

1. Examine the history of AFNR production at the local, national, and global level. Students who demonstrate learning can:

- 1.01 Analyze and describe the impact of AFNR industries on local, state, national, and global economies.

- County Agriculture Statistics:

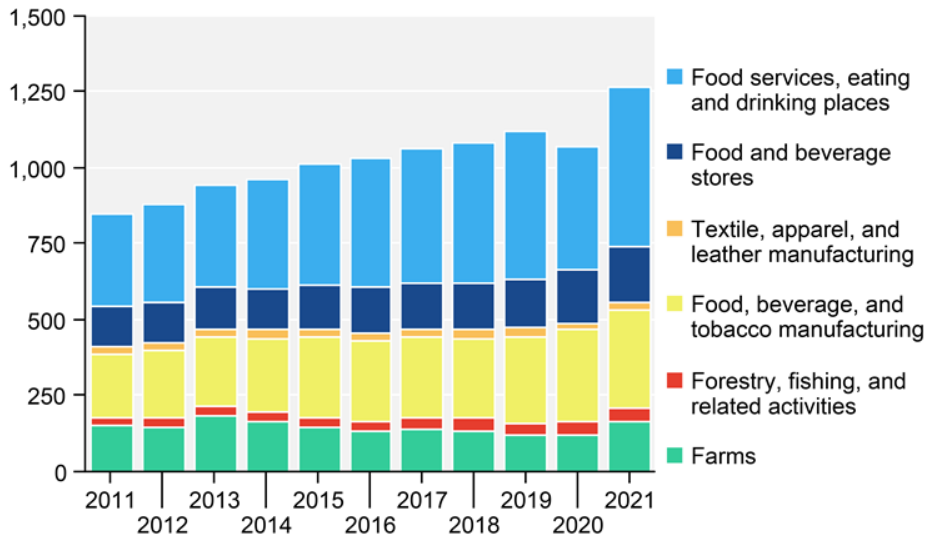
<https://ifas.ufl.edu/extension-economic-contribution-reports/>

- Florida agriculture statistics:
[FloridaAgFactsFactsheet.2020.Prt.pdf \(ufl.edu\)](#)
- 2 million farms in the U.S.
- Nearly 90% of farms in the U.S. are family farms.
- 1 U.S. Farm feeds 166 people.
- In 2018, \$139.6 billion worth of American agricultural products were exported around the world.
- 1.02 Investigate and summarize historical developments, inventions, or events that have impacted AFNR production systems.
 - Agriculture practices began roughly 12,000 years ago. This began with domestication of both plants and animals
 - Inventions:
 - Cotton Gin: Eli Whitney- Automated the process of removing fiber from seed. Eliminated a major slow-down in the process of processing made cotton more profitable for producers (caused proliferation of cotton farms in southern states)
 - Reaper: Cyrus McCormick- Used to help farmers harvest grain. The reaper was horse drawn and sharply increased productivity from 1-2 acres per day to 10 acres per day.
 - Combine- Combines the processes of cutting stalks and separating kernels/seeds.
 - Barbed Wire: Lucien B. Kent, Joseph Glidden
 - Steel Moldboard Plow: John Deere
 - USDA established: Abraham Lincoln
 - Morrill land grant college act: Made it possible for states to establish public colleges.
 - George Washington Carver developed new uses for peanuts, soybeans, and sweet potatoes.
 - Smith Hughes act passes, establishing vocational agriculture courses.
 - Genetic Engineering

- CRISPR
- 1.03 Examine and analyze historical and current economic or production data and trends and determine their impact on local, state, national, and global AFNR systems.
 - Local Economic Impact:
 - https://ifas.ufl.edu/media/ifasufledu/ifas-dark-blue/docs/PDEC_EconomicContributionsFS2021.pdf
 - Florida Economic Impact (FDACS.gov):
 - 47,400 farms
 - 9 million acres
 - Oranges: \$867 million
 - Tomatoes: \$463 million
 - Strawberries: \$240 million
 - United States Agriculture Economic Impact:

Value added to U.S. GDP by agriculture and related industries, 2011–21

Billion dollars

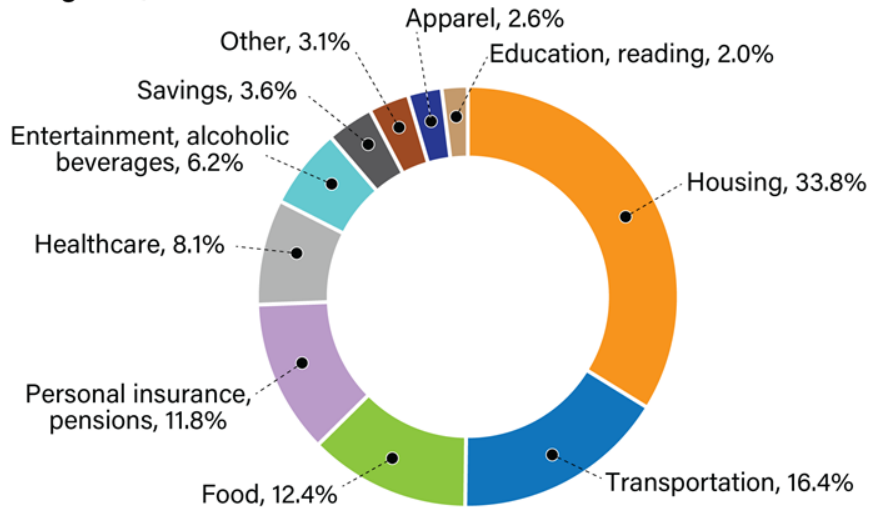


Note: GDP = Gross domestic product.

Source: USDA, Economic Research Service using data from U.S. Department of Commerce, Bureau of Economic Analysis, Value Added by Industry, as of December 22, 2022.



Share of U.S. household consumer expenditures by major categories, 2021



Note: "Other" includes personal care products, tobacco, and miscellaneous expenditures.
Source: USDA, Economic Research Service using U.S. Department of Labor, Bureau of Labor Statistics, 2021 Consumer Expenditure Survey data.

- Global Agriculture Economic Impact:
 - Agriculture accounts for 4% of the world's gross GDP, but in some less developed countries it accounts for up to 25% of GDP.

U.S. Agricultural Exports Hit Records in FY 2022

U.S. agricultural exports in FY 2022 reached a new record, up **\$24.7 billion** from the previous record in FY 2021.

\$196.4 billion

Value of U.S. Agricultural Exports in FY 2022

↑14%

Percent Increase from FY 2021

Top Commodities

The increase in U.S. agricultural exports in FY 2022 was thanks in part to record sales of these top commodities:

| | |
|---------------------------------------|---|
| Soybeans \$33.3 billion | Feeds & Fodders \$10.6 billion |
| Corn \$19.5 billion | Tree Nuts \$9.8 billion |
| Beef & Veal \$10.8 billion | Dairy Products \$9.1 billion |

Top Markets

The top six markets for U.S. agricultural exports saw record values in FY 2022 and accounted for approximately 66% of U.S. agricultural exports. There were 32 markets where U.S. agricultural exports exceeded \$1.0 billion.

| | |
|------------------------------|--------------------------------------|
| China \$36.4 billion | Japan \$15.2 billion |
| Canada \$28.4 billion | European Union \$12.6 billion |
| Mexico \$28.0 billion | South Korea \$9.6 billion |

Source: USDA-FAS, Global Agricultural Trade Database (GATS)
@USDAForeignAg
www.fas.usda.gov

Foreign Agricultural Service 
U.S. Department of Agriculture



Cornerstone Task:

Imagine a world where one of the items in standard 1.02 was not invented/created/happened. How would the agriculture industry look today?

Essay

Presentation

Diorama

Poster

Any other creative way to present the information.