Ag Science 1 · Unit 3 · Level 2 (modified)

U.S. Food & Farm Facts



TODAY'S PLAN

- 📈 Ag keeps improving
- 👩‍🌾 America's food producers
- 💵 Food costs + the food dollar
- 🚢 Trade
- 📡 Biotech, precision ag, the future

Words to Know

Words to Know



Farmer

A person who grows crops or raises animals. Each U.S. farmer feeds about 154 people.



Family farm

About 97% of U.S. farms are owned by families.



Food dollar

Of each $1 spent on food, the farmer gets only about 16 cents.



Export

Top U.S. farm export buyers: China, Canada, and Mexico.

Words to Know

More Words to Know



📡 **Precision ag**: Using GPS, auto-steer, and sensors to raise yields, lower costs, and use fewer chemicals.

🧬 **Biotechnology**: Using cells and genes to improve crops: higher yields, fewer pests and diseases.

🏢 **Vertical farm**: Growing crops in stacked layers indoors.

🌍 **Population**: About 9–10 billion people by 2050, so farmers must grow much more food.

Learn

Agriculture Keeps Improving

🌾 Farmers grow **more** food using **fewer** resources than ever.

🌱 Careful stewardship: cropland erosion dropped nearly **50%** since 1982.

💧 Water quality and the environment have improved.



🃏 Check 1 of 4



Farmers today grow ___ food with fewer resources.

Hold up 1, 2, or 3:

1️⃣ Less

2️⃣ More

3️⃣ About the same

✅ Answer · Card 1 of 4



More

His quiz Q1: more.

Learn

America's Food Producers

👨‍👩‍👧 Farm and ranch families are only about **2%** of the U.S. population.

👩‍🌾 Each U.S. farmer feeds about **154** people.

⚖️ U.S. farmers produce about **2.1 trillion** pounds of food a year.



Learn

Americans Pay the Least



🇺🇸 The **United States** spends the smallest share of income on food (about 10%).

🏠 About half is for food at home, half for food away from home.

💵 Farmers get only about **16 cents** of each food dollar.

🃏 Check 2 of 4



Which country pays the least for food?

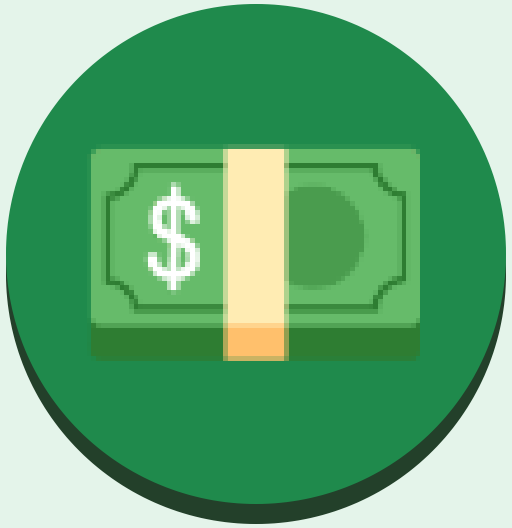
Hold up 1, 2, or 3:

1️⃣ Philippines

2️⃣ Italy

3️⃣ United States

✅ Answer · Card 2 of 4



United States

His quiz Q2.

Learn

Family Farms Feed America



👨‍👩‍👧 About **97%** of U.S. farms are **family**-owned.

🌾 Families produce most of our food.

🌱 Big and small farms both work on food safety.

Learn

Farm Exports



🚢 Top buyers of U.S. farm products: **China**, **Canada**, and **Mexico**.

🫘 Top export: **soybeans**.

🌽 The U.S. grows about a third of the world's corn and soybeans.

🃏 Check 3 of 4



The top 3 countries the U.S. exports to are…

Hold up 1, 2, or 3:

1️⃣ China, Canada, and Mexico

2️⃣ China, Canada, and Hong Kong

3️⃣ Hong Kong, Indonesia, and the Philippines



China, Canada, and Mexico

His quiz Q7.

Learn

Ag Is More Than Food



🏗️ Lumber, drywall · 💊 medicine, latex gloves

🧴 Shampoo, lotion · ⚾ bats, balls, uniforms

🖍️ Crayons, paper, ink · ⛽ fuels

Learn

Biotechnology and Precision Ag

🧬 **Biotech** raises yields and controls pests, weeds, and diseases.

📡 **Precision ag** (GPS, auto-steer) raises yields, **lowers costs**, and reduces chemical use.

🌍 About **9 billion** people by 2050.



🃏 Check 4 of 4



Precision agriculture increases yields, lowers ___, and reduces chemical use.

Hold up 1, 2, or 3:

1️⃣ Production

2️⃣ Yields

3️⃣ Cost

✅ Answer · Card 4 of 4



Cost

His quiz Q9.

Learn

The Future of Farming

🌍 About **10 billion** people by 2050: we need much more food.

🏢 **Vertical farms** grow crops in stacked layers indoors.

🐄 Cows can wear fitness trackers; 🐟 farmed fish is growing fast.



Learn

Ag Literacy Poster



🎯 Goal: a poster that teaches about agriculture and busts a **myth**.

🔎 **Check** your facts with trusted sources (USDA, WA Ag Statistics).

📝 **Credit** every source; add your name.

Wrap-Up

Recap



154
people fed per farmer



16¢
farmer's share



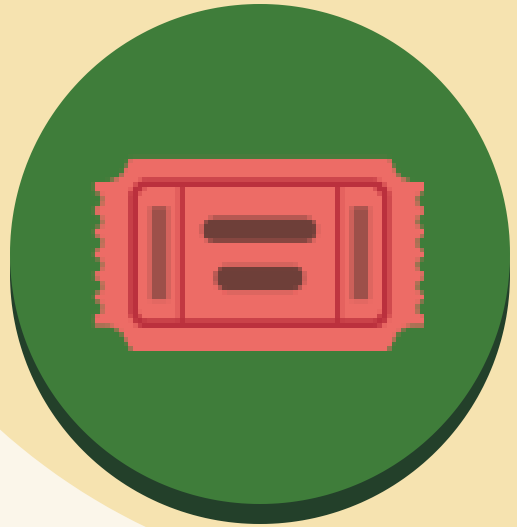
Exports
China, Canada, Mexico



Precision ag
more yield, lower cost

Wrap-Up

Exit Ticket



1️⃣ How many people does one U.S. farmer feed?

2️⃣ Who owns almost all U.S. farms?

3️⃣ Name one technology that will help feed 9–10 billion people.