

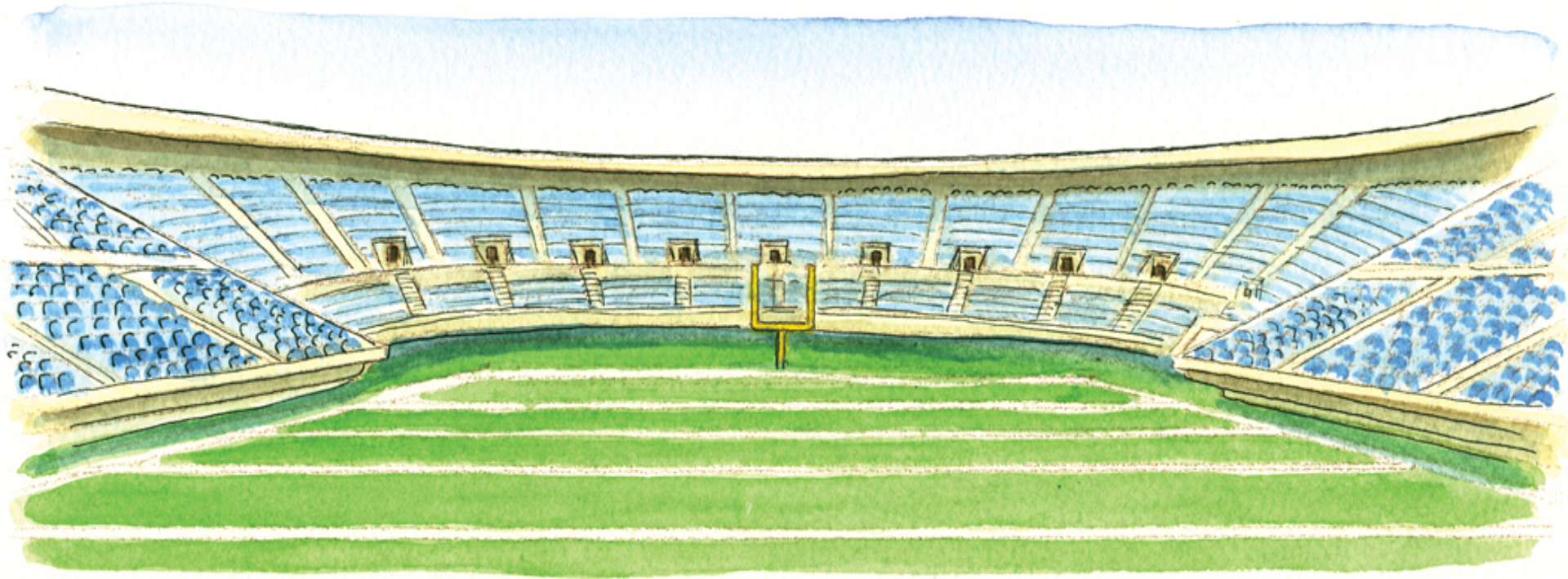
# Farming it's a Fact

Food, Land & People  
Agriculture in the Classroom  
Utah State University  
[www.agclassroom.org/ut](http://www.agclassroom.org/ut)



# An Acre is About the Size of a Football Field

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# What Does One Acre of Land Produce?



810 pounds of Cotton  
2,694 pounds of Wheat



11,500 pounds of Sweet Corn



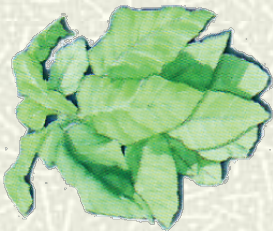
39,500 pounds of Potatoes



31,000 pounds of Oranges



35,600 pounds of Lettuce



46,500 pounds of Strawberries



# How Are You Connected to agriculture?

## Personal Care Products

Shampoo, soap, cosmetics, lotions, fingernail polish, toothpaste

## Construction

Lumber, paints, brushes, tar paper, drywall, tool handles, particle board

## Health Care

Pharmaceuticals, surgical sutures, ointments, latex gloves, x-ray film

## Manufacturing

Adhesives, lubricants, solvents, detergents, polymers

## Entertainment

Film, strings for musical instruments

## Transportation

Biofuels including ethanol and biodiesel, lubricants, antifreeze, tires, upholstery, packing materials

## Education

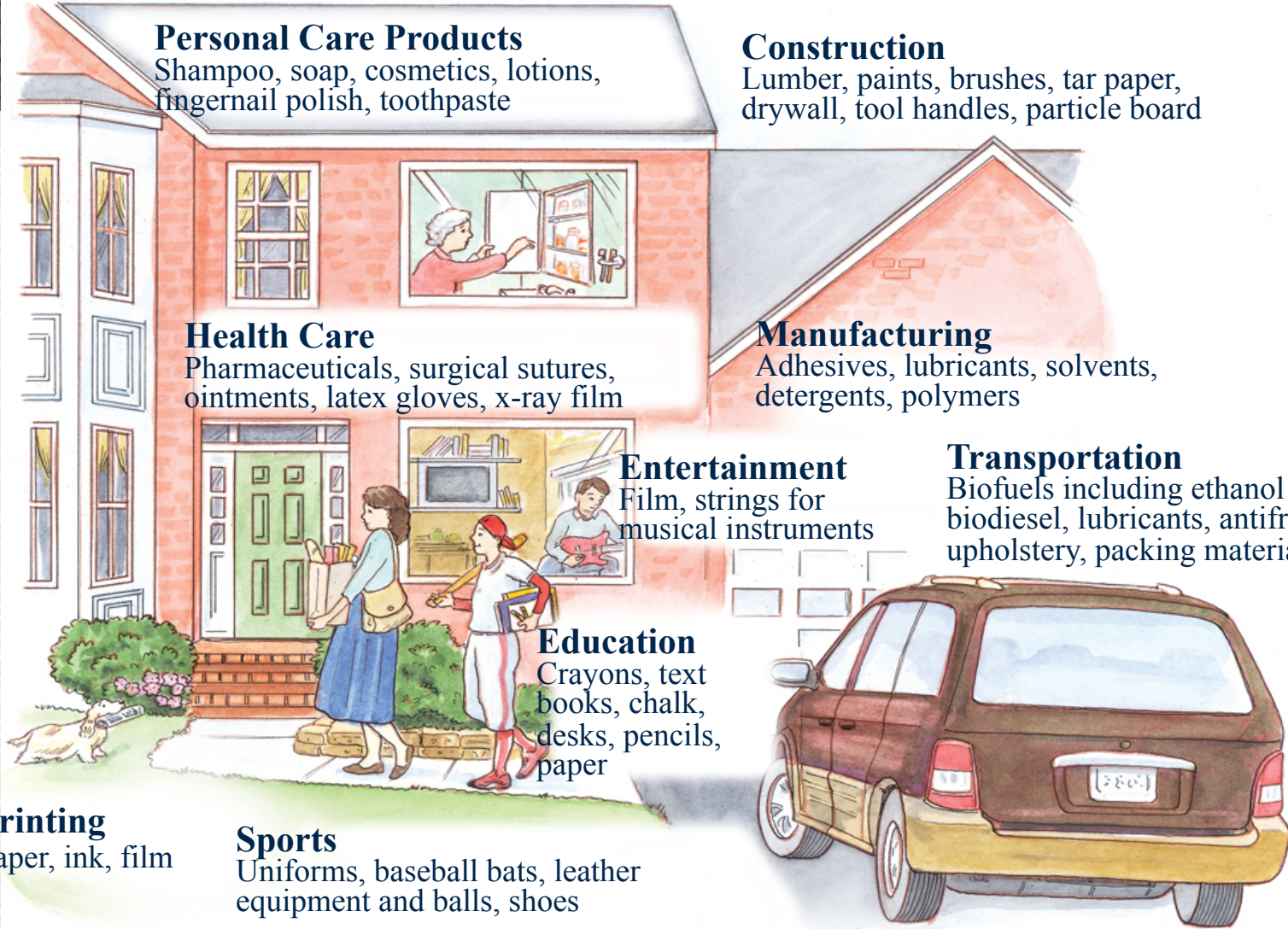
Crayons, text books, chalk, desks, pencils, paper

## Printing

Paper, ink, film

## Sports

Uniforms, baseball bats, leather equipment and balls, shoes



# What's on America's Dinner Table?

Fresh Fruits  
126.2 pounds

Milk  
21 gallons

Flour & Cereal Products  
196.9 pounds

Eggs  
245 eggs

Red Meats  
116.9 pounds

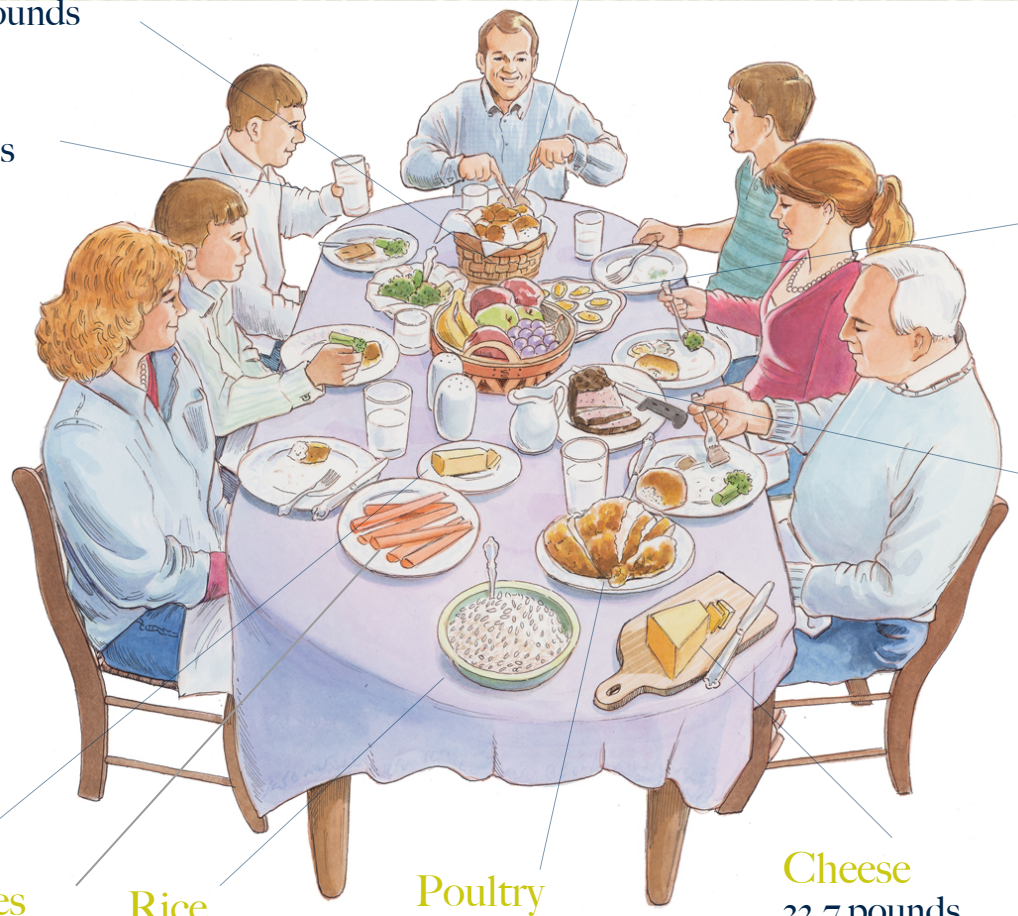
Fats & Oils  
86.7 pounds

Fresh Vegetables  
202.2 pounds

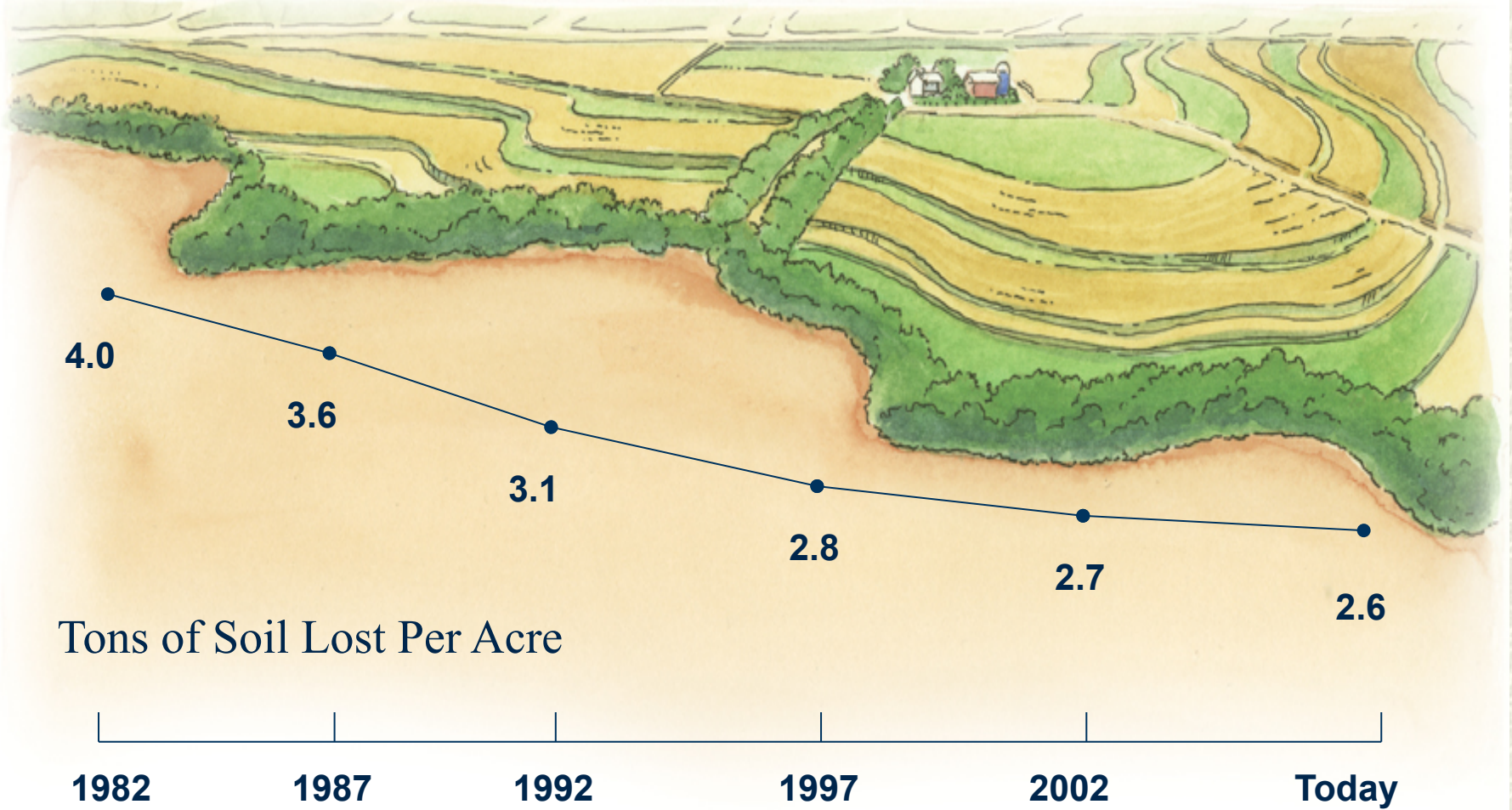
Rice  
20.5 pounds

Poultry  
85.4 pounds

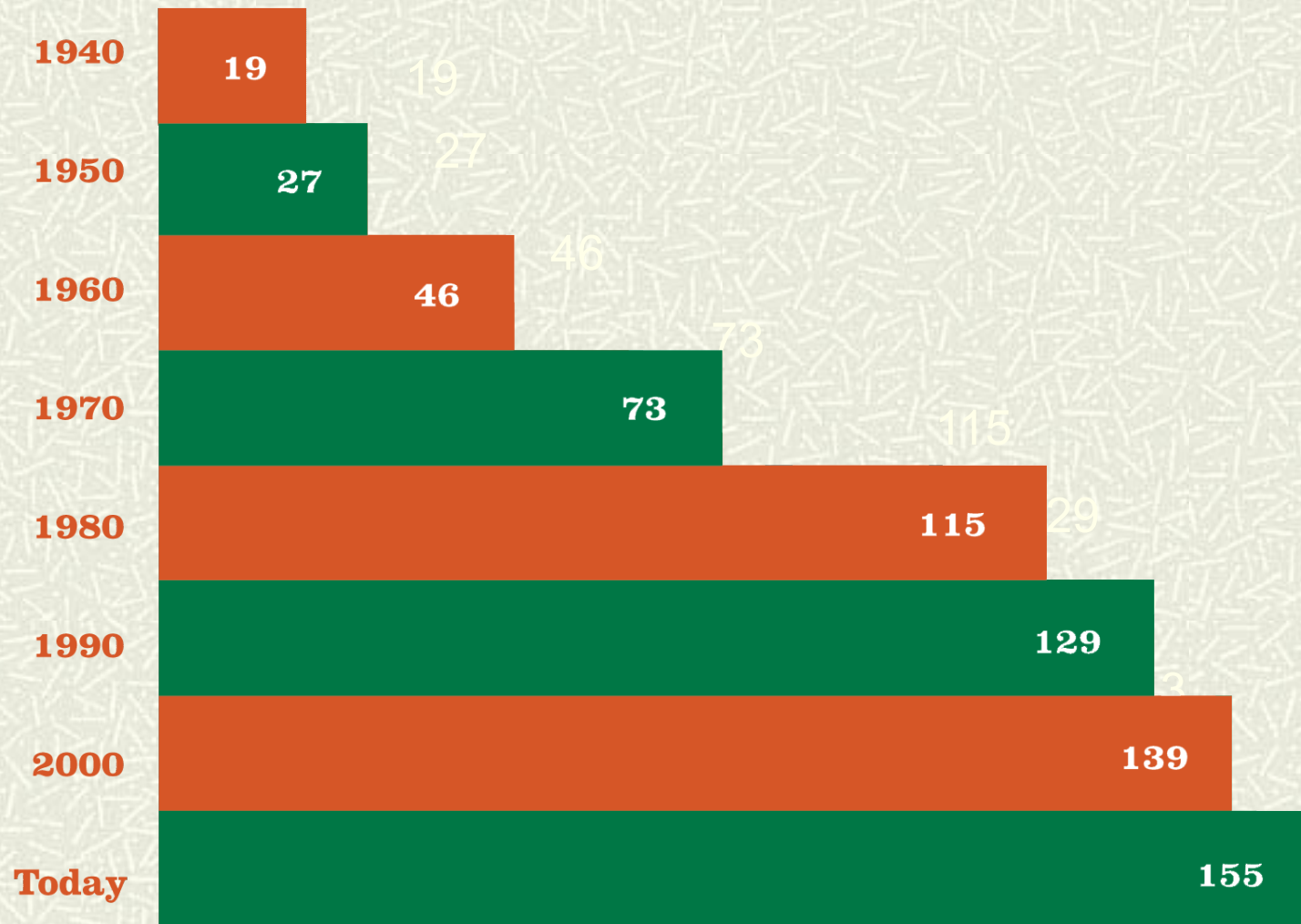
Cheese  
32.7 pounds



# Are Farmers Reducing Cropland Erosion?



# Number of people fed annually by one farmer



# What is a billion?

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If you had 1 million dollars and had to spend \$1,000 every day, your money would run out in 1000 days. If you had 1 billion dollars and had to spend \$1,000 every day, your money would run out for 2,740 years.

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# Who Pays the Least for Food?



**Pakistan 50%**



**Philippines 38%**



**China 32%**



**Jordan 43%**



**Japan 14%**



**United States 10%**

Of the 10 percent of disposable income Americans spend on food each year, 58 percent is for food eaten at home and 42 percent is for food eaten away from home.

# State that produces the most food and has the highest farm-gate sales

Rank	State	\$ in Thousands
1	California	\$36,574,850
2	Texas	\$19,074,827
3	Iowa	\$19,036,853
4	Nebraska	\$14,555,820
5	Minnesota	\$12,538,429
6	Kansas	\$11,729,328
7	Illinois	\$11,678,609
8	Wisconsin	\$8,858,242
9	North Carolina	\$8,691,099
10	Indiana	\$7,775,742

# What is the U.S. Share of World Production?

Soybeans **33%**



Beef and Veal **20.6%**



Cotton **15.9%**



Corn **41.9%**



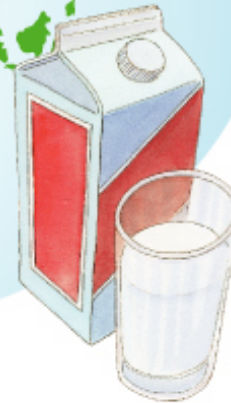
Eggs **8.5%**



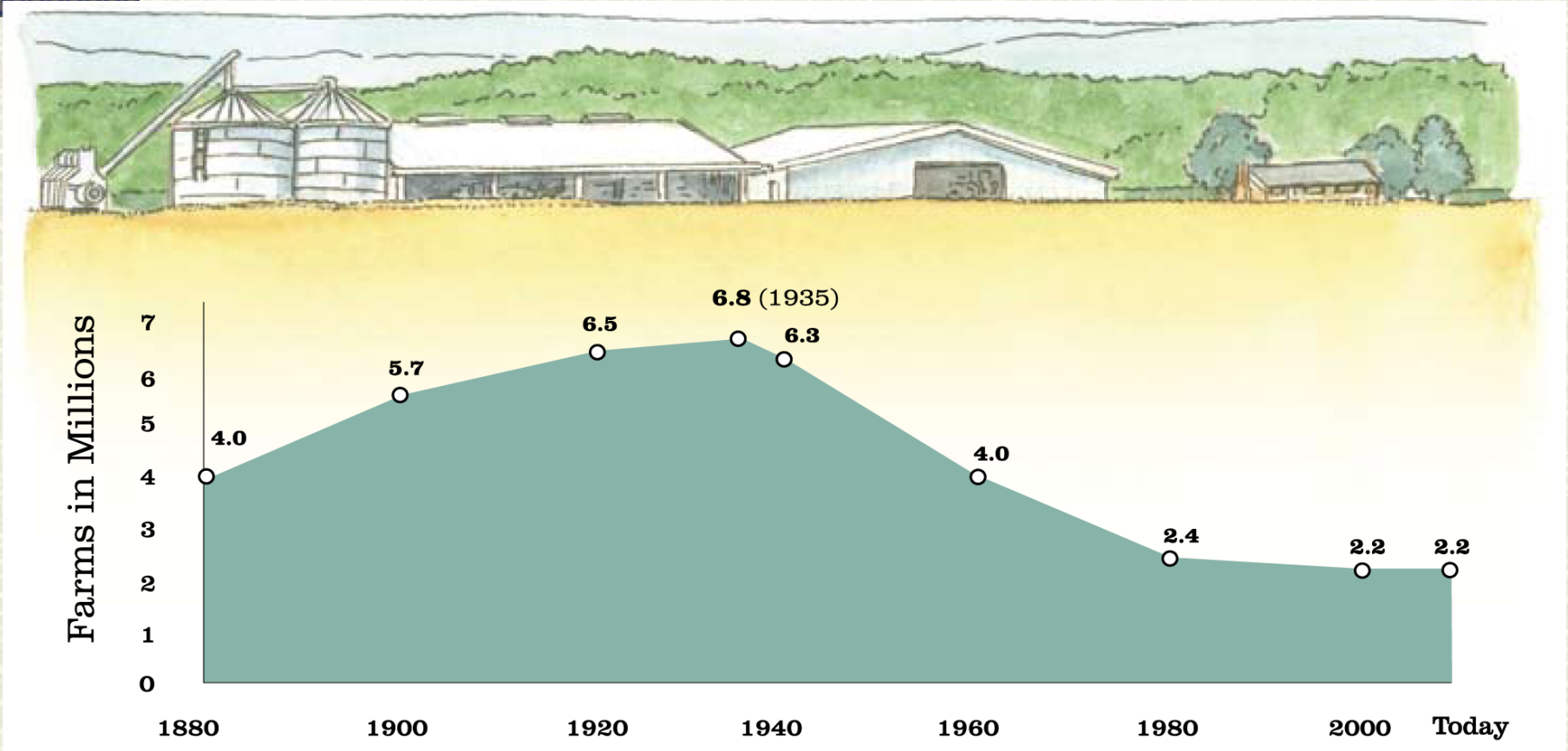
Wheat **9.2%**



Milk **17%**



# How Many Farms and Farmers?



# How Many Farmers?

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**3,337,450 farm operators**

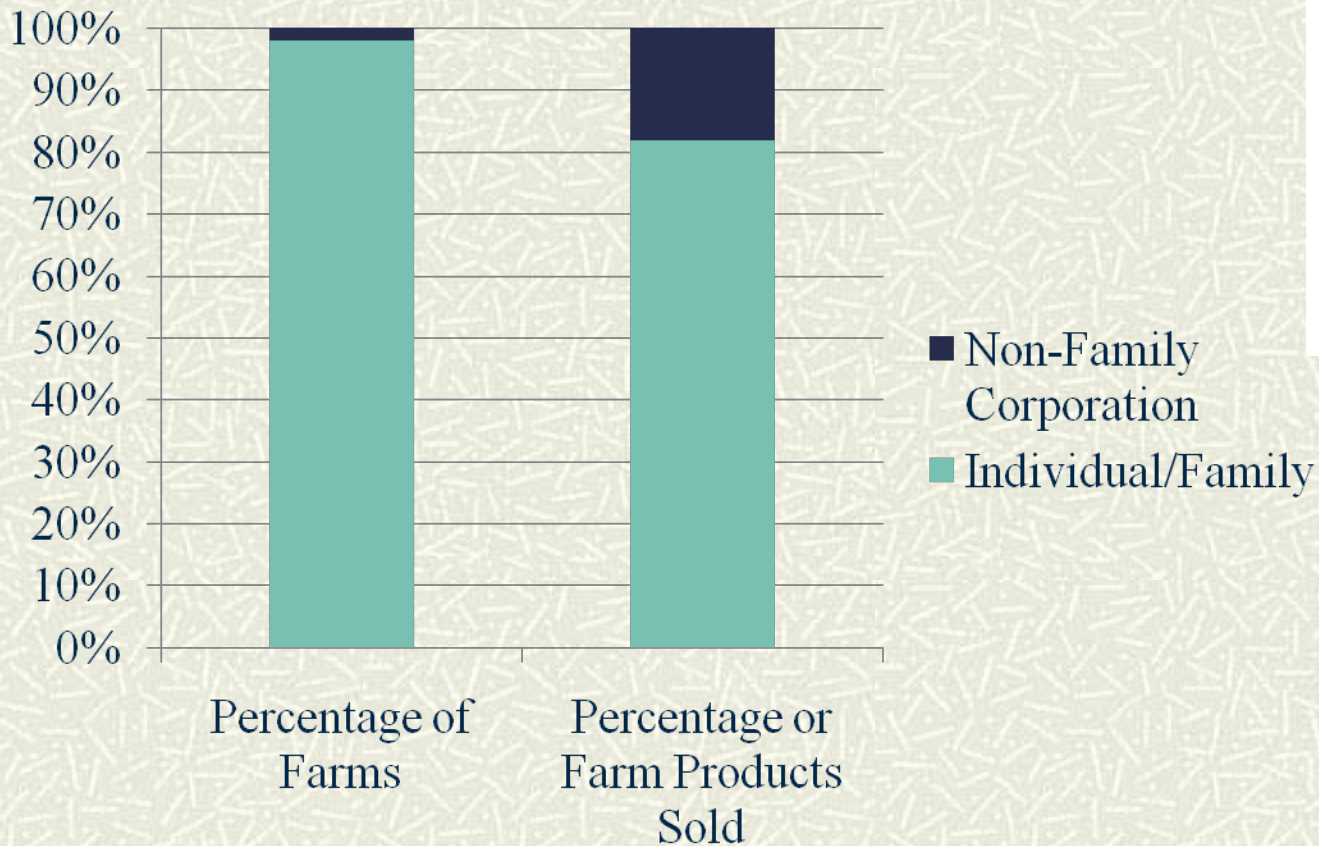
**# 306,209 women**

**# 55,570 farmers of Spanish, Hispanic,  
or Latino origin**

**# 30,599 African American**

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# Family Farms & Family Farm Production



# What is USDA's Budget?



**In 2008: \$94.8 billion**

# Where Does Your Food Dollar Go?

3.5¢ Depreciation

4¢ Rent

2.5¢ Interest

1.5¢ Repairs

3.5¢ Business Taxes

3.5¢ Other Costs

4¢ Advertising

4.5¢ Profits

3.5¢ Energy

4¢ Transportation

8¢ Packaging

38.5¢ Off Farm Labor



19¢ FARM

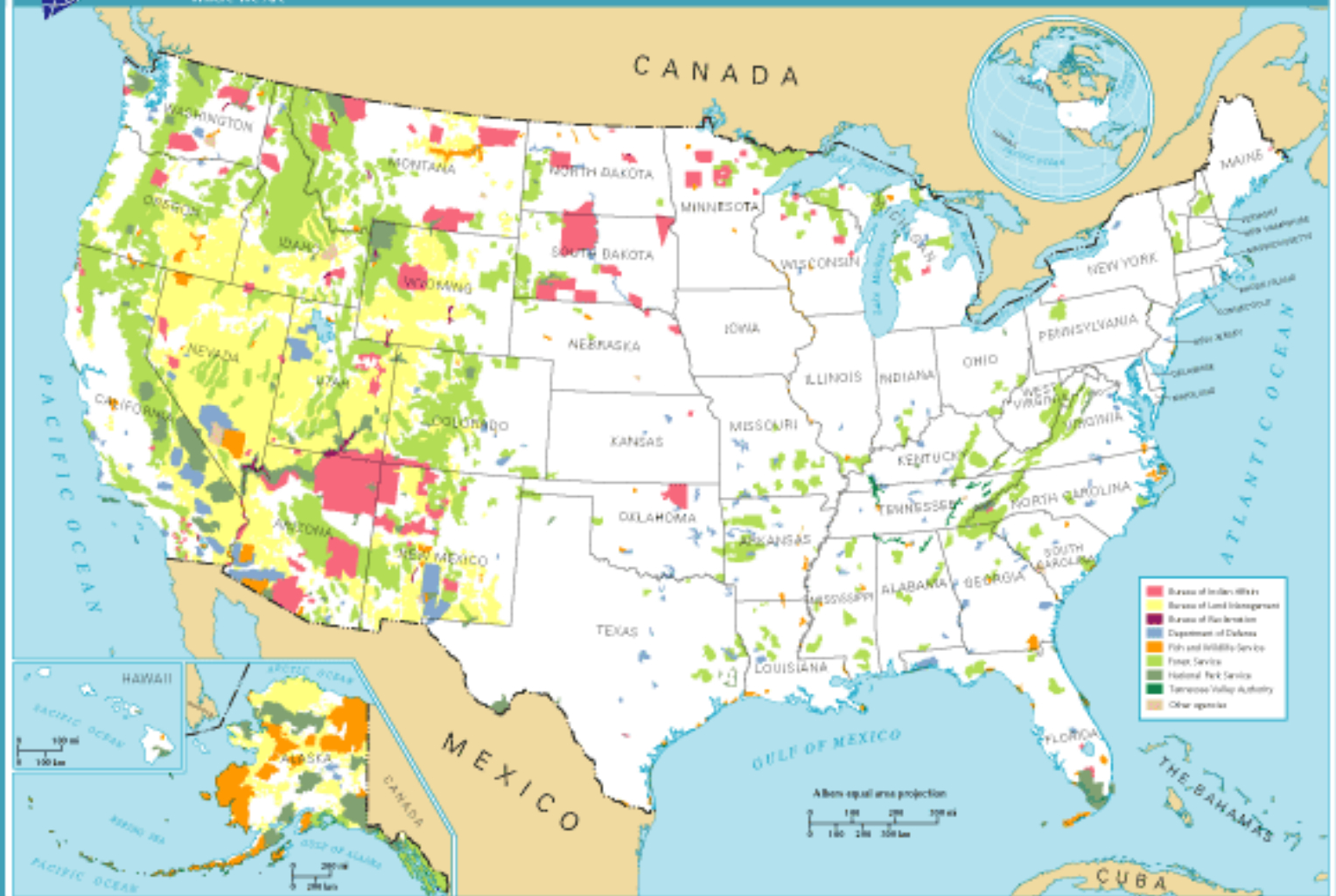
81¢ OFF-FARM





nationalatlas.gov™  
Where We Are

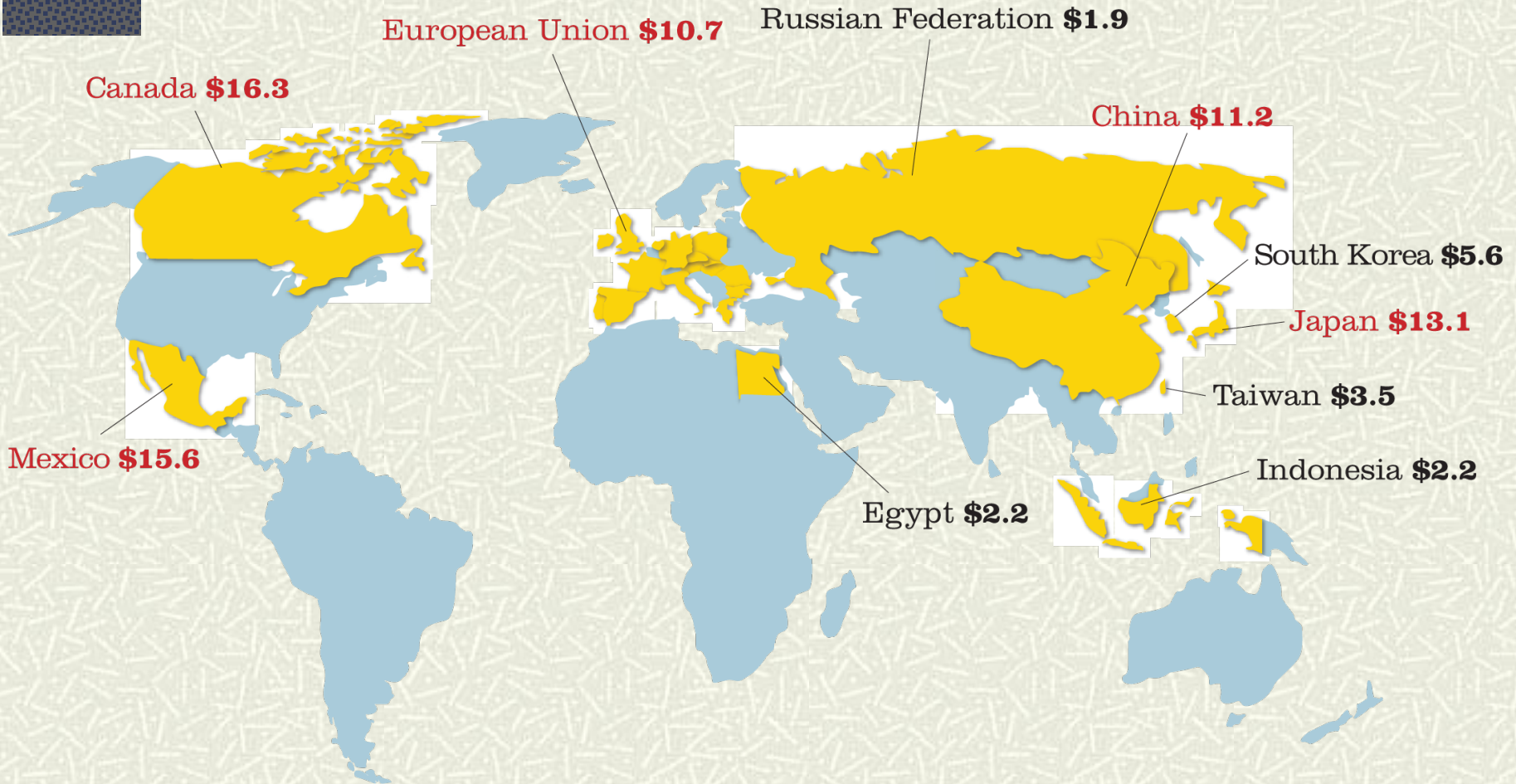
# FEDERAL LANDS AND INDIAN RESERVATIONS



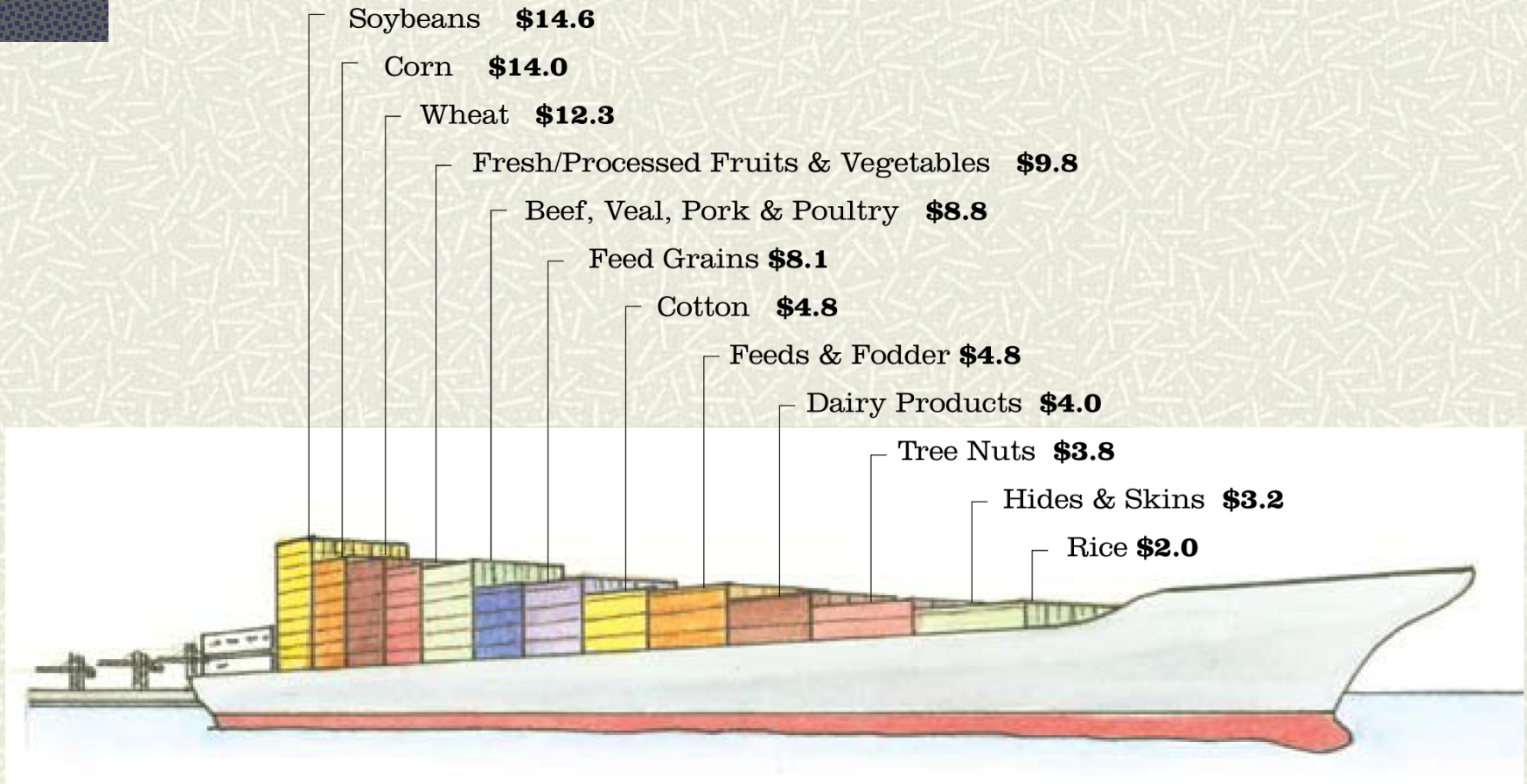
U.S. Department of the Interior  
U.S. Geological Survey

The National Atlas of the United States of America®

# Who Imports U.S. Farm Products?



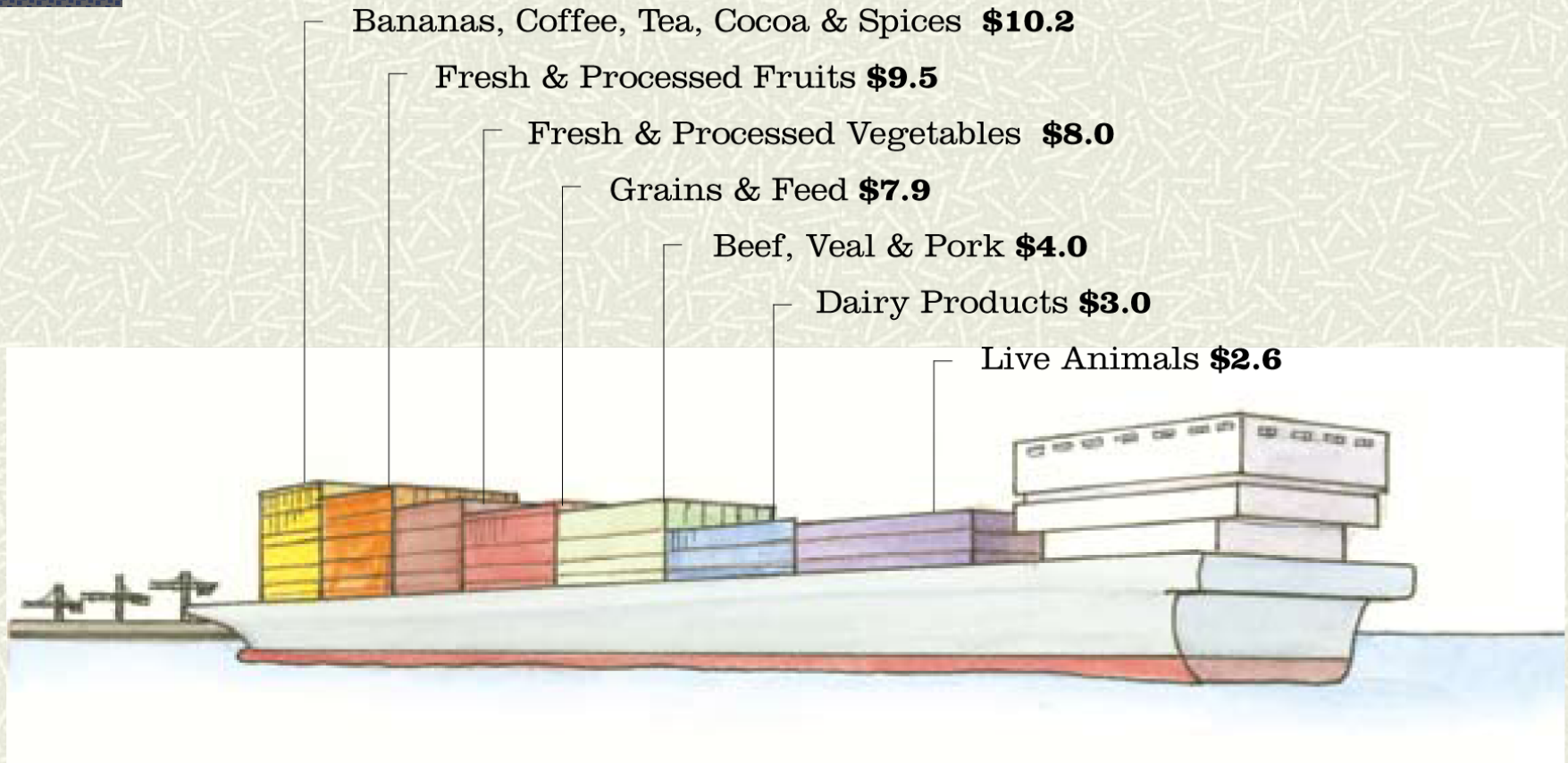
# What Do We Trade on the World Market?



Top Exports (billions)

U.S. Ag Exports = \$115 billion

# What Do We Trade on the World Market?



Top Imports (billions)

U.S. Ag Imports = \$79 billion

# What is Agriculture?

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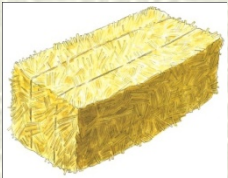
- # Farms
  - # Food
  - # Fabric
  - # Forestry
  - # Flowers
-

# Farms: Things we grow and raise. Like dairy cows.

## What a Dairy Cow consume and produces in a day?



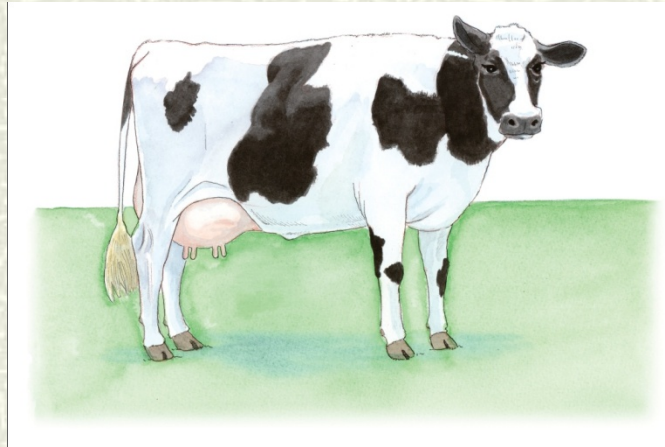
35 gallons  
of water



35 pounds  
of hay or  
silage



20 pounds of  
grain and  
concentrated  
feed



VALUE of a cow's daily  
production = **\$11.55**

### COST

Feed	= \$4.50
Supplies	= \$3.00
Bldgs./overhead	= \$3.75

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Daily Costs = **\$11.25**

RETURN on Labor = **\$0.30**

3.3 pounds of butter  
OR



8.1 gallons of milk  
OR



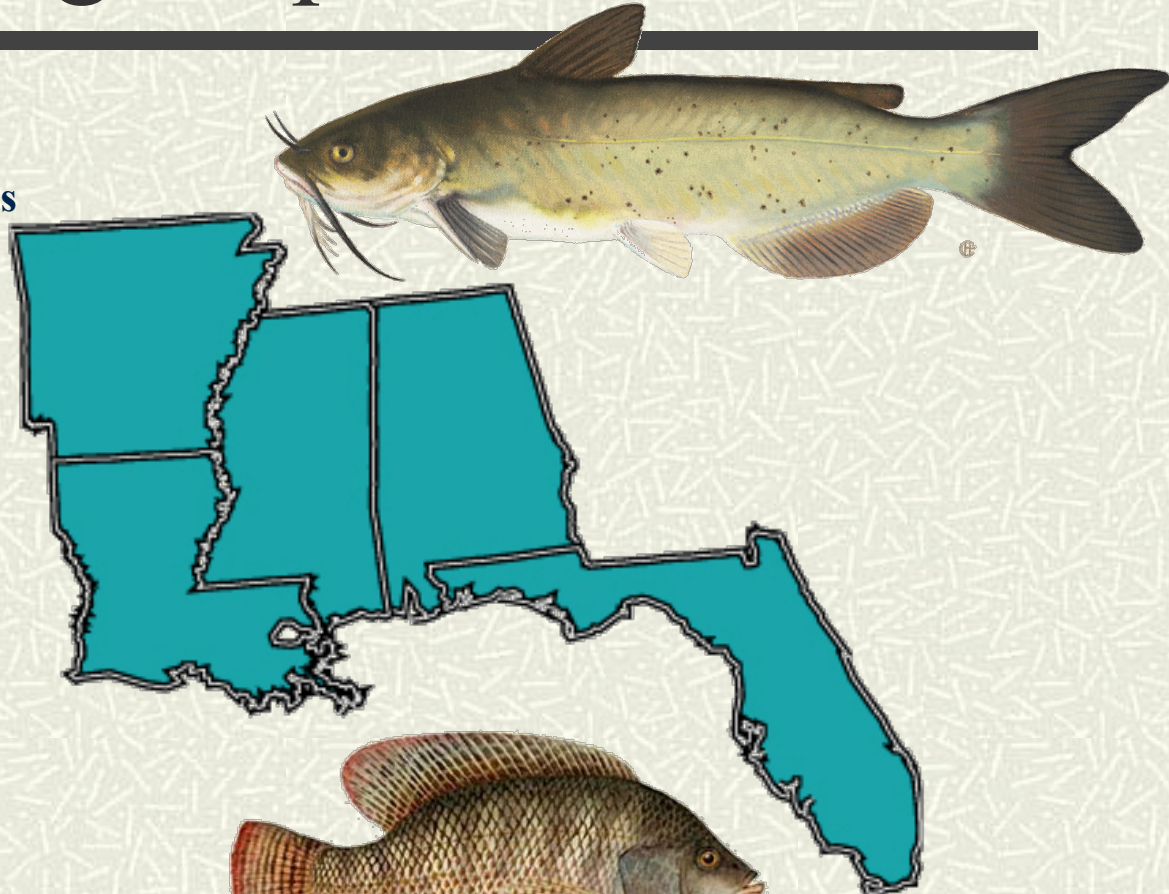
7.0 pounds of cheese



# Fish farming: Aquaculture

## Top Five Aquaculture States in Sales

- # Mississippi
- # Arkansas
- # Alabama
- # Louisiana
- # Florida



## U.S. aquaculture products

- # Food Fish
- # Mollusks
- # Miscellaneous Fish
- # Crustaceans
- # Ornamental Fish
- # Bait Fish
- # Sport Fish

Tilapia  
*Tilapia ornamental*

# Food: What's in the Grocery Store and Restaurants: Pizza for example

**Your favorite pizza originates on America's farms and ranches  
Top-Producing States:**

**Mozzarella Cheese (Dairy Products)**

California, Wisconsin, Pennsylvania

**Tomato Sauce (Fresh Tomatoes)**

California, Florida, Virginia

**Pizza Dough (Winter Wheat)**

Kansas, Oklahoma, South Dakota

**Sausage (From Hogs)**

Iowa, North Carolina, Minnesota

**Spinach**

California, Arizona

**Mushrooms**

Pennsylvania, California

**Onions**

Georgia, California, Texas

**Green Peppers**

California, Florida

**Pineapple**

Hawaii





# Fabric or Fiber: Agriculture provides natural fibers to make cloth

## ▣ Vegetable Fibers

- Seed fiber (cotton, kapok, milkweed)
- Stalk/Stem (bamboo, flax/linen, ramie, hemp, jute, rattan)



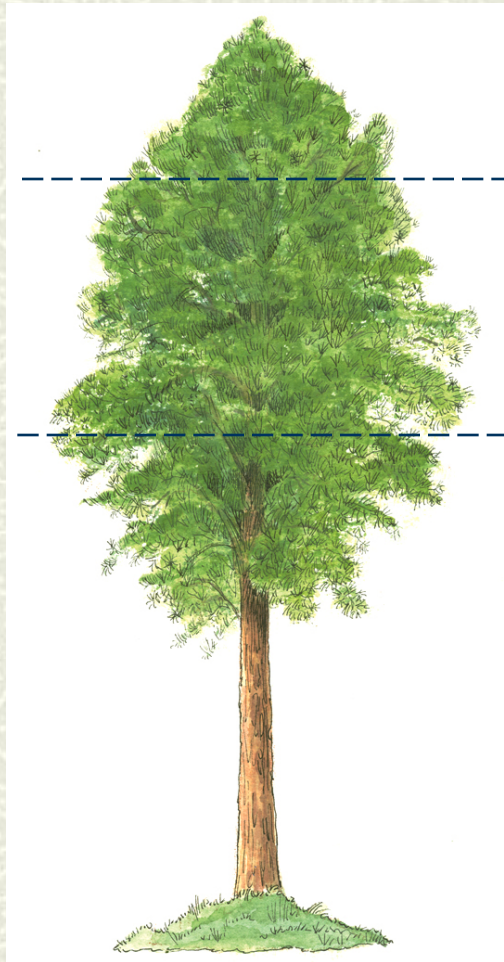
## ▣ Animal Fibers

- Wool (sheep)
- Mohair (angora goat)
- Cashmere (goats)
- Angora (rabbit)
- Alpaca (alpaca, resembles small llama)
- Feathers (chickens)
- Fur (mink, fox)
- Leather (pigs, cattle, sheep, etc)
- Silk (caterpillars)
- Catgut (animal intestines, all kinds of animals except cats)



# Forestry or Silviculture? Who Owns America's Forests

- # 750 million acres of the U.S. is covered by trees (about 1/3 of the U.S.)
- # The National Forest Service manages 193 million acres of forested land.
- # 145 million acres or 75 percent is set aside for non-commercial use:
  - Wildlife habitat
  - Recreational activities

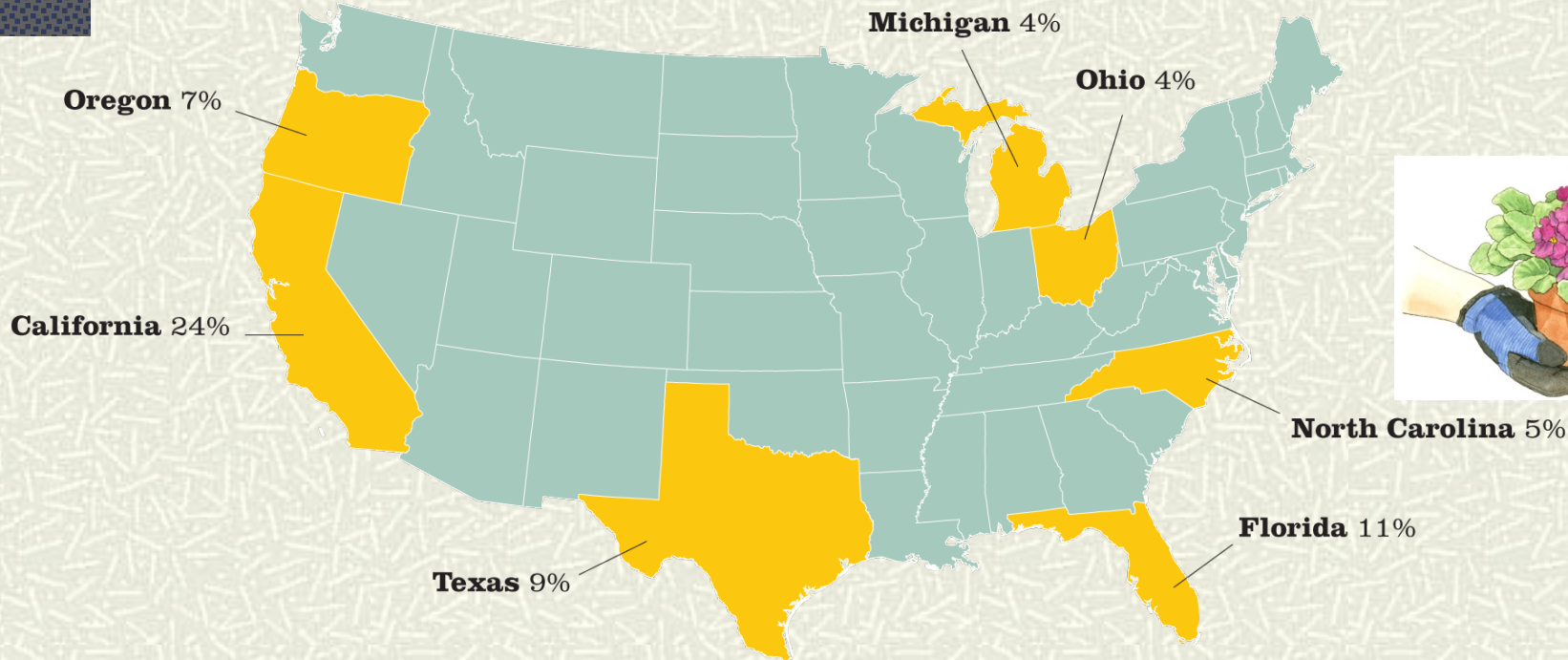


Forest products industry  
**11 percent**

Federal, state and local governments  
**37 percent**

Private citizens  
**52 percent**

# Flowers: Horticulture: Top Producing States.



## Typical Greenhouse Crops

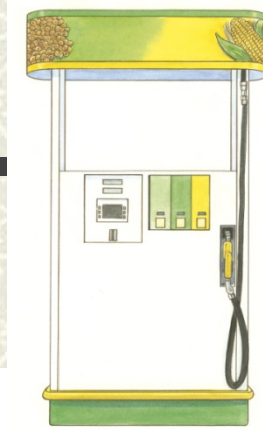
- # Floral, foliage and vegetable plants including tomatoes
- # Transplant seedlings and bulbs
- # Aquatic plants
- # Mushrooms, herbs and seeds

## Typical Nursery Crops

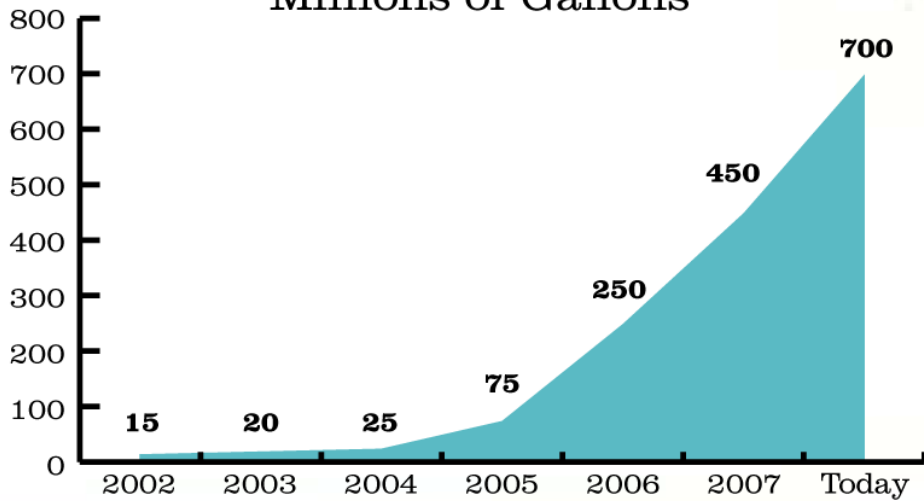
- # Cut and live Christmas trees
- # Ornamental plants and trees with woody stems
- # Fruit and nut plants for outdoor/ landscape use
- # Ornamental vines
- # Turfgrass sod and other groundcovers

# Fuels from Agriculture

## Renewable bio-based fuels

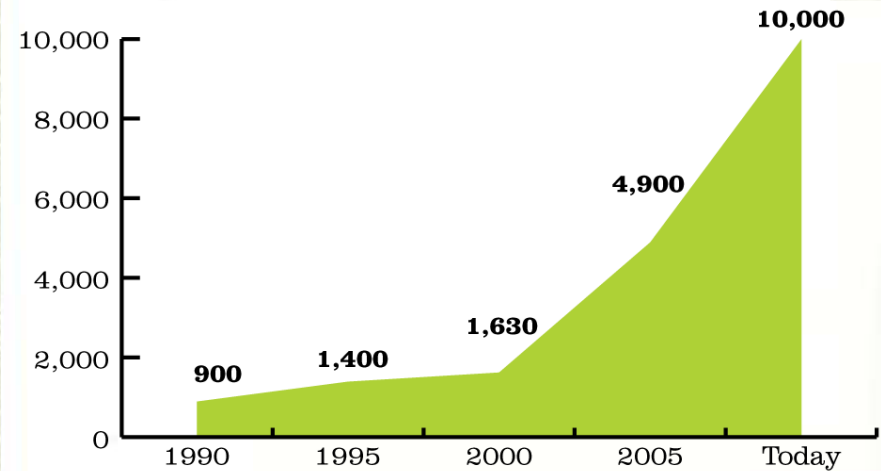


Millions of Gallons



Biodiesel

Millions of Gallons



Ethanol