

Industries at a Glance

SHARE ON: [f](#) [t](#) [in](#) FONT SIZE: [-](#) [+](#)

BROWSE INDUSTRIES

IAG HOME

CONSTRUCTION

EDUCATION AND HEALTH SERVICES

FINANCIAL ACTIVITIES

INFORMATION

LEISURE AND HOSPITALITY

MANUFACTURING

NATURAL RESOURCES AND MINING

OTHER SERVICES (EXCEPT PUBLIC ADMINISTRATION)

PROFESSIONAL AND BUSINESS SERVICES

TRADE, TRANSPORTATION, AND UTILITIES

CONTACTS IN BLS

IAG INDEXES

ALPHABETICAL INDEX

INDUSTRY ORDER INDEX

SEARCH IAG

Chemical Manufacturing: NAICS 325

On This Page

- >> [About the Chemical Manufacturing subsector](#)
- >> [BLS Data](#)
- >> [Workforce Statistics](#)
- >> [Earnings and Hours](#)
- >> [Fatalities, Injuries, and Illnesses](#)
- >> [Prices](#)
- >> [Workplace Trends](#)

About the Chemical Manufacturing subsector

The chemical manufacturing subsector is part of the [manufacturing](#) sector.

The Chemical Manufacturing subsector is based on the transformation of organic and inorganic raw materials by a chemical process and the formulation of products. This subsector distinguishes the production of basic chemicals that comprise the first industry group from the production of intermediate and end products produced by further processing of basic chemicals that make up the remaining industry groups.

North American Industry Classification System

The chemical manufacturing subsector consists of these industry groups:

- Basic Chemical Manufacturing: NAICS 3251
- Resin, Synthetic Rubber, and Artificial Synthetic Fibers and Filaments Manufacturing: NAICS 3252
- Pesticide, Fertilizer, and Other Agricultural Chemical Manufacturing: NAICS 3253
- Pharmaceutical and Medicine Manufacturing: NAICS 3254
- Paint, Coating, and Adhesive Manufacturing: NAICS 3255
- Soap, Cleaning Compound, and Toilet Preparation Manufacturing: NAICS 3256
- Other Chemical Product and Preparation Manufacturing: NAICS 3259

Workforce Statistics

This section provides information relating to employment and unemployment in chemical manufacturing. While most data are obtained from employer or establishment surveys, information on industry unemployment comes from a national survey of households. The following tables present an overview of the industry including the number of jobs, the unemployment rate of those previously employed in the industry, data for occupations common to the industry, and projections of occupational employment change.

Employment and Unemployment

Data series	Back data	Nov. 2017	Dec. 2017	Jan. 2018	Feb. 2018
-------------	-----------	-----------	-----------	-----------	-----------

Data series	Back data	Nov. 2017	Dec. 2017	Jan. 2018	Feb. 2018
Employment (in thousands)					
Employment, all employees (seasonally adjusted)		827.3	830.3	(P) 828.7	(P) 827.6
Employment, production and nonsupervisory employees (seasonally adjusted)		533.5	535.0	(P) 535.9	(P) 536.0
Unemployment					
Unemployment rate		0.9%	1.6%	2.3%	1.6%
Footnotes (P)_Preliminary					

(Source: [Current Employment Statistics](#), [Current Population Survey](#))

Employment by Occupation

Data series	Employment, 2016
Chemical equipment operators and tenders	61,910
Chemical technicians	21,250
Chemists	29,470
Mixing and blending machine setters, operators, and tenders	52,490
Packaging and filling machine operators and tenders	48,960

(Source: [Occupational Employment Statistics](#))

Projections

For projected (future) employment estimates, see the [National Employment Matrix](#), which includes employment estimates by industry and occupation for chemical manufacturing.

(Source: [Office of Occupational Statistics and Employment Projections](#))

Earnings and Hours

This section presents data on employee earnings and weekly hours. The latest industry averages of hourly earnings and weekly hours employees are shown. In addition, recent hourly and annual earnings are shown for occupations commonly found in chemical manufacturing.

Earnings and Hours of All Employees

Data series	Back data	Nov. 2017	Dec. 2017	Jan. 2018	Feb. 2018
Average hourly earnings		\$33.19	\$33.37	(P) \$33.58	(P) \$33.57
Average weekly hours		41.1	40.8	(P) 41.3	(P) 41.3
Footnotes (P)_Preliminary					

(Source: [Current Employment Statistics](#))

Earnings and Hours of Production and Nonsupervisory Employees

Data series	Back data	Nov. 2017	Dec. 2017	Jan. 2018	Feb. 2018
Average hourly earnings		\$24.96	\$25.21	(P) \$25.67	(P) \$25.78
Average weekly hours		41.7	41.2	(P) 41.9	(P) 42.5
Footnotes (P)_Preliminary					

(Source: [Current Employment Statistics](#))

Earnings by Occupation

Data series	Wages, 2016			
	Hourly		Annual	
	Median	Mean	Median	Mean
Chemical equipment operators and tenders	23.36	24.46	48,580	50,880
Chemical technicians	23.32	24.64	48,500	51,240
Chemists	35.28	38.18	73,380	79,420
Mixing and blending machine setters, operators, and tenders	17.37	18.49	36,120	38,450
Packaging and filling machine operators and tenders	14.27	15.49	29,680	32,230

(Source: [Occupational Employment Statistics](#))

Work-related Fatalities, Injuries, and Illnesses

This section presents data for the industry on the number of workplace fatalities and the rates of workplace injuries and illnesses per 100 full-time workers in chemical manufacturing. An injury or illness is considered to be work-related if an event or exposure in the work environment either caused or contributed to the resulting condition or significantly aggravated a pre-existing condition.

Data series	2013	2014	2015	2016
Fatalities				
Number of fatalities	18	27	28	15

Blank cells indicate no data reported or data that do not meet publication criteria.




Data series	2016
Rate of injury and illness cases per 100 full-time workers	
Total recordable cases	2.0
Cases involving days away from work, job restriction, or transfer	1.2
Cases involving days away from work	0.6
Cases involving days of job transfer or restriction	0.6

Blank cells indicate no data reported or data that do not meet publication criteria.

(Source: [Injuries, Illnesses, and Fatalities](#))

Prices

This section provides industry-specific pricing information. The producer price index measures the percentage change in prices that domestic producers receive for goods and services. The prices included in the producer price index are from the first commercial transaction. The import price index reflects the percentage change in prices paid to foreign producers for their goods and services within the U.S., while the export price index measures the percentage change in prices received by U.S. producers for goods and services sold outside the U.S.

Data series	Back data	Oct. 2017	Nov. 2017	Dec. 2017	Jan. 2018
Producer price index		(P) 281.6	(P) 281.0	(P) 281.8	(P) 283.9
Percent change from previous month		(P) 1.4%	(P) -0.2%	(P) 0.3%	(P) 0.7%
Import index		136.2	137.2	(R) 137.8	138.1
Percent change from previous month		0.7%	0.7%	(R) 0.4%	(R) 0.2%
Export index		(R) 115.4	(R) 116.0	(R) 116.6	117.4
Percent change from previous month		(R) 0.7%	(R) 0.5%	(R) 0.5%	(R) 0.7%




Footnotes
(P)_Preliminary
(R)_Revised

(Source: [Producer Price Indexes](#), [International Price Program](#))

Workplace Trends









This section presents data on the number of establishments in chemical manufacturing. Also included in this section is information on productivity, presented as the rate of change in output per hour of workers in the industry.

Establishments

Data series	Back data	4th quarter 2016	1st quarter 2017	2nd quarter 2017	3rd quarter 2017
Number of establishments					
Private industry		17,706	(P) 17,993	(P) 18,130	(P) 18,218
Local government		4	(P) 4	(P) 4	(P) 4
Federal government					
Footnotes					
(P) Preliminary					

(Source: [Quarterly Census of Employment and Wages](#))

Productivity

Data series	Back data	2013	2014	2015	2016
Labor productivity index, output per hour		91.390	90.317	89.307	91.233
Percent change from previous year		0.3	-1.2	-1.1	2.2
Labor index, total labor hours		93.313	94.175	94.442	92.829
Percent change from previous year		1.3	0.9	0.3	-1.7
Output index		85.279	85.056	84.343	84.690
Percent change from previous year		1.6	-0.3	-0.8	0.4
Unit labor costs index		122.551	122.756	131.250	133.938
Percent change from previous year		-3.0	0.2	6.9	2.0

(Source: [Productivity and Costs](#))

Data extracted on: March 09, 2018

RECOMMEND THIS PAGE USING:  Facebook  Twitter  LinkedIn

TOOLS

Areas at a Glance
Industries at a Glance
Economic Releases
Databases & Tables
Maps

CALCULATORS

Inflation
Injury And Illness

HELP

Help & Tutorials
FAQs
Glossary
About BLS
Contact Us

INFO

What's New
Careers @ BLS
Find It! DOL
Join our Mailing Lists
Linking & Copyright Info

RESOURCES

Inspector General (OIG)
Budget and Performance
No Fear Act
USA.gov
Benefits.gov
Disability.gov

[Freedom of Information Act](#) | [Privacy & Security Statement](#) | [Disclaimers](#) | [Customer Survey](#) | [Important Web Site Notices](#)

U.S. Bureau of Labor Statistics | Postal Square Building, 2 Massachusetts Avenue, NE Washington, DC 20212-0001
www.bls.gov | Telephone: 1-202-691-5200 | TDD: 1-800-877-8339 | [Contact Us](#)