

How Do We Know?

Manufacturing Day – October 5, 2012

In recognition of the first annual Manufacturing Day on October 5, 2012, the Census Bureau joins a group of public and private organizations in celebrating the importance of the Manufacturing sector to the Nation's economy. The nation relies on several key Census Bureau programs to track America's manufacturing industries, and data from some of these programs are highlighted below.

How does manufacturing compare to other industries?

Manufacturing is the 4th Largest Employer (Bar Graph)

Health care and social assistance 17.8 million

Retail trade 14.5 million

Accommodation and food services 11.3 million

Manufacturing 10.9 million

Administrative and support and waste management and remediation services 9.0 million

Professional, scientific, and technical services 7.8 million

Finance and insurance 5.9 million

Wholesale trade 5.6 million

Construction 5.4 million

Other services (except public administration) 5.2 million

Transportation and warehousing 4.0 million

Educational services 3.3 million

Information 3.1 million

Management of companies and enterprises 2.8 million

Arts, entertainment, and recreation 2.0 million
Real estate and rental and leasing 1.9 million
Utilities 0.6 million
Mining, quarrying, and oil and gas extraction 0.6 million
Agriculture, forestry, fishing, and hunting 0.2 million
Source: 2010 County Business Patterns

Average Annual. Payroll per Employee by Sector (Bar Graph)

Management of companies and enterprises \$99,500
Utilities \$86,800
Finance and insurance \$79,700
Mining, quarrying, and oil and gas extraction \$79,300
Information \$71,700
Professional, scientific, and technical services \$69,400
Wholesale Trade \$60,600
Manufacturing \$50,700
Construction \$48,400
Total for all Sectors \$44,100
Health care and social assistance \$42,300
Transportation and warehousing \$41,600
Real estate and rental and leasing \$41,300
Agriculture, forestry, fishing, and hunting \$33,900
Administrative and support and waste management and remediation services \$33,900
Education Services \$33,700
Arts, entertainment, and recreation \$31,100

Other services (except public administration) \$27,700

Retail Trade \$24,800

Accommodation and food services \$16,400

Source: 2010 County Business Patterns

There were 10.9 million manufacturing employees as of March 12, 2010 with an annual payroll of \$550.4 billion.

Source: 2010 County Business Patterns

Note: Average annual payroll per employee by sector was derived by dividing total annual payroll of the sector by the number of employees in the sector.

Where is manufacturing happening?

Manufacturing Employees by State (Map)

Map Key

More than 400,000

100,000 to 400,000

Less than 100,000

Source: 2010 County Business Patterns

In 2011, 27.4 percent of manufacturing employees 25 and older had a bachelor's degree or higher.

Note: the percent of manufacturing employees 25 and older who had a bachelor's degree or higher was derived by dividing the sum of bachelor's degrees, masters degrees, professional degrees, and doctor degrees by the total manufacturing employees 25 and older.

Source: 2011 Current Population Survey, Annual Social and Economic Supplement

Manufacturing is one of top 3 employers in 25 states (Map)

The 141,831 manufacturing establishments employ over 6.0 million people with nearly \$293 billion in annual payroll.

Map Key

State with manufacturing as a top 3 employer

Top 5 states in manufacturing employment: 2010

1. California 1,144,382*
2. Texas 730,551*
3. Ohio 599,130
4. Pennsylvania 542,667
5. Illinois 530,947

*Manufacturing is not one the top 3 employers in California and Texas.

Source: 2010 County Business Patterns

What do they consume?

Top 10 Industries by Cost of Materials (Bar Graph)

(Billion of dollars)

Petroleum and coal products \$537 Billion

Food \$383 Billion

Transportation Equipment \$369 Billion

Chemical \$351 Billion

Machinery \$163 Billion

Primary metal \$151 Billion

Fabricated metal products* \$139 Billion

Computer and electronic products* \$135 Billion

Plastics and rubber products * \$100 Billion

Paper \$91 Billion

*Difference in costs for fabricated metal products and computer and electronic products is not statistically significant.

Source: 2010 Annual Survey of Manufactures

Manufacturers purchased nearly 789 billion kilowatt hours of electricity in 2010. They also generated nearly 117 billion kilowatt hours and solder nearly 34 billion kilowatt hours.

Source: 2010 Annual Survey of Manufactures

Of the \$128 billion in capital expenditures, 85 % was spent of new and used machinery and equipment.

Source: 2010 Annual Survey of Manufactures

Manufacturing spent \$2.8 trillion on materials and in addition spent \$128 billion on capital expenditures.

Source: 2010 Annual Survey of Manufactures

What they produce?

Top 10 industries by Value of Shipments (Bar Graph)

(Billion of dollars)

Chemical \$701 Billion

Food \$646 Billion

Transportation equipment* \$633 Billion

Petroleum and coal products* \$628 Billion

Computer and electronic products \$341 Billion

Machinery \$318 Billion

Fabricated metal products \$295 Billion

Primary metal \$231 Billion

Plastic and rubber products \$189 Billion

Paper \$170 Billion

*Differences in value of shipments for transportation equipment and petroleum and coal products are not statistically significant.

Source: 2010 Annual Survey of Manufactures

The total value of shipments for 2010 was \$4.9 trillion.

Source: 2010 Annual Survey of Manufactures

How does manufacturing contribute to exports?

Sixty Percent of the Known Value of U.S. Exports Come from Manufacturing.*

60 % Manufacturers

23.6 % Wholesalers

16.3 % Others and Unclassified

* Known value is defined as the portion of U.S. total exports that could be matched to specific companies.

Source: 2009 – 2010 Foreign Trade, A Profile of U.S. Importing and Exporting Companies

United States Census Bureau

Sources: Source: 2010 County Business Patterns, 2011 Current Population Survey, 2010 Annual Survey of Manufacturers, 2009 – 2010 Foreign Trade, A Profile of U.S. Importing and Exporting Companies 2009 – 2010

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