



**Transmission of material in this release is embargoed until  
 8:30 a.m. (EST) Thursday, February 2, 2017**

USDL 17-0140

Technical information: (202) 691-5606 • dprweb@bls.gov • www.bls.gov/lpc  
 Media contact: (202) 691-5902 • PressOffice@bls.gov

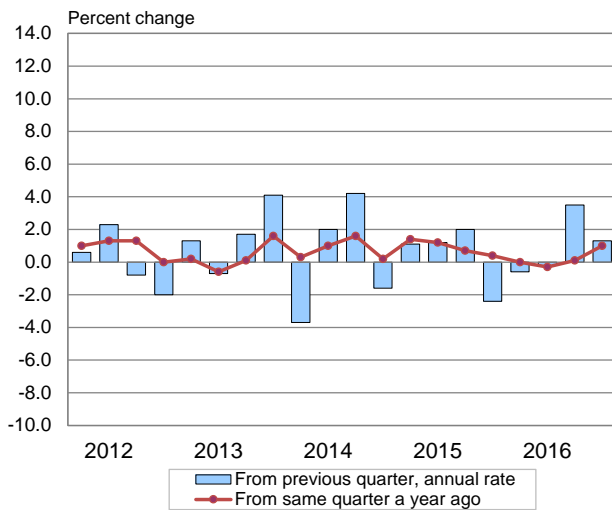
**PRODUCTIVITY AND COSTS**

Fourth Quarter and Annual Averages 2016, Preliminary

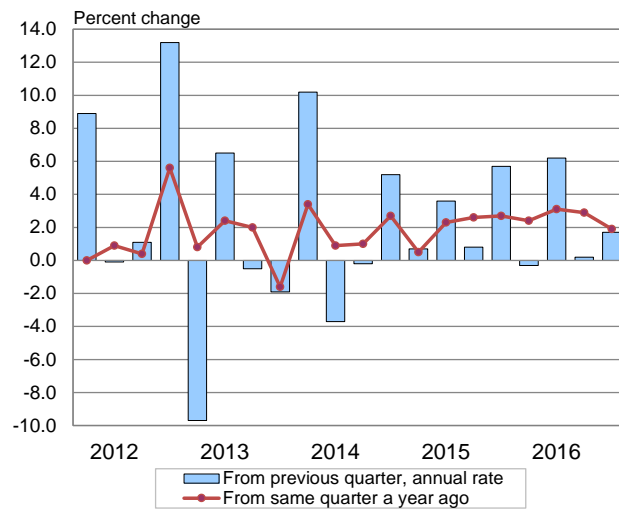
**Nonfarm business sector labor productivity** increased at a 1.3-percent annual rate during the fourth quarter of 2016, the U.S. Bureau of Labor Statistics reported today, as output increased 2.2 percent and hours worked increased 0.9 percent. (All quarterly percent changes in this release are seasonally adjusted annual rates.) From the fourth quarter of 2015 to the fourth quarter of 2016, productivity increased 1.0 percent, reflecting increases in output and hours worked of 2.2 percent and 1.1 percent, respectively. (See chart 1 and table A1.) Annual average productivity increased 0.2 percent from 2015 to 2016. (See table C1.)

Labor productivity, or output per hour, is calculated by dividing an index of real output by an index of hours worked of all persons, including employees, proprietors, and unpaid family workers.

**Chart 1. Labor productivity, nonfarm business, all persons, 2012Q1 – 2016Q4**



**Chart 2. Unit labor costs, nonfarm business, all persons, 2012Q1 – 2016Q4**



**Unit labor costs** in the nonfarm business sector increased 1.7 percent in the fourth quarter of 2016, reflecting a 3.0-percent increase in hourly compensation and a 1.3-percent increase in productivity. Unit labor costs increased 1.9 percent over the last four quarters. (See chart 2 and tables A1 and 2.)

BLS calculates unit labor costs as the ratio of hourly compensation to labor productivity. Increases in hourly compensation tend to increase unit labor costs, and increases in output per hour tend to reduce them.

**Manufacturing sector labor productivity** increased 0.7 percent in the fourth quarter of 2016, as output increased 0.8 percent and hours worked were unchanged. Output per hour increased 0.1 percent in the durable goods manufacturing sector and 1.8 percent in the nondurable goods sector. Over the last four quarters, manufacturing sector productivity increased 0.4 percent, output increased 0.2 percent, and hours worked decreased 0.2 percent. (See tables A1, 3, 4, and 5.) **Unit labor costs** in manufacturing increased 3.3 percent in the fourth quarter of 2016 and rose 2.2 percent from the same quarter a year ago. Hourly compensation increased 4.1 percent in the fourth quarter of 2016.

The concepts, sources, and methods used for the manufacturing output series differ from those used in the business and nonfarm business output series; these output measures are not directly comparable. See the Technical Notes for a more detailed explanation. (See page 6.)

### **Annual averages**

Table C1 presents **annual average changes** for the most recent 5 years for the nonfarm business sector and the total manufacturing sector. **Nonfarm business sector** productivity grew 0.2 percent in 2016, as output and hours increased 1.7 percent and 1.5 percent, respectively. The increase in hours was the smallest since a 0.1-percent decrease in 2010. Productivity has increased at an annual rate of less than 1.0 percent in each of the last 6 years. The average annual rate of nonfarm business sector productivity growth from 2007 to 2016—corresponding to the current business cycle—is 1.1 percent, well below the long-term rate from 1947 to 2016 of 2.1 percent.

Unit labor costs in the nonfarm business sector rose 2.6 percent in 2016, reflecting increases of 2.8 percent in hourly compensation and 0.2 percent in productivity. The increase in unit labor costs is the largest since 2007, when unit labor costs rose 2.7 percent. Real hourly compensation, which takes into account changes in consumer prices, increased 1.5 percent in 2016.

In the **manufacturing sector**, productivity increased 0.6 percent in 2016, as output increased 0.2 percent and hours worked decreased 0.4 percent. The decrease in the annual hours series was the first since a 12.9-percent annual decrease in 2009. Manufacturing sector productivity has increased at an annual rate of less than 1.0 percent in each of the last 4 years. The average annual rate of manufacturing productivity growth from 2007 to 2016 is 1.7 percent, which is below the long-term rate from 1987 to 2016 of 3.2 percent. Unit labor costs increased 2.6 percent in 2016.

### **Revised measures**

Revised and previously published measures for the third quarter of 2016 are shown in tables A2 and B1 and cover the following major sectors: nonfarm business, business, manufacturing, and nonfinancial corporations.

In the **third quarter of 2016**, nonfarm business productivity was revised up 0.4 percentage point, to an increase of 3.5 percent. (See table B1.) Unit labor costs in the nonfarm business sector increased 0.2 percent in the third quarter—rather than 0.7 percent as previously reported.

In the manufacturing sector, productivity was revised down 0.4 percentage point to show no change in the third quarter of 2016. Manufacturing unit labor costs increased 3.3 percent, the same rate as previously reported.

In the **nonfinancial corporate sector**, productivity was revised down 0.6 percentage point in the third quarter of 2016, to an increase of 6.5 percent. This downward revision to productivity is due primarily to a 0.5-percentage point downward revision to output. (See table A2.) This release incorporates revised historical source data on output in nonfinancial corporations, published December 22, 2016 by the

Bureau of Economic Analysis. This led to revisions back to 1947 for all quarterly and annual output-related measures including productivity and unit labor costs. The average annual rate of productivity growth from 2007 to 2015 in the nonfinancial corporate sector was revised down from 1.3 percent to 0.9 percent. The long-term rate for average annual productivity growth from 1947 to 2015 was revised down 0.1 percentage point to 2.2 percent.

Quarterly and annual data for all sectors from 2014 to 2016 appear in tables 1-6. Historical annual indexes for the nonfinancial corporate sector can be found in appendix table 1. Full historical measures can be found on the Productivity and Costs home page:

[www.bls.gov/lpc/#data](http://www.bls.gov/lpc/#data).

---

#### **Methodology change for hours worked**

Beginning with the *Productivity and Costs* news release scheduled for March 8, 2017, an improvement in the methodology for estimating hours worked will be implemented. As a result, hours worked and related measures, including labor productivity, will be subject to revision for all sectors from 1989 forward. For more information see: [www.bls.gov/lpc/hwhpnew.htm](http://www.bls.gov/lpc/hwhpnew.htm).

**The revised Productivity and Costs news release for fourth-quarter 2016 is scheduled to be released on Wednesday, March 8, 2017 at 8:30 a.m. (EST).**

Calendar year 2017 release dates for Productivity and Costs news releases are now available at [www.bls.gov/schedule/news\\_release/prod2.htm](http://www.bls.gov/schedule/news_release/prod2.htm).

**Table A1. Labor productivity growth and related measures – preliminary fourth-quarter 2016**  
(percent change from previous quarter at annual rate and from same quarter a year ago)

Sector	Percent change from:	Labor productivity	Output	Hours worked	Hourly compensation	Real hourly compensation	Unit labor costs
Nonfarm Business	<b>Previous quarter</b>	<b>1.3</b>	<b>2.2</b>	<b>0.9</b>	<b>3.0</b>	<b>-0.4</b>	<b>1.7</b>
	A year ago	1.0	2.2	1.1	2.9	1.1	1.9
Business	<b>Previous quarter</b>	<b>2.0</b>	<b>2.2</b>	<b>0.2</b>	<b>3.9</b>	<b>0.4</b>	<b>1.8</b>
	A year ago	1.2	2.2	1.0	3.1	1.2	1.8
Manufacturing	<b>Previous quarter</b>	<b>0.7</b>	<b>0.8</b>	<b>0.0</b>	<b>4.1</b>	<b>0.6</b>	<b>3.3</b>
	A year ago	0.4	0.2	-0.2	2.6	0.7	2.2
Durable Manufacturing	<b>Previous quarter</b>	<b>0.1</b>	<b>0.7</b>	<b>0.7</b>	<b>3.9</b>	<b>0.4</b>	<b>3.8</b>
	A year ago	1.1	0.8	-0.2	2.7	0.9	1.6
Nondurable Manufacturing	<b>Previous quarter</b>	<b>1.8</b>	<b>0.8</b>	<b>-1.0</b>	<b>4.3</b>	<b>0.8</b>	<b>2.4</b>
	A year ago	-0.4	-0.5	-0.1	2.3	0.5	2.8

**Table A2. Labor productivity growth and related measures – revised and previously published third-quarter 2016**  
(percent change from previous quarter at annual rate)

Sector		Labor productivity	Output	Hours worked	Hourly compensation	Real hourly compensation	Unit labor costs
Nonfinancial Corporations	<b>Revised</b>	<b>6.5</b>	<b>7.8</b>	<b>1.2</b>	<b>4.1</b>	<b>2.4</b>	<b>-2.2</b>
	Previously published	7.1	8.3	1.1	4.3	2.6	-2.7

**Table B1. Labor productivity growth and related measures – revised and previously published third-quarter 2016**  
(percent change from previous quarter at annual rate)

Sector		Labor productivity	Output	Hours worked	Hourly compensation	Real hourly compensation	Unit labor costs
Nonfarm Business	<b>Revised</b>	<b>3.5</b>	<b>4.2</b>	<b>0.6</b>	<b>3.7</b>	<b>2.1</b>	<b>0.2</b>
	Previously published	3.1	3.6	0.5	3.8	2.2	0.7
Business	<b>Revised</b>	<b>3.9</b>	<b>4.3</b>	<b>0.4</b>	<b>4.0</b>	<b>2.3</b>	<b>0.0</b>
	Previously published	3.5	3.9	0.3	4.1	2.4	0.6
Manufacturing	<b>Revised</b>	<b>0.0</b>	<b>0.6</b>	<b>0.5</b>	<b>3.4</b>	<b>1.7</b>	<b>3.3</b>
	Previously published	0.4	0.6	0.3	3.7	2.0	3.3
Durable Manufacturing	<b>Revised</b>	<b>2.1</b>	<b>2.2</b>	<b>0.1</b>	<b>3.8</b>	<b>2.1</b>	<b>1.7</b>
	Previously published	3.0	2.7	-0.3	4.2	2.5	1.2
Nondurable Manufacturing	<b>Revised</b>	<b>-2.7</b>	<b>-1.5</b>	<b>1.3</b>	<b>2.6</b>	<b>1.0</b>	<b>5.5</b>
	Previously published	-3.0	-1.9	1.1	2.8	1.2	6.0

**Table C1. Labor productivity growth and related measures – annual average changes: 2012-2016**

Sector	Year	Labor productivity	Output	Hours worked	Hourly compensation	Real hourly compensation	Unit labor costs
Nonfarm Business	2016	0.2	1.7	1.5	2.8	1.5	2.6
	2015	0.9	3.1	2.1	2.9	2.8	2.0
	2014	0.8	3.0	2.2	2.8	1.1	2.0
	2013	0.3	2.0	1.7	1.2	-0.3	0.9
	2012	0.9	3.1	2.2	2.7	0.6	1.7
Manufacturing	2016	0.6	0.2	-0.4	3.3	2.0	2.6
	2015	0.3	1.2	0.8	2.5	2.4	2.2
	2014	0.1	1.7	1.6	2.8	1.1	2.7
	2013	0.2	1.0	0.8	0.2	-1.2	0.0
	2012	1.7	4.1	2.3	1.7	-0.3	0.0

## TECHNICAL NOTES

### Labor Hours

Hours data for the labor productivity and cost measures include hours worked for all persons working in the sector—wage and salary workers, the self-employed and unpaid family workers. The primary source of hours and employment data is the BLS Current Employment Statistics (CES) program, which provides monthly survey data on the number of jobs held by wage and salary workers in nonfarm establishments, counting a person who is employed by two or more establishments at each place of employment. The CES also provides average weekly paid hours of production and nonsupervisory workers in these establishments. Weekly paid hours are adjusted to hours at work using data from the National Compensation Survey (NCS) for 2001 forward and data from the BLS Hours at Work survey, conducted for this purpose, for earlier years. The Office of Productivity and Technology estimates average weekly hours at work for nonproduction and supervisory workers using information from the Current Population Survey (CPS), the CES, and the NCS.

Data from the CPS are used to estimate hours worked for farm labor, nonfarm proprietors, and nonfarm unpaid family workers. Using CPS information on employment and hours worked at primary jobs and all other jobs, separately, the BLS productivity measures assign all hours worked to the correct industrial sector. Hours for government enterprises are derived from the CPS, the CES, and the National Income and Product Accounts (NIPA) prepared by the Bureau of Economic Analysis (BEA) of the Department of Commerce.

### Output

Business sector output is a chain-type, current-weighted index constructed after excluding from gross domestic product (GDP) the following outputs: general government, nonprofit institutions, and private households (including owner-occupied housing). Corresponding exclusions also are made in labor inputs. Business output accounted for about 76 percent of the value of GDP in 2015. Nonfarm business, which excludes farming, accounted for about 75 percent of GDP in 2015.

Annual indexes for manufacturing and its durable and nondurable goods components are constructed by deflating current-dollar industry value of production data from the U.S. Bureau of the Census with deflators from the BLS. These deflators are based on data from the BLS producer price program and other sources. The industry shipments are aggregated using annual weights, and intrasector transactions are removed. Quarterly manufacturing output measures are based on the indexes of industrial production prepared monthly by the Board of Governors of the Federal Reserve System, adjusted to be consistent with annual indexes of manufacturing sector output prepared by BLS.

Nonfinancial corporate output is a chain-type, current-weighted index calculated on the basis of the costs incurred and the incomes earned from production. The output measure excludes the following outputs from GDP: general government; nonprofit institutions; private households; unincorporated business; and those corporations classified as offices of bank holding companies, offices of other holding companies, or offices in the finance and insurance sector. Nonfinancial corporations accounted for about 50 percent of the value of GDP in 2015.

### Labor Productivity

The measure describes the relationship between real output and the labor time involved in its production. Measures of labor productivity growth show the changes from period to period in the amount of goods and services produced per hour worked. They reflect the joint effects of many influences, including changes in technology; capital investment; level of output; utilization of capacity, energy, and materials; the organization of production; managerial skill; and the characteristics and effort of the work force.

## **Labor Compensation**

The measure includes accrued wages and salaries, supplements, employer contributions to employee benefit plans, and taxes. Estimates of labor compensation by major sector, required for measures of hourly compensation and unit labor costs, are based primarily on employee compensation data from the NIPA, prepared by the BEA. The compensation of employees in general government, nonprofit institutions and private households are subtracted from compensation of employees in domestic industries to derive employee compensation for the business sector. The labor compensation of proprietors cannot be explicitly identified and must be estimated. This is done by assuming that proprietors have the same hourly compensation as employees in the same sector. The quarterly labor productivity and cost measures do not contain estimates of compensation for unpaid family workers.

## **Unit Labor Costs**

These measures describe the relationship between compensation per hour and labor productivity, or real output per hour, and can be used as an indicator of inflationary pressure on producers. Increases in hourly compensation increase unit labor costs; labor productivity increases offset compensation increases and lower unit labor costs.

## **Presentation of the data**

The quarterly data in this release are presented in three ways: as percent changes from the previous quarter presented at a compound annual rate, as percent changes from the corresponding quarter of the previous year, and as index number series where 2009=100. Annual data are presented both as index number series and percent changes from the previous year.

The index numbers and rates of change reported in the productivity and costs news release are rounded to one decimal place. All percent changes in this release and on the BLS web site are calculated using index numbers to three decimal places. A complete historical series of these index numbers are available at the BLS web site, [www.bls.gov/data/home.htm](http://www.bls.gov/data/home.htm), or by contacting the BLS Division of Major Sector Productivity (Telephone 202-691-5606 or email [dprweb@bls.gov](mailto:dprweb@bls.gov)).

For a more detailed explanation of methodology see "Technical Information About the Major Sector Productivity and Costs Methods" at [www.bls.gov/lpc/lpcmethods.pdf](http://www.bls.gov/lpc/lpcmethods.pdf).

Information in this release will be made available to sensory-impaired individuals upon request. Voice phone: 202-691-5606; Federal Relay Service number: 1-800-877-8339.

Table 1. Business sector: Labor productivity, hourly compensation, unit labor costs, and prices, seasonally adjusted.

Year and quarter	Labor productivity	Output	Hours worked	Hourly compensation (1)	Real hourly compensation (2)	Unit labor costs	Unit nonlabor payments (3)	Implicit price deflator (4)
-----								
Percent change from previous quarter at annual rate (5)								
2016 ANNUAL	0.3	1.8	1.5	2.7	1.5	2.5	-1.0	1.0
2016 IV	2.0	2.2	0.2	3.9	0.4	1.8	2.0	1.9
III	3.9 r	4.3 r	0.4 r	4.0 r	2.3 r	0.0 r	1.9 r	0.8
II	-0.4	1.6	2.0	5.6	3.0	6.0	-3.0	2.1
I	-0.7	0.8	1.5	-1.1	-0.7	-0.4	1.4	0.4
2015 ANNUAL	0.8	3.1	2.3	2.8	2.7	2.0	-1.0	0.7
2015 IV	-2.5	0.8	3.4	2.9	2.1	5.5	-6.7	0.1
III	2.3	2.1	-0.2	2.9	1.6	0.6	1.3	0.9
II	1.5	3.0	1.6	5.1	2.6	3.6	0.0	2.1
I	0.7	2.3	1.6	1.6	4.6	0.9	-2.1	-0.4
2014 ANNUAL	0.6	3.0	2.3	2.6	1.0	2.0	1.0	1.6
2014 IV	-1.8	2.8	4.7	3.3	3.6	5.1	-6.5	-0.1
III	3.4	6.4	2.9	3.2	2.3	-0.2	3.3	1.3
II	1.8	5.0	3.1	-1.8	-3.8	-3.6	10.4	2.3
I	-3.6	-2.0	1.6	6.5	4.1	10.4	-8.9	1.5
-----								
Percent change from corresponding quarter of previous year								
2016 ANNUAL	0.3	1.8	1.5	2.7	1.5	2.5	-1.0	1.0
2016 IV	1.2	2.2	1.0	3.1	1.2	1.8	0.6	1.3
III	0.1 r	1.9 r	1.8	2.8 r	1.7	2.8 r	-1.7 r	0.9
II	-0.3	1.3	1.7	2.6	1.5	2.9	-1.8	0.9
I	0.1	1.7	1.6	2.5	1.4	2.3	-1.1	0.9
2015 ANNUAL	0.8	3.1	2.3	2.8	2.7	2.0	-1.0	0.7
2015 IV	0.5	2.1	1.6	3.1	2.7	2.6	-1.9	0.7
III	0.7	2.6	1.9	3.2	3.1	2.5	-1.8	0.6
II	0.9	3.6	2.7	3.3	3.3	2.3	-1.4	0.7
I	1.0	4.1	3.1	1.5	1.6	0.5	1.1	0.8
2014 ANNUAL	0.6	3.0	2.3	2.6	1.0	2.0	1.0	1.6
2014 IV	-0.1	3.0	3.1	2.7	1.5	2.8	-0.7	1.3
III	1.3	3.6	2.3	2.4	0.6	1.0	2.6	1.7
II	0.9	3.1	2.2	1.8	-0.3	0.9	3.1	1.8
I	0.4	2.1	1.7	3.7	2.2	3.3	-1.0	1.4
-----								
Indexes 2009=100								
2016 ANNUAL	106.5	119.7	112.4	117.4	104.9	110.2	110.6	110.4
2016 IV	107.4	121.0	112.6	119.2	105.5	110.9	111.1	111.0
III	106.9 r	120.3 r	112.6 r	118.1 r	105.4 r	110.5 r	110.5 r	110.5 r
II	105.9	119.1	112.5	116.9	104.8	110.4	110.0	110.3
I	106.0	118.6	111.9	115.3	104.0	108.8	110.9	109.7
2015 ANNUAL	106.2	117.6	110.7	114.3	103.4	107.5	111.7	109.3
2015 IV	106.1	118.3	111.5	115.6	104.2	108.9	110.5	109.6
III	106.8	118.1	110.6	114.8	103.7	107.5	112.4	109.5
II	106.2	117.5	110.6	114.0	103.3	107.3	112.0	109.3
I	105.8	116.6	110.2	112.6	102.6	106.4	112.0	108.7
2014 ANNUAL	105.4	114.1	108.2	111.1	100.7	105.4	112.9	108.5
2014 IV	105.6	115.9	109.7	112.1	101.5	106.1	112.6	108.9
III	106.1	115.1	108.5	111.2	100.6	104.8	114.5	108.9
II	105.2	113.4	107.7	110.4	100.0	104.9	113.6	108.5
I	104.8	112.0	106.9	110.9	101.0	105.8	110.8	107.9
-----								

See footnotes following Table 6.  
r=revised

February 2, 2017  
Source: Bureau of Labor Statistics



Table 2. Nonfarm business sector: Labor productivity, hourly compensation, unit labor costs, and prices, seasonally adjusted.

Year and quarter	Labor productivity	Output	Hours worked	Hourly compensation (1)	Real hourly compensation (2)	Unit labor costs	Unit nonlabor payments (3)	Implicit price deflator (4)
-----								
Percent change from previous quarter at annual rate (5)								
2016 ANNUAL	0.2	1.7	1.5	2.8	1.5	2.6	-0.6	1.2
2016 IV	1.3	2.2	0.9	3.0	-0.4	1.7	2.6	2.1
III	3.5 r	4.2 r	0.6 r	3.7 r	2.1 r	0.2 r	2.4 r	1.1
II	-0.2	1.6	1.7	6.1	3.4	6.2	-2.8	2.3
I	-0.6	0.7	1.4	-0.9	-0.6	-0.3	2.1	0.7
2015 ANNUAL	0.9	3.1	2.1	2.9	2.8	2.0	-0.4	1.0
2015 IV	-2.4	0.8	3.3	3.1	2.3	5.7	-6.2	0.5
III	2.0	1.8	-0.2	2.9	1.5	0.8	1.1	1.0
II	1.2	3.1	1.9	4.8	2.2	3.6	-0.1	2.0
I	1.1	2.4	1.3	1.8	4.8	0.7	-0.1	0.4
2014 ANNUAL	0.8	3.0	2.2	2.8	1.1	2.0	1.3	1.7
2014 IV	-1.6	2.7	4.4	3.6	3.9	5.2	-6.3	0.1
III	4.2	6.5	2.3	3.9	3.0	-0.2	4.5	1.8
II	2.0	5.1	3.0	-1.7	-3.6	-3.7	9.8	1.9
I	-3.7	-1.8	2.0	6.2	3.8	10.2	-9.2	1.4
-----								
Percent change from corresponding quarter of previous year								
2016 ANNUAL	0.2	1.7	1.5	2.8	1.5	2.6	-0.6	1.2
2016 IV	1.0	2.2	1.1	2.9	1.1	1.9	1.0	1.5
III	0.1 r	1.8 r	1.7	3.0	1.8	2.9 r	-1.2 r	1.1
II	-0.3	1.2	1.5	2.7	1.6	3.1	-1.5	1.1
I	0.0	1.6	1.6	2.4	1.3	2.4	-0.8	1.0
2015 ANNUAL	0.9	3.1	2.1	2.9	2.8	2.0	-0.4	1.0
2015 IV	0.4	2.0	1.6	3.1	2.7	2.7	-1.4	0.9
III	0.7	2.5	1.8	3.2	3.1	2.6	-1.4	0.8
II	1.2	3.7	2.5	3.5	3.5	2.3	-0.6	1.0
I	1.4	4.2	2.7	1.9	2.0	0.5	1.8	1.0
2014 ANNUAL	0.8	3.0	2.2	2.8	1.1	2.0	1.3	1.7
2014 IV	0.2	3.1	2.9	2.9	1.7	2.7	-0.6	1.3
III	1.6	3.8	2.2	2.6	0.8	1.0	3.0	1.8
II	1.0	3.1	2.1	1.9	-0.1	0.9	3.4	2.0
I	0.3	2.0	1.7	3.8	2.3	3.4	-0.4	1.8
-----								
Indexes 2009=100								
2016 ANNUAL	106.7	119.8	112.3	117.6	105.2	110.3	110.8	110.5
2016 IV	107.4	121.0	112.7	119.3	105.6	111.1	111.4	111.2
III	107.0 r	120.4 r	112.4 r	118.4 r	105.7 r	110.6 r	110.7 r	110.6 r
II	106.1	119.1	112.3	117.3	105.1	110.5	110.1	110.3
I	106.2	118.7	111.8	115.6	104.3	108.9	110.9	109.7
2015 ANNUAL	106.5	117.8	110.6	114.5	103.6	107.5	111.5	109.2
2015 IV	106.3	118.5	111.4	115.9	104.4	109.0	110.3	109.5
III	107.0	118.2	110.5	115.0	103.8	107.5	112.1	109.4
II	106.4	117.7	110.6	114.2	103.4	107.3	111.8	109.1
I	106.1	116.8	110.1	112.9	102.9	106.3	111.8	108.6
2014 ANNUAL	105.5	114.3	108.3	111.2	100.8	105.4	111.9	108.1
2014 IV	105.9	116.1	109.7	112.4	101.7	106.1	111.8	108.5
III	106.3	115.3	108.5	111.4	100.7	104.8	113.7	108.5
II	105.2	113.5	107.9	110.3	100.0	104.9	112.4	108.0
I	104.7	112.1	107.1	110.8	100.9	105.8	109.8	107.5
-----								

See footnotes following Table 6.  
r=revised

February 2, 2017  
Source: Bureau of Labor Statistics

Table 3. Manufacturing sector: Labor productivity, hourly compensation, and unit labor costs, seasonally adjusted.

Year and quarter	Labor productivity	Output	Hours worked	Hourly compensation (1)	Real hourly compensation (2)	Unit labor costs
-----						
Percent change from previous quarter at annual rate (5)						
2016 ANNUAL	0.6	0.2	-0.4	3.3	2.0	2.6
2016 IV	0.7	0.8	0.0	4.1	0.6	3.3
III	0.0 r	0.6	0.5 r	3.4 r	1.7 r	3.3
II	-0.5	-1.0	-0.5	8.0	5.4	8.5
I	1.4	0.6	-0.8	-4.8	-4.5	-6.1
2015 ANNUAL	0.3	1.2	0.8	2.5	2.4	2.2
2015 IV	-1.1	-0.5	0.6	8.2	7.4	9.5
III	3.7	1.9	-1.7	4.4	3.0	0.7
II	1.5	0.6	-0.9	5.4	2.9	3.8
I	-1.7	-1.4	0.3	-1.9	1.0	-0.2
2014 ANNUAL	0.1	1.7	1.6	2.8	1.1	2.7
2014 IV	-1.1	2.7	3.9	3.7	4.1	4.9
III	1.2	2.8	1.6	3.3	2.4	2.0
II	1.9	5.3	3.4	-2.6	-4.5	-4.4
I	0.9	-0.3	-1.2	10.4	8.0	9.5
-----						
Percent change from corresponding quarter of previous year						
2016 ANNUAL	0.6	0.2	-0.4	3.3	2.0	2.6
2016 IV	0.4	0.2	-0.2	2.6	0.7	2.2
III	-0.1 r	-0.1	0.0 r	3.6 r	2.4 r	3.6
II	0.8	0.2	-0.6	3.8	2.7	3.0
I	1.3	0.6	-0.7	3.2	2.1	1.8
2015 ANNUAL	0.3	1.2	0.8	2.5	2.4	2.2
2015 IV	0.6	0.1	-0.4	4.0	3.5	3.4
III	0.6	1.0	0.4	2.9	2.7	2.3
II	0.0	1.2	1.2	2.6	2.6	2.6
I	0.1	2.4	2.3	0.6	0.7	0.5
2014 ANNUAL	0.1	1.7	1.6	2.8	1.1	2.7
2014 IV	0.7	2.6	1.9	3.6	2.4	2.9
III	0.5	2.4	1.9	2.4	0.6	1.8
II	-0.4	1.5	2.0	1.8	-0.3	2.2
I	-0.5	0.0	0.5	3.3	1.9	3.8
-----						
Indexes 2009=100						
2016 ANNUAL	120.3	129.2	107.3	114.3	102.2	95.0
2016 IV	120.5	129.4	107.4	116.2	102.8	96.4
III	120.3 r	129.1 r	107.4 r	115.0 r	102.7 r	95.7 r
II	120.2 r	128.9 r	107.2	114.1	102.3	94.9 r
I	120.4	129.3	107.4	111.9	100.9	93.0
2015 ANNUAL	119.6	128.8	107.7	110.7	100.2	92.5
2015 IV	120.0	129.1	107.6	113.3	102.1	94.4
III	120.3	129.2	107.4	111.1	100.3	92.3
II	119.3	128.6	107.9	109.9	99.5	92.1
I	118.8	128.4	108.1	108.4	98.8	91.3
2014 ANNUAL	119.2	127.4	106.8	107.9	97.8	90.5
2014 IV	119.3	128.9	108.0	109.0	98.6	91.3
III	119.6	128.0	107.0	108.0	97.6	90.2
II	119.3	127.1	106.6	107.1	97.0	89.8
I	118.7	125.5	105.7	107.8	98.2	90.8
-----						

See footnotes following Table 6.  
r=revised

February 2, 2017  
Source: Bureau of Labor Statistics

Table 4. Durable manufacturing sector: Labor productivity, hourly compensation, and unit labor costs, seasonally adjusted.

Year and quarter	Labor productivity	Output	Hours worked	Hourly compensation (1)	Real hourly compensation (2)	Unit labor costs
-----						
Percent change from previous quarter at annual rate (5)						
2016 ANNUAL	1.0	0.4	-0.6	3.4	2.1	2.4
2016 IV	0.1	0.7	0.7	3.9	0.4	3.8
III	2.1 r	2.2 r	0.1 r	3.8 r	2.1 r	1.7 r
II	2.4 r	0.6	-1.8	10.1	7.4	7.5
I	-0.4	-0.1	0.2	-6.4	-6.0	-6.0
2015 ANNUAL	0.0	0.5	0.5	3.0	2.8	2.9
2015 IV	-2.1	-1.4	0.7	9.4	8.5	11.8
III	5.1	2.3	-2.7	3.9	2.5	-1.1
II	2.2	0.5	-1.7	5.2	2.6	2.9
I	-4.0	-4.0	0.1	-0.4	2.5	3.8
2014 ANNUAL	0.7	2.8	2.1	2.4	0.7	1.7
2014 IV	-0.4	1.9	2.3	4.3	4.6	4.7
III	0.8	3.7	2.9	3.4	2.5	2.6
II	2.1	7.2	4.9	-2.7	-4.6	-4.7
I	1.5	0.4	-1.1	10.6	8.2	9.0
-----						
Percent change from corresponding quarter of previous year						
2016 ANNUAL	1.0	0.4	-0.6	3.4	2.1	2.4
2016 IV	1.1	0.8	-0.2	2.7	0.9	1.6
III	0.5 r	0.3 r	-0.2 r	4.0 r	2.8 r	3.5 r
II	1.2	0.3	-0.9	4.0	2.9	2.8
I	1.2	0.3	-0.9	2.9	1.8	1.7
2015 ANNUAL	0.0	0.5	0.5	3.0	2.8	2.9
2015 IV	0.2	-0.7	-0.9	4.5	4.0	4.2
III	0.7	0.2	-0.5	3.2	3.1	2.5
II	-0.4	0.5	0.9	3.1	3.1	3.5
I	-0.4	2.1	2.5	1.1	1.2	1.5
2014 ANNUAL	0.7	2.8	2.1	2.4	0.7	1.7
2014 IV	1.0	3.3	2.2	3.8	2.6	2.8
III	1.0	3.9	2.9	1.7	-0.1	0.7
II	0.3	3.0	2.6	1.3	-0.8	0.9
I	0.3	1.0	0.7	2.7	1.3	2.4
-----						
Indexes 2009=100						
2016 ANNUAL	122.3	134.4	109.9	113.6	101.5	92.9
2016 IV	122.8	135.0	110.0	115.6	102.3	94.1
III	122.8 r	134.8 r	109.8 r	114.5 r	102.2 r	93.3 r
II	122.1 r	134.1 r	109.8	113.4	101.7	92.9 r
I	121.4	133.9	110.3	110.7	99.9	91.2
2015 ANNUAL	121.1	133.8	110.6	109.8	99.4	90.7
2015 IV	121.5	133.9	110.2	112.6	101.4	92.6
III	122.2	134.4	110.0	110.1	99.4	90.1
II	120.7	133.6	110.8	109.0	98.8	90.4
I	120.0	133.5	111.2	107.6	98.1	89.7
2014 ANNUAL	121.0	133.1	110.0	106.7	96.7	88.1
2014 IV	121.2	134.8	111.2	107.8	97.5	88.9
III	121.3	134.2	110.6	106.6	96.4	87.9
II	121.1	132.9	109.8	105.8	95.8	87.3
I	120.5	130.7	108.5	106.5	97.0	88.4
-----						

See footnotes following Table 6.  
r=revised

February 2, 2017  
Source: Bureau of Labor Statistics

Table 5. Nondurable manufacturing sector: Labor productivity, hourly compensation, and unit labor costs, seasonally adjusted.

Year and quarter	Labor productivity	Output	Hours worked	Hourly compensation (1)	Real hourly compensation (2)	Unit labor costs
-----						
Percent change from previous quarter at annual rate (5)						
2016 ANNUAL	0.1	0.0	-0.1	3.1	1.8	3.0
2016 IV	1.8	0.8	-1.0	4.3	0.8	2.4
III	-2.7 r	-1.5 r	1.3 r	2.6 r	1.0 r	5.5 r
II	-4.6	-2.9	1.8	4.4	1.8	9.4 r
I	4.0	1.4	-2.5	-1.9	-1.5	-5.7
2015 ANNUAL	0.5	1.9	1.5	1.7	1.6	1.3
2015 IV	0.1	0.6	0.5	6.1	5.2	6.0
III	1.5	1.4	-0.1	5.5	4.1	4.0
II	0.3	0.7	0.4	6.1	3.5	5.8
I	1.0	1.8	0.8	-4.7	-1.8	-5.6
2014 ANNUAL	0.0	0.6	0.6	3.4	1.8	3.5
2014 IV	-2.7	3.7	6.6	3.0	3.4	5.8
III	2.6	1.9	-0.7	2.9	2.0	0.3
II	2.5	3.3	0.8	-2.6	-4.5	-5.0
I	0.3	-1.0	-1.3	10.0	7.6	9.7
-----						
Percent change from corresponding quarter of previous year						
2016 ANNUAL	0.1	0.0	-0.1	3.1	1.8	3.0
2016 IV	-0.4	-0.5	-0.1	2.3	0.5	2.8
III	-0.8 r	-0.6 r	0.3 r	2.8	1.6	3.6 r
II	0.2	0.1	-0.1	3.5	2.4	3.3
I	1.5	1.0	-0.4	3.9	2.8	2.4
2015 ANNUAL	0.5	1.9	1.5	1.7	1.6	1.3
2015 IV	0.7	1.1	0.4	3.2	2.7	2.4
III	0.0	1.9	1.9	2.4	2.3	2.4
II	0.3	2.0	1.7	1.8	1.7	1.5
I	0.8	2.7	1.8	-0.4	-0.3	-1.2
2014 ANNUAL	0.0	0.6	0.6	3.4	1.8	3.5
2014 IV	0.7	2.0	1.3	3.2	2.0	2.6
III	0.7	1.0	0.2	3.5	1.8	2.8
II	-0.7	0.2	0.8	2.6	0.5	3.3
I	-0.9	-0.7	0.2	4.4	2.9	5.3
-----						
Indexes 2009=100						
2016 ANNUAL	113.1	116.7	103.1	115.1	102.9	101.8
2016 IV	112.8	116.4	103.2	116.7	103.3	103.5
III	112.3 r	116.2 r	103.5 r	115.5 r	103.1 r	102.9 r
II	113.0 r	116.6 r	103.2	114.8	102.9	101.5 r
I	114.4	117.5	102.7	113.5	102.4	99.3
2015 ANNUAL	113.0	116.6	103.2	111.7	101.1	98.8
2015 IV	113.2	117.0	103.3	114.1	102.8	100.7
III	113.2	116.8	103.2	112.4	101.5	99.3
II	112.8	116.4	103.2	110.9	100.5	98.3
I	112.7	116.2	103.1	109.3	99.6	96.9
2014 ANNUAL	112.5	114.4	101.7	109.7	99.5	97.6
2014 IV	112.4	115.7	102.9	110.6	100.1	98.3
III	113.2	114.7	101.3	109.7	99.2	96.9
II	112.5	114.1	101.5	109.0	98.7	96.9
I	111.8	113.2	101.3	109.7	99.9	98.1
-----						

See footnotes following Table 6.  
r=revised

February 2, 2017  
Source: Bureau of Labor Statistics

Table 6. Nonfinancial corporate sector: Labor productivity, hourly compensation, unit labor costs, unit profits, and prices, seasonally adjusted.

Year and quarter	Labor productivity	Output	Hours worked	Hourly compensation (1)	Real hourly compensation (2)	Unit labor costs	Unit nonlabor costs (6)	Total unit costs (7)	Unit profits (8)	Implicit price deflator (4)
-----										
Percent change from previous quarter at annual rate (5)										
2016 III	6.5 r	7.8 r	1.2 r	4.1 r	2.4 r	-2.2 r	-4.5 r	-3.0 r	15.6 r	-0.7
II	-1.2	0.2	1.4	5.7	3.1	7.0	1.0	5.0	-17.2	1.8
I	1.3	1.9	0.6	-1.9	-1.6	-3.2	-12.1	-6.1	30.7	-2.0
2015 ANNUAL	0.9	3.2	2.2	2.9	2.8	2.0	0.6	1.5	-6.6	0.3
2015 IV	-1.9 r	1.6 r	3.6	1.9	1.1	3.9 r	14.9 r	7.3 r	-36.4 r	0.1 r
III	1.4 r	3.0 r	1.5	1.9	0.6	0.5 r	0.3 r	0.4 r	-0.4 r	0.3 r
II	-2.1 r	-1.3 r	0.9	3.9	1.4	6.2 r	3.8 r	5.4 r	-13.9 r	2.4 r
I	2.1 r	3.5 r	1.4	5.8	8.9	3.6 r	-2.0 r	1.8 r	-14.4 r	-0.8 r
2014 ANNUAL	0.3 r	3.0 r	2.7	2.5	0.8	2.2 r	0.5 r	1.6 r	2.4 r	1.7 r
2014 IV	0.8 r	4.3 r	3.4	1.7	2.0	0.8 r	-0.6 r	0.3 r	-4.9 r	-0.5 r
III	3.1 r	5.9 r	2.7	2.1	1.3	-1.0 r	-1.1 r	-1.0 r	16.2 r	1.4 r
II	0.7 r	5.8 r	5.0	-2.6	-4.5	-3.3 r	-1.0 r	-2.6 r	37.8 r	2.4 r
I	0.6 r	2.3 r	1.6	9.3	6.9	8.6 r	0.7 r	6.0 r	-19.6 r	1.9 r
-----										
Percent change from corresponding quarter of previous year										
2016 III	1.1 r	2.8 r	1.7	2.4	1.2 r	1.3 r	-0.6 r	0.7 r	-5.6 r	-0.2 r
II	-0.1 r	1.7 r	1.8	1.9	0.8	2.0 r	0.6 r	1.5 r	-9.0 r	0.0 r
I	-0.3 r	1.3 r	1.6	1.4	0.4	1.8 r	1.3 r	1.6 r	-8.1 r	0.2 r
2015 ANNUAL	0.9	3.2	2.2	2.9	2.8	2.0	0.6	1.5	-6.6	0.3
2015 IV	-0.2 r	1.7 r	1.8	3.4	2.9	3.5 r	4.1 r	3.7 r	-17.3 r	0.5 r
III	0.5 r	2.4 r	1.8	3.3	3.2	2.7 r	0.4 r	2.0 r	-8.6 r	0.3 r
II	0.9 r	3.1 r	2.1	3.3	3.3	2.4 r	0.0 r	1.6 r	-5.0 r	0.6 r
I	1.7 r	4.9 r	3.1	1.7	1.8	0.0 r	-1.2 r	-0.4 r	6.8 r	0.6 r
2014 ANNUAL	0.3 r	3.0 r	2.7	2.5	0.8	2.2 r	0.5 r	1.6 r	2.4 r	1.7 r
2014 IV	1.3 r	4.5 r	3.2	2.5	1.3	1.2 r	-0.5 r	0.6 r	5.2 r	1.3 r
III	0.9 r	3.8 r	2.9	2.3	0.6	1.4 r	0.2 r	1.0 r	7.2 r	1.9 r
II	-0.7 r	2.1 r	2.8	1.8	-0.3	2.5 r	1.2 r	2.1 r	2.8 r	2.2 r
I	-0.3 r	1.6 r	1.9	3.4	1.9	3.7 r	1.0 r	2.8 r	-5.9 r	1.5 r
-----										
Indexes 2009=100										
2016 III	107.5 r	123.5 r	114.9 r	117.1 r	104.5 r	108.9 r	100.3 r	106.0 r	139.4 r	109.5 r
II	105.9 r	121.2 r	114.5	115.9	103.9	109.5 r	101.4 r	106.8 r	134.5 r	109.7 r
I	106.2 r	121.2 r	114.1	114.3	103.1	107.7 r	101.2 r	105.5 r	141.0 r	109.2 r
2015 ANNUAL	106.4 r	120.1 r	112.9	113.9	103.1	107.1 r	101.3 r	105.2 r	144.9 r	109.3 r
2015 IV	105.8 r	120.6 r	114.0	114.9	103.5	108.5 r	104.5 r	107.2 r	131.8 r	109.8 r
III	106.4 r	120.1 r	113.0	114.3	103.2	107.5 r	100.9 r	105.3 r	147.6 r	109.7 r
II	106.0 r	119.3 r	112.5	113.8	103.1	107.4 r	100.8 r	105.2 r	147.8 r	109.6 r
I	106.5 r	119.6 r	112.3	112.7	102.7	105.8 r	99.9 r	103.8 r	153.4 r	109.0 r
2014 ANNUAL	105.4 r	116.4 r	110.5	110.7	100.3	105.0 r	100.7 r	103.6 r	155.1 r	109.0 r
2014 IV	106.0 r	118.6 r	111.9	111.1	100.6	104.8 r	100.4 r	103.3 r	159.5 r	109.2 r
III	105.8 r	117.4 r	111.0	110.7	100.1	104.6 r	100.5 r	103.3 r	161.5 r	109.4 r
II	105.0 r	115.7 r	110.2	110.1	99.8	104.9 r	100.8 r	103.5 r	155.5 r	109.0 r
I	104.8 r	114.1 r	108.9	110.8	100.9	105.8 r	101.1 r	104.2 r	143.6 r	108.3 r
-----										

See footnotes following Table 6.  
r=revised

February 2, 2017  
Source: Bureau of Labor Statistics

**SOURCES:** Output data are from the Bureau of Economic Analysis and the Census Bureau of the U.S. Department of Commerce; the Bureau of Labor Statistics, U.S. Department of Labor; and the Federal Reserve Board. Hours and compensation data are from the Bureau of Labor Statistics and the Bureau of Economic Analysis.

**RELIABILITY:** Productivity and cost measures are regularly revised as more complete information becomes available. The measures are first published within 40 days of the close of the reference period; revisions appear 30 days later, and second revisions after an additional 60 days. In the business sector, the third publication (second revision) of a quarterly index of output per hour of all persons has differed from the initial value by between -1.6 and 1.4 index points approximately 95 percent of the time. This interval is based on the performance of this measure between the fourth quarter of 1995 and the third quarter of 2016.

### **Table Footnotes**

- (1) Wages and salaries of employees plus employers' contributions for social insurance and private benefit plans. Except for nonfinancial corporations, where there are no self-employed, data also include an estimate of wages, salaries, and supplemental payments for the self-employed.
- (2) The change for recent quarters is based on the Consumer Price Index for all urban consumers (CPI-U). The trend from 1978-2015 is based on the Consumer Price Index research series (CPI-U-RS).
- (3) Unit nonlabor payments include profits, consumption of fixed capital, taxes on production and imports less subsidies, net interest and miscellaneous payments, business current transfer payments, rental income of persons, and the current surplus of government enterprises.
- (4) Current dollar output divided by the output index.
- (5) Quarterly changes: Percent change compounded at annual rate is calculated using index numbers to three decimal places. Indexes published in the news release are rounded to one decimal place for convenience. Annual changes: Percent change is calculated using annual indexes to three decimal places.
- (6) Unit nonlabor costs include consumption of fixed capital, taxes on production and imports less subsidies, net interest and miscellaneous payments, and business current transfer payments.
- (7) Total unit costs are the sum of unit labor and nonlabor costs.
- (8) Unit profits include corporate profits before tax with inventory valuation and capital consumption adjustments.

Appendix table 1.

Nonfinancial corporate sector: Labor productivity, hourly compensation, unit labor costs, unit profits, and prices.

Year	Labor productivity	Output	Hours worked	Hourly compensation (1)	Real hourly compensation (2)	Unit labor costs	Unit nonlabor costs (6)	Total unit costs (7)	Unit profits (8)	Implicit price deflator (4)
Indexes 2009=100										
2015	106.4 r	120.1 r	112.9	113.9	103.1	107.1 r	101.3 r	105.2 r	144.9 r	109.3 r
2014	105.4 r	116.4 r	110.5	110.7	100.3	105.0 r	100.7 r	103.6 r	155.1 r	109.0 r
2013	105.1 r	113.0 r	107.6	108.0	99.5	102.8 r	100.2 r	101.9 r	151.5 r	107.1 r
2012	104.8 r	110.5 r	105.5	106.5	99.6	101.7 r	100.0 r	101.1 r	144.9 r	105.7 r
2011	103.8 r	106.9 r	103.0	103.6	98.8	99.8 r	99.8 r	99.8 r	135.3 r	103.5 r
2010	104.1 r	104.3 r	100.2	101.5	99.9	97.5 r	97.9 r	97.6 r	131.2 r	101.2 r
2009	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2008	99.0 r	107.3 r	108.4	98.4	98.0	99.4 r	94.6 r	97.8 r	105.7 r	98.6 r
2007	98.7 r	108.7 r	110.1	95.6	98.9	96.9 r	88.9 r	94.2 r	117.2 r	96.6 r
2006	98.2 r	107.7 r	109.6	92.1	98.0	93.8 r	83.4 r	90.3 r	131.2 r	94.6 r
2005	96.2 r	103.5 r	107.6	89.4	98.2	92.9 r	81.4 r	89.0 r	117.2 r	92.0 r
2004	94.3 r	100.1 r	106.1	86.7	98.5	92.0 r	78.0 r	87.3 r	103.3 r	89.0 r
2003	91.0 r	95.6 r	105.1	83.7	97.7	92.0 r	78.7 r	87.6 r	85.0 r	87.3 r
2002	87.5 r	93.5 r	106.9	81.0	96.7	92.6 r	79.6 r	88.3 r	69.7 r	86.3 r
2001	84.1 r	92.7 r	110.2	79.5	96.4	94.6 r	79.1 r	89.4 r	57.4 r	86.0 r
2000	83.8 r	95.0 r	113.3	77.7	96.7	92.6 r	73.6 r	86.3 r	70.4 r	84.6 r
1999	81.0 r	90.6 r	111.9	72.4	93.2	89.3 r	70.6 r	83.1 r	84.0 r	83.2 r
1998	78.8 r	86.2 r	109.4	69.2	91.0	87.8 r	69.0 r	81.5 r	90.1 r	82.4 r
1997	76.4 r	81.8 r	107.0	65.4	87.2	85.6 r	68.7 r	80.0 r	101.0 r	82.2 r
1996	74.3 r	76.7 r	103.1	63.3	86.2	85.1 r	69.0 r	79.7 r	98.5 r	81.7 r
1995	71.5 r	72.4 r	101.3	60.9	85.3	85.3 r	69.9 r	80.1 r	91.9 r	81.4 r
1994	70.6 r	69.1 r	97.8	60.0	86.0	84.9 r	69.6 r	79.8 r	86.8 r	80.5 r
1993	69.4 r	65.1 r	93.8	59.2	86.6	85.4 r	69.2 r	80.0 r	72.7 r	79.2 r
1992	69.4 r	63.5 r	91.5	58.5	87.6	84.3 r	69.2 r	79.3 r	62.6 r	77.5 r
1991	67.6 r	61.6 r	91.2	55.6	85.4	82.2 r	70.6 r	78.3 r	60.4 r	76.4 r
1990	66.0 r	61.9 r	93.9	53.1	84.5	80.4 r	67.7 r	76.2 r	58.9 r	74.4 r
1989	65.3 r	61.1 r	93.5	50.6	84.6	77.5 r	64.7 r	73.2 r	62.5 r	72.1 r
1988	66.0 r	59.9 r	90.7	49.2	85.8	74.5 r	61.3 r	70.1 r	68.4 r	69.9 r
1987	64.2 r	56.5 r	88.0	46.9	84.7	73.0 r	60.2 r	68.7 r	64.0 r	68.2 r
1986	62.9 r	53.6 r	85.3	45.3	84.6	72.0 r	59.7 r	67.9 r	59.8 r	67.0 r
1985	61.5 r	52.3 r	85.0	42.9	81.5	69.8 r	56.7 r	65.4 r	72.2 r	66.1 r
1984	60.1 r	49.9 r	83.1	40.8	80.4	68.0 r	55.4 r	63.8 r	75.0 r	65.0 r
1983	58.7 r	45.9 r	78.1	39.1	80.2	66.7 r	55.7 r	63.0 r	63.9 r	63.1 r
1982	56.8 r	43.7 r	77.0	37.6	80.3	66.2 r	55.5 r	62.6 r	55.2 r	61.8 r
1981	56.5 r	44.7 r	79.1	35.2	79.8	62.4 r	50.0 r	58.2 r	59.2 r	58.3 r
1980	55.1 r	42.9 r	78.0	32.3	80.2	58.7 r	44.0 r	53.8 r	50.5 r	53.4 r
1979	55.2 r	43.4 r	78.6	29.3	80.9	53.1 r	37.5 r	47.9 r	55.9 r	48.8 r
1978	55.7 r	42.0 r	75.5	26.9	81.1	48.3 r	34.6 r	43.7 r	58.2 r	45.2 r
1977	55.0 r	39.5 r	71.8	24.6	79.6	44.8 r	33.2 r	40.9 r	54.7 r	42.4 r
1976	53.5 r	36.8 r	68.7	22.8	78.5	42.6 r	32.0 r	39.1 r	50.4 r	40.2 r
1975	51.8 r	34.0 r	65.6	21.2	77.2	41.0 r	32.3 r	38.1 r	42.7 r	38.5 r
1974	49.8 r	34.5 r	69.1	19.2	76.3	38.5 r	28.2 r	35.1 r	35.3 r	35.1 r
1973	50.8 r	35.0 r	68.8	17.6	77.6	34.6 r	24.6 r	31.3 r	38.7 r	32.0 r
1972	50.3 r	33.0 r	65.5	16.4	76.9	32.6 r	23.3 r	29.5 r	37.3 r	30.3 r
1971	49.4 r	30.7 r	62.1	15.6	75.4	31.6 r	23.3 r	28.8 r	34.1 r	29.4 r
1970	47.4 r	29.5 r	62.2	14.7	74.3	31.1 r	22.2 r	28.1 r	30.2 r	28.3 r
1969	47.1 r	29.8 r	63.1	13.8	73.6	29.3 r	19.7 r	26.1 r	36.7 r	27.2 r
1968	47.1 r	28.6 r	60.8	12.9	72.6	27.4 r	18.2 r	24.3 r	40.6 r	26.0 r
1967	45.4 r	26.9 r	59.1	12.0	70.6	26.5 r	17.0 r	23.3 r	40.5 r	25.1 r
1966	44.6 r	26.1 r	58.5	11.4	68.9	25.6 r	16.1 r	22.4 r	43.2 r	24.6 r
1965	43.7 r	24.3 r	55.6	10.8	67.1	24.7 r	16.0 r	21.8 r	43.2 r	24.0 r
1964	42.7 r	22.4 r	52.6	10.5	66.3	24.6 r	16.1 r	21.8 r	40.1 r	23.7 r
1963	42.0 r	21.0 r	49.9	10.3	65.9	24.5 r	16.1 r	21.7 r	38.7 r	23.5 r
1962	40.5 r	19.7 r	48.8	10.0	64.8	24.7 r	16.2 r	21.9 r	36.5 r	23.4 r
1961	38.8 r	18.2 r	46.9	9.6	63.0	24.8 r	16.4 r	22.0 r	34.0 r	23.3 r
1960	37.5 r	17.8 r	47.4	9.3	61.6	24.8 r	16.1 r	21.9 r	33.9 r	23.2 r
1959	36.9 r	17.2 r	46.6	9.0	60.3	24.3 r	15.7 r	21.4 r	36.8 r	23.0 r
1958	35.2 r	15.5 r	44.0	8.6	58.5	24.6 r	16.3 r	21.8 r	31.7 r	22.8 r
1957	34.4 r	16.1 r	46.7	8.3	57.9	24.1 r	14.9 r	21.0 r	35.0 r	22.5 r
1956	33.7 r	15.9 r	47.0	7.8	56.4	23.3 r	13.8 r	20.1 r	36.4 r	21.8 r
1955	33.5 r	15.3 r	45.7	7.4	53.9	22.0 r	13.0 r	19.0 r	38.8 r	21.1 r
1954	31.6 r	13.7 r	43.3	7.1	51.8	22.5 r	13.4 r	19.5 r	33.3 r	20.9 r
1953	30.3 r	13.8 r	45.6	6.9	50.4	22.7 r	13.0 r	19.4 r	34.2 r	21.0 r

1952	29.1 r	12.9 r	44.2	6.5	48.1	22.4 r	13.0 r	19.3 r	36.4 r	21.1 r
1951	28.4 r	12.4 r	43.6	6.2	46.4	21.7 r	12.5 r	18.6 r	40.4 r	20.9 r
1950	28.7 r	11.7 r	40.9	5.6	45.8	19.7 r	11.9 r	17.1 r	37.6 r	19.2 r
1949	26.7 r	10.4 r	38.9	5.3	43.9	20.0 r	12.4 r	17.5 r	33.3 r	19.1 r
1948	25.4 r	10.5 r	41.4	5.2	42.0	20.4 r	11.6 r	17.4 r	36.6 r	19.5 r
1947	23.8 r	9.7 r	41.0	4.7	41.3	19.8 r	11.0 r	16.8 r	30.7 r	18.3 r

See footnotes following Table 6.  
r=revised

February 2, 2017  
Source: Bureau of Labor Statistics