

# Modern Marvels Quiz – Corn

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Agricultural Education Program  
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Name \_\_\_\_\_

## **Modern Marvels Film Quiz**

### **Corn**

The acreage of corn planted each year is the size of the state of \_\_\_\_\_

#### Sweet Corn

How much corn is processed in one hour at the sweet corn plant? \_\_\_\_\_ tons

How are the kernels removed from the cob? \_\_\_\_\_

What are the cobs and leaves used for once removed from the corn? \_\_\_\_\_

Corn in the can has a shelf life of \_\_\_\_\_ years?

Total time it takes the corn from arriving at the plant until canned and shipped? \_\_\_\_\_ min

Sweet corn represents less than \_\_\_\_\_% of all corn grown in US.

#### Field Corn

Field corn is also known as \_\_\_\_\_ corn

\_\_\_\_\_ lbs corn are grown for each person on the planet (6.6 billion people)

US produces \_\_\_\_\_% of world's corn

\_\_\_\_\_ people are fed by one US farmer

More than \_\_\_\_\_% of field corn is for animal feed

#### Popcorn

Popcorn stores \_\_\_\_\_ in tiny pockets inside starch

Popcorn is less than \_\_\_\_\_% of the US corn production

\_\_\_\_\_ consists of IL, IN, OH, IA; 50% of US corn supply

#### Uses of Corn

Over \_\_\_\_\_ nonfood items, from adhesives to explosives

Nature Works company in NE, converts corn into \_\_\_\_\_

Once composted, corn plastic can break down in \_\_\_\_\_ days

All corn has been \_\_\_\_\_ meaning it can't exist without human intervention

### Corn Genetics

Seed corn is a \_\_\_\_\_, resulting from two inbred plants

Heterosis in plant breeding refers to \_\_\_\_\_

Why do growers have to go back to buy seed corn from companies each year?

\_\_\_\_\_

The first corn plant originated from the \_\_\_\_\_ plant

Genetically modified corn has special \_\_\_\_\_ (traits) from another species to help do something very specific

Bt corn contains a bacteria protein that inhibits damage from \_\_\_\_\_ insect.

DNA from one plant or animal is \_\_\_\_\_ into the embryo of another

A genetically modified seed must be grown in \_\_\_\_\_

Why is corn grown in the Merengo Warehouse in a former mine?

\_\_\_\_\_

### Ethanol

What is ethanol used for?

What is the benefit of using corn to produce ethanol?

What are some drawbacks to producing ethanol from corn?

It takes approx \_\_\_\_\_ hours to produce corn into ethanol

What corn byproduct contributes to the obesity epidemic? \_\_\_\_\_

Name \_\_\_\_\_

## **Modern Marvels Film Quiz**

### **Corn KEY**

The acreage of corn planted each year is the size of the state of \_\_\_\_\_

#### Sweet Corn

Sweet corn takes 60 days of growth before harvested.

How much corn is processed in one hour at the sweet corn plant? 35 tons

How are the kernels removed from the cob? Sharp blades

What are the cobs and leaves used for once removed from the corn? Animal feed

Corn in the can has a shelf life of 3 years?

Total time it takes the corn from arriving at the plant until canned and shipped? 25 min

Corn represents less than 1% of all corn grown in US.

#### Field Corn

Field corn is also known as dent corn

110 lbs corn grown for each person on the planet (6.6 billion people)

US produces 40% of world's corn

143 people fed by one US farmer

More than 70% of field corn is for animal feed

#### Popcorn

Popcorn stores water in tiny pockets inside starch

Popcorn is less than 2% of the US

Corn Belt consists of IL, IN, OH, IA; 50% of US corn supply; IA #1

## Uses of Corn

Over 400 nonfood items, from adhesives to explosives

\_\_\_\_\_ NatureWorks \_\_\_\_\_ company in NE, converts corn into plastic

Once composted, corn plastic can break down in 40-80 \_\_\_\_\_ days

All corn has been domesticated meaning it can't exist without human intervention

## Corn Genetics

Seed corn is a hybrid, resulting from two inbred plants

Heterosis in plant breeding refers to \_\_\_\_\_ better offspring than parents \_\_\_\_\_

Why do growers have to go back to buy seed corn from companies each year?

Offspring from hybrids don't have superior characteristics anymore

The first corn plant originated from the teosinte plant \_\_\_\_\_

Genetically modified corn has special genes (traits) from another species to help do something very specific

Bt corn contains a bacteria protein that inhibits damage from European corn borer \_\_\_\_\_ insect.

DNA from one plant or animal is transplanted into the embryo of another

A genetically modified seed must be grown in test plots. \_\_\_\_\_

Why is corn grown in the Merengo Warehouse in a former mine?

No sunlight, rain, insects, animals to interrupt corn growth (controlled farming)

## Ethanol

What is ethanol used for?

What is the benefit of using corn to produce ethanol?

What are some drawbacks to producing ethanol from corn?

It takes approx 65 \_\_\_\_\_ hours to produce corn into ethanol

What corn byproduct contributes to the obesity epidemic? \_\_High fructose corn syrup\_\_