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PRODUCTIVITY AND COSTS

Second Quarter 2016, Preliminary

Nonfarm business sector labor productivity decreased at a 0.5-percent annual rate during the second quarter of 2016, the U.S. Bureau of Labor Statistics reported today, as output increased 1.2 percent and hours worked increased 1.8 percent. (All quarterly percent changes in this release are seasonally adjusted annual rates.) From the second quarter of 2015 to the second quarter of 2016, productivity decreased 0.4 percent, the first four-quarter decline in the series since a 0.6-percent decrease in the second quarter of 2013. (See chart 1 and table A.)

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 – 2016Q2

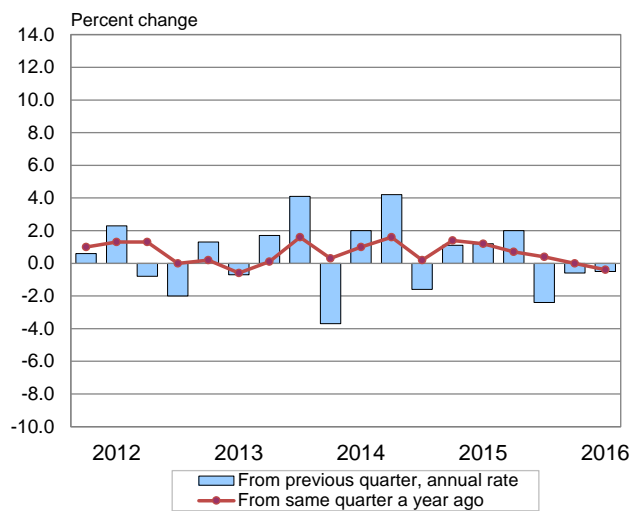
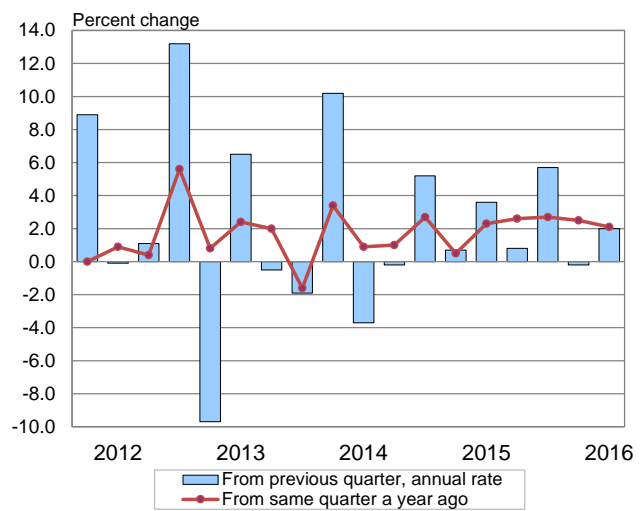


Chart 2. Unit labor costs, nonfarm business, all persons, 2012Q1 – 2016Q2



Unit labor costs in the nonfarm business sector increased 2.0 percent in the second quarter of 2016, reflecting a 1.5-percent increase in hourly compensation and a 0.5-percent decline in productivity. Unit labor costs increased 2.1 percent over the last four quarters. (See chart 2 and tables A and 2.)

Historical Revisions to Productivity and Costs Data

Data in this release reflect revisions to the National Income and Product Accounts (NIPA) released by the Bureau of Economic Analysis of the U.S. Department of Commerce on July 29, 2016. See “Revised measures” section (page 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 decreased 0.2 percent in the second quarter of 2016, as output and hours worked decreased 0.8 percent and 0.7 percent, respectively. Output per hour increased 2.6 percent in the durable goods manufacturing sector reflecting a 2.0-percent decline in hours worked and a 0.5-percent increase in output. Productivity decreased 4.1 percent in the nondurable goods sector in the second quarter of 2016, following a 4.0-percent first-quarter increase. Over the last four quarters, manufacturing productivity increased 0.9 percent, as output increased 0.3 percent and hours declined 0.6 percent. (See tables A, 3, 4, and 5.) **Unit labor costs in manufacturing** increased 3.1 percent in the second quarter of 2016 and rose 1.7 percent from the same quarter a year ago. Hourly compensation increased 2.9 percent in the second 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.)

Revised measures

Measures of output for the business, nonfarm business, and nonfinancial corporate sectors, and measures of compensation for all sectors incorporate revised National Income and Product Accounts (NIPA) data released on July 29 by the Bureau of Economic Analysis, U.S. Department of Commerce. Hours and related measures were revised back to 2007 for the business, nonfarm business, and nonfinancial corporate sectors. These revisions were due to the incorporation of 2012 Economic Census data on employment, as well as revised NIPA data on government enterprises employment and the proportion of sector compensation paid to employees of nonprofit institutions and nonfinancial corporations. Measures of manufacturing output and all related measures were revised back to 1987 to reflect revised output indexes constructed by the BLS using data from the U.S. Department of Commerce.

Table B presents revised and previous productivity and related measures for the nonfarm business, business, and manufacturing sectors for the first quarter of 2016, and table C presents annual data for nonfarm business and total manufacturing from 2013 to 2015. Revised quarterly and annual series for all sectors in recent years appear in tables 1-6 and appendix tables 1-6. Indexes of all hours-related measures in the business, nonfarm business, and nonfinancial corporate sectors show historical revisions because hours in the base year of 2009 were revised; resulting revisions to percent changes are small. Complete annual and quarterly data series can be found on the Productivity and Costs home page: www.bls.gov/lpc/#data.

Nonfarm business sector productivity decreased 0.6 percent in the **first quarter of 2016**—the same as the preliminary estimate—as a small downward revision to output was offset by a small downward revision to hours. Due to a 4.7-percentage point downward revision to first-quarter hourly compensation, unit labor costs decreased 0.2 percent in the first quarter of 2016, rather than increasing 4.5 percent as reported June 7. Real hourly compensation decreased 0.4 percent after revision, rather than the previously-published increase of 4.2 percent.

Annual Average productivity growth in the nonfarm business sector in 2015 was revised up to an increase of 0.9 percent. (See table C.) Productivity growth was unrevised in 2014 at 0.8 percent, and was revised up to an increase of 0.3 percent in 2013. The average annual rate of productivity growth from 2007 to 2015—the period affected by the revisions—was revised up from 1.2 percent to 1.3

percent per year, but still remains well below the long-term rate from 1947 to 2015 of 2.2 percent per year.

Manufacturing sector productivity increased 1.5 percent in the **first quarter of 2016**—slightly more than previously reported—reflecting both a small downward revision to hours and a small upward revision to output. Productivity decreased 0.2 percent in the durable goods sector and increased 4.0 percent in the nondurable goods sector. Unit labor costs decreased 5.9 percent in the manufacturing sector rather than increasing 1.1 percent as reported June 7, due to both the upward revision to productivity and a 7.1-percentage point downward revision to hourly compensation. Real hourly compensation decreased 4.3 percent, as revised.

Annual average manufacturing productivity grew 0.3 percent in 2015, slightly more than the previous estimate of 0.2 percent. Unit labor costs increased 2.2 percent, as revised. There were also **historical revisions** to manufacturing productivity for the complete series, going back to 1987. Productivity was revised slightly up in 2014 to an increase of 0.1 percent, and was revised down 0.5 percentage point to an increase of 0.2 percent in 2013. (See tables C, 3, 4, and 5.) Average annual productivity from 1987 to 2015 increased 3.3 percent, the same rate as was previously reported.

Nonfinancial corporate sector productivity growth was revised down in the **first quarter of 2016**, to an increase of 1.4 percent, rather than the previously-published increase of 2.5 percent; this revision was mainly due to a downward revision to output. Annual average productivity in the nonfinancial corporate sector increased 0.9 percent in 2015, the same rate as was previously reported. This measure was revised up 0.7 percentage point in 2014 to an increase of 1.2 percent, and was revised down slightly in 2013 to an increase of 0.8 percent. (See tables D and 6.)

The revised Productivity and Costs news release for second-quarter 2016 is scheduled to be released on Thursday, September 1, 2016 at 8:30 a.m. (EDT).

Table A. Preliminary second-quarter 2016 measures: percent change from previous quarter, at annual rate (Q to Q) and from same quarter a year ago (Y to Y)

Sector	Nonfarm Business		Business		Manufacturing		Durable Manufacturing		Nondurable Manufacturing	
	Q to Q	Y to Y	Q to Q	Y to Y	Q to Q	Y to Y	Q to Q	Y to Y	Q to Q	Y to Y
Labor Productivity	-0.5	-0.4	-0.7	-0.4	-0.2	0.9	2.6	1.3	-4.1	0.3
Output	1.2	1.1	1.4	1.3	-0.8	0.3	0.5	0.3	-2.4	0.3
Hours worked	1.8	1.5	2.1	1.7	-0.7	-0.6	-2.0	-1.0	1.8	-0.1
Hourly compensation	1.5	1.7	1.1	1.5	2.9	2.6	2.4	2.3	4.2	3.4
Real hourly compensation	-1.1	0.6	-1.4	0.4	0.4	1.5	-0.1	1.2	1.6	2.3
Unit labor costs	2.0	2.1	1.7	1.9	3.1	1.7	-0.1	1.0	8.7	3.0

Table B. Revised and previous measures: first quarter 2016

Sector	Nonfarm Business		Business		Manufacturing		Durable Manufacturing		Nondurable Manufacturing	
	Revised	Previous	Revised	Previous	Revised	Previous	Revised	Previous	Revised	Previous
Percent change, annual rate, first quarter 2016										
Labor Productivity	-0.6	-0.6	-0.7	-0.7	1.5	1.3	-0.2	-0.6	4.0	4.2
Output	0.7	0.9	0.8	0.8	0.7	0.6	0.0	-0.2	1.5	1.6
Hours worked	1.4	1.5	1.5	1.6	-0.8	-0.7	0.2	0.4	-2.5	-2.5
Hourly compensation	-0.8	3.9	-0.9	3.8	-4.6	2.5	-5.9	1.6	-2.1	4.0
Real hourly compensation	-0.4	4.2	-0.5	4.1	-4.3	2.8	-5.6	1.9	-1.8	4.3
Unit labor costs	-0.2	4.5	-0.2	4.5	-5.9	1.1	-5.7	2.2	-5.9	-0.2

Table C. Revised and previous annual average measures: 2013-2015

Sector	Nonfarm Business						Manufacturing					
	2015		2014		2013		2015		2014		2013	
	Revised	Previous	Revised	Previous	Revised	Previous	Revised	Previous	Revised	Previous	Revised	Previous
Percent change												
Labor productivity	0.9	0.7	0.8	0.8	0.3	0.0	0.3	0.2	0.1	-0.1	0.2	0.7
Output	3.1	2.9	3.0	3.0	2.0	1.7	1.2	1.1	1.7	1.5	1.0	1.5
Hours worked	2.1	2.1	2.2	2.2	1.7	1.7	0.8	0.8	1.6	1.6	0.8	0.8
Hourly compensation	2.9	3.0	2.8	2.8	1.2	1.1	2.5	2.5	2.8	2.7	0.2	0.2
Real hourly compensation	2.8	2.9	1.1	1.2	-0.3	-0.4	2.4	2.4	1.1	1.1	-1.2	-1.2
Unit labor costs	2.0	2.3	2.0	2.0	0.9	1.1	2.2	2.3	2.7	2.8	0.0	-0.5

Table D. Nonfinancial corporations: revised and previous first-quarter 2016 measures, and revised annual measures 2013-2015

	Labor productivity	Output	Hours worked	Hourly compensation	Real hourly compensation	Unit labor costs	Unit profits	Implicit price deflator
	Percent change, annual rate, first quarter 2016							
Q to Q Revised	1.4	2.0	0.6	-1.8	-1.5	-3.1	30.6	-2.0
Q to Q Previous	2.5	3.2	0.7	3.8	4.2	1.3	13.4	-2.0
	Percent change, annual average							
2015	0.9	3.2	2.2	2.9	2.8	2.0	-6.6	0.3
2014	1.2	3.9	2.7	2.5	0.8	1.3	1.5	0.8
2013	0.8	2.9	2.0	1.4	-0.1	0.5	4.0	0.8

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 domestic employees 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, or by contacting the BLS Division of Major Sector Productivity (Telephone 202-691-5606 or email 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.

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 II	-0.7	1.4	2.1	1.1	-1.4	1.7	3.0	2.3
I	-0.7	0.8	1.5 r	-0.9 r	-0.5 r	-0.2 r	1.1 r	0.4 r
2015 ANNUAL	0.8 r	3.1 r	2.3	2.8	2.7	2.0 r	-1.0 r	0.7
2015 IV	-2.5 r	0.8 r	3.4	2.9 r	2.1 r	5.5 r	-6.7 r	0.1 r
III	2.3 r	2.1 r	-0.2	2.9 r	1.6 r	0.6 r	1.3 r	0.9
II	1.5 r	3.0 r	1.6	5.1 r	2.6 r	3.6 r	0.0 r	2.1 r
I	0.7 r	2.3 r	1.6	1.6	4.6	0.9 r	-2.1 r	-0.4 r
2014 ANNUAL	0.6 r	3.0	2.3	2.6 r	1.0	2.0	1.0 r	1.6 r
2014 IV	-1.8 r	2.8 r	4.7	3.3 r	3.6 r	5.1 r	-6.5 r	-0.1 r
III	3.4 r	6.4 r	2.9	3.2 r	2.3 r	-0.2 r	3.3 r	1.3 r
II	1.8 r	5.0 r	3.1	-1.8 r	-3.8 r	-3.6 r	10.4 r	2.3
I	-3.6 r	-2.0 r	1.6	6.5 r	4.1 r	10.4 r	-8.9 r	1.5

Percent change from corresponding quarter of previous year								
2016 II	-0.4	1.3	1.7	1.5	0.4	1.9	-0.4	0.9
I	0.1 r	1.7 r	1.6	2.5 r	1.4 r	2.4 r	-1.1 r	0.9
2015 ANNUAL	0.8 r	3.1 r	2.3	2.8	2.7	2.0 r	-1.0 r	0.7
2015 IV	0.5 r	2.1 r	1.6	3.1 r	2.7 r	2.6 r	-1.9 r	0.7 r
III	0.7	2.6	1.9	3.2	3.1	2.5 r	-1.8 r	0.6
II	0.9 r	3.6 r	2.7	3.3	3.3	2.3 r	-1.4 r	0.7
I	1.0 r	4.1 r	3.1	1.5 r	1.6 r	0.5 r	1.1 r	0.8 r
2014 ANNUAL	0.6 r	3.0	2.3	2.6 r	1.0	2.0	1.0 r	1.6 r
2014 IV	-0.1	3.0	3.1	2.7	1.5	2.8	-0.7 r	1.3 r
III	1.3	3.6	2.3	2.4	0.6 r	1.0 r	2.6 r	1.7 r
II	0.9 r	3.1 r	2.2	1.8 r	-0.3 r	0.9	3.1 r	1.8 r
I	0.4 r	2.1 r	1.7	3.7	2.2 r	3.3	-1.0 r	1.4 r

Indexes 2009=100								
2016 II	105.8	119.0	112.5	115.7	103.7	109.4	111.6	110.3
I	106.0 r	118.6 r	111.9 r	115.4 r	104.1 r	108.9 r	110.8 r	109.7 r
2015 ANNUAL	106.2 r	117.6 r	110.7 r	114.3 r	103.4 r	107.5 r	111.7 r	109.3 r
2015 IV	106.1 r	118.3 r	111.5 r	115.6 r	104.2 r	108.9 r	110.5 r	109.6 r
III	106.8 r	118.1 r	110.6 r	114.8 r	103.7 r	107.5 r	112.4 r	109.5 r
II	106.2 r	117.5 r	110.6 r	114.0 r	103.3 r	107.3 r	112.0 r	109.3 r
I	105.8 r	116.6 r	110.2 r	112.6 r	102.6 r	106.4 r	112.0 r	108.7 r
2014 ANNUAL	105.4 r	114.1 r	108.2 r	111.1 r	100.7 r	105.4 r	112.9 r	108.5 r
2014 IV	105.6 r	115.9 r	109.7 r	112.1 r	101.5 r	106.1 r	112.6 r	108.9 r
III	106.1 r	115.1 r	108.5 r	111.2	100.6 r	104.8 r	114.5 r	108.9 r
II	105.2 r	113.4 r	107.7 r	110.4 r	100.0 r	104.9 r	113.6 r	108.5 r
I	104.8 r	112.0 r	106.9 r	110.9 r	101.0 r	105.8 r	110.8 r	107.9 r

See footnotes following Table 6.
r=revised

August 9, 2016
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 II	-0.5	1.2	1.8	1.5	-1.1	2.0	3.0	2.4
I	-0.6	0.7 r	1.4 r	-0.8 r	-0.4 r	-0.2 r	1.8 r	0.7 r
2015 ANNUAL	0.9 r	3.1 r	2.1	2.9 r	2.8 r	2.0 r	-0.4 r	1.0
2015 IV	-2.4 r	0.8 r	3.3	3.1 r	2.3 r	5.7 r	-6.2 r	0.5 r
III	2.0	1.8	-0.2	2.9 r	1.5 r	0.8 r	1.1 r	1.0
II	1.2 r	3.1 r	1.9	4.8 r	2.2 r	3.6 r	-0.1 r	2.0 r
I	1.1 r	2.4 r	1.3	1.8	4.8	0.7 r	-0.1 r	0.4 r
2014 ANNUAL	0.8	3.0	2.2	2.8	1.1 r	2.0	1.3 r	1.7 r
2014 IV	-1.6 r	2.7 r	4.4	3.6 r	3.9 r	5.2 r	-6.3 r	0.1 r
III	4.2 r	6.5 r	2.3	3.9 r	3.0 r	-0.2 r	4.5 r	1.8
II	2.0 r	5.1 r	3.0	-1.7 r	-3.6 r	-3.7 r	9.8 r	1.9
I	-3.7 r	-1.8 r	2.0	6.2 r	3.8 r	10.2 r	-9.2 r	1.4 r

Percent change from corresponding quarter of previous year								
2016 II	-0.4	1.1	1.5	1.7	0.6	2.1	-0.1	1.1
I	0.0 r	1.6 r	1.6	2.5 r	1.4 r	2.5 r	-0.9 r	1.0 r
2015 ANNUAL	0.9 r	3.1 r	2.1	2.9 r	2.8 r	2.0 r	-0.4 r	1.0
2015 IV	0.4 r	2.0 r	1.6	3.1 r	2.7 r	2.7 r	-1.4 r	0.9 r
III	0.7 r	2.5	1.8	3.2 r	3.1	2.6 r	-1.4 r	0.8
II	1.2 r	3.7 r	2.5	3.5	3.5	2.3 r	-0.6 r	1.0
I	1.4 r	4.2 r	2.7	1.9	2.0	0.5 r	1.8 r	1.0 r
2014 ANNUAL	0.8	3.0	2.2	2.8	1.1 r	2.0	1.3 r	1.7 r
2014 IV	0.2 r	3.1 r	2.9	2.9	1.7	2.7 r	-0.6 r	1.3 r
III	1.6 r	3.8 r	2.2	2.6	0.8	1.0 r	3.0 r	1.8 r
II	1.0	3.1 r	2.1	1.9 r	-0.1	0.9	3.4 r	2.0 r
I	0.3 r	2.0 r	1.7	3.8	2.3 r	3.4	-0.4 r	1.8 r

Indexes 2009=100								
2016 II	106.0	119.0	112.3	116.1	104.0	109.5	111.6	110.4
I	106.2 r	118.7 r	111.8 r	115.7 r	104.3 r	108.9 r	110.8 r	109.7 r
2015 ANNUAL	106.5 r	117.8 r	110.6 r	114.5 r	103.6 r	107.5 r	111.5 r	109.2 r
2015 IV	106.3 r	118.5 r	111.4 r	115.9 r	104.4 r	109.0 r	110.3 r	109.5 r
III	107.0 r	118.2 r	110.5 r	115.0 r	103.8 r	107.5 r	112.1 r	109.4 r
II	106.4 r	117.7 r	110.6 r	114.2 r	103.4 r	107.3 r	111.8 r	109.1 r
I	106.1 r	116.8 r	110.1 r	112.9 r	102.9 r	106.3 r	111.8 r	108.6 r
2014 ANNUAL	105.5 r	114.3 r	108.3 r	111.2 r	100.8 r	105.4 r	111.9 r	108.1 r
2014 IV	105.9 r	116.1 r	109.7 r	112.4 r	101.7 r	106.1 r	111.8 r	108.5 r
III	106.3 r	115.3 r	108.5 r	111.4 r	100.7 r	104.8 r	113.7 r	108.5 r
II	105.2 r	113.5 r	107.9 r	110.3 r	100.0 r	104.9 r	112.4 r	108.0 r
I	104.7 r	112.1 r	107.1 r	110.8 r	100.9 r	105.8 r	109.8 r	107.5 r

See footnotes following Table 6.
r=revised

August 9, 2016
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 II	-0.2	-0.8	-0.7	2.9	0.4	3.1
I	1.5 r	0.7 r	-0.8 r	-4.6 r	-4.3 r	-5.9 r
2015 ANNUAL	0.3 r	1.2 r	0.8	2.5	2.4	2.2 r
2015 IV	-1.1 r	-0.5	0.6	8.2 r	7.4 r	9.5 r
III	3.7	1.9	-1.7	4.4 r	3.0 r	0.7 r
II	1.5	0.6	-0.9	5.4 r	2.9 r	3.8 r
I	-1.7	-1.4	0.3	-1.9 r	1.0 r	-0.2 r
2014 ANNUAL	0.1 r	1.7 r	1.6	2.8 r	1.1	2.7 r
2014 IV	-1.1 r	2.7 r	3.9	3.7 r	4.1 r	4.9 r
III	1.2 r	2.8 r	1.6	3.3 r	2.4 r	2.0 r
II	1.9 r	5.3 r	3.4	-2.6 r	-4.5 r	-4.4 r
I	0.9 r	-0.3 r	-1.2	10.4 r	8.0 r	9.5 r

Percent change from corresponding quarter of previous year						
2016 II	0.9	0.3	-0.6	2.6	1.5	1.7
I	1.4 r	0.7 r	-0.7	3.3 r	2.2 r	1.9 r
2015 ANNUAL	0.3 r	1.2 r	0.8	2.5	2.4	2.2 r
2015 IV	0.6	0.1	-0.4	4.0 r	3.5 r	3.4 r
III	0.6	1.0 r	0.4	2.9	2.7 r	2.3 r
II	0.0 r	1.2 r	1.2	2.6	2.6	2.6 r
I	0.1 r	2.4 r	2.3	0.6 r	0.7 r	0.5 r
2014 ANNUAL	0.1 r	1.7 r	1.6	2.8 r	1.1	2.7 r
2014 IV	0.7 r	2.6 r	1.9	3.6 r	2.4 r	2.9 r
III	0.5 r	2.4 r	1.9	2.4 r	0.6 r	1.8 r
II	-0.4 r	1.5 r	2.0	1.8	-0.3 r	2.2 r
I	-0.5 r	0.0 r	0.5	3.3	1.9	3.8 r

Indexes 2009=100						
2016 II	120.4	129.0	107.2	112.8	101.1	93.7
I	120.4 r	129.3 r	107.4 r	112.0 r	101.0 r	93.0 r
2015 ANNUAL	119.6 r	128.8 r	107.7	110.7 r	100.2 r	92.5 r
2015 IV	120.0 r	129.1 r	107.6	113.3 r	102.1 r	94.4 r
III	120.3 r	129.2 r	107.4	111.1 r	100.3 r	92.3 r
II	119.3 r	128.6 r	107.9	109.9 r	99.5 r	92.1 r
I	118.8 r	128.4 r	108.1	108.4 r	98.8 r	91.3 r
2014 ANNUAL	119.2 r	127.4 r	106.8	107.9 r	97.8 r	90.5 r
2014 IV	119.3 r	128.9 r	108.0	109.0 r	98.6 r	91.3 r
III	119.6 r	128.0 r	107.0	108.0 r	97.6 r	90.2 r
II	119.3 r	127.1 r	106.6	107.1 r	97.0 r	89.8 r
I	118.7 r	125.5 r	105.7	107.8 r	98.2 r	90.8 r

See footnotes following Table 6.
r=revised

August 9, 2016
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 II	2.6	0.5	-2.0	2.4	-0.1	-0.1
I	-0.2 r	0.0 r	0.2 r	-5.9 r	-5.6 r	-5.7 r
2015 ANNUAL	0.0	0.5	0.5	3.0 r	2.8 r	2.9 r
2015 IV	-2.1	-1.4	0.7	9.4 r	8.5 r	11.8 r
III	5.1	2.3	-2.7	3.9 r	2.5 r	-1.1 r
II	2.2	0.5	-1.7	5.2 r	2.6 r	2.9 r
I	-4.0	-4.0	0.1	-0.4 r	2.5 r	3.8 r
2014 ANNUAL	0.7 r	2.8 r	2.1	2.4 r	0.7 r	1.7 r
2014 IV	-0.4 r	1.9 r	2.3	4.3 r	4.6 r	4.7 r
III	0.8	3.7 r	2.9	3.4 r	2.5 r	2.6 r
II	2.1 r	7.2	4.9	-2.7 r	-4.6 r	-4.7 r
I	1.5 r	0.4 r	-1.1	10.6 r	8.2 r	9.0 r

Percent change from corresponding quarter of previous year						
2016 II	1.3	0.3	-1.0	2.3	1.2	1.0
I	1.2 r	0.3	-0.9 r	3.0 r	1.9 r	1.7 r
2015 ANNUAL	0.0	0.5	0.5	3.0 r	2.8 r	2.9 r
2015 IV	0.2	-0.7	-0.9	4.5 r	4.0 r	4.2 r
III	0.7	0.2	-0.5	3.2 r	3.1 r	2.5 r
II	-0.4	0.5	0.9	3.1 r	3.1 r	3.5 r
I	-0.4	2.1 r	2.5	1.1 r	1.2 r	1.5 r
2014 ANNUAL	0.7 r	2.8 r	2.1	2.4 r	0.7 r	1.7 r
2014 IV	1.0 r	3.3	2.2	3.8 r	2.6 r	2.8 r
III	1.0 r	3.9 r	2.9	1.7 r	-0.1 r	0.7 r
II	0.3 r	3.0 r	2.6	1.3	-0.8	0.9 r
I	0.3 r	1.0 r	0.7	2.7	1.3	2.4 r

Indexes 2009=100						
2016 II	122.2	134.1	109.7	111.5	99.9	91.2
I	121.4 r	133.9 r	110.3 r	110.9 r	100.0 r	91.3 r
2015 ANNUAL	121.1 r	133.8 r	110.6	109.8 r	99.4 r	90.7 r
2015 IV	121.5 r	133.9 r	110.2	112.6 r	101.4 r	92.6 r
III	122.2 r	134.4 r	110.0	110.1 r	99.4 r	90.1 r
II	120.7 r	133.6 r	110.8	109.0 r	98.8 r	90.4 r
I	120.0 r	133.5 r	111.2	107.6 r	98.1 r	89.7 r
2014 ANNUAL	121.0 r	133.1 r	110.0	106.7 r	96.7 r	88.1 r
2014 IV	121.2 r	134.8 r	111.2	107.8 r	97.5 r	88.9 r
III	121.3 r	134.2 r	110.6	106.6 r	96.4 r	87.9 r
II	121.1 r	132.9 r	109.8	105.8 r	95.8 r	87.3 r
I	120.5 r	130.7 r	108.5	106.5 r	97.0 r	88.4 r

See footnotes following Table 6.
r=revised

August 9, 2016
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 II	-4.1	-2.4	1.8	4.2	1.6	8.7
I	4.0 r	1.5 r	-2.5	-2.1 r	-1.8 r	-5.9 r
2015 ANNUAL	0.5 r	1.9 r	1.5	1.7 r	1.6 r	1.3 r
2015 IV	0.1	0.6	0.5	6.1 r	5.2 r	6.0 r
III	1.5	1.4	-0.1	5.5 r	4.1 r	4.0 r
II	0.3	0.7	0.4	6.1 r	3.5 r	5.8 r
I	1.0	1.8	0.8	-4.7 r	-1.8 r	-5.6 r
2014 ANNUAL	0.0 r	0.6 r	0.6	3.4 r	1.8	3.5 r
2014 IV	-2.7 r	3.7 r	6.6	3.0 r	3.4 r	5.8 r
III	2.6 r	1.9 r	-0.7	2.9 r	2.0 r	0.3 r
II	2.5 r	3.3 r	0.8	-2.6 r	-4.5 r	-5.0 r
I	0.3 r	-1.0 r	-1.3	10.0 r	7.6 r	9.7 r

Percent change from corresponding quarter of previous year						
2016 II	0.3	0.3	-0.1	3.4	2.3	3.0
I	1.5	1.0 r	-0.4	3.8 r	2.7 r	2.3 r
2015 ANNUAL	0.5 r	1.9 r	1.5	1.7 r	1.6 r	1.3 r
2015 IV	0.7	1.1	0.4	3.2 r	2.7 r	2.4 r
III	0.0 r	1.9 r	1.9	2.4 r	2.3 r	2.4 r
II	0.3 r	2.0 r	1.7	1.8 r	1.7 r	1.5 r
I	0.8 r	2.7 r	1.8	-0.4 r	-0.3 r	-1.2 r
2014 ANNUAL	0.0 r	0.6 r	0.6	3.4 r	1.8	3.5 r
2014 IV	0.7 r	2.0 r	1.3	3.2	2.0	2.6 r
III	0.7 r	1.0 r	0.2	3.5 r	1.8	2.8 r
II	-0.7 r	0.2 r	0.8	2.6 r	0.5 r	3.3 r
I	-0.9 r	-0.7 r	0.2	4.4	2.9 r	5.3 r

Indexes 2009=100						
2016 II	113.2	116.7	103.2	114.6	102.7	101.3
I	114.4 r	117.5 r	102.7	113.5 r	102.3 r	99.2 r
2015 ANNUAL	113.0 r	116.6 r	103.2	111.7 r	101.1 r	98.8 r
2015 IV	113.2 r	117.0 r	103.3	114.1 r	102.8 r	100.7 r
III	113.2 r	116.8 r	103.2	112.4 r	101.5 r	99.3 r
II	112.8 r	116.4 r	103.2	110.9 r	100.5 r	98.3 r
I	112.7 r	116.2 r	103.1	109.3 r	99.6 r	96.9 r
2014 ANNUAL	112.5 r	114.4 r	101.7	109.7 r	99.5 r	97.6 r
2014 IV	112.4 r	115.7 r	102.9	110.6 r	100.1 r	98.3 r
III	113.2 r	114.7 r	101.3	109.7 r	99.2 r	96.9 r
II	112.5 r	114.1 r	101.5	109.0 r	98.7 r	96.9 r
I	111.8 r	113.2 r	101.3	109.7 r	99.9 r	98.1 r

See footnotes following Table 6.
r=revised

August 9, 2016
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 I	1.4 r	2.0 r	0.6 r	-1.8 r	-1.5 r	-3.1 r	-12.1 r	-6.1 r	30.6 r	-2.0
2015 ANNUAL	0.9	3.2 r	2.2	2.9 r	2.8 r	2.0 r	0.6 r	1.5 r	-6.6 r	0.3 r
2015 IV	-0.8 r	2.7	3.6	1.9 r	1.1 r	2.7 r	13.7 r	6.1 r	-37.1 r	-1.0 r
III	1.1 r	2.6 r	1.5	1.9 r	0.6 r	0.8 r	0.7 r	0.8 r	0.0 r	0.7 r
II	1.5 r	2.4 r	0.9	3.9 r	1.4 r	2.3 r	0.1 r	1.6 r	-17.0 r	-1.3 r
I	-1.2 r	0.2 r	1.4	5.8 r	8.9 r	7.0 r	1.2 r	5.1 r	-11.6 r	2.4 r
2014 ANNUAL	1.2 r	3.9 r	2.7	2.5	0.8	1.3 r	-0.4 r	0.7 r	1.5 r	0.8 r
2014 IV	1.5 r	4.9 r	3.4	1.7 r	2.0 r	0.2 r	-1.2 r	-0.3 r	-5.5 r	-1.1 r
III	4.2 r	7.0 r	2.7	2.1 r	1.3 r	-2.0 r	-2.1 r	-2.0 r	15.0 r	0.4 r
II	1.1	6.2	5.0	-2.6 r	-4.5 r	-3.7 r	-1.4 r	-3.0 r	37.2 r	2.0 r
I	1.0 r	2.7 r	1.6	9.3 r	6.9 r	8.1 r	0.3 r	5.5 r	-19.9 r	1.5 r
Percent change from corresponding quarter of previous year										
2016 I	0.8	2.4 r	1.6 r	1.5 r	0.4 r	0.7 r	0.2 r	0.5 r	-9.1 r	-0.9 r
2015 ANNUAL	0.9	3.2 r	2.2	2.9 r	2.8 r	2.0 r	0.6 r	1.5 r	-6.6 r	0.3 r
2015 IV	0.2 r	2.0 r	1.8	3.4 r	2.9 r	3.2 r	3.8 r	3.4	-17.6 r	0.2 r
III	0.7 r	2.5 r	1.8	3.3 r	3.2 r	2.6 r	0.2 r	1.8 r	-8.7 r	0.2 r
II	1.5 r	3.6 r	2.1	3.3 r	3.3 r	1.8 r	-0.5 r	1.1 r	-5.5 r	0.1 r
I	1.4	4.6	3.1	1.7 r	1.8 r	0.3 r	-0.9 r	-0.1 r	7.2 r	0.9 r
2014 ANNUAL	1.2 r	3.9 r	2.7	2.5	0.8	1.3 r	-0.4 r	0.7 r	1.5 r	0.8 r
2014 IV	1.9 r	5.2 r	3.2	2.5	1.3 r	0.6 r	-1.1 r	0.0 r	4.5 r	0.7 r
III	1.8 r	4.8 r	2.9	2.3	0.6 r	0.5 r	-0.7 r	0.1 r	6.3 r	1.0 r
II	0.0 r	2.8 r	2.8	1.8	-0.3	1.7 r	0.5 r	1.3 r	2.1 r	1.4 r
I	0.9 r	2.9 r	1.9	3.4	1.9	2.4 r	-0.2 r	1.6 r	-7.0 r	0.3 r
Indexes 2009=100										
2016 I	110.4 r	125.9 r	114.1 r	114.3 r	103.1 r	103.6 r	97.3 r	101.5 r	135.6 r	105.1 r
2015 ANNUAL	109.9 r	124.1 r	112.9 r	113.9 r	103.1 r	103.7 r	98.1 r	101.8 r	140.2 r	105.8 r
2015 IV	110.0 r	125.3 r	114.0 r	114.9 r	103.5 r	104.4 r	100.5 r	103.1 r	126.9 r	105.6 r
III	110.2 r	124.5 r	113.0 r	114.3 r	103.2 r	103.7 r	97.4 r	101.6 r	142.5 r	105.9 r
II	109.9 r	123.7 r	112.5 r	113.8 r	103.1 r	103.5 r	97.2 r	101.4 r	142.5 r	105.7 r
I	109.5 r	122.9 r	112.3 r	112.7 r	102.7 r	102.9 r	97.2 r	101.0 r	149.3 r	106.1 r
2014 ANNUAL	108.9 r	120.3 r	110.5 r	110.7 r	100.3 r	101.6 r	97.5 r	100.2 r	150.1 r	105.5 r
2014 IV	109.8 r	122.9 r	111.9 r	111.1 r	100.6 r	101.2 r	96.9 r	99.8 r	153.9 r	105.4 r
III	109.4 r	121.4 r	111.0 r	110.7 r	100.1 r	101.1 r	97.2 r	99.8 r	156.1 r	105.7 r
II	108.3 r	119.4 r	110.2 r	110.1 r	99.8 r	101.6 r	97.7 r	100.3 r	150.8 r	105.6 r
I	108.0 r	117.6 r	108.9 r	110.8 r	100.9 r	102.6 r	98.1 r	101.1 r	139.3 r	105.1 r

See footnotes following Table 6.
r=revised

August 9, 2016
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 first 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.

Business sector: Revised 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)								
2013 ANNUAL	0.7 r	2.2 r	1.5	1.4 r	-0.1 r	0.6 r	2.7 r	1.5
2013 IV	3.8 r	5.4 r	1.5	1.9 r	0.1 r	-1.9 r	6.5 r	1.7 r
III	1.6 r	4.1 r	2.5	0.8 r	-1.3 r	-0.8 r	5.5 r	1.9 r
II	-0.2 r	1.1 r	1.2 r	5.8 r	6.3 r	5.9 r	-6.2 r	0.5 r
I	2.6 r	3.7 r	1.1	-8.0 r	-9.5 r	-10.4 r	19.7 r	1.5 r
2012 ANNUAL	0.7	2.9	2.2 r	2.8	0.7	2.0	1.7	1.9
2012 IV	-1.7 r	0.2	1.9 r	11.2	8.1	13.2	-12.3	1.4
III	-1.1	0.6	1.7	0.4	-1.3	1.5	3.4	2.4
II	2.2	2.6	0.4 r	2.4	1.6	0.2	4.7	2.1
I	0.1	3.4	3.3	9.7	7.1 r	9.6	-7.5	1.7
2011 ANNUAL	0.0 r	2.1	2.1 r	2.1	-1.0	2.1	2.3	2.2
2011 IV	3.3	6.1	2.7	-4.7	-6.4 r	-7.7	12.9	0.8
III	-1.0 r	1.1	2.1	2.2	-0.4	3.2	2.1	2.7
II	1.0 r	3.8	2.8 r	-1.9	-6.3 r	-2.9	11.7	3.1
I	-3.3	-2.2	1.2	6.9 r	2.5	10.6	-9.1	1.7

Percent change from corresponding quarter of previous year								
2013 ANNUAL	0.7 r	2.2 r	1.5	1.4 r	-0.1 r	0.6 r	2.7 r	1.5
2013 IV	2.0 r	3.6 r	1.6	0.0 r	-1.3	-2.0 r	6.0 r	1.4 r
III	0.6 r	2.3 r	1.7	2.2 r	0.7 r	1.6 r	1.0 r	1.3
II	-0.1 r	1.4 r	1.5	2.1 r	0.7 r	2.2 r	0.5 r	1.4 r
I	0.5 r	1.7 r	1.3	1.2 r	-0.5 r	0.8 r	3.3 r	1.9
2012 ANNUAL	0.7	2.9	2.2 r	2.8	0.7	2.0	1.7	1.9
2012 IV	-0.2	1.7	1.8	5.8	3.8	6.0	-3.2	1.9
III	1.1	3.1	2.0	1.8	0.1 r	0.7	3.2 r	1.8
II	1.1 r	3.3	2.1	2.3	0.4	1.1	2.8	1.8
I	0.8 r	3.6	2.7	1.2	-1.6	0.3	4.5	2.1
2011 ANNUAL	0.0 r	2.1	2.1 r	2.1	-1.0	2.1	2.3	2.2
2011 IV	0.0	2.2	2.2	0.5 r	-2.7	0.6	4.0	2.1
III	-0.5	1.5	2.0	2.1 r	-1.5	2.7	2.2	2.5
II	0.3	2.2	2.0 r	2.1	-1.2	1.8	2.8	2.2
I	0.4	2.5	2.1	3.7 r	1.5 r	3.3	-0.1	1.8

Indexes 2009=100								
2013 ANNUAL	104.8 r	110.8 r	105.8 r	108.3 r	99.8 r	103.4 r	111.8 r	106.9 r
2013 IV	105.7 r	112.6 r	106.5 r	109.1 r	100.0 r	103.3 r	113.4 r	107.5 r
III	104.7 r	111.1 r	106.1 r	108.6 r	99.9 r	103.7 r	111.6 r	107.1 r
II	104.3 r	110.0 r	105.4 r	108.4 r	100.3 r	104.0 r	110.1 r	106.6 r
I	104.3 r	109.7 r	105.1 r	106.9 r	98.8 r	102.5 r	111.9 r	106.4 r
2012 ANNUAL	104.0 r	108.4	104.2 r	106.9 r	99.9 r	102.7 r	108.9 r	105.3
2012 IV	103.7 r	108.7	104.8 r	109.2 r	101.2 r	105.3 r	107.0 r	106.0
III	104.1 r	108.6	104.3 r	106.3 r	99.3 r	102.1 r	110.6 r	105.7
II	104.4 r	108.5	103.9 r	106.2 r	99.6 r	101.7 r	109.6 r	105.0
I	103.9 r	107.8	103.8 r	105.6 r	99.2 r	101.7 r	108.4 r	104.5
2011 ANNUAL	103.3 r	105.3	102.0 r	104.0 r	99.2 r	100.7 r	107.0 r	103.3
2011 IV	103.9 r	106.9	102.9 r	103.2 r	97.5 r	99.4 r	110.5 r	104.0
III	103.0 r	105.3	102.3 r	104.5 r	99.2 r	101.4 r	107.2 r	103.8
II	103.3 r	105.1	101.7 r	103.9 r	99.3 r	100.6 r	106.6 r	103.1
I	103.0 r	104.1	101.0 r	104.4 r	100.9 r	101.4 r	103.7 r	102.3

See footnotes following Table 6.
r=revisedAugust 9, 2016
Source: Bureau of Labor Statistics

Appendix table 2.

Nonfarm business sector: Revised 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)								
2013 ANNUAL	0.3 r	2.0 r	1.7	1.2 r	-0.3 r	0.9 r	2.4 r	1.5
2013 IV	4.1 r	5.6 r	1.4 r	2.1 r	0.3 r	-1.9 r	8.0 r	2.3 r
III	1.7 r	3.8 r	2.0 r	1.2 r	-0.9 r	-0.5	6.2 r	2.3 r
II	-0.7 r	0.6 r	1.3 r	5.7 r	6.3 r	6.5 r	-5.6 r	1.1 r
I	1.3 r	2.8 r	1.6	-8.6 r	-10.0 r	-9.7 r	17.7 r	1.1 r
2012 ANNUAL	0.9	3.1	2.2	2.7	0.6	1.7	2.1	1.9
2012 IV	-2.0	0.2	2.2 r	10.9	7.8	13.2	-13.2	1.1
III	-0.8 r	1.0	1.9	0.2	-1.5	1.1	3.4	2.1
II	2.3	2.7	0.4	2.2	1.4 r	-0.1	5.3	2.2
I	0.6 r	3.9	3.2	9.6 r	7.0 r	8.9	-6.9 r	1.7
2011 ANNUAL	0.1 r	2.2	2.1 r	2.2	-0.9	2.1	1.4	1.8
2011 IV	3.1	5.8	2.7 r	-4.9 r	-6.5	-7.7	14.3	1.3
III	-0.8 r	1.1	1.9	2.5	-0.1	3.3	1.5	2.5
II	1.3	4.5	3.1	-2.3 r	-6.6	-3.5	12.0	2.8
I	-3.3	-2.5	0.9	7.3	2.9	11.0	-11.2	0.9

Percent change from corresponding quarter of previous year								
2013 ANNUAL	0.3 r	2.0 r	1.7	1.2 r	-0.3 r	0.9 r	2.4 r	1.5
2013 IV	1.6 r	3.2 r	1.6	0.0 r	-1.3	-1.6 r	6.3 r	1.7 r
III	0.1 r	1.9 r	1.8	2.1 r	0.5 r	2.0 r	0.6 r	1.4
II	-0.6 r	1.2 r	1.8	1.8 r	0.4 r	2.4 r	-0.1	1.3 r
I	0.2 r	1.7 r	1.5	1.0 r	-0.8 r	0.8 r	2.7 r	1.6
2012 ANNUAL	0.9	3.1	2.2	2.7	0.6	1.7	2.1	1.9
2012 IV	0.0	2.0	1.9	5.6 r	3.6 r	5.6	-3.1	1.8
III	1.3	3.4	2.0	1.7	0.0	0.4	3.8	1.8
II	1.3	3.4	2.1 r	2.2 r	0.3 r	0.9	3.3	1.9
I	1.0 r	3.8	2.7	1.1	-1.7	0.0 r	4.8	2.1
2011 ANNUAL	0.1 r	2.2	2.1 r	2.2	-0.9	2.1	1.4	1.8
2011 IV	0.0 r	2.2	2.2 r	0.5 r	-2.7	0.5	3.6	1.9
III	-0.3	1.7	2.0	2.3	-1.4	2.6	1.3	2.0
II	0.4	2.4	2.1 r	2.1	-1.2	1.7	1.8	1.8
I	0.4 r	2.5	2.1 r	3.9	1.7	3.4	-1.1	1.5

Indexes 2009=100								
2013 ANNUAL	104.7 r	110.9 r	106.0 r	108.2 r	99.6 r	103.3 r	110.5 r	106.3 r
2013 IV	105.6 r	112.6 r	106.6 r	109.1 r	99.9 r	103.3 r	112.5 r	107.1 r
III	104.6 r	111.1 r	106.2 r	108.6 r	99.9 r	103.8 r	110.3 r	106.5 r
II	104.1 r	110.1 r	105.7 r	108.2 r	100.1 r	103.9 r	108.7 r	105.9 r
I	104.3 r	109.9 r	105.3 r	106.8 r	98.6 r	102.3 r	110.3 r	105.6 r
2012 ANNUAL	104.3 r	108.8	104.2 r	106.9 r	99.9 r	102.5 r	107.9 r	104.7
2012 IV	104.0 r	109.1	104.9 r	109.2 r	101.2 r	105.0 r	105.9 r	105.3
III	104.5 r	109.1	104.4 r	106.4 r	99.3 r	101.8 r	109.7 r	105.1
II	104.7 r	108.8	103.9 r	106.3 r	99.7 r	101.5 r	108.8 r	104.5
I	104.1 r	108.1	103.8 r	105.7 r	99.3 r	101.5 r	107.4 r	104.0
2011 ANNUAL	103.4 r	105.5	102.0 r	104.1 r	99.4 r	100.7 r	105.7 r	102.8
2011 IV	104.0 r	107.0	102.9 r	103.3 r	97.7 r	99.4 r	109.3 r	103.5
III	103.2 r	105.5	102.3 r	104.6 r	99.3 r	101.4 r	105.7 r	103.2
II	103.4 r	105.2	101.8 r	104.0 r	99.4 r	100.6 r	105.3 r	102.6
I	103.1 r	104.1	101.0 r	104.6 r	101.1 r	101.5 r	102.4 r	101.9

See footnotes following Table 6.
r=revised

August 9, 2016
Source: Bureau of Labor Statistics

Appendix table 3.

Manufacturing sector: Revised 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)						
2013 ANNUAL	0.2 r	1.0 r	0.8	0.2	-1.2	0.0 r
2013 IV	-1.7 r	2.0 r	3.8	-1.2 r	-2.9 r	0.6 r
III	-2.6 r	-0.8 r	1.9	0.9 r	-1.2 r	3.6 r
II	1.7 r	-0.7 r	-2.4	3.5 r	4.0 r	1.8 r
I	0.5 r	2.6 r	2.1	-4.6 r	-6.1 r	-5.1 r
2012 ANNUAL	1.7 r	4.1 r	2.3	1.7	-0.3	0.0 r
2012 IV	1.7 r	1.8 r	0.0	4.3	1.4	2.6 r
III	-1.0 r	0.0 r	0.9	-1.3	-2.9	-0.3 r
II	0.2 r	1.9 r	1.7	1.1	0.3	0.9 r
I	3.4 r	6.5 r	3.1	9.6	7.0	6.0 r
2011 ANNUAL	5.5 r	7.7 r	2.1	1.7	-1.4	-3.6
2011 IV	0.3 r	5.2 r	4.9	-4.8	-6.5	-5.1 r
III	6.6 r	6.8 r	0.2	1.5	-1.1	-4.7 r
II	0.7 r	3.2 r	2.5	-2.1	-6.5	-2.8 r
I	5.8 r	8.2 r	2.3	3.3	-0.9	-2.3 r

Percent change from corresponding quarter of previous year						
2013 ANNUAL	0.2 r	1.0 r	0.8	0.2	-1.2	0.0 r
2013 IV	-0.6 r	0.8 r	1.3	-0.4 r	-1.6 r	0.2 r
III	0.3 r	0.7 r	0.4	1.0 r	-0.5 r	0.7 r
II	0.7 r	0.9 r	0.1	0.4	-0.9	-0.3 r
I	0.4 r	1.5 r	1.2	-0.2 r	-1.8 r	-0.5 r
2012 ANNUAL	1.7 r	4.1 r	2.3	1.7	-0.3	0.0 r
2012 IV	1.1 r	2.5 r	1.4	3.4	1.4	2.3 r
III	0.7 r	3.4 r	2.6	1.0	-0.6	0.3 r
II	2.6 r	5.1 r	2.5	1.7	-0.2	-0.8 r
I	2.7 r	5.4 r	2.7	0.9	-1.9	-1.7 r
2011 ANNUAL	5.5 r	7.7 r	2.1	1.7	-1.4	-3.6
2011 IV	3.3 r	5.8 r	2.5	-0.6	-3.8	-3.7 r
III	5.1	6.3	1.1	1.9	-1.7	-3.0
II	5.1 r	7.6 r	2.3	1.7	-1.6	-3.3 r
I	8.9 r	11.6 r	2.5	4.0	1.8	-4.5 r

Indexes 2009=100						
2013 ANNUAL	119.1 r	125.3 r	105.2	105.0 r	96.8 r	88.2 r
2013 IV	118.5 r	125.6 r	106.0	105.1 r	96.3 r	88.8 r
III	119.0 r	124.9 r	105.0	105.5 r	97.0 r	88.6 r
II	119.8 r	125.2 r	104.5	105.2 r	97.3 r	87.9 r
I	119.3 r	125.4 r	105.2	104.3 r	96.3 r	87.5 r
2012 ANNUAL	118.9 r	124.1 r	104.4	104.8	97.9	88.2 r
2012 IV	119.1 r	124.6 r	104.6	105.6	97.9	88.6 r
III	118.6 r	124.1 r	104.6	104.4	97.5	88.1 r
II	118.9 r	124.1 r	104.4	104.8	98.2	88.1 r
I	118.8 r	123.5 r	103.9	104.5	98.2	87.9 r
2011 ANNUAL	116.8 r	119.2 r	102.1	103.0	98.3	88.2 r
2011 IV	117.9 r	121.6 r	103.2	102.1	96.5	86.6 r
III	117.8 r	120.1 r	101.9	103.4	98.1	87.8 r
II	115.9 r	118.1 r	101.9	103.0	98.4	88.9 r
I	115.7 r	117.2 r	101.2	103.6	100.1	89.5 r

See footnotes following Table 6.
r=revised

August 9, 2016
Source: Bureau of Labor Statistics

Appendix table 4.

Durable manufacturing sector: Revised 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)						
2013 ANNUAL	0.1 r	1.2 r	1.1	-0.5 r	-1.9 r	-0.6 r
2013 IV	-0.4 r	4.4 r	4.9	-3.9 r	-5.6 r	-3.5 r
III	-1.9 r	0.0 r	1.9	1.7 r	-0.4 r	3.6 r
II	2.2 r	-0.6 r	-2.7	3.1 r	3.6 r	0.9 r
I	-0.7 r	2.9 r	3.6	-6.3 r	-7.8	-5.7 r
2012 ANNUAL	2.5 r	5.5 r	2.9	1.5	-0.6	-1.0 r
2012 IV	2.0 r	2.0 r	0.0	5.3	2.3	3.2 r
III	-2.1 r	-2.0 r	0.1	-2.3	-3.9	-0.2 r
II	1.1 r	3.4 r	2.2	-0.6	-1.4	-1.8 r
I	6.2 r	9.7 r	3.3	11.2	8.6	4.7 r
2011 ANNUAL	4.8 r	8.8 r	3.8	1.8	-1.3	-2.9
2011 IV	0.2 r	7.7 r	7.5	-6.0	-7.6	-6.1 r
III	8.3 r	8.2 r	-0.1	2.5	-0.1	-5.4 r
II	-2.7 r	2.1 r	4.9	-4.2	-8.5	-1.6 r
I	6.3 r	11.0 r	4.4	5.1	0.8	-1.1 r

Percent change from corresponding quarter of previous year						
2013 ANNUAL	0.1 r	1.2 r	1.1	-0.5 r	-1.9 r	-0.6 r
2013 IV	-0.2 r	1.7 r	1.9	-1.5 r	-2.7 r	-1.2 r
III	0.4 r	1.0 r	0.7	0.8 r	-0.7 r	0.5 r
II	0.3 r	0.5 r	0.2	-0.2 r	-1.6 r	-0.5 r
I	0.1 r	1.5 r	1.5	-1.1	-2.8	-1.2 r
2012 ANNUAL	2.5 r	5.5 r	2.9	1.5	-0.6	-1.0 r
2012 IV	1.8 r	3.2 r	1.4	3.2	1.3	1.5 r
III	1.3 r	4.6 r	3.2	0.4	-1.3	-0.9 r
II	3.9 r	7.2 r	3.2	1.6	-0.3	-2.2 r
I	2.9 r	6.9 r	3.9	0.7	-2.1	-2.2 r
2011 ANNUAL	4.8 r	8.8 r	3.8	1.8	-1.3	-2.9
2011 IV	2.9 r	7.2 r	4.2	-0.8	-4.0	-3.6 r
III	4.3 r	7.1 r	2.7	2.0	-1.6	-2.2
II	3.5	8.2	4.6	1.0	-2.3	-2.4
I	8.8	13.1 r	3.9	5.1	2.9	-3.4

Indexes 2009=100						
2013 ANNUAL	120.2 r	129.5 r	107.7	104.2 r	96.0 r	86.7 r
2013 IV	120.0 r	130.5 r	108.8	103.8 r	95.1 r	86.5 r
III	120.2 r	129.1 r	107.5	104.9 r	96.5 r	87.3 r
II	120.7 r	129.1 r	107.0	104.4 r	96.6 r	86.5 r
I	120.1 r	129.3 r	107.7	103.6 r	95.7 r	86.3 r
2012 ANNUAL	120.1 r	128.0 r	106.6	104.7	97.8	87.2 r
2012 IV	120.3 r	128.4 r	106.8	105.4	97.7	87.6 r
III	119.7 r	127.8 r	106.8	104.0	97.1	86.9 r
II	120.3 r	128.4 r	106.7	104.6	98.1	86.9 r
I	120.0 r	127.4 r	106.2	104.8	98.4	87.3 r
2011 ANNUAL	117.2 r	121.4 r	103.6	103.2	98.4	88.0 r
2011 IV	118.2 r	124.5 r	105.3	102.0	96.4	86.3 r
III	118.1 r	122.2 r	103.4	103.6	98.4	87.7 r
II	115.8 r	119.8 r	103.4	103.0	98.4	88.9 r
I	116.6 r	119.2 r	102.2	104.1	100.6	89.3 r

See footnotes following Table 6.
r=revisedAugust 9, 2016
Source: Bureau of Labor Statistics

Appendix table 5.

Nondurable manufacturing sector: Revised 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)						
2013 ANNUAL	0.9	1.2 r	0.2	1.5 r	0.0 r	0.6 r
2013 IV	-2.3 r	-0.3 r	2.1	4.1 r	2.3 r	6.6 r
III	-3.0 r	-1.3 r	1.8	-0.7 r	-2.8 r	2.4 r
II	1.6 r	-0.2 r	-1.7	4.4 r	4.9 r	2.8 r
I	3.6 r	3.0 r	-0.5	-1.4 r	-3.0 r	-4.8 r
2012 ANNUAL	0.6 r	1.8 r	1.3	2.1	0.0	1.5 r
2012 IV	1.9	2.0	0.1	2.6	-0.3	0.6
III	-0.1 r	2.3 r	2.3	1.0	-0.6	1.1 r
II	-0.8 r	0.0 r	0.8	4.3	3.5	5.2 r
I	-0.1 r	2.5 r	2.7	6.5	4.0	6.6 r
2011 ANNUAL	4.1	3.4	-0.7	1.2	-1.9	-2.8 r
2011 IV	0.7 r	1.4 r	0.7	-3.1	-4.8	-3.8 r
III	2.7 r	3.4 r	0.7	-0.2	-2.8	-2.8 r
II	3.4 r	2.0 r	-1.4	1.4	-3.1	-1.9 r
I	3.2 r	1.9 r	-1.2	-0.4	-4.5	-3.4 r

Percent change from corresponding quarter of previous year						
2013 ANNUAL	0.9	1.2 r	0.2	1.5 r	0.0 r	0.6 r
2013 IV	-0.1 r	0.3 r	0.4	1.6 r	0.3 r	1.7 r
III	1.0 r	0.9 r	-0.1	1.2 r	-0.3 r	0.2 r
II	1.7 r	1.8	0.0	1.6 r	0.2 r	-0.1 r
I	1.1 r	1.8 r	0.7	1.6 r	-0.1 r	0.5 r
2012 ANNUAL	0.6 r	1.8 r	1.3	2.1	0.0	1.5 r
2012 IV	0.2 r	1.7 r	1.5	3.6	1.6	3.4 r
III	-0.1 r	1.5 r	1.6	2.1	0.4	2.2 r
II	0.6 r	1.8 r	1.2	1.8	-0.1	1.2 r
I	1.7 r	2.3 r	0.7	1.1	-1.7	-0.6 r
2011 ANNUAL	4.1	3.4	-0.7	1.2	-1.9	-2.8 r
2011 IV	2.5 r	2.2 r	-0.3	-0.6	-3.8	-3.0 r
III	3.9	2.6 r	-1.3	1.3	-2.3	-2.5
II	4.6 r	3.3 r	-1.3	2.4	-0.9	-2.1 r
I	5.5 r	5.7 r	0.2	1.8	-0.3	-3.5 r

Indexes 2009=100						
2013 ANNUAL	112.5 r	113.7 r	101.1	106.1 r	97.7 r	94.3 r
2013 IV	111.7 r	113.5 r	101.6	107.1 r	98.1 r	95.9 r
III	112.4 r	113.6 r	101.1	106.0 r	97.5 r	94.4 r
II	113.2 r	113.9 r	100.6	106.2 r	98.2 r	93.8 r
I	112.8 r	114.0 r	101.1	105.1 r	97.0 r	93.1 r
2012 ANNUAL	111.5 r	112.4 r	100.8	104.5	97.7	93.8 r
2012 IV	111.8 r	113.2 r	101.2	105.4	97.8	94.3 r
III	111.3 r	112.6 r	101.2	104.8	97.8	94.2 r
II	111.3 r	112.0 r	100.6	104.5	98.0	93.9 r
I	111.5 r	112.0 r	100.4	103.4	97.2	92.7 r
2011 ANNUAL	110.8 r	110.4 r	99.6	102.4	97.6	92.4 r
2011 IV	111.6 r	111.3 r	99.7	101.8	96.2	91.3 r
III	111.4 r	110.9 r	99.6	102.6	97.4	92.1 r
II	110.6 r	110.0 r	99.4	102.7	98.1	92.8 r
I	109.7 r	109.4 r	99.7	102.3	98.9	93.3 r

See footnotes following Table 6.
r=revised

August 9, 2016
Source: Bureau of Labor Statistics

Appendix table 6.

Nonfinancial corporate sector: Revised 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)										
2013 ANNUAL	0.8 r	2.9 r	2.0	1.4 r	-0.1	0.5 r	-0.3 r	0.2 r	4.0 r	0.8
2013 IV	1.1 r	3.2 r	2.2	0.8 r	-0.9 r	-0.2 r	0.3 r	0.0 r	0.9	0.1 r
III	-3.1 r	-0.6 r	2.6	-0.1 r	-2.2 r	3.1 r	2.9 r	3.0 r	-2.2 r	2.3 r
II	4.8 r	6.4 r	1.5	3.8 r	4.3 r	-1.0 r	-4.4 r	-2.1 r	-5.4 r	-2.6 r
I	-0.9 r	2.2 r	3.1	-3.7 r	-5.2 r	-2.8 r	0.9 r	-1.6 r	20.1 r	1.3 r
2012 ANNUAL	1.6 r	4.0	2.4 r	2.8 r	0.7 r	1.2	-0.4	0.7	6.4	1.4
2012 IV	6.3	7.9	1.5	8.2	5.2	1.8	-3.8	-0.1	4.4	0.5
III	-5.1	-3.7	1.5	0.0	-1.7	5.4	4.5	5.1	-5.9	3.4
II	0.1	0.9	0.8 r	1.4 r	0.7	1.3	1.0	1.2	8.8	2.3
I	6.3	9.9	3.4	12.3	9.6 r	5.7	-3.2	2.6	-2.5	1.9
2011 ANNUAL	-0.3 r	2.5	2.8 r	2.1	-1.0	2.4	1.9	2.2	3.1	2.3
2011 IV	3.3	5.8	2.5 r	-4.4 r	-6.0	-7.4	-2.4	-5.8	9.5	-3.7
III	-2.9 r	0.1	3.1 r	1.1	-1.5 r	4.1	3.2	3.8	12.2	4.9
II	1.8	6.0	4.2 r	-2.7 r	-7.0	-4.3	-0.8	-3.2	56.3	3.1
I	1.9	3.3	1.4 r	9.8 r	5.3	7.8	4.0	6.5	-34.3	0.0
Percent change from corresponding quarter of previous year										
2013 ANNUAL	0.8 r	2.9 r	2.0	1.4 r	-0.1	0.5 r	-0.3 r	0.2 r	4.0 r	0.8
2013 IV	0.4 r	2.8 r	2.3	0.2	-1.1	-0.3 r	-0.1	-0.2 r	2.9 r	0.2 r
III	1.7 r	3.9 r	2.1 r	1.9	0.4 r	0.2 r	-1.1 r	-0.2 r	3.8 r	0.4 r
II	1.2	3.1	1.9	2.0 r	0.6 r	0.8 r	-0.8 r	0.3	2.8 r	0.6 r
I	0.0 r	1.7 r	1.7	1.4 r	-0.3 r	1.4 r	0.6 r	1.1 r	6.5 r	1.9 r
2012 ANNUAL	1.6 r	4.0	2.4 r	2.8 r	0.7 r	1.2	-0.4	0.7	6.4	1.4
2012 IV	1.8	3.6	1.8	5.4	3.4	3.5	-0.4	2.2	1.1	2.0
III	1.0 r	3.1	2.0	2.2	0.5	1.1	0.0	0.7	2.3	0.9
II	1.6 r	4.1	2.4	2.4 r	0.5 r	0.8	-0.4	0.4	6.9	1.3
I	2.0 r	5.4	3.3 r	1.4	-1.4	-0.7	-0.8	-0.7	17.0	1.5
2011 ANNUAL	-0.3 r	2.5	2.8 r	2.1	-1.0	2.4	1.9	2.2	3.1	2.3
2011 IV	1.0	3.8	2.8 r	0.8 r	-2.4	-0.2	0.9	0.2	6.0	1.0
III	-1.2	1.5	2.8 r	2.1	-1.6 r	3.3	3.0	3.2	0.8	2.9
II	-0.1 r	2.7	2.8	2.0	-1.3	2.1	1.7	1.9	6.9	2.6
I	-0.8 r	2.0	2.8 r	3.5	1.3	4.3	1.9	3.5	-1.5	2.8
Indexes 2009=100										
2013 ANNUAL	107.6 r	115.8 r	107.6 r	108.0 r	99.5 r	100.3 r	97.8 r	99.5 r	147.9 r	104.6 r
2013 IV	107.7 r	116.8 r	108.4 r	108.4 r	99.3 r	100.6 r	98.0 r	99.7 r	147.2 r	104.7 r
III	107.4 r	115.9 r	107.9 r	108.2 r	99.5 r	100.7 r	97.9 r	99.7 r	146.9 r	104.7 r
II	108.3 r	116.1 r	107.2 r	108.2 r	100.0 r	99.9 r	97.2 r	99.0 r	147.7 r	104.1 r
I	107.0 r	114.3 r	106.8 r	107.2 r	99.0 r	100.2 r	98.3 r	99.5 r	149.8 r	104.8 r
2012 ANNUAL	106.7 r	112.6	105.5 r	106.5 r	99.6 r	99.8	98.2	99.3	142.2	103.8
2012 IV	107.3 r	113.7	106.0 r	108.2 r	100.3 r	100.9	98.1	99.9	143.1	104.5
III	105.6 r	111.6	105.6 r	106.1 r	99.1 r	100.4	99.0	100.0	141.5	104.3
II	107.0 r	112.6	105.2 r	106.1 r	99.5 r	99.1	97.9	98.7	143.7	103.4
I	107.0 r	112.4	105.0 r	105.7 r	99.3 r	98.8	97.7	98.4	140.7	102.9
2011 ANNUAL	105.0 r	108.2	103.0 r	103.6 r	98.8 r	98.6	98.6	98.6	133.7	102.3
2011 IV	105.4 r	109.7	104.1 r	102.7 r	97.1 r	97.5	98.5	97.8	141.6	102.4
III	104.5 r	108.2	103.5 r	103.9 r	98.6 r	99.3	99.1	99.3	138.4	103.4
II	105.3 r	108.2	102.7 r	103.6 r	99.0 r	98.4	98.3	98.3	134.5	102.1
I	104.9 r	106.6	101.7 r	104.3 r	100.8 r	99.5	98.5	99.1	120.2	101.3

See footnotes following Table 6.
r=revised

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Source: Bureau of Labor Statistics