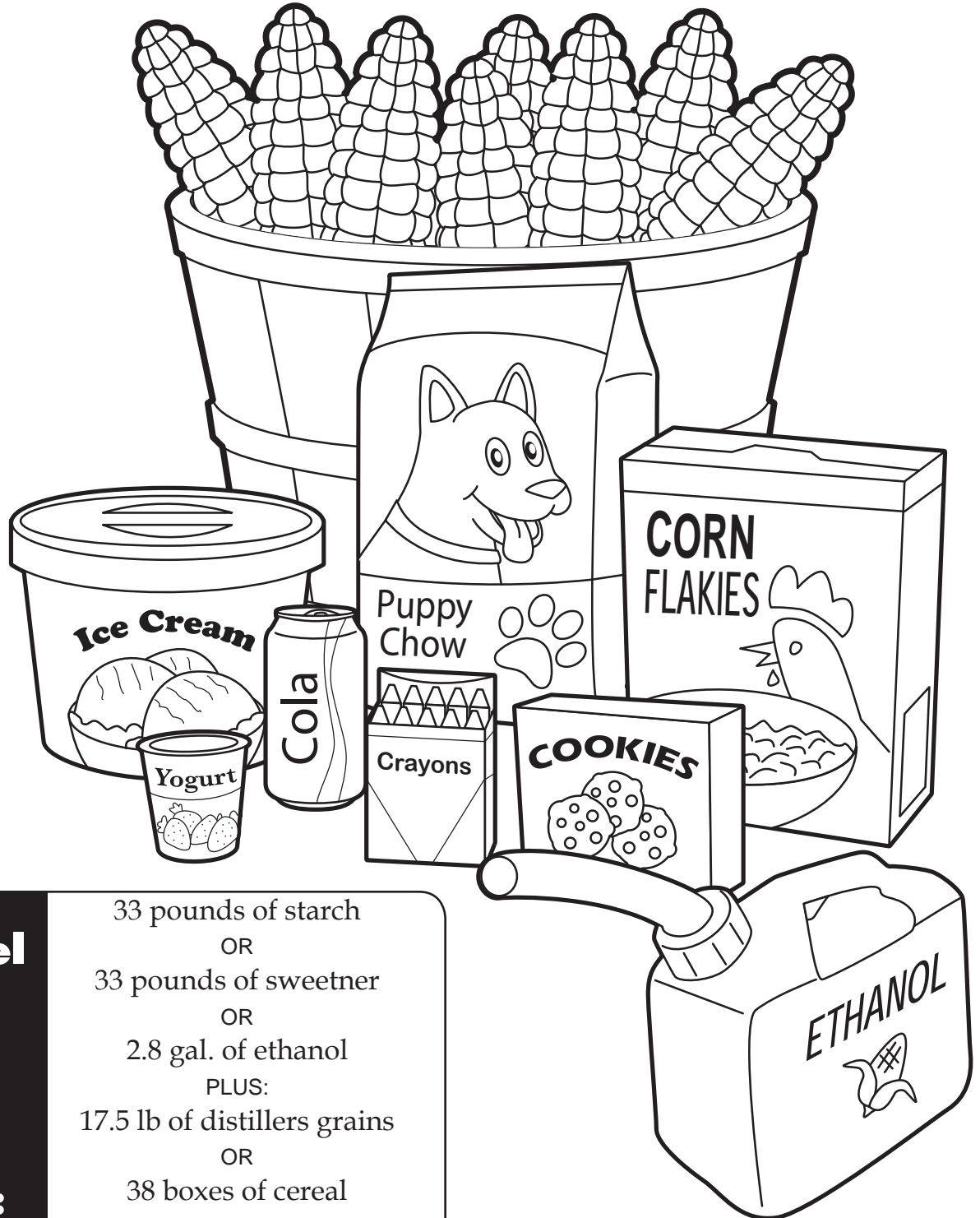
Salad oils

Cooking oils

Medicinal oils



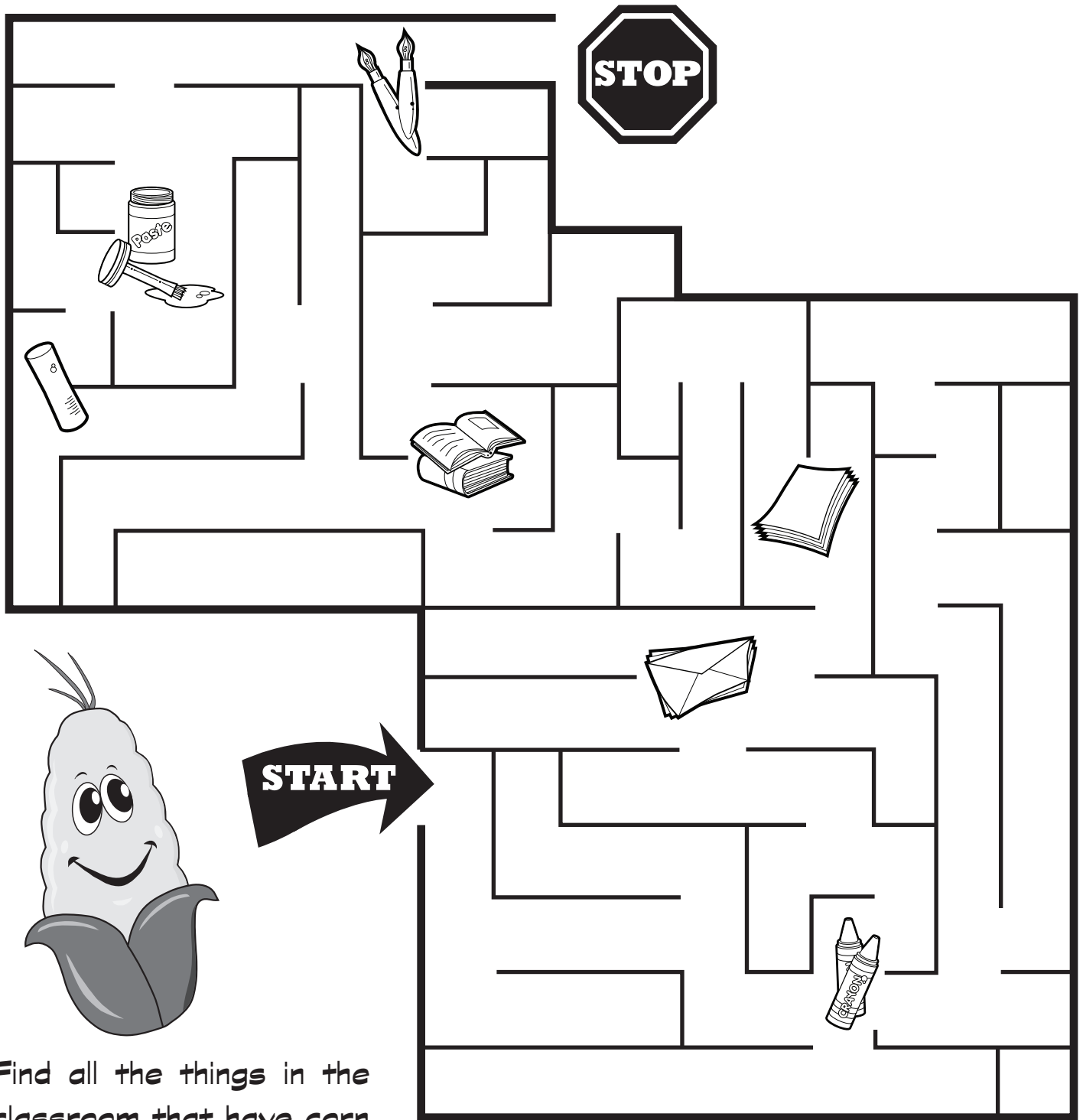
What's In A Bushel?



**One bushel
of corn
(56 lb)
provides:**

33 pounds of starch
OR
33 pounds of sweetener
OR
2.8 gal. of ethanol
PLUS:
17.5 lb of distillers grains
OR
38 boxes of cereal
AND
1.5 lb. of corn oil

Classroom Maze



Find all the things in the classroom that have corn in them. Help me get from **START** to **STOP**.

Uses of Corn

Word Search

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

Many of the items we use daily are made with corn. In the word search puzzle, find the following products that contain corn. They may be found vertically, horizontally or diagonally.

ETHANOL
GUM
PAINT
GLUE
SODA
SOAP
CRAYONS
CEREAL
DIAPERS
KETCHUP

INK
PAPER
PACKING PEANUTS
CORN OIL
MEDICINE
PUDDING
TRASH BAG
COSMETICS
SALAD DRESSING
FIREWORKS

Finding Corn in Your Home

When you go home, become a corn detective. See how many item that contain corn or a corn co-product. Corn is used in many food and non-food products that are a part of our daily lives.

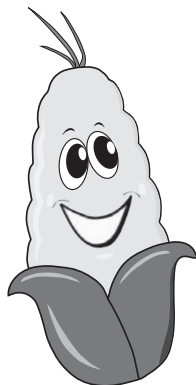
The little kernel of corn can be used in many ways. Over 4,000 everyday products are made using the fiber, protein, oil and starch from the corn kernel.

Did you know the main dry ingredient in most pet food is corn? Corn helps keep our dogs and cats healthy and active.

Oil from the germ of the kernel is low in saturated fat. This low fat products is ideal for health conscious Americans. Starch from each corn kernel provides carbohydrates to our diet. This provides needed energy for growth and activities. Fructose, from cornstarch, is a sweetner similar to refined table sugar.

See how many of these items containing corn you can find in your home.

- | | | |
|------------------------------------|-----------------------------------|--------------------------------------|
| <input type="checkbox"/> Aspirin | <input type="checkbox"/> Juice | <input type="checkbox"/> Snacks |
| <input type="checkbox"/> Baby Food | <input type="checkbox"/> Ketchup | <input type="checkbox"/> Soap |
| <input type="checkbox"/> Candy | <input type="checkbox"/> Lipstick | <input type="checkbox"/> Soft Drinks |
| <input type="checkbox"/> Cereal | <input type="checkbox"/> Lotion | <input type="checkbox"/> Soup |
| <input type="checkbox"/> Cosmetics | <input type="checkbox"/> Medicine | <input type="checkbox"/> Syrups |
| <input type="checkbox"/> Crayons | <input type="checkbox"/> Paint | <input type="checkbox"/> Toothpaste |
| <input type="checkbox"/> Diapers | <input type="checkbox"/> Rubber | <input type="checkbox"/> Tortillas |
| <input type="checkbox"/> Ethanol | | <input type="checkbox"/> Vitamins |
| <input type="checkbox"/> Fireworks | | <input type="checkbox"/> Yogurt |
| <input type="checkbox"/> Glue | | |
| <input type="checkbox"/> Ice Cream | | |
| <input type="checkbox"/> Ink | | |
| <input type="checkbox"/> Jelly | | |



Y
Z
O
O
M
K
O
C

Why did the corn get mad at the farmer?

Because he kept pulling its ears

Make Fun Stuff from Corn

Make Biodegradable Corn Plastic

1. Place a tablespoon of cornstarch in a paper cup or plastic bag.
2. Add two drops of corn oil to the cornstarch.
3. Add a tablespoon of water to the oil and cornstarch.
4. Stir the mixture.
5. Add two drops of your favorite food coloring to the mixture and stir well.

Scientific Observations...

1. What do you notice about your biodegradable plastic?
2. Is your biodegradable plastic the same as other students' plastic?
3. What could you make with this biodegradable plastic if you let it harden?

Microwave your biodegradable plastic for 20-25 seconds on high.

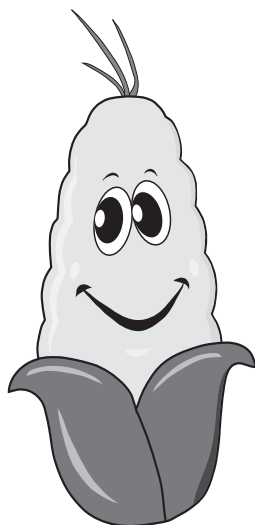
1. What happens to your plastic?
2. Form your plastic into a ball and describe what you see.

Make Corn Putty

Play with it like clay, then watch it become liquid again.

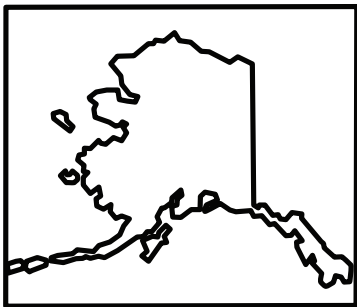
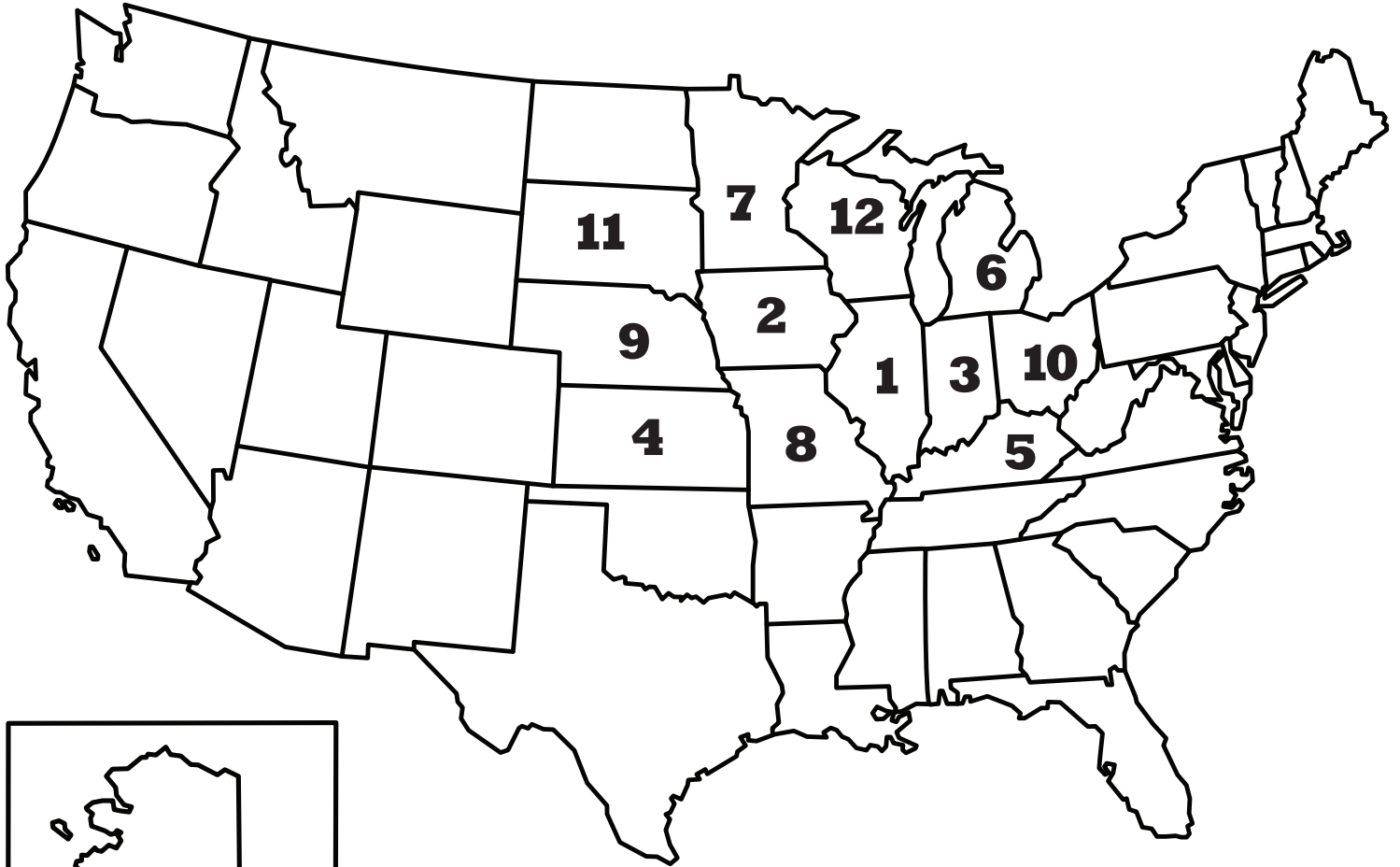
- 1 cup cornstarch
- 1/4 cup + 1 tablespoon water
- Food coloring

Blend mixture with fork. It should flow when the bowl is tipped and feel solid when you touch it. If it's too thick, add a little water. If it's too runny, add a little cornstarch.



Make sure you have a parent or teacher give you a hand.

Where is Corn Grown in the U.S.?



Twelve states produce the majority of the country's corn and make up a region known as the "Corn Belt." On the lines provided, identify each state in the Corn Belt, labeled with the matching number on the map.

- | | |
|----------|-----------|
| 1. _____ | 7. _____ |
| 2. _____ | 8. _____ |
| 3. _____ | 9. _____ |
| 4. _____ | 10. _____ |
| 5. _____ | 11. _____ |
| 6. _____ | 12. _____ |

Where is Corn Grown in WI?

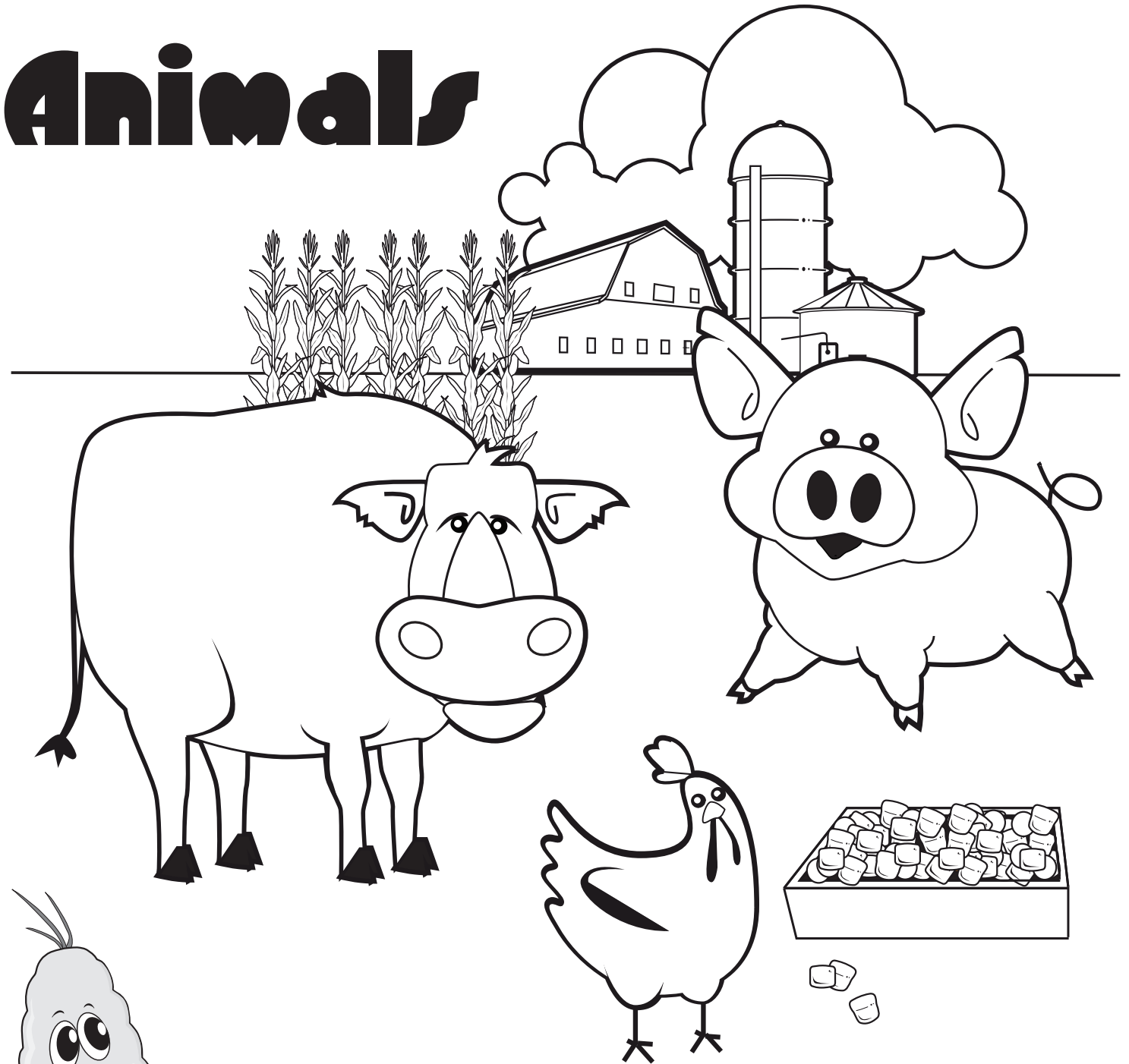


Corn is grown in just about every county in Wisconsin. Dane, Grant, Rock, Lafayette and Columbia Counties are the top five corn growing counties in Wisconsin. Can you find them?

Can you name all 72 counties?
In what county do you live?



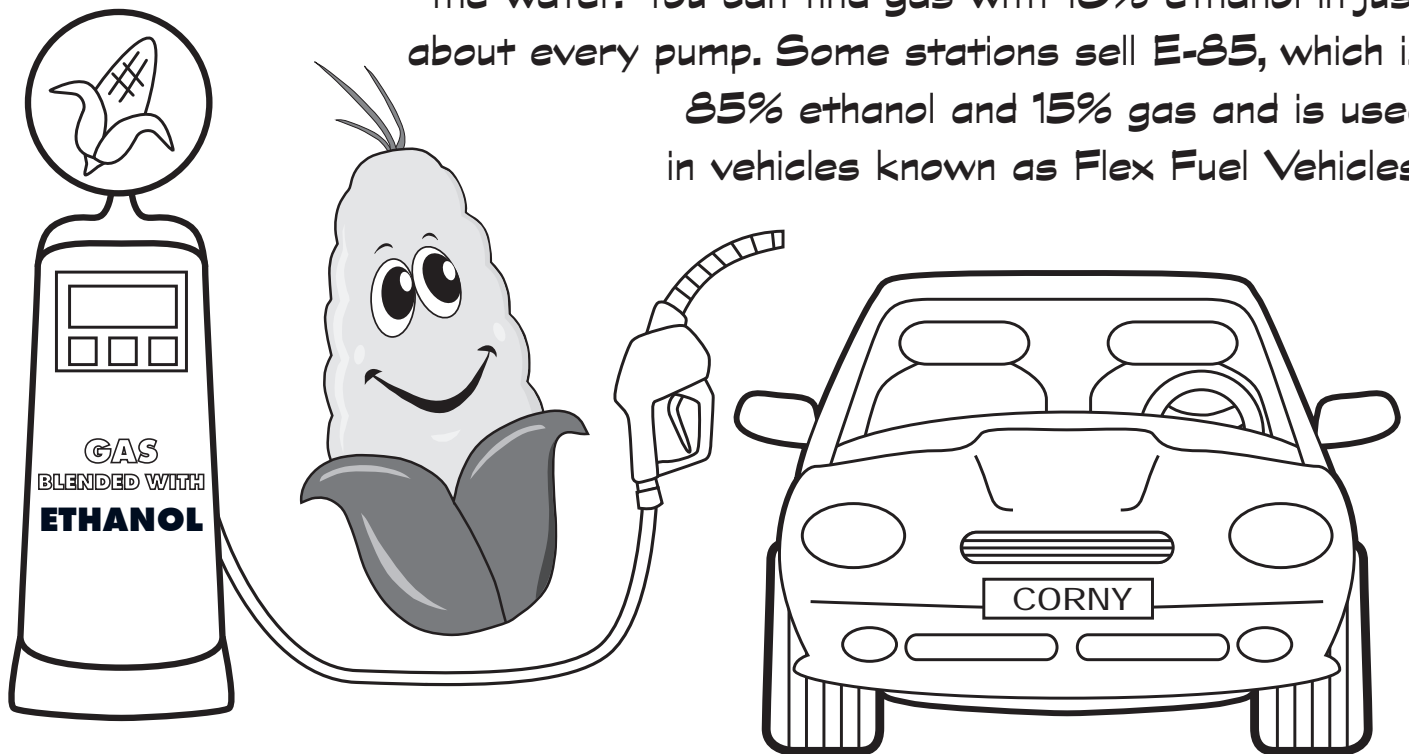
Corn: Feed for Animals



The main use of corn is for animal feed, like beef and dairy cows, pigs, chickens and turkeys. Corn provides livestock important protein, carbohydrates and nutrients to grow. Some animals enjoy eating distillers grains that are produced with ethanol made from corn.

Ethanol: Clean & Renewable Fuel

Corn is used to make ethanol. Ethanol makes gasoline burn cleaner, reducing air pollution, and doesn't pollute the water. You can find gas with 10% ethanol in just about every pump. Some stations sell E-85, which is 85% ethanol and 15% gas and is used in vehicles known as Flex Fuel Vehicles.



Ethanol is a renewable fuel because a new corn crop is grown every year. Wisconsin has nine ethanol plants producing more than 500 million gallons of ethanol a year.

Unscramble these to make words found on this page:

tonleha

eful

linesago

tionllpou

wrenebeal

norcy

terwa

hicveles

lcean

Corn Math

Answer the questions below. Show your work.

1. If the average corn plant has one ear of corn, how many ears would there be in a field of 400 plants?

4. If the farmer harvests 350 acres of corn and sells 25% to the local ethanol plant, how many acres are left for feeding animals?

2. If each ear of corn has 576 kernels, how many kernels would be in the field from Question #1?

5. If the farmer's average yield per acre is 152 bushels in 2014 and there is a drought in 2015 that reduces production by 20%, what will the average yield be in 2015?

3. If one cow eats 25 lbs of corn each day, and one pig eats 4 lbs of corn each day, how many pounds of corn would the farmer need to grow to feed 65 cows and 250 pigs?

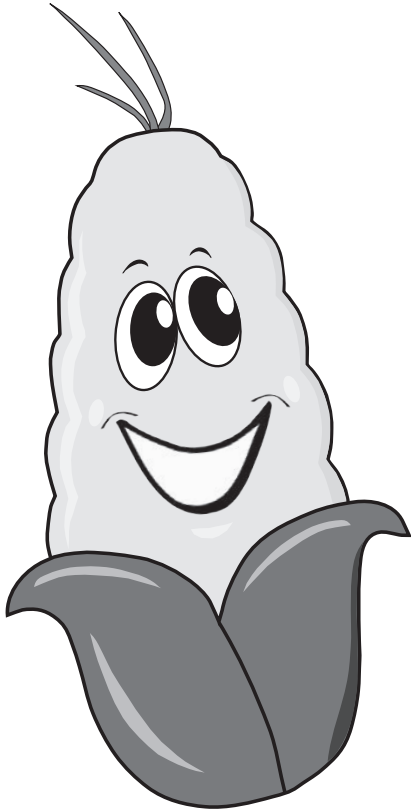
6. If each ear of corn has 576 kernels, how many kernels would be in the field from Question #1?

Y Z P O O
M X O L

Why should you never tell a secret near a cornfield?

It has too many ears.

Other Corn Facts



MORE CORNY JOKES

What is worse than finding a worm in you corn?

Finding only half a worm.

Baby Corn: Where did I come from?

Mama Corn: I told you the before. The stalk brought you.

What does Corny call his silly friends?

Corn Flakes.

1 Bushel = 56 pounds

1 Bushel = 85 ears of corn

1 Bushel = 72,800 kernels

1 ear of corn = 860 kernels

1 lb. corn = 1,300 kernels

1 acre has 13,500 ears

Corn can be traced back 7,000 years

The corn we know today would not exist if it were not for the Mayan, Aztec and Inca Indians of North and South America who developed "maize" from a wild grass and cultivated it. It is a human invention that does not exist in the wild and can only survive if planted and protected by humans.

Corn growers use modern technology

Growers do soil tests to determine the proper fertilization of the soil. Hybrid seeds are made by crossing two or more corn plants to increase yields. Genetic technology is used to make corn resistant to bugs. Computers in combines are used to tell a farmer the yield and moisture of corn during harvest.

How corn helps itself grow

The tassel develops on the top of the corn plant. It has hundreds of small flowers that produce pollen. There are rows of kernels that make up the corncob; each has a silk-like thread that runs from the kernel out through the end of the husk. During pollination, each silk needs to be pollinated in order to produce a kernel of corn.

Answer Key