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PRODUCTIVITY AND COSTS
 Second Quarter 2019, Preliminary

Nonfarm business sector labor productivity increased 2.3 percent in the second quarter of 2019, the U.S. Bureau of Labor Statistics reported today, as output increased 1.9 percent and hours worked decreased 0.4 percent. (All quarterly percent changes in this release are seasonally adjusted annual rates.) From the second quarter of 2018 to the second quarter of 2019, productivity increased 1.8 percent, reflecting a 2.6-percent increase in output and a 0.8-percent increase in hours worked. (See chart 1 and table A1.)

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

Chart 1. Labor productivity, nonfarm business, 2015Q1 – 2019Q2

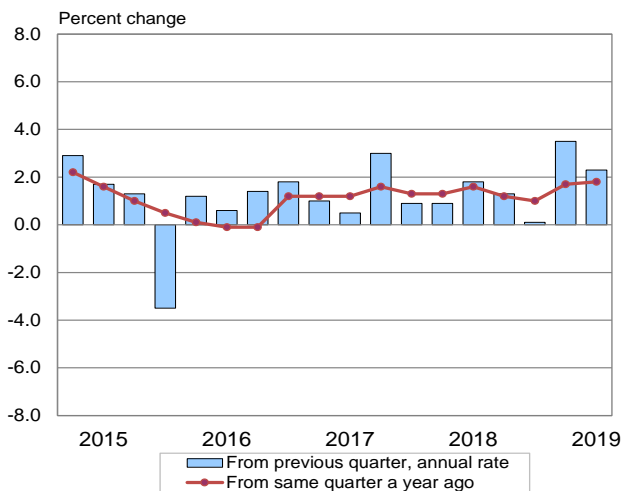
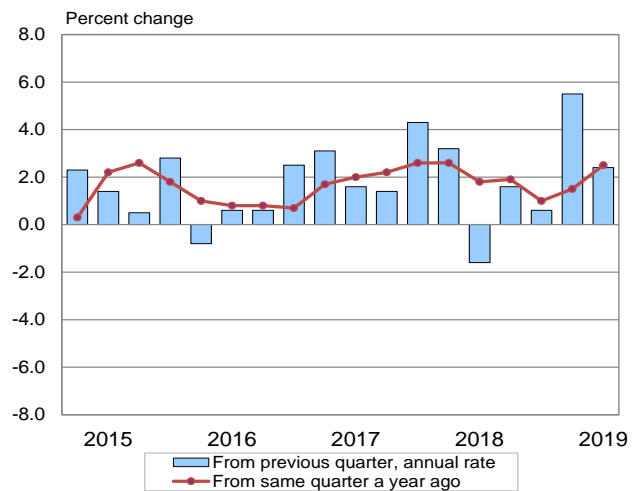


Chart 2. Unit labor costs, nonfarm business, 2015Q1 – 2019Q2



Unit labor costs in the nonfarm business sector increased 2.4 percent in the second quarter of 2019, and increased 2.5 percent over the last four quarters. (See chart 2 and table 2.)

Historical Revisions to Productivity and Costs Data

Data in this release reflect the 2019 Annual Update of the National Income and Product Accounts (NIPA) released by the Bureau of Economic Analysis of the U.S. Department of Commerce on July 26, 2019. See “Revised measures” section on 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 1.6 percent in the second quarter of 2019, as output decreased 2.1 percent and hours worked declined 0.5 percent. Productivity declined 0.9 percent in the durable manufacturing sector, reflecting a 1.8-percent decrease in output and a 0.9-percent decrease in hours worked. Productivity decreased 2.6 percent in the nondurable manufacturing sector as output fell 2.4 percent and hours worked rose 0.3 percent. Over the last four quarters, total manufacturing sector productivity increased 0.2 percent, as output increased 0.4 percent and hours worked increased 0.2 percent. **Unit labor costs** in the manufacturing sector increased 5.8 percent in the second quarter of 2019, and increased 4.3 percent from the same quarter a year ago. (See tables A1 and 3.)

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 first-quarter 2019 measures were announced today for the **nonfinancial corporate sector**. Productivity increased 1.5 percent in the first quarter of 2019 and increased 1.1 percent over the last four quarters. Unit labor costs increased 7.2 percent in the first quarter of 2019 and 1.4 percent from the same quarter last year. Unit profits of nonfinancial corporations fell at a 33.6-percent annual rate in the first quarter of 2019 and decreased 5.9 percent over the last four quarters. (See tables A2 and 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 for first-quarter 2014 through first-quarter 2019 released on July 26 by the Bureau of Economic Analysis (BEA), U.S. Department of Commerce. As a result, all measures incorporating output and compensation were revised, including labor productivity and unit labor costs. Current dollar output and the implicit price deflators for the business and nonfarm business sectors were also subject to further revisions back to 1947 due to rounding. Measures of output for the manufacturing sectors incorporate regular updates of source data for the first quarter of 2019 and the fourth quarter of 2018.

Measures of hours worked for all sectors incorporate regular updates of source data for the first quarter of 2019. Hours worked and related measures were revised back to 2003 for all sectors due to incorporation of revised ratios of supervisory and nonproduction worker average weekly hours to production and non-supervisory worker average weekly hours. Hours worked and related measures were revised back to 2010 for the business and nonfarm business sectors due to revised NIPA data on government enterprises employment and on the proportion of sector compensation paid to employees of nonprofit institutions. Hours worked and related measures were revised back to 2000 for the nonfinancial corporate sector due to the incorporation of revised NIPA data on the proportion of sector compensation paid to employees of corporations. Because hours worked were revised for the index base year of 2012, all measures incorporating hours worked—including productivity—were subject to revision back to 1947; resulting revisions to percent changes are small.

Table B1 presents revised and previous labor productivity and related measures for the nonfarm business, business, and manufacturing sectors for the first quarter of 2019; table C1 presents annual data for the nonfarm business, total manufacturing, and nonfinancial corporate sectors from 2016 to 2018.

Nonfarm business sector productivity increased 3.5 percent in the **first quarter of 2019**—similar to the previously reported estimate (3.4 percent)—reflecting a 0.1-percentage point downward revision to hours worked. (See table B1.) A large upward revision to first-quarter unit labor costs—from a decrease of 1.6 percent to an increase of 5.5 percent—reflected a 7.4-percentage point upward revision to hourly compensation and a 0.1-percentage point upward revision to productivity. (See chart 2.) Hourly compensation increased at a 9.2-percent annual rate in the first quarter of 2019, and real hourly compensation increased 8.3 percent—the largest quarterly gain since the fourth quarter of 2008 (14.3 percent).

Annual average productivity increased 1.3 percent in the nonfarm business sector in 2018 and 2017, and increased 0.3 percent in 2016. The average annual rate of productivity growth from 2007 to 2018—representing the current business cycle—was unchanged at 1.3 percent. Unit labor costs increased 1.8 percent in the nonfarm business sector in 2018, rather than increasing 1.2 percent, due to a 0.5-percentage point upward revision to hourly compensation. Unit labor costs were revised down by 0.1 percentage point in both 2017 and 2016. (See table C1.)

Manufacturing sector productivity was revised up and increased 1.1 percent in the **first quarter of 2019**, as output declined less, and hours worked declined more, than previously reported. Productivity was also revised up in both the durable and nondurable manufacturing subsectors. In the first quarter of 2019, total manufacturing unit labor costs increased 6.8 percent rather than increasing 2.0 percent as reported June 6, as a 5.6-percentage point upward revision to hourly compensation was partially offset by a 0.7-percentage point upward revision to productivity. (See table B1.) Total manufacturing real hourly compensation increased 7.1 percent in first-quarter 2019—the largest increase since the second quarter of 2009 (8.0 percent).

Annual average manufacturing productivity grew 0.7 percent in 2018, slightly less than previously reported, and was unrevised in 2017 and 2016. The average annual rate of manufacturing productivity growth from 2007 to 2018 also was unrevised at 0.7 percent. An upward revision to unit labor costs of 0.6 percentage point in 2018 reflected a similar upward revision to hourly compensation. Revisions to 2017 and 2016 unit labor costs were small. (See tables C1, 3, 4, and 5.)

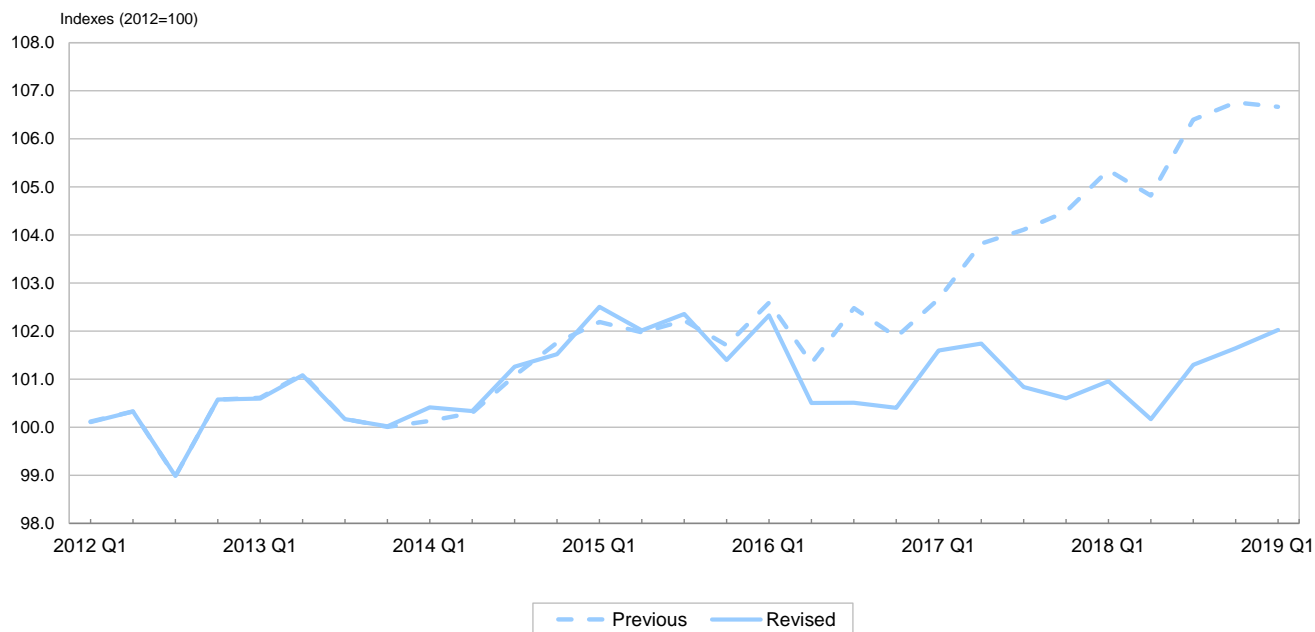
Nonfinancial corporate sector productivity growth was revised up in the **first quarter of 2019**, to an increase of 1.5 percent, rather than the previously published decline of 0.4 percent. This revision was due solely to a 1.9-percentage point upward revision to output; hours worked were unrevised. Unit labor costs in the nonfinancial corporate sector were revised to an increase of 7.2 percent from a preliminary estimate of 2.0 percent, as a large upward revision to hourly compensation was partially offset by an upward revision to productivity. (See table A2.) Unit profits were revised downward for the first quarter of 2019, and fell 33.6 percent rather than falling 17.9 percent as previously reported. (See table 6.)

Historical revisions to nonfinancial corporate sector productivity due to the Annual Update of the NIPA were larger than for other major sectors. Fourth-quarter 2018 productivity growth was unrevised at 1.4 percent as a downward revision to output was offset by a downward revision to hours, but productivity was revised down along with output in each of the previous six quarters. (See tables A2 and 6.). Chart 3 on page 4 displays previous and revised indexes of productivity for the nonfinancial corporate sector, and shows that the 2016 forward period was most affected.

Annual average productivity in the nonfinancial corporate sector was revised downward in each of the last three years: from a 2.0-percent increase to a 0.2-percent decline in 2018; from a 1.7-percent increase to a 0.3-percent increase in 2017; and from no change to a decline of 1.1 percent in 2016. (See

tables C1 and 6.) The average annual rate of productivity growth in the nonfinancial corporate sector from 2015 to 2018 was revised down from a 1.2-percent increase to a decline of 0.3 percent. The revisions to productivity were due primarily to downward revisions to profits, which are a component of output for this sector. Over the same 2015-2018 period profits were revised from a 2.0-percent increase to a 2.1-percent decrease.

Chart 3. Labor productivity, nonfinancial corporate sector, revised and previous indexes, 2012 Q1-2019 Q1



Complete annual and quarterly data series can be found on the Productivity and Costs home page: www.bls.gov/lpc/#data.

The revised Productivity and Costs news release for second-quarter 2019 is scheduled to be released on Thursday, September 5, 2019 at 8:30 a.m. (EDT).

Table A1. Labor productivity growth and related measures - preliminary second-quarter 2019
(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	Previous quarter	2.3	1.9	-0.4	4.8	1.8	2.4
	A year ago	1.8	2.6	0.8	4.3	2.5	2.5
Business	Previous quarter	2.6	2.1	-0.5	5.0	2.0	2.3
	A year ago	1.8	2.7	0.9	4.3	2.4	2.5
Manufacturing	Previous quarter	-1.6	-2.1	-0.5	4.1	1.1	5.8
	A year ago	0.2	0.4	0.2	4.5	2.6	4.3
Durable manufacturing	Previous quarter	-0.9	-1.8	-0.9	4.5	1.5	5.5
	A year ago	0.7	1.4	0.7	4.4	2.5	3.6
Nondurable manufacturing	Previous quarter	-2.6	-2.4	0.3	3.5	0.5	6.3
	A year ago	-0.1	-0.7	-0.6	4.5	2.6	4.6

Table A2. Labor productivity growth and related measures - revised and previously published first-quarter 2019
(percent change from previous quarter at annual rate)

Sector		Labor productivity	Output	Hours worked	Hourly compensation	Real hourly compensation	Unit labor costs
Nonfinancial corporate	Revised	1.5	3.5	2.0	8.9	7.9	7.2
	Previously published	-0.4	1.6	2.0	1.6	0.7	2.0

Table B1. Labor productivity growth and related measures - revised and previously published first-quarter 2019
(percent change from previous quarter at annual rate)

Sector		Labor productivity	Output	Hours worked	Hourly compensation	Real hourly compensation	Unit labor costs
Nonfarm business	Revised	3.5	3.9	0.4	9.2	8.3	5.5
	Previously published	3.4	3.9	0.5	1.8	0.9	-1.6
Business	Revised	3.6	3.9	0.3	9.3	8.4	5.5
	Previously published	3.5	3.9	0.4	1.9	1.0	-1.5
Manufacturing	Revised	1.1	-1.8	-2.9	8.0	7.1	6.8
	Previously published	0.4	-2.0	-2.4	2.4	1.5	2.0
Durable manufacturing	Revised	0.1	-2.7	-2.8	8.4	7.5	8.4
	Previously published	-0.6	-2.8	-2.2	2.1	1.1	2.7
Nondurable manufacturing	Revised	2.4	-0.8	-3.2	7.3	6.3	4.7
	Previously published	1.6	-1.1	-2.6	3.1	2.2	1.5

Table C1. Labor productivity growth and related measures - revised and previous annual average changes: 2016-2018

Sector	Year		Labor productivity	Output	Hours worked	Hourly compensation	Real hourly compensation	Unit labor costs
Nonfarm business	2018	Revised	1.3	3.5	2.1	3.1	0.7	1.8
		Previously published	1.3	3.5	2.1	2.6	0.2	1.2
	2017	Revised	1.3	2.9	1.5	3.5	1.3	2.1
		Previously published	1.2	2.7	1.5	3.4	1.2	2.2
	2016	Revised	0.3	1.7	1.4	1.1	-0.2	0.8
		Previously published	0.2	1.6	1.4	1.1	-0.2	0.9
Manufacturing	2018	Revised	0.7	2.7	1.9	2.2	-0.3	1.4
		Previously published	0.8	2.7	1.9	1.6	-0.8	0.8
	2017	Revised	1.2	2.2	1.0	3.5	1.3	2.3
		Previously published	1.2	2.2	1.0	3.3	1.2	2.1
	2016	Revised	-0.1	-0.1	0.0	0.5	-0.7	0.6
		Previously published	-0.1	-0.1	0.0	0.6	-0.7	0.7
Nonfinancial corporate	2018	Revised	-0.2	1.9	2.1	3.2	0.8	3.4
		Previously published	2.0	4.1	2.1	2.1	-0.4	0.1
	2017	Revised	0.3	2.0	1.7	3.3	1.1	3.0
		Previously published	1.7	3.4	1.7	3.2	1.0	1.5
	2016	Revised	-1.1	0.3	1.4	1.1	-0.2	2.3
		Previously published	0.0	1.5	1.5	1.1	-0.2	1.0

TECHNICAL NOTES

Labor Hours

Hours worked 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 worked using data from the National Compensation Survey (NCS) for 1996 forward and data from the BLS Hours at Work survey, conducted for this purpose, prior to 1990. Between 1990 and 1995, weekly paid hours are adjusted to hours at work using a combination of NCS and Hours at Work survey data. 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 appropriate 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 hours worked. Business output accounted for about 77 percent of the value of GDP in 2018. Nonfarm business, which excludes farming, accounted for about 76 percent of GDP in 2018.

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 Index 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 55 percent of the value of GDP in 2018.

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 2012=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 productivity@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: 202-691-5200; 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)								
2019 II	2.6	2.1	-0.5	5.0	2.0	2.3	3.6	2.9
I	3.6 r	3.9	0.3 r	9.3 r	8.4 r	5.5 r	-7.0 r	-0.1 r
2018 ANNUAL	1.3 r	3.4	2.0	3.2 r	0.8 r	1.9 r	2.8 r	2.3 r
2018 IV	0.0 r	1.2 r	1.3 r	0.5 r	-1.0 r	0.5 r	2.1 r	1.2 r
III	0.8 r	3.4 r	2.6 r	2.6 r	0.6 r	1.7 r	1.1 r	1.5 r
II	2.4 r	4.0 r	1.5	0.7 r	-1.4 r	-1.7 r	10.8 r	3.6
I	1.3 r	2.9 r	1.6 r	4.7	1.4	3.4 r	0.1 r	2.0 r
2017 ANNUAL	1.3 r	2.8 r	1.5	3.5 r	1.3	2.1 r	1.2 r	1.7
2017 IV	0.1 r	4.1 r	4.0	4.4 r	1.2 r	4.3 r	0.7 r	2.7 r
III	3.4 r	4.0 r	0.5 r	5.0 r	2.8 r	1.5 r	2.9 r	2.1 r
II	0.4 r	2.6 r	2.2 r	2.1 r	1.7 r	1.7 r	0.3 r	1.1 r
I	0.6 r	2.6 r	2.0	3.5 r	0.7 r	2.9 r	0.1 r	1.7 r

Percent change from corresponding quarter of previous year								
2019 II	1.8	2.7	0.9	4.3	2.4	2.5	-0.1	1.4
I	1.7 r	3.1 r	1.4	3.2 r	1.6 r	1.5 r	1.6 r	1.5 r
2018 ANNUAL	1.3 r	3.4	2.0	3.2 r	0.8 r	1.9 r	2.8 r	2.3 r
2018 IV	1.1 r	2.9 r	1.7	2.1 r	-0.1 r	1.0 r	3.5 r	2.1
III	1.2	3.6	2.4	3.1 r	0.5 r	1.9 r	3.1 r	2.4
II	1.8 r	3.7 r	1.9	3.7 r	1.0 r	1.9 r	3.5 r	2.6
I	1.3 r	3.4 r	2.1 r	4.0 r	1.8 r	2.7 r	1.0 r	2.0 r
2017 ANNUAL	1.3 r	2.8 r	1.5	3.5 r	1.3	2.1 r	1.2 r	1.7
2017 IV	1.1 r	3.3 r	2.2	3.7 r	1.6 r	2.6 r	1.0 r	1.9
III	1.7 r	2.9 r	1.2	4.0 r	1.9 r	2.2 r	0.9 r	1.6
II	1.3 r	2.6 r	1.3 r	3.3 r	1.3 r	2.0 r	0.7 r	1.4
I	1.3 r	2.5 r	1.2	3.0 r	0.4 r	1.7 r	2.2 r	1.9 r

Indexes 2012=100								
2019 II	107.9	121.2	112.3	120.3	108.1	111.5	108.3	110.1
I	107.2 r	120.6 r	112.5 r	118.9 r	107.5 r	110.9 r	107.4 r	109.4 r
2018 ANNUAL	106.0 r	118.3 r	111.7 r	115.7 r	105.6 r	109.2 r	108.1 r	108.7 r
2018 IV	106.3 r	119.4 r	112.4 r	116.2 r	105.4 r	109.4 r	109.4 r	109.4 r
III	106.3 r	119.0 r	112.0 r	116.1 r	105.7 r	109.3 r	108.8 r	109.1 r
II	106.0 r	118.0 r	111.3 r	115.4 r	105.5 r	108.8 r	108.5 r	108.7 r
I	105.4 r	116.9 r	110.9 r	115.1 r	105.9 r	109.2 r	105.7 r	107.7 r
2017 ANNUAL	104.6 r	114.4 r	109.4 r	112.1 r	104.8 r	107.2 r	105.2 r	106.3 r
2017 IV	105.1 r	116.1 r	110.5 r	113.8 r	105.5 r	108.3 r	105.7 r	107.2 r
III	105.0 r	114.9 r	109.4 r	112.6 r	105.2 r	107.2 r	105.5 r	106.5 r
II	104.2 r	113.8 r	109.2 r	111.2 r	104.5 r	106.8 r	104.8 r	105.9 r
I	104.0 r	113.1 r	108.7 r	110.7 r	104.0 r	106.4 r	104.7 r	105.6 r

See footnotes following Table 6.
r=revised

August 15, 2019
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)								
2019 II	2.3	1.9	-0.4	4.8	1.8	2.4	3.7	2.9
I	3.5 r	3.9	0.4 r	9.2 r	8.3 r	5.5 r	-6.9 r	0.0 r
2018 ANNUAL	1.3	3.5	2.1	3.1 r	0.7 r	1.8 r	3.0 r	2.3 r
2018 IV	0.1 r	1.2 r	1.1 r	0.7 r	-0.8 r	0.6 r	1.9 r	1.2 r
III	1.2 r	3.5 r	2.2 r	2.9 r	0.9 r	1.6	1.9 r	1.7 r
II	1.8 r	4.0 r	2.1	0.3 r	-1.9 r	-1.6 r	10.9 r	3.6
I	0.9 r	2.9 r	2.0 r	4.1	0.9	3.2 r	0.4 r	2.0 r
2017 ANNUAL	1.3 r	2.9 r	1.5	3.5 r	1.3 r	2.1 r	1.0 r	1.6
2017 IV	0.9 r	4.2 r	3.3	5.2 r	2.0 r	4.3 r	0.8 r	2.7 r
III	3.0 r	4.2 r	1.2 r	4.4 r	2.2 r	1.4 r	3.2 r	2.2 r
II	0.5 r	2.7 r	2.2 r	2.1 r	1.7 r	1.6 r	0.4 r	1.1 r
I	1.0 r	2.5 r	1.5	4.2 r	1.4 r	3.1 r	-1.4 r	1.2 r

Percent change from corresponding quarter of previous year								
2019 II	1.8	2.6	0.8	4.3	2.5	2.5	0.1	1.4
I	1.7 r	3.2 r	1.5	3.2 r	1.5 r	1.5 r	1.8 r	1.6 r
2018 ANNUAL	1.3	3.5	2.1	3.1 r	0.7 r	1.8 r	3.0 r	2.3 r
2018 IV	1.0 r	2.9 r	1.9 r	2.0 r	-0.2 r	1.0 r	3.7 r	2.1
III	1.2 r	3.6	2.4 r	3.1 r	0.5 r	1.9 r	3.4 r	2.5 r
II	1.6 r	3.8 r	2.1	3.5 r	0.8 r	1.8 r	3.7 r	2.6
I	1.3 r	3.5 r	2.2	3.9 r	1.7 r	2.6 r	1.2 r	2.0 r
2017 ANNUAL	1.3 r	2.9 r	1.5	3.5 r	1.3 r	2.1 r	1.0 r	1.6
2017 IV	1.3 r	3.4 r	2.0	4.0 r	1.8 r	2.6 r	0.7 r	1.8
III	1.6 r	3.0 r	1.5	3.8 r	1.7 r	2.2 r	0.7 r	1.5
II	1.2	2.6	1.4	3.2	1.2 r	2.0	0.6 r	1.4
I	1.2 r	2.4 r	1.2	2.9 r	0.4 r	1.7 r	2.1 r	1.9

Indexes 2012=100								
2019 II	107.5	120.9	112.5	120.3	108.1	111.9	109.5	110.8
I	106.9 r	120.4 r	112.6 r	118.9 r	107.6 r	111.2 r	108.5 r	110.0 r
2018 ANNUAL	105.7 r	118.1 r	111.8 r	115.8 r	105.7 r	109.5 r	109.1 r	109.3 r
2018 IV	106.0 r	119.2 r	112.4 r	116.4 r	105.5 r	109.8 r	110.4 r	110.0 r
III	106.0 r	118.8 r	112.1 r	116.1 r	105.7 r	109.6 r	109.9 r	109.7 r
II	105.7 r	117.8 r	111.5 r	115.3 r	105.5 r	109.1 r	109.4 r	109.3 r
I	105.2 r	116.7 r	110.9 r	115.2 r	106.0 r	109.6 r	106.6 r	108.3 r
2017 ANNUAL	104.4 r	114.2 r	109.4 r	112.3 r	105.0 r	107.6 r	105.9 r	106.9 r
2017 IV	104.9 r	115.8 r	110.4 r	114.1 r	105.7 r	108.7 r	106.5 r	107.8 r
III	104.7 r	114.7 r	109.5 r	112.7 r	105.2 r	107.6 r	106.3 r	107.0 r
II	103.9 r	113.5 r	109.2 r	111.4 r	104.6 r	107.2 r	105.5 r	106.5 r
I	103.8 r	112.7 r	108.6 r	110.9 r	104.2 r	106.8 r	105.4 r	106.2 r

See footnotes following Table 6.
r=revised

August 15, 2019
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)						
2019 II	-1.6	-2.1	-0.5	4.1	1.1	5.8
I	1.1 r	-1.8 r	-2.9 r	8.0 r	7.1 r	6.8 r
2018 ANNUAL	0.7 r	2.7	1.9	2.2 r	-0.3 r	1.4 r
2018 IV	0.9 r	1.6	0.7 r	3.4	1.8	2.5 r
III	0.4 r	4.0	3.6 r	2.4 r	0.4 r	2.0 r
II	1.4 r	2.7	1.2 r	-4.6 r	-6.7 r	-6.0 r
I	-0.2 r	1.9	2.2 r	4.4 r	1.2 r	4.7 r
2017 ANNUAL	1.2	2.2	1.0	3.5 r	1.3 r	2.3 r
2017 IV	3.9 r	5.7	1.7 r	5.4 r	2.2 r	1.4 r
III	-4.0 r	-1.5	2.7 r	1.9 r	-0.2 r	6.2 r
II	3.8 r	3.6	-0.2 r	3.9 r	3.5 r	0.1 r
I	0.9 r	3.0	2.1 r	3.9 r	1.1 r	3.0 r

Percent change from corresponding quarter of previous year						
2019 II	0.2	0.4	0.2	4.5	2.6	4.3
I	0.9 r	1.6	0.6 r	2.2 r	0.5 r	1.2 r
2018 ANNUAL	0.7 r	2.7	1.9	2.2 r	-0.3 r	1.4 r
2018 IV	0.6 r	2.5	1.9	1.3 r	-0.9 r	0.7 r
III	1.4 r	3.6	2.2 r	1.8 r	-0.8 r	0.5 r
II	0.2	2.2	1.9 r	1.7 r	-0.9 r	1.5 r
I	0.8	2.4	1.6 r	3.9 r	1.6 r	3.1 r
2017 ANNUAL	1.2	2.2	1.0	3.5 r	1.3 r	2.3 r
2017 IV	1.1 r	2.7	1.6 r	3.8 r	1.6 r	2.7 r
III	0.8	1.9	1.2	3.7 r	1.7 r	2.9 r
II	2.1	2.8	0.7	3.7 r	1.7 r	1.6 r
I	0.8 r	1.5	0.7	3.0 r	0.4 r	2.2 r

Indexes 2012=100						
2019 II	101.6	108.0	106.3	116.7	104.8	114.8
I	102.0 r	108.5 r	106.4 r	115.5 r	104.5 r	113.2 r
2018 ANNUAL	101.4 r	108.0 r	106.5 r	112.6 r	102.8 r	111.0 r
2018 IV	101.7 r	109.0 r	107.2 r	113.3 r	102.7 r	111.4 r
III	101.5 r	108.6	107.0 r	112.4 r	102.3 r	110.7 r
II	101.4 r	107.5	106.0 r	111.7 r	102.2 r	110.1 r
I	101.1 r	106.8	105.7 r	113.0 r	103.9 r	111.8 r
2017 ANNUAL	100.7 r	105.2	104.5 r	110.2 r	103.0 r	109.5 r
2017 IV	101.1 r	106.3	105.1 r	111.8 r	103.6 r	110.6 r
III	100.2 r	104.9	104.7 r	110.4 r	103.1 r	110.2 r
II	101.2 r	105.3	104.0 r	109.8 r	103.1 r	108.5 r
I	100.3 r	104.3	104.0 r	108.8 r	102.3 r	108.5 r

See footnotes following Table 6.
r=revised

August 15, 2019
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)						
2019 II	-0.9	-1.8	-0.9	4.5	1.5	5.5
I	0.1 r	-2.7 r	-2.8 r	8.4 r	7.5 r	8.4 r
2018 ANNUAL	1.1 r	3.4	2.3 r	2.6 r	0.2 r	1.5 r
2018 IV	2.0	4.7	2.7 r	3.0	1.5 r	1.0 r
III	1.9	5.8	3.8	1.8 r	-0.2 r	-0.1 r
II	0.3 r	2.2	1.9 r	-4.3 r	-6.3 r	-4.6 r
I	0.4	3.9	3.5	4.2 r	1.0 r	3.8 r
2017 ANNUAL	1.7	2.3	0.6	4.2 r	2.0 r	2.5 r
2017 IV	4.0 r	5.3	1.2 r	7.5 r	4.3 r	3.4 r
III	-3.5 r	-1.3	2.3 r	1.5 r	-0.7 r	5.2 r
II	5.0 r	2.8	-2.1 r	6.9 r	6.5 r	1.8 r
I	0.9 r	3.9	2.9	3.4 r	0.5 r	2.4 r

Percent change from corresponding quarter of previous year						
2019 II	0.7	1.4	0.7	4.4	2.5	3.6
I	1.1 r	2.5 r	1.4 r	2.1 r	0.5 r	1.1 r
2018 ANNUAL	1.1 r	3.4	2.3 r	2.6 r	0.2 r	1.5 r
2018 IV	1.1 r	4.1	3.0 r	1.1 r	-1.1 r	0.0 r
III	1.6 r	4.3	2.6 r	2.2 r	-0.4 r	0.6 r
II	0.3	2.5	2.2	2.1 r	-0.5 r	1.9 r
I	1.4 r	2.6	1.2 r	5.0 r	2.7 r	3.6 r
2017 ANNUAL	1.7	2.3	0.6	4.2 r	2.0 r	2.5 r
2017 IV	1.6	2.6	1.1 r	4.8 r	2.6 r	3.2 r
III	1.1 r	1.9	0.8	4.3 r	2.3 r	3.2 r
II	2.8	3.0	0.2	4.6	2.6	1.8
I	1.3	1.8	0.4 r	3.2 r	0.6 r	1.8 r

Indexes 2012=100						
2019 II	102.5	109.3	106.6	117.7	105.7	114.9
I	102.7 r	109.8 r	106.9 r	116.4 r	105.3 r	113.4 r
2018 ANNUAL	102.1 r	108.7	106.5 r	113.5 r	103.6 r	111.2 r
2018 IV	102.7 r	110.6 r	107.6 r	114.1 r	103.5 r	111.1 r
III	102.2 r	109.3	106.9 r	113.3 r	103.1 r	110.8 r
II	101.7 r	107.7	105.9 r	112.8 r	103.1 r	110.9 r
I	101.7 r	107.2	105.4 r	114.0 r	104.8 r	112.2 r
2017 ANNUAL	101.0 r	105.1	104.1 r	110.7 r	103.5 r	109.6 r
2017 IV	101.6 r	106.1	104.5 r	112.8 r	104.6 r	111.1 r
III	100.6 r	104.8	104.2 r	110.8 r	103.5 r	110.2 r
II	101.5 r	105.1	103.6 r	110.4 r	103.7 r	108.8 r
I	100.2 r	104.4	104.2 r	108.6 r	102.1 r	108.3 r

See footnotes following Table 6.
r=revised

August 15, 2019
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)						
2019 II	-2.6	-2.4	0.3	3.5	0.5	6.3
I	2.4 r	-0.8 r	-3.2 r	7.3 r	6.3 r	4.7 r
2018 ANNUAL	0.6	1.9	1.4 r	1.2 r	-1.2 r	0.7 r
2018 IV	1.0	-1.6	-2.6	3.6 r	2.1	2.6 r
III	-1.2 r	2.2	3.4 r	3.5 r	1.5 r	4.7 r
II	3.0 r	3.1	0.1 r	-5.5 r	-7.5 r	-8.3 r
I	-0.1 r	-0.1	0.0 r	4.4 r	1.1 r	4.5 r
2017 ANNUAL	0.2	1.9	1.7	2.3 r	0.1 r	2.1 r
2017 IV	3.4 r	6.2	2.6 r	1.4 r	-1.7 r	-1.9 r
III	-4.8 r	-1.6	3.3 r	2.9 r	0.8 r	8.1 r
II	1.2 r	4.4	3.2 r	-1.3 r	-1.7 r	-2.5 r
I	1.3 r	2.0	0.6 r	4.8 r	1.9 r	3.4

Percent change from corresponding quarter of previous year						
2019 II	-0.1	-0.7	-0.6	4.5	2.6	4.6
I	1.3 r	0.7 r	-0.6 r	2.1 r	0.5 r	0.8 r
2018 ANNUAL	0.6	1.9	1.4 r	1.2 r	-1.2 r	0.7 r
2018 IV	0.7 r	0.9	0.2 r	1.4 r	-0.8 r	0.7 r
III	1.3 r	2.8	1.5 r	0.9	-1.7	-0.4 r
II	0.3 r	1.8	1.5 r	0.7 r	-1.9 r	0.4 r
I	-0.1	2.2	2.3	1.8 r	-0.4 r	1.9 r
2017 ANNUAL	0.2	1.9	1.7	2.3 r	0.1 r	2.1 r
2017 IV	0.2 r	2.7	2.5 r	1.9 r	-0.2 r	1.7 r
III	0.1	1.9	1.7 r	2.5 r	0.5 r	2.4 r
II	0.9 r	2.4	1.5	2.1 r	0.1 r	1.2 r
I	-0.4	0.9	1.3 r	2.6 r	0.0 r	3.0 r

Indexes 2012=100						
2019 II	101.8	107.5	105.6	114.6	102.9	112.6
I	102.5 r	108.1 r	105.5 r	113.6 r	102.8 r	110.9 r
2018 ANNUAL	101.6 r	108.2 r	106.5 r	110.8 r	101.1 r	109.0 r
2018 IV	101.9 r	108.4 r	106.4 r	111.6 r	101.2 r	109.6 r
III	101.6 r	108.8	107.1 r	110.6 r	100.7 r	108.9 r
II	101.9 r	108.2	106.2 r	109.7 r	100.3 r	107.6 r
I	101.1 r	107.4	106.2 r	111.2 r	102.3 r	110.0 r
2017 ANNUAL	101.1 r	106.2	105.0 r	109.5 r	102.3 r	108.3 r
2017 IV	101.2 r	107.4	106.2 r	110.1 r	102.0 r	108.8 r
III	100.3 r	105.8	105.5 r	109.7 r	102.4 r	109.3 r
II	101.5 r	106.3	104.6 r	108.9 r	102.2 r	107.2 r
I	101.3 r	105.1	103.8 r	109.2 r	102.7 r	107.9 r

See footnotes following Table 6.
r=revised

August 15, 2019
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)										
2019 I	1.5 r	3.5 r	2.0	8.9 r	7.9 r	7.2 r	1.2 r	5.3 r	-33.6 r	-0.1 r
2018 ANNUAL	-0.2 r	1.9 r	2.1	3.2 r	0.8 r	3.4 r	3.0 r	3.3 r	-1.1 r	2.8 r
2018 IV	1.4	2.4 r	1.1 r	0.4 r	-1.1 r	-1.0	3.5 r	0.5	0.0 r	0.4 r
III	4.6 r	6.3 r	1.7 r	1.4 r	-0.6 r	-3.0 r	-2.5 r	-2.9 r	12.7 r	-1.2 r
II	-3.1 r	-0.4 r	2.8	-0.6 r	-2.7 r	2.5 r	5.3 r	3.4 r	4.8 r	3.6 r
I	1.4 r	3.3 r	1.9 r	9.7 r	6.3 r	8.2 r	1.6 r	6.0 r	0.2 r	5.3 r
2017 ANNUAL	0.3 r	2.0 r	1.7	3.3 r	1.1 r	3.0 r	2.2 r	2.7 r	-2.9 r	2.0 r
2017 IV	-0.9 r	1.7 r	2.7	2.6 r	-0.5 r	3.6 r	4.3 r	3.8 r	-7.6 r	2.4 r
III	-3.5 r	-2.3 r	1.3 r	2.3 r	0.2 r	6.0 r	6.6 r	6.2 r	-16.0 r	3.2 r
II	0.6 r	3.4 r	2.8 r	0.5 r	0.1 r	-0.1 r	1.5 r	0.4 r	3.2 r	0.7 r
I	4.8 r	6.7 r	1.8	7.8 r	4.8 r	2.8 r	-3.7 r	0.6 r	16.4 r	2.5 r
Percent change from corresponding quarter of previous year										
2019 I	1.1 r	2.9 r	1.9	2.4 r	0.8 r	1.4 r	1.8 r	1.5 r	-5.9 r	0.7 r
2018 ANNUAL	-0.2 r	1.9 r	2.1	3.2 r	0.8 r	3.4 r	3.0 r	3.3 r	-1.1 r	2.8 r
2018 IV	1.0 r	2.9 r	1.9 r	2.6 r	0.4 r	1.6 r	1.9 r	1.7 r	4.3 r	2.0 r
III	0.5 r	2.7 r	2.3 r	3.2 r	0.6 r	2.7 r	2.1 r	2.5 r	2.2 r	2.5 r
II	-1.5 r	0.6 r	2.2	3.4 r	0.8 r	5.1 r	4.4 r	4.9 r	-5.0 r	3.6 r
I	-0.6 r	1.5 r	2.2	3.7 r	1.5 r	4.4 r	3.5 r	4.1 r	-5.4 r	2.9 r
2017 ANNUAL	0.3 r	2.0 r	1.7	3.3 r	1.1 r	3.0 r	2.2 r	2.7 r	-2.9 r	2.0 r
2017 IV	0.2 r	2.3 r	2.1	3.3 r	1.1 r	3.1 r	2.1 r	2.7 r	-1.8 r	2.2 r
III	0.3 r	2.0 r	1.6	3.4 r	1.4 r	3.1 r	2.5 r	2.9 r	-4.0 r	2.0 r
II	1.2 r	3.0 r	1.7	3.1 r	1.2	1.9 r	1.1 r	1.6 r	0.6 r	1.5 r
I	-0.7 r	0.6 r	1.3	3.2 r	0.6 r	3.9 r	3.0 r	3.6 r	-6.2 r	2.3 r
Indexes 2012=100										
2019 I	102.0 r	116.4 r	114.1 r	118.2 r	107.0 r	115.9 r	111.0 r	114.3 r	82.0 r	109.7 r
2018 ANNUAL	101.0 r	114.0 r	112.9 r	115.5 r	105.4 r	114.3 r	110.0 r	112.9 r	89.3 r	109.5 r
2018 IV	101.6 r	115.4 r	113.5 r	115.7 r	104.9 r	113.9 r	110.7 r	112.8 r	90.9 r	109.7 r
III	101.3 r	114.7 r	113.2 r	115.6 r	105.2 r	114.2 r	109.7 r	112.7 r	90.9 r	109.6 r
II	100.2 r	112.9 r	112.8 r	115.2 r	105.4 r	115.0 r	110.4 r	113.5 r	88.2 r	109.9 r
I	101.0 r	113.0 r	112.0 r	115.4 r	106.1 r	114.3 r	109.0 r	112.6 r	87.2 r	108.9 r
2017 ANNUAL	101.2 r	111.9 r	110.5 r	111.9 r	104.6 r	110.6 r	106.8 r	109.3 r	90.3 r	106.6 r
2017 IV	100.6 r	112.1 r	111.5 r	112.8 r	104.5 r	112.1 r	108.6 r	110.9 r	87.2 r	107.5 r
III	100.8 r	111.6 r	110.7 r	112.0 r	104.6 r	111.1 r	107.5 r	109.9 r	88.9 r	106.9 r
II	101.7 r	112.3 r	110.4 r	111.4 r	104.6 r	109.5 r	105.7 r	108.2 r	92.9 r	106.0 r
I	101.6 r	111.3 r	109.6 r	111.3 r	104.6 r	109.5 r	105.4 r	108.1 r	92.1 r	105.9 r

See footnotes following Table 6.
r=revised

August 15, 2019
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 -1.5 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 2019.

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 1978-2018 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 adjustment.

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)								
2016 ANNUAL	0.3 r	1.8 r	1.5	1.1	-0.2	0.8 r	0.8 r	0.8 r
2016 IV	2.4 r	2.5 r	0.2	5.2 r	2.5 r	2.8 r	0.2 r	1.6 r
III	1.8 r	2.6 r	0.8 r	2.3 r	0.4 r	0.6 r	2.2 r	1.3
II	0.4 r	2.1 r	1.7 r	0.8 r	-2.0 r	0.4 r	6.5 r	3.0 r
I	1.0 r	2.3 r	1.3 r	0.3 r	0.4	-0.7 r	-1.2 r	-0.9 r
2015 ANNUAL	1.2	3.5	2.3	2.9 r	2.7	1.6 r	-0.8 r	0.6
2015 IV	-3.6 r	-0.3 r	3.4	-1.0	-1.0 r	2.7 r	-4.5 r	-0.5 r
III	1.4 r	1.3 r	-0.1	1.9 r	0.2 r	0.5 r	2.2 r	1.2 r
II	2.0 r	3.6 r	1.6 r	3.4 r	0.6 r	1.4	3.1	2.1 r
I	2.7	3.9 r	1.2 r	4.9	7.6	2.2	-5.0 r	-1.1 r
2014 ANNUAL	0.7	3.1 r	2.4	2.6	0.9	1.9	1.3	1.6 r
2014 IV	-2.0 r	2.8 r	4.9 r	4.0 r	5.0 r	6.1 r	-7.2 r	0.0 r
III	3.1	6.4	3.2 r	1.8 r	0.7 r	-1.3 r	4.7 r	1.3 r
II	3.8 r	7.0 r	3.1	-2.1 r	-4.2 r	-5.7 r	13.7 r	2.4 r
I	-3.5 r	-2.0 r	1.6	8.4 r	5.7 r	12.4 r	-10.7 r	1.6 r

Percent change from corresponding quarter of previous year								
2016 ANNUAL	0.3 r	1.8 r	1.5	1.1	-0.2	0.8 r	0.8 r	0.8 r
2016 IV	1.4 r	2.4 r	1.0	2.2 r	0.3	0.8 r	1.9 r	1.2 r
III	-0.1 r	1.7 r	1.8	0.6 r	-0.5 r	0.7 r	0.7 r	0.7 r
II	-0.2 r	1.3	1.5 r	0.5 r	-0.6 r	0.7	0.7 r	0.7 r
I	0.2 r	1.7 r	1.5	1.1 r	0.1 r	1.0 r	-0.2	0.5 r
2015 ANNUAL	1.2	3.5	2.3	2.9 r	2.7	1.6 r	-0.8 r	0.6
2015 IV	0.6 r	2.1 r	1.5 r	2.3 r	1.8 r	1.7 r	-1.1 r	0.4
III	1.0 r	2.9 r	1.9	3.5 r	3.3 r	2.5 r	-1.9 r	0.6
II	1.4 r	4.2	2.7	3.5	3.4	2.1 r	-1.3 r	0.6
I	1.9 r	5.0 r	3.1	2.1 r	2.2 r	0.2 r	1.2 r	0.6 r
2014 ANNUAL	0.7	3.1 r	2.4	2.6	0.9	1.9	1.3	1.6 r
2014 IV	0.3 r	3.5 r	3.2 r	3.0 r	1.7 r	2.7	-0.4 r	1.3 r
III	1.5 r	3.9 r	2.4 r	2.6 r	0.8 r	1.1	2.7 r	1.8 r
II	1.1 r	3.3	2.2	1.8	-0.3	0.7 r	3.5 r	1.9
I	0.0 r	1.7 r	1.7	3.1 r	1.6 r	3.1 r	-0.5 r	1.5 r

Indexes 2012=100								
2016 ANNUAL	103.2 r	111.3 r	107.9 r	108.3 r	103.4 r	105.0 r	103.9 r	104.5 r
2016 IV	103.9 r	112.3 r	108.1 r	109.7 r	103.8 r	105.6 r	104.7 r	105.2 r
III	103.3 r	111.6 r	108.1 r	108.3 r	103.2 r	104.9 r	104.6 r	104.8 r
II	102.8 r	110.9 r	107.9 r	107.7 r	103.1 r	104.7 r	104.0 r	104.4 r
I	102.7 r	110.3 r	107.4 r	107.5 r	103.6 r	104.6 r	102.4 r	103.7 r
2015 ANNUAL	102.9 r	109.4 r	106.3 r	107.1 r	103.6 r	104.1 r	103.2 r	103.7 r
2015 IV	102.5 r	109.7 r	107.1 r	107.4 r	103.5 r	104.8 r	102.7 r	103.9 r
III	103.4 r	109.8 r	106.2 r	107.7 r	103.8 r	104.1 r	103.9 r	104.0 r
II	103.1 r	109.5 r	106.2 r	107.2 r	103.7 r	104.0 r	103.4 r	103.7 r
I	102.6 r	108.5 r	105.8 r	106.3 r	103.5 r	103.6 r	102.6 r	103.2 r
2014 ANNUAL	101.6 r	105.6 r	103.9 r	104.1 r	100.9 r	102.5 r	104.0 r	103.1 r
2014 IV	101.9 r	107.5 r	105.5 r	105.0 r	101.7 r	103.1 r	103.9 r	103.4 r
III	102.4 r	106.7 r	104.2 r	104.0 r	100.4 r	101.6 r	105.9 r	103.5 r
II	101.6 r	105.1 r	103.4 r	103.5 r	100.3 r	101.9 r	104.7 r	103.1 r
I	100.7 r	103.3 r	102.6 r	104.1 r	101.3 r	103.4 r	101.4 r	102.5 r

See footnotes following Table 6.
r=revisedAugust 15, 2019
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)								
2016 ANNUAL	0.3 r	1.7 r	1.4	1.1	-0.2	0.8 r	1.2	1.0 r
2016 IV	1.8 r	2.7 r	0.9	4.4 r	1.7 r	2.5 r	0.7 r	1.7 r
III	1.4 r	2.4 r	1.0	2.0 r	0.1 r	0.6 r	2.7 r	1.5
II	0.6 r	2.0 r	1.4 r	1.2 r	-1.6 r	0.6 r	6.4 r	3.1 r
I	1.2 r	2.3 r	1.1	0.4 r	0.5 r	-0.8 r	0.0 r	-0.5 r
2015 ANNUAL	1.3	3.5	2.1 r	3.1	2.9	1.7 r	-0.4 r	0.8
2015 IV	-3.5 r	-0.4 r	3.2	-0.8 r	-0.9	2.8 r	-4.2 r	-0.3 r
III	1.3 r	1.2 r	-0.1 r	1.8 r	0.2 r	0.5 r	2.0 r	1.2
II	1.7 r	3.7 r	2.0 r	3.1 r	0.3 r	1.4	3.0 r	2.1
I	2.9 r	3.8 r	0.8 r	5.3	8.0	2.3	-3.6 r	-0.3 r
2014 ANNUAL	0.9 r	3.2 r	2.3	2.8	1.1	1.9 r	1.6	1.8
2014 IV	-1.7 r	2.7 r	4.6 r	4.4 r	5.4 r	6.3 r	-7.3 r	0.0 r
III	3.7	6.5 r	2.7 r	2.5 r	1.4 r	-1.2 r	5.8 r	1.9 r
II	4.0 r	7.0 r	2.9 r	-1.9 r	-4.0 r	-5.7 r	13.0 r	2.0 r
I	-3.8 r	-1.9 r	2.0 r	8.1 r	5.3 r	12.4 r	-11.0 r	1.5 r

Percent change from corresponding quarter of previous year								
2016 ANNUAL	0.3 r	1.7 r	1.4	1.1	-0.2	0.8 r	1.2	1.0 r
2016 IV	1.2 r	2.4 r	1.1	2.0	0.2 r	0.7 r	2.4 r	1.4 r
III	-0.1	1.6	1.7	0.7 r	-0.5 r	0.8 r	1.1 r	0.9 r
II	-0.1 r	1.3 r	1.4 r	0.6 r	-0.5 r	0.8	1.0 r	0.9 r
I	0.1	1.7 r	1.6 r	1.1 r	0.0 r	1.0 r	0.2 r	0.6 r
2015 ANNUAL	1.3	3.5	2.1 r	3.1	2.9	1.7 r	-0.4 r	0.8
2015 IV	0.5 r	2.0 r	1.5	2.3 r	1.8 r	1.8	-0.8 r	0.7
III	1.0 r	2.8 r	1.8	3.6 r	3.4 r	2.6 r	-1.6 r	0.8
II	1.6	4.2	2.5	3.8	3.7	2.2 r	-0.7 r	0.9 r
I	2.2 r	5.0 r	2.7 r	2.5 r	2.6 r	0.3 r	1.7 r	0.9 r
2014 ANNUAL	0.9 r	3.2 r	2.3	2.8	1.1	1.9 r	1.6	1.8
2014 IV	0.5 r	3.5 r	3.0	3.2 r	2.0 r	2.7	-0.3 r	1.4 r
III	1.7 r	4.0 r	2.3 r	2.8 r	1.0 r	1.1	3.1 r	2.0 r
II	1.3 r	3.4 r	2.1	2.0 r	-0.2	0.7	3.8	2.0
I	-0.1 r	1.7	1.7	3.2 r	1.7 r	3.3 r	0.0 r	1.8 r

Indexes 2012=100								
2016 ANNUAL	103.0 r	111.0 r	107.8 r	108.5 r	103.6 r	105.4 r	104.8 r	105.1 r
2016 IV	103.6 r	112.0 r	108.2 r	109.7 r	103.9 r	106.0 r	105.7 r	105.9 r
III	103.1 r	111.3 r	107.9 r	108.6 r	103.4 r	105.3 r	105.5 r	105.4 r
II	102.7 r	110.6 r	107.7 r	108.0 r	103.4 r	105.2 r	104.9 r	105.0 r
I	102.6 r	110.1 r	107.3 r	107.7 r	103.8 r	105.0 r	103.2 r	104.2 r
2015 ANNUAL	102.7 r	109.1 r	106.2 r	107.3 r	103.8 r	104.5 r	103.6 r	104.1 r
2015 IV	102.3 r	109.4 r	107.0 r	107.6 r	103.7 r	105.2 r	103.2 r	104.4 r
III	103.2 r	109.6 r	106.1 r	107.8 r	103.9 r	104.5 r	104.4 r	104.4 r
II	102.9 r	109.2 r	106.2 r	107.4 r	103.9 r	104.3 r	103.8 r	104.1 r
I	102.5 r	108.3 r	105.6 r	106.5 r	103.8 r	104.0 r	103.1 r	103.6 r
2014 ANNUAL	101.4 r	105.4 r	104.0 r	104.1 r	100.9 r	102.7 r	104.0 r	103.3 r
2014 IV	101.7 r	107.3 r	105.4 r	105.2 r	101.8 r	103.4 r	104.0 r	103.7 r
III	102.2 r	106.5 r	104.3 r	104.0 r	100.5 r	101.8 r	106.0 r	103.6 r
II	101.2 r	104.9 r	103.6 r	103.4 r	100.1 r	102.1 r	104.5 r	103.2 r
I	100.3 r	103.1 r	102.8 r	103.9 r	101.2 r	103.6 r	101.4 r	102.7 r

See footnotes following Table 6.
r=revised

August 15, 2019
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)						
2016 ANNUAL	-0.1	-0.1	0.0	0.5 r	-0.7	0.6 r
2016 IV	2.7 r	2.8	0.1 r	5.1 r	2.4 r	2.3 r
III	1.0 r	1.8	0.8 r	1.9 r	0.0 r	0.9 r
II	-1.4	-1.5	-0.1 r	1.0 r	-1.8 r	2.5 r
I	1.9 r	0.9	-1.0 r	-1.8 r	-1.6 r	-3.6 r
2015 ANNUAL	-1.5 r	-0.6	1.0	2.5	2.3	4.1
2015 IV	-3.9 r	-2.0	2.0	-1.8	-1.9 r	2.2 r
III	2.1 r	0.5	-1.6 r	4.0 r	2.3 r	1.9 r
II	-1.4 r	-1.3	0.1	1.6 r	-1.1 r	3.1 r
I	-1.8 r	-3.2	-1.4 r	4.2 r	6.9 r	6.2 r
2014 ANNUAL	-0.3 r	1.3	1.6	2.7 r	1.0 r	3.0
2014 IV	-4.0	0.6	4.8 r	3.6 r	4.6 r	7.9 r
III	-0.8 r	1.6	2.4 r	1.8	0.7	2.6 r
II	0.8	4.2	3.4 r	-2.0 r	-4.1 r	-2.7 r
I	0.5	-1.2	-1.6 r	9.8 r	7.0 r	9.3 r

Percent change from corresponding quarter of previous year						
2016 ANNUAL	-0.1	-0.1	0.0	0.5 r	-0.7	0.6 r
2016 IV	1.0	1.0	0.0	1.5	-0.3	0.5 r
III	-0.7	-0.2	0.4 r	-0.2	-1.3 r	0.5
II	-0.4 r	-0.6	-0.2	0.3 r	-0.8 r	0.7 r
I	-0.4	-0.5	-0.1	0.5 r	-0.6 r	0.9 r
2015 ANNUAL	-1.5 r	-0.6	1.0	2.5	2.3	4.1
2015 IV	-1.3 r	-1.5	-0.2 r	2.0 r	1.5 r	3.3 r
III	-1.3 r	-0.9	0.4 r	3.4	3.1 r	4.7 r
II	-2.0	-0.6	1.4	2.8	2.7	4.9
I	-1.5	0.7	2.3 r	1.9 r	1.9 r	3.4 r
2014 ANNUAL	-0.3 r	1.3	1.6	2.7 r	1.0 r	3.0
2014 IV	-0.9 r	1.3	2.2 r	3.2	2.0 r	4.2 r
III	-0.3 r	1.7	2.0 r	2.3	0.4 r	2.5
II	-0.3	1.5	1.8	2.0	-0.1	2.3 r
I	0.4	0.8	0.4 r	3.5 r	2.0 r	3.0 r

Indexes 2012=100						
2016 ANNUAL	99.5 r	102.9	103.4 r	106.5 r	101.7 r	107.0 r
2016 IV	100.1 r	103.6	103.5 r	107.8 r	102.0 r	107.7 r
III	99.4 r	102.9	103.5 r	106.5 r	101.4 r	107.1 r
II	99.2 r	102.4	103.3 r	106.0 r	101.4 r	106.8 r
I	99.5 r	102.8	103.3 r	105.7 r	101.9 r	106.2 r
2015 ANNUAL	99.6 r	103.0	103.4 r	105.9 r	102.4 r	106.3 r
2015 IV	99.1 r	102.6	103.6 r	106.2 r	102.3 r	107.2 r
III	100.1 r	103.1	103.0 r	106.6 r	102.8 r	106.6 r
II	99.5 r	103.0	103.5 r	105.6 r	102.2 r	106.1 r
I	99.9 r	103.3	103.4 r	105.2 r	102.5 r	105.3 r
2014 ANNUAL	101.2 r	103.6	102.4 r	103.3 r	100.1 r	102.1 r
2014 IV	100.4 r	104.2	103.8 r	104.1 r	100.8 r	103.7 r
III	101.4 r	104.0	102.6 r	103.2 r	99.7 r	101.8 r
II	101.6 r	103.6	102.0 r	102.7 r	99.5 r	101.1 r
I	101.4 r	102.6	101.1 r	103.3 r	100.5 r	101.8 r

See footnotes following Table 6.
r=revised

August 15, 2019
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)						
2016 ANNUAL	-1.1	-1.6	-0.4	0.9 r	-0.4 r	2.0 r
2016 IV	2.2 r	2.5	0.3 r	5.7 r	3.0 r	3.4 r
III	2.9 r	2.9	0.0 r	2.4 r	0.5 r	-0.5 r
II	-0.6	-2.1	-1.5 r	1.3 r	-1.5 r	2.0 r
I	-1.3	-1.9	-0.5 r	-1.1 r	-1.0 r	0.2 r
2015 ANNUAL	-1.3	-0.7	0.6	3.1	2.9	4.4
2015 IV	-7.0	-5.5	1.6	-1.9 r	-1.9 r	5.5 r
III	1.9 r	-0.2	-2.1 r	4.0 r	2.3 r	2.0 r
II	-0.9 r	-1.6	-0.6 r	2.3 r	-0.5 r	3.2
I	-1.9 r	-3.9	-2.0 r	5.3 r	8.0 r	7.4 r
2014 ANNUAL	0.4	2.6	2.2	2.3	0.6	1.9
2014 IV	-1.7 r	1.0	2.7 r	5.3 r	6.3 r	7.1 r
III	-0.9 r	3.3	4.2 r	1.4 r	0.3 r	2.3 r
II	0.6 r	6.0	5.4 r	-2.9 r	-5.0 r	-3.5 r
I	1.2	-0.3	-1.5	9.9 r	7.1 r	8.6 r

Percent change from corresponding quarter of previous year						
2016 ANNUAL	-1.1	-1.6	-0.4	0.9 r	-0.4 r	2.0 r
2016 IV	0.8 r	0.3	-0.5 r	2.0 r	0.2 r	1.3 r
III	-1.6 r	-1.7	-0.1 r	0.2	-1.0 r	1.8 r
II	-1.8 r	-2.5	-0.7	0.6 r	-0.6 r	2.4 r
I	-1.9	-2.3	-0.4	0.8 r	-0.3 r	2.7
2015 ANNUAL	-1.3	-0.7	0.6	3.1	2.9	4.4
2015 IV	-2.0 r	-2.8	-0.8 r	2.4 r	1.9 r	4.5 r
III	-0.7	-1.2	-0.5	4.2 r	4.0 r	4.9 r
II	-1.4	-0.3	1.1	3.5 r	3.5 r	5.0 r
I	-1.0 r	1.5	2.5	2.2	2.3	3.2
2014 ANNUAL	0.4	2.6	2.2	2.3	0.6	1.9
2014 IV	-0.2 r	2.5	2.7 r	3.3 r	2.1 r	3.5 r
III	0.2 r	3.3	3.0	1.4 r	-0.4 r	1.2 r
II	0.4 r	2.8	2.4 r	1.4 r	-0.7 r	1.0 r
I	1.1	1.7	0.6 r	2.9	1.4	1.7 r

Indexes 2012=100						
2016 ANNUAL	99.3 r	102.7	103.5 r	106.2 r	101.4 r	106.9 r
2016 IV	100.0 r	103.4	103.4 r	107.7 r	101.9 r	107.7 r
III	99.5 r	102.8	103.4 r	106.2 r	101.2 r	106.8 r
II	98.8 r	102.1	103.4 r	105.6 r	101.0 r	106.9 r
I	98.9 r	102.6	103.8 r	105.2 r	101.4 r	106.4 r
2015 ANNUAL	100.4 r	104.4	103.9 r	105.2 r	101.8 r	104.8 r
2015 IV	99.2 r	103.1	103.9 r	105.5 r	101.7 r	106.3 r
III	101.1 r	104.6	103.5 r	106.0 r	102.2 r	104.9 r
II	100.6 r	104.6	104.0 r	105.0 r	101.6 r	104.4 r
I	100.8 r	105.1	104.2 r	104.4 r	101.7 r	103.6 r
2014 ANNUAL	101.7 r	105.1	103.3 r	102.1 r	98.9	100.4 r
2014 IV	101.3 r	106.1	104.7 r	103.1 r	99.8 r	101.7 r
III	101.7 r	105.8	104.0 r	101.8 r	98.3 r	100.0 r
II	102.0 r	105.0	103.0 r	101.4 r	98.2 r	99.4 r
I	101.8 r	103.5	101.6 r	102.1 r	99.5 r	100.3 r

See footnotes following Table 6.
r=revisedAugust 15, 2019
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)						
2016 ANNUAL	0.4	1.2	0.8	0.0	-1.3	-0.4
2016 IV	3.1 r	2.8	-0.2 r	3.8 r	1.1 r	0.7 r
III	-2.1 r	0.2	2.3 r	1.2 r	-0.7 r	3.3 r
II	-3.9 r	-1.6	2.4 r	0.7	-2.1	4.7 r
I	4.9 r	3.1	-1.7 r	-3.0 r	-2.9 r	-7.6 r
2015 ANNUAL	-1.2	0.5	1.7 r	1.5	1.3	2.7
2015 IV	-0.9 r	1.7	2.7 r	-1.7 r	-1.7 r	-0.7 r
III	2.2 r	1.5	-0.7 r	4.2 r	2.5 r	2.0 r
II	-1.6 r	-0.3	1.4 r	0.6 r	-2.1 r	2.3 r
I	-0.6 r	-1.0	-0.3 r	2.3 r	4.9 r	3.0 r
2014 ANNUAL	-0.1 r	0.5	0.6 r	3.5 r	1.8 r	3.6
2014 IV	-6.5 r	1.3	8.4 r	0.8 r	1.7 r	7.8 r
III	1.3	0.6	-0.7	2.2 r	1.1 r	0.8 r
II	2.9 r	3.0	0.1 r	-0.7 r	-2.8 r	-3.5 r
I	0.4	-1.4	-1.8	9.7 r	6.9 r	9.2 r

Percent change from corresponding quarter of previous year						
2016 ANNUAL	0.4	1.2	0.8	0.0	-1.3	-0.4
2016 IV	0.5 r	1.1	0.7	0.6 r	-1.2 r	0.2 r
III	-0.5	0.9	1.4 r	-0.7 r	-1.9 r	-0.2 r
II	0.5	1.2	0.6	0.0	-1.1	-0.5
I	1.1 r	1.5	0.4 r	0.0 r	-1.1 r	-1.1 r
2015 ANNUAL	-1.2	0.5	1.7 r	1.5	1.3	2.7
2015 IV	-0.3 r	0.5	0.7 r	1.3	0.9 r	1.6 r
III	-1.7 r	0.4	2.1 r	1.9 r	1.7 r	3.7 r
II	-1.9	0.2	2.1	1.5 r	1.4 r	3.4 r
I	-0.8 r	1.0	1.8	1.1 r	1.2 r	2.0 r
2014 ANNUAL	-0.1 r	0.5	0.6 r	3.5 r	1.8 r	3.6
2014 IV	-0.5	0.9	1.4	2.9 r	1.7 r	3.5 r
III	0.6 r	0.7	0.1 r	3.7 r	1.9 r	3.1 r
II	-0.3 r	0.5	0.7 r	3.0	0.8	3.3 r
I	0.0	0.1	0.1	4.6 r	3.0 r	4.6 r

Indexes 2012=100						
2016 ANNUAL	100.9 r	104.1	103.2 r	107.0 r	102.2 r	106.1 r
2016 IV	100.9 r	104.6	103.7 r	108.0 r	102.2 r	107.0 r
III	100.2 r	103.9	103.7 r	107.0 r	101.9 r	106.8 r
II	100.7 r	103.8	103.1 r	106.7 r	102.1 r	105.9 r
I	101.7 r	104.2	102.5 r	106.5 r	102.7 r	104.7 r
2015 ANNUAL	100.5 r	102.9	102.4 r	107.1 r	103.6 r	106.6 r
2015 IV	100.5 r	103.4	102.9 r	107.3 r	103.4 r	106.8 r
III	100.7 r	103.0	102.3 r	107.8 r	103.9 r	107.0 r
II	100.2 r	102.6	102.5 r	106.7 r	103.2 r	106.5 r
I	100.6 r	102.7	102.1 r	106.5 r	103.8 r	105.9 r
2014 ANNUAL	101.7 r	102.4	100.7 r	105.5 r	102.2 r	103.8 r
2014 IV	100.7 r	102.9	102.2 r	105.9 r	102.5 r	105.1 r
III	102.5 r	102.6	100.1 r	105.7 r	102.1 r	103.2 r
II	102.1 r	102.4	100.3 r	105.1 r	101.8 r	103.0 r
I	101.4	101.7	100.3	105.3 r	102.5 r	103.9 r

See footnotes following Table 6.
r=revisedAugust 15, 2019
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)										
2016 ANNUAL	-1.1 r	0.3 r	1.4 r	1.1	-0.2	2.3 r	1.1 r	1.9 r	-6.3 r	0.8 r
2016 IV	-0.4 r	0.2 r	0.6	3.2 r	0.6 r	3.7 r	5.8 r	4.3 r	-15.8 r	1.6 r
III	0.0 r	1.7 r	1.7 r	1.3 r	-0.6 r	1.2 r	1.0 r	1.2 r	1.3 r	1.2 r
II	-6.9 r	-5.9 r	1.1 r	0.7 r	-2.1 r	8.2 r	9.2 r	8.5 r	-22.1 r	3.9 r
I	3.7 r	4.0 r	0.3 r	2.4 r	2.5 r	-1.3 r	-14.9 r	-6.0 r	28.2 r	-2.1 r
2015 ANNUAL	1.2	3.4	2.2	3.0	2.8 r	1.8	0.9 r	1.5 r	-4.7 r	0.6
2015 IV	-3.7 r	-0.3 r	3.5	-1.3	-1.3	2.5 r	16.5 r	6.9 r	-34.9 r	0.1 r
III	1.3 r	3.1 r	1.7 r	1.0 r	-0.7 r	-0.4 r	-0.7 r	-0.5 r	12.9	1.3 r
II	-1.9 r	-0.9 r	1.0 r	2.4 r	-0.4 r	4.4 r	4.5 r	4.4 r	-9.5 r	2.4 r
I	3.9 r	4.8 r	0.8 r	9.0 r	11.8 r	4.9 r	-1.6 r	2.7 r	-23.9 r	-1.7 r
2014 ANNUAL	0.4	3.2 r	2.7	2.6 r	0.9 r	2.2	1.2	1.8 r	0.9 r	1.7
2014 IV	1.0 r	4.7 r	3.6 r	2.0 r	3.0 r	1.0 r	-0.7 r	0.4 r	-1.9 r	0.1 r
III	3.7 r	7.1 r	3.2 r	0.7 r	-0.3 r	-2.9 r	-2.4 r	-2.7 r	28.9 r	1.4 r
II	-0.3 r	4.5 r	4.9 r	-2.7 r	-4.8 r	-2.4 r	0.1 r	-1.6 r	47.0 r	4.0 r
I	1.6 r	3.2 r	1.5	11.5 r	8.7 r	9.8 r	0.9 r	6.7 r	-27.3 r	1.3 r

Percent change from corresponding quarter of previous year										
2016 ANNUAL	-1.1 r	0.3 r	1.4 r	1.1	-0.2	2.3 r	1.1 r	1.9 r	-6.3 r	0.8 r
2016 IV	-1.0 r	-0.1 r	0.9	1.9	0.1 r	2.9 r	-0.2 r	1.9 r	-3.9 r	1.1 r
III	-1.8 r	-0.2 r	1.6	0.8 r	-0.4 r	2.6 r	2.2 r	2.5 r	-9.9 r	0.7 r
II	-1.5 r	0.1 r	1.6 r	0.7 r	-0.4 r	2.2 r	1.8 r	2.1 r	-7.5 r	0.8 r
I	-0.2 r	1.4 r	1.6	1.1 r	0.0 r	1.3 r	0.7 r	1.1 r	-3.9 r	0.4 r
2015 ANNUAL	1.2	3.4	2.2	3.0	2.8 r	1.8	0.9 r	1.5 r	-4.7 r	0.6
2015 IV	-0.1	1.6 r	1.8	2.7 r	2.2 r	2.8 r	4.4 r	3.4 r	-15.7 r	0.5
III	1.1	2.9 r	1.8	3.6 r	3.3 r	2.5 r	0.3 r	1.8 r	-6.5 r	0.5
II	1.7	3.9 r	2.1	3.5 r	3.4 r	1.8 r	-0.1 r	1.2 r	-3.4 r	0.5 r
I	2.1	5.3	3.1 r	2.2 r	2.2 r	0.1 r	-1.2 r	-0.3 r	9.1 r	0.9 r
2014 ANNUAL	0.4	3.2 r	2.7	2.6 r	0.9 r	2.2	1.2	1.8 r	0.9 r	1.7
2014 IV	1.5 r	4.8 r	3.3 r	2.8 r	1.5 r	1.2 r	-0.5 r	0.6 r	7.9 r	1.7 r
III	1.1 r	4.1 r	2.9	2.6 r	0.8 r	1.5 r	0.8 r	1.3 r	7.8	2.2 r
II	-0.7 r	2.0	2.8	2.0 r	-0.2 r	2.7	2.5	2.7 r	-1.3 r	2.1 r
I	-0.2 r	1.8 r	1.9 r	3.0 r	1.5 r	3.2 r	2.1	2.8 r	-10.8 r	0.8 r

Indexes 2012=100										
2016 ANNUAL	100.9 r	109.7 r	108.7 r	108.4 r	103.5 r	107.3 r	104.5 r	106.4 r	93.0 r	104.5 r
2016 IV	100.4 r	109.6 r	109.1 r	109.2 r	103.4 r	108.8 r	106.4 r	108.0 r	88.7 r	105.2 r
III	100.5 r	109.5 r	108.9 r	108.3 r	103.2 r	107.8 r	104.9 r	106.8 r	92.6 r	104.8 r
II	100.5 r	109.0 r	108.5 r	108.0 r	103.4 r	107.5 r	104.6 r	106.5 r	92.3 r	104.5 r
I	102.3 r	110.7 r	108.2 r	107.8 r	103.9 r	105.4 r	102.3 r	104.4 r	98.3 r	103.5 r
2015 ANNUAL	102.1 r	109.3 r	107.1 r	107.2 r	103.7 r	105.0 r	103.4 r	104.4 r	99.3 r	103.7
2015 IV	101.4 r	109.6 r	108.1 r	107.2 r	103.3 r	105.7 r	106.5 r	106.0 r	92.3 r	104.0 r
III	102.4 r	109.7 r	107.2 r	107.5 r	103.6 r	105.1 r	102.6 r	104.2 r	102.8 r	104.0 r
II	102.0 r	108.9 r	106.7 r	107.3 r	103.8 r	105.1 r	102.7 r	104.3 r	99.7 r	103.7 r
I	102.5 r	109.1 r	106.5 r	106.6 r	103.9 r	104.0 r	101.6 r	103.2 r	102.3 r	103.1 r
2014 ANNUAL	100.9 r	105.8 r	104.8 r	104.0 r	100.8 r	103.1	102.5 r	102.9 r	104.2 r	103.1 r
2014 IV	101.5 r	107.9 r	106.3 r	104.3 r	101.0 r	102.8 r	102.0 r	102.5 r	109.5 r	103.5 r
III	101.3 r	106.6 r	105.3 r	103.8 r	100.3 r	102.5 r	102.2 r	102.4 r	110.0 r	103.5 r
II	100.3 r	104.8 r	104.5 r	103.6 r	100.4 r	103.3 r	102.8 r	103.1 r	103.2 r	103.1 r
I	100.4 r	103.7 r	103.3 r	104.4 r	101.6 r	103.9 r	102.8 r	103.5 r	93.7 r	102.1 r

See footnotes following Table 6.
r=revised

August 15, 2019
Source: Bureau of Labor Statistics