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PRODUCTIVITY AND COSTS

Second Quarter 2020, Preliminary

Nonfarm business sector labor productivity increased 7.3 percent in the second quarter of 2020, the U.S. Bureau of Labor Statistics reported today, as output decreased 38.9 percent and hours worked decreased 43.0 percent. (All quarterly percent changes in this release are seasonally adjusted annual rates, and show what the percent change would be if the quarterly rate continued for four quarters.) In the four quarters from the second quarter of 2019 to the second quarter of 2020, productivity increased 2.2 percent, reflecting an 11.8-percent decrease in output and a 13.7-percent decrease in hours worked. (See chart 1 and table A1.)

Chart 1. Labor productivity, nonfarm business, 2016Q1 – 2020Q2

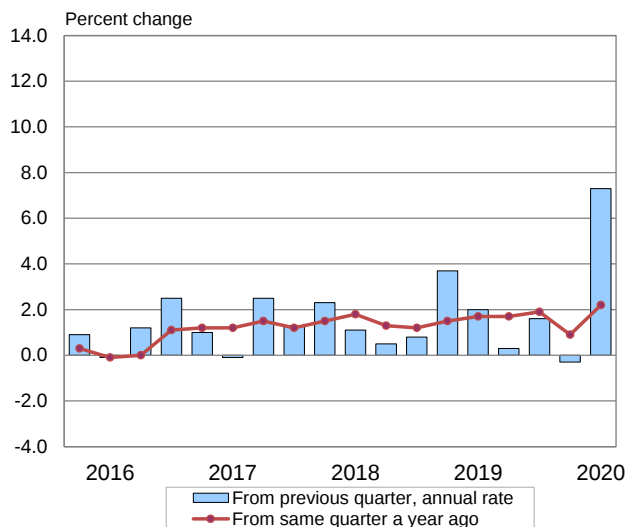
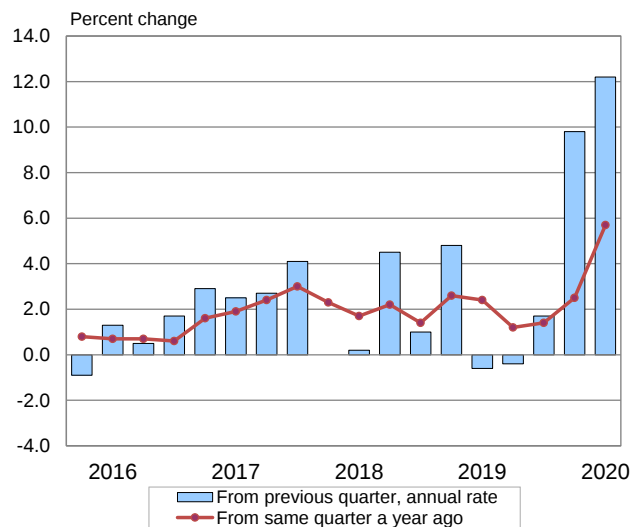


Chart 2. Unit labor costs, nonfarm business, 2016Q1 – 2020Q2



Unit labor costs in the nonfarm business sector increased at an annual rate of 12.2 percent in the second quarter of 2020, following an increase of 9.8 percent in the first quarter. Unit labor costs increased 5.7 percent over the last four quarters. (See chart 2.)

Historical Revisions to Productivity and Costs Data

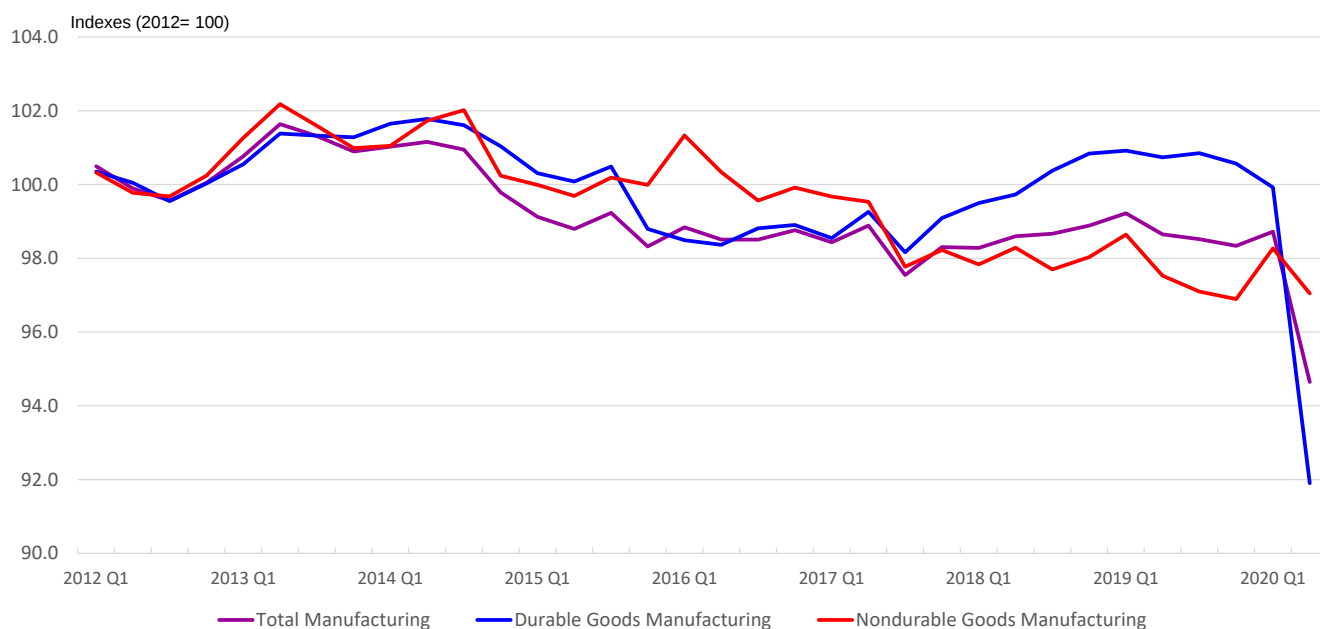
Data in this release reflect the 2020 Annual Update of the National Income and Product Accounts (NIPA) released by the Bureau of Economic Analysis of the U.S. Department of Commerce on July 30, 2020, and revised measures of output for the manufacturing sectors released by BLS on July 21, 2020. See “Revised measures” section on page 3.

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. The 7.3-percent increase in **nonfarm business sector labor productivity** in the second quarter of 2020 was the largest quarterly increase since the second quarter of 2009, when output per hour increased 8.5 percent. The declines in both output and hours worked in the second quarter of 2020 were the largest in these series, which begin with data for first-quarter 1947.

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 labor productivity tend to reduce unit labor costs. The 12.2-percent increase in unit labor costs in second-quarter 2020 was the largest increase in this measure since the first quarter of 2014 (12.4 percent), and reflects a 20.4-percent increase in hourly compensation and a 7.3-percent increase in productivity. (See tables A1 and 2.)

Manufacturing sector labor productivity decreased at a 15.5 percent annual rate in the second quarter of 2020, as output fell 47.0 percent and hours worked dropped 37.3 percent. These were the largest quarterly declines in each of these series, which begin with data for 1987. Total manufacturing sector productivity declined 4.1 percent over the last four quarters, as output decreased 15.8 percent and hours worked decreased 12.2 percent. Productivity decreased 28.4 percent in the durable manufacturing sector in the second quarter of 2020, reflecting a 58.1-percent decrease in output and a 41.5-percent decrease in hours worked. Productivity decreased 4.9 percent in the nondurable manufacturing sector, as output decreased 33.2 percent and hours worked decreased 29.8 percent. (See tables A1, 3, 4, 5 and chart 3.)

Chart 3. Labor productivity indexes, manufacturing sectors, all persons, 2012 Q1 – 2020 Q2



Unit labor costs in the total manufacturing sector increased 31.1 percent in the second quarter of 2020, and increased 9.4 percent from the same quarter a year ago. The increase in unit labor costs in the second quarter of 2020 was the largest in the series for total manufacturing, as were unit labor cost increases in the durable manufacturing and nondurable manufacturing sectors. (See table A1.)

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 7.)

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 30 by the Bureau of Economic Analysis, U.S. Department of Commerce. Measures of output for the manufacturing sectors incorporate revised annual benchmark data through 2018 released July 21 by BLS that incorporate Census Bureau Annual Survey of Manufactures data. As a result, all measures incorporating output, including labor productivity and unit labor costs, were revised back to 2015 for the business and nonfarm business sectors, back to 1999 for the nonfinancial corporate sector, and back to 1987 for the manufacturing sector. Because nonfinancial corporate sector output was revised in the index base year of 2012, all measures incorporating output were subject to further revision back to 1947; resulting revisions to percent changes are small.

Measures of hours worked for all sectors incorporate regular updates of source data for the first quarter of 2020. Hours worked and related measures for the business and nonfarm business sectors were revised back to 2013 due to revised NIPA data on government enterprises employment and on the proportion of industry compensation paid to employees of nonprofit institutions. Hours worked and related measures were subject to revision back to 2015 for the nonfinancial corporate sector due to the incorporation of revised NIPA data on the proportion of industry compensation paid to employees of corporations. Table B1 presents revised and previous labor productivity and related measures for the nonfarm business, business, and manufacturing sectors for the first quarter of 2020. Table A2 presents these measures for the nonfinancial corporate sector.

Nonfarm business sector productivity decreased 0.3 percent in the **first quarter of 2020**, a smaller decline than previously reported (-0.9 percent), reflecting a 0.5-percentage point downward revision to hours worked and a 0.1-percentage point upward revision to output. (See table B1.) A large upward revision to first-quarter unit labor costs—from an increase of 5.1 percent to an increase of 9.8 percent—reflected a 5.2-percentage point upward revision to hourly compensation that was partially offset by the 0.6-percentage point upward revision to productivity. Hourly compensation increased at a 9.4-percent annual rate in the first quarter of 2020, and real hourly compensation increased 8.1 percent.

Manufacturing sector productivity was revised up and increased 1.6 percent in the **first quarter of 2020**, 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 2020, total manufacturing unit labor costs increased 4.6 percent rather than increasing 6.9 percent as reported June 4, reflecting a 1.1-percentage point downward revision to hourly compensation and a 1.3-percentage point upward revision to productivity. (See table B1.)

Nonfinancial corporate sector productivity growth was revised up in the **first quarter of 2020**, to an increase of 0.3 percent, rather than the previously published decline of 1.3 percent. This revision was due both to a 1.1-percentage point upward revision to output and a 0.5-percentage point downward revision to hours worked; output declined 3.9 percent and hours worked decreased 4.2 percent. Productivity in nonfinancial corporations increased 0.4 percent from the first quarter of 2019 to the first quarter of 2020. Unit labor costs in the nonfinancial corporate sector were revised upward to an increase of 8.0 percent in the first quarter of 2020 from a preliminary estimate of 5.6 percent, as a large upward revision to hourly compensation was partially offset by an upward revision to productivity. Unit labor costs increased 2.5 percent from the same quarter last year. (See table A2.) Unit profits were revised down 0.9-percentage point and declined at a 44.2-percent annual rate in first-quarter 2020. (See table 6.)

Annual averages

Table C1 presents annual data for the nonfarm business, total manufacturing, and nonfinancial corporate sectors from 2017 to 2019. Annual average percent changes compare average annual indexes from one year to the next.

Annual average productivity in the **nonfarm business sector** increased 1.7 percent in 2019, rather than increasing 1.9 percent as previously reported. Productivity increased 1.4 percent in 2018 and 1.2 percent in 2017. The average annual rate of productivity growth from 2007 to 2019—representing the most recent business cycle—was unchanged at 1.4 percent. Unit labor costs were revised up 0.1 percentage point to increases of 1.9 percent in both 2019 and 2018. (See table C1.)

Annual average **manufacturing sector** productivity grew 0.1 percent in 2019 as previously reported, and was revised down slightly to a 0.3-percent increase in 2018. The average annual rate of manufacturing productivity growth from 2007 to 2019 was revised up 0.1 percentage point, to 0.5 percent. A downward revision to unit labor costs of 0.5 percentage point in 2019, resulting in a 2.8-percent increase in this measure, reflected a similar downward revision to hourly compensation. Manufacturing sector unit labor costs increased 1.8 percent in 2018 and 3.6 percent in 2017. (See tables C1, 3, 4, and 5.)

Annual average productivity in the **nonfinancial corporate sector** was revised downward in 2019, from a 1.9-percent increase to a 0.6-percent increase. Productivity was revised up in both 2018 and 2017, from no change to a 0.6 percent increase in 2018, and from a 0.3-percent increase to a 0.9-percent increase in 2017. (See tables C1 and 6.) The average annual rate of productivity growth in the nonfinancial corporate sector from 2007 to 2019 was unrevised at 0.8 percent per year.

Appendix tables 1-6 and tables 1-6 present quarterly and annual data from first-quarter 2015 to second-quarter 2020. Complete quarterly and annual 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 2020 is scheduled to be released on Thursday, September 3, 2020 at 8:30 a.m. (ET).

Coronavirus (COVID-19) Pandemic Impact on Productivity Data

BLS quarterly estimates of labor productivity combine output data with hours worked data based primarily on BLS Current Employment Statistics (CES) survey and supplemented with data from the Current Population Survey (CPS). The March reference period for these surveys largely predated many of the COVID-19-related job losses that occurred in the latter part of March. To capture these job losses, adjustments were made to employment and hours using supplementary data. Hours worked and related measures—including labor productivity—for the first quarter of 2020 reflect these adjustments.

Given the continued rapid changes in the economy, BLS explored the possibility of adjusting second quarter (Q2) estimates. BLS compared several adjustment methods for Q2 and found that the economic movements between April and June tended to be offsetting resulting in Q2 results that were similar to the usual methodology. Therefore no adjustments were made to Q2. For more information see www.bls.gov/covid19/productivity-and-costs-covid19-impacts-second-quarter-2020-preliminary.htm.

Table A1. Labor productivity growth and related measures - preliminary second-quarter 2020
(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	7.3	-38.9	-43.0	20.4	24.8	12.2
	A year ago	2.2	-11.8	-13.7	8.0	7.5	5.7
Business	Previous quarter	6.6	-38.7	-42.5	19.7	24.1	12.3
	A year ago	2.0	-11.6	-13.4	7.7	7.2	5.6
Manufacturing	Previous quarter	-15.5	-47.0	-37.3	10.7	14.8	31.1
	A year ago	-4.1	-15.8	-12.2	5.0	4.5	9.4
Durable manufacturing	Previous quarter	-28.4	-58.1	-41.5	8.9	12.9	52.2
	A year ago	-8.8	-21.6	-14.1	4.5	4.0	14.5
Nondurable manufacturing	Previous quarter	-4.9	-33.2	-29.8	16.0	20.3	22.0
	A year ago	-0.5	-9.5	-9.0	6.4	6.0	6.9

Table A2. Labor productivity growth and related measures - revised and previously published first-quarter 2020
(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	0.3	-3.9	-4.2	8.4	7.1	8.0
	Previously published	-1.3	-5.0	-3.7	4.2	3.0	5.6

Table B1. Labor productivity growth and related measures - revised and previously published first-quarter 2020
(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	-0.3	-6.4	-6.1	9.4	8.1	9.8
	Previously published	-0.9	-6.5	-5.6	4.2	2.9	5.1
Business	Revised	0.0	-6.0	-6.0	9.2	7.9	9.2
	Previously published	-0.7	-6.3	-5.6	3.9	2.7	4.7
Manufacturing	Revised	1.6	-5.6	-7.0	6.2	4.9	4.6
	Previously published	0.3	-6.3	-6.6	7.3	6.0	6.9
Durable manufacturing	Revised	-2.5	-9.7	-7.4	4.6	3.3	7.3
	Previously published	-3.5	-10.2	-6.9	7.5	6.2	11.4
Nondurable manufacturing	Revised	5.8	-1.0	-6.4	9.6	8.3	3.6
	Previously published	4.3	-2.0	-6.1	6.8	5.5	2.4

Table C1. Labor productivity growth and related measures - revised and previous annual average changes: 2017-2019

Sector	Year		Labor productivity	Output	Hours worked	Hourly compensation	Real hourly compensation	Unit labor costs
Nonfarm business	2019	Revised	1.7	2.5	0.7	3.6	1.8	1.9
		Previously published	1.9	2.7	0.7	3.8	1.9	1.8
	2018	Revised	1.4	3.5	2.0	3.4	0.9	1.9
		Previously published	1.4	3.5	2.0	3.3	0.8	1.8
	2017	Revised	1.2	2.8	1.5	3.5	1.3	2.2
		Previously published	1.3	2.9	1.5	3.5	1.3	2.1
Manufacturing	2019	Revised	0.1	0.0	-0.1	2.9	1.1	2.8
		Previously published	0.1	0.0	-0.1	3.4	1.5	3.3
	2018	Revised	0.3	2.2	1.9	2.1	-0.3	1.8
		Previously published	0.4	2.3	1.9	2.2	-0.3	1.8
	2017	Revised	-0.4	0.6	1.0	3.2	1.1	3.6
		Previously published	-0.4	0.6	1.0	3.6	1.4	4.0
Nonfinancial corporate	2019	Revised	0.6	1.6	0.9	3.7	1.9	3.1
		Previously published	1.9	2.8	0.9	3.5	1.6	1.5
	2018	Revised	0.6	2.6	1.9	3.5	1.0	2.8
		Previously published	0.0	1.9	1.9	3.4	1.0	3.4
	2017	Revised	0.9	2.6	1.7	3.3	1.1	2.4
		Previously published	0.3	2.0	1.7	3.3	1.1	3.0

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.

Detailed hours data are presented in the table “Hours Worked in Total U.S. Economy and Subsectors” on the BLS website (https://www.bls.gov/lpc/special_requests/us_total_hrs_emp.xlsx).

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 78 percent of the value of GDP in 2019. Nonfarm business, which excludes farming, accounted for about 77 percent of GDP in 2019.

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 50 percent of the value of GDP in 2019.

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/lpcmmethods.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)								
2020 II	6.6	-38.7	-42.5	19.7	24.1	12.3	-24.2	-4.5
I	0.0 r	-6.0 r	-6.0 r	9.2 r	7.9 r	9.2 r	-9.4 r	0.8 r
2019 ANNUAL	1.7 r	2.4 r	0.7	3.6 r	1.8 r	1.9 r	0.9 r	1.5 r
2019 IV	1.4 r	2.8 r	1.4	3.1 r	0.7 r	1.7 r	0.6 r	1.2 r
III	0.2 r	2.9 r	2.7	-0.1 r	-1.9 r	-0.3 r	2.9 r	1.1 r
II	2.2 r	1.3 r	-0.9	1.7 r	-1.3 r	-0.5 r	7.8 r	3.0
I	3.6 r	3.6 r	0.0	8.8 r	7.9 r	5.0 r	-5.4 r	0.4 r
2018 ANNUAL	1.6 r	3.5 r	1.9	3.4	0.9	1.8 r	2.7 r	2.2 r
2018 IV	0.7 r	1.5 r	0.8	1.5 r	0.3 r	0.9 r	2.2 r	1.4 r
III	0.1 r	2.3 r	2.1	4.7 r	2.5 r	4.5 r	-3.0 r	1.1 r
II	1.7 r	3.0 r	1.3	1.7 r	-0.5 r	-0.1 r	8.4 r	3.6
I	2.9 r	4.5 r	1.6	2.7 r	-0.6 r	-0.2 r	5.0 r	2.0
Percent change from corresponding quarter of previous year								
2020 II	2.0	-11.6	-13.4	7.7	7.2	5.6	-8.2	-0.4
I	0.9 r	0.2 r	-0.8 r	3.4 r	1.3 r	2.4 r	0.3 r	1.5
2019 ANNUAL	1.7 r	2.4 r	0.7	3.6 r	1.8 r	1.9 r	0.9 r	1.5 r
2019 IV	1.8 r	2.6 r	0.8	3.3 r	1.3 r	1.4 r	1.4 r	1.4 r
III	1.7	2.3 r	0.6	2.9 r	1.1 r	1.2 r	1.8 r	1.5 r
II	1.7 r	2.2 r	0.5	4.1 r	2.3	2.4 r	0.2 r	1.5 r
I	1.5 r	2.6 r	1.0	4.1 r	2.5 r	2.6 r	0.4 r	1.6 r
2018 ANNUAL	1.6 r	3.5 r	1.9	3.4	0.9	1.8 r	2.7 r	2.2 r
2018 IV	1.3 r	2.8 r	1.4	2.6 r	0.4 r	1.3 r	3.1 r	2.0 r
III	1.3	3.6	2.2	3.4 r	0.7 r	2.1 r	2.7 r	2.3 r
II	2.0 r	3.9 r	1.9	3.7	1.0	1.6 r	3.7 r	2.5 r
I	1.6 r	3.7 r	2.1	3.9 r	1.6 r	2.3 r	1.3 r	1.9 r
Indexes 2012=100								
2020 II	110.4	106.9	96.9	129.4	115.7	117.2	100.2	109.7
I	108.7 r	120.8 r	111.2 r	123.7 r	109.6 r	113.8 r	107.4 r	111.0 r
2019 ANNUAL	108.2 r	121.6 r	112.3 r	120.2 r	107.8 r	111.1 r	109.0 r	110.2 r
2019 IV	108.7 r	122.7 r	113.0 r	121.0 r	107.6 r	111.4 r	110.1 r	110.8 r
III	108.3 r	121.9 r	112.6 r	120.1 r	107.4 r	110.9 r	109.9 r	110.4 r
II	108.3 r	121.0 r	111.8 r	120.1 r	107.9 r	111.0 r	109.1 r	110.2 r
I	107.7 r	120.6 r	112.1 r	119.6 r	108.3 r	111.1 r	107.1 r	109.4 r
2018 ANNUAL	106.4 r	118.7 r	111.5 r	116.0 r	105.9 r	109.0 r	108.0 r	108.6 r
2018 IV	106.7 r	119.6 r	112.1 r	117.1 r	106.2 r	109.8 r	108.6 r	109.3 r
III	106.5 r	119.1 r	111.8 r	116.7 r	106.2 r	109.5 r	108.0 r	108.9 r
II	106.5 r	118.5 r	111.3 r	115.4 r	105.5 r	108.3 r	108.8 r	108.5 r
I	106.0 r	117.6 r	110.9 r	114.9 r	105.6 r	108.3 r	106.7 r	107.6 r

See footnotes following Table 6.
r=revised

August 14, 2020
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)								
2020 II	7.3	-38.9	-43.0	20.4	24.8	12.2	-22.6	-3.6
I	-0.3 r	-6.4 r	-6.1 r	9.4 r	8.1 r	9.8 r	-10.0 r	0.8 r
2019 ANNUAL	1.7 r	2.5 r	0.7	3.6 r	1.8 r	1.9 r	1.1 r	1.5 r
2019 IV	1.6 r	2.8 r	1.2	3.3 r	0.9 r	1.7 r	0.6 r	1.2 r
III	0.3 r	2.9 r	2.6	-0.2 r	-2.0 r	-0.4 r	2.9 r	1.0 r
II	2.0 r	1.2 r	-0.7	1.4 r	-1.6 r	-0.6 r	8.0 r	3.0 r
I	3.7 r	3.8 r	0.1	8.7 r	7.7 r	4.8 r	-5.2 r	0.4 r
2018 ANNUAL	1.4	3.5	2.0	3.4 r	0.9 r	1.9 r	2.7 r	2.2 r
2018 IV	0.8 r	1.4 r	0.7	1.8 r	0.5 r	1.0 r	1.9 r	1.4 r
III	0.5 r	2.3 r	1.8	5.1 r	2.9 r	4.5 r	-2.4 r	1.4 r
II	1.1 r	3.0 r	1.8	1.3 r	-0.9 r	0.2 r	8.3 r	3.6
I	2.3 r	4.3 r	2.0	2.2 r	-1.0 r	0.0 r	4.9 r	2.1 r
Percent change from corresponding quarter of previous year								
2020 II	2.2	-11.8	-13.7	8.0	7.5	5.7	-7.9	-0.2
I	0.9 r	0.1 r	-0.8 r	3.4 r	1.3 r	2.5 r	0.1 r	1.5
2019 ANNUAL	1.7 r	2.5 r	0.7	3.6 r	1.8 r	1.9 r	1.1 r	1.5 r
2019 IV	1.9 r	2.7	0.8	3.3 r	1.2 r	1.4 r	1.4 r	1.4 r
III	1.7	2.3 r	0.6 r	2.9 r	1.1 r	1.2 r	1.8 r	1.4 r
II	1.7 r	2.2 r	0.4	4.2	2.3 r	2.4 r	0.5 r	1.6 r
I	1.5 r	2.6 r	1.1	4.2 r	2.5 r	2.6 r	0.5 r	1.7 r
2018 ANNUAL	1.4	3.5	2.0	3.4 r	0.9 r	1.9 r	2.7 r	2.2 r
2018 IV	1.2 r	2.7 r	1.6	2.6 r	0.4 r	1.4 r	3.1 r	2.1
III	1.3 r	3.6	2.2	3.5 r	0.8 r	2.2 r	2.7 r	2.4 r
II	1.8 r	3.9 r	2.1	3.5	0.8	1.7 r	3.7	2.6
I	1.5 r	3.7 r	2.2	3.8 r	1.6 r	2.3 r	1.4 r	1.9 r
Indexes 2012=100								
2020 II	110.2	106.5	96.6	129.8	116.1	117.8	101.4	110.6
I	108.3 r	120.5 r	111.2 r	123.9 r	109.8 r	114.4 r	108.1 r	111.7 r
2019 ANNUAL	107.9 r	121.3 r	112.4 r	120.4 r	107.9 r	111.5 r	110.0 r	110.8 r
2019 IV	108.4 r	122.5 r	113.0 r	121.2 r	107.7 r	111.8 r	111.0 r	111.4 r
III	108.0 r	121.6 r	112.7 r	120.2 r	107.5 r	111.3 r	110.8 r	111.1 r
II	107.9 r	120.8 r	111.9 r	120.2 r	108.0 r	111.4 r	110.1 r	110.8 r
I	107.4 r	120.4 r	112.1 r	119.8 r	108.4 r	111.6 r	108.0 r	110.0 r
2018 ANNUAL	106.1 r	118.4 r	111.6 r	116.2 r	106.0 r	109.5 r	108.8 r	109.2 r
2018 IV	106.4 r	119.3 r	112.1 r	117.3 r	106.4 r	110.3 r	109.4 r	109.9 r
III	106.2 r	118.9 r	111.9 r	116.8 r	106.3 r	110.0 r	108.9 r	109.5 r
II	106.1 r	118.2 r	111.4 r	115.4 r	105.5 r	108.8 r	109.6 r	109.1 r
I	105.8 r	117.3 r	110.9 r	115.0 r	105.8 r	108.8 r	107.4 r	108.2 r

See footnotes following Table 6.
r=revised

August 14, 2020
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)						
2020 II	-15.5	-47.0	-37.3	10.7	14.8	31.1
I	1.6 r	-5.6 r	-7.0 r	6.2 r	4.9 r	4.6 r
2019 ANNUAL	0.1	0.0	-0.1	2.9 r	1.1 r	2.8 r
2019 IV	-0.7 r	-0.2	0.5	5.2 r	2.8 r	6.0 r
III	-0.5	0.9	1.4	-1.9 r	-3.7 r	-1.4 r
II	-2.3	-3.1	-0.9	1.4 r	-1.6 r	3.8 r
I	1.3	-1.7	-3.1	6.9 r	6.0 r	5.5 r
2018 ANNUAL	0.3 r	2.2 r	1.9	2.1 r	-0.3	1.8
2018 IV	0.9	1.6	0.6	3.4 r	2.1 r	2.4 r
III	0.3	4.0	3.7	3.6 r	1.5 r	3.3 r
II	1.3 r	2.6 r	1.3	-3.4 r	-5.5 r	-4.7 r
I	-0.1 r	1.8 r	1.9	2.5 r	-0.8 r	2.6 r
Percent change from corresponding quarter of previous year						
2020 II	-4.1	-15.8	-12.2	5.0	4.5	9.4
I	-0.5 r	-2.0 r	-1.5 r	2.7 r	0.6 r	3.2 r
2019 ANNUAL	0.1	0.0	-0.1	2.9 r	1.1 r	2.8 r
2019 IV	-0.6	-1.1	-0.5	2.9 r	0.8 r	3.4 r
III	-0.1	-0.6	-0.5	2.4 r	0.6 r	2.6 r
II	0.1	0.1	0.1	3.8 r	2.0 r	3.8 r
I	1.0	1.6	0.6	2.6 r	0.9 r	1.6 r
2018 ANNUAL	0.3 r	2.2 r	1.9	2.1 r	-0.3	1.8
2018 IV	0.6	2.5	1.9	1.5 r	-0.7 r	0.9 r
III	1.1 r	3.3 r	2.2	1.9 r	-0.8	0.7 r
II	-0.3	1.7	2.0	1.6 r	-1.1 r	1.9
I	-0.2 r	1.4	1.6	3.6 r	1.4 r	3.8 r
Indexes 2012=100						
2020 II	94.6	88.2	93.1	121.2	108.4	128.1
I	98.7 r	103.3 r	104.7 r	118.2 r	104.7 r	119.7 r
2019 ANNUAL	98.7 r	105.0 r	106.4	115.5 r	103.5 r	117.1 r
2019 IV	98.3 r	104.8 r	106.6	116.4 r	103.5 r	118.4 r
III	98.5 r	104.9 r	106.5	115.0 r	102.8 r	116.7 r
II	98.6 r	104.7 r	106.1	115.5 r	103.8 r	117.1 r
I	99.2 r	105.5 r	106.3	115.1 r	104.2 r	116.0 r
2018 ANNUAL	98.6 r	105.0 r	106.4	112.2 r	102.4 r	113.8 r
2018 IV	98.9 r	106.0 r	107.1	113.2 r	102.7 r	114.5 r
III	98.7 r	105.5 r	107.0	112.3 r	102.1 r	113.8 r
II	98.6 r	104.5 r	106.0	111.3 r	101.8 r	112.9 r
I	98.3 r	103.8 r	105.7	112.2 r	103.2 r	114.2 r

See footnotes following Table 6.
r=revised

August 14, 2020
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)						
2020 II	-28.4	-58.1	-41.5	8.9	12.9	52.2
I	-2.5 r	-9.7 r	-7.4 r	4.6 r	3.3 r	7.3 r
2019 ANNUAL	0.7 r	0.8 r	0.2	2.4 r	0.5 r	1.7 r
2019 IV	-1.1 r	-1.5 r	-0.4	8.0 r	5.5 r	9.2 r
III	0.4 r	1.5	1.1	-3.2 r	-4.9 r	-3.6 r
II	-0.7	-2.3	-1.6	0.4 r	-2.5 r	1.1 r
I	0.3	-2.7	-3.0	6.9 r	5.9 r	6.6 r
2018 ANNUAL	1.4 r	3.6 r	2.2	2.7 r	0.2	1.3 r
2018 IV	1.8 r	5.0 r	3.1	1.5 r	0.3 r	-0.3 r
III	2.6 r	6.3 r	3.6	3.3 r	1.2 r	0.7 r
II	0.9 r	2.9 r	2.0	-2.8 r	-4.9 r	-3.7 r
I	1.7 r	4.8 r	3.1	2.7 r	-0.6 r	1.0 r
Percent change from corresponding quarter of previous year						
2020 II	-8.8	-21.6	-14.1	4.5	4.0	14.5
I	-1.0 r	-3.1 r	-2.1 r	2.4 r	0.3 r	3.4 r
2019 ANNUAL	0.7 r	0.8 r	0.2	2.4 r	0.5 r	1.7 r
2019 IV	-0.3	-1.3	-1.0	2.9 r	0.9 r	3.2 r
III	0.5 r	0.3	-0.1	1.4 r	-0.4 r	0.9 r
II	1.0 r	1.5 r	0.5	3.0 r	1.2 r	2.0 r
I	1.4 r	2.8 r	1.4	2.2	0.5 r	0.7 r
2018 ANNUAL	1.4 r	3.6 r	2.2	2.7 r	0.2	1.3 r
2018 IV	1.8 r	4.8 r	2.9	1.1 r	-1.0	-0.6 r
III	2.3 r	4.8 r	2.5	2.4 r	-0.2 r	0.2 r
II	0.5 r	2.7 r	2.2	2.2	-0.4 r	1.7 r
I	1.0 r	2.2 r	1.2	4.9 r	2.6 r	3.9 r
Indexes 2012=100						
2020 II	91.9	84.0	91.4	121.2	108.3	131.8
I	99.9 r	104.5 r	104.5 r	118.6 r	105.1 r	118.7 r
2019 ANNUAL	100.8 r	107.4 r	106.6	116.0 r	104.0 r	115.2 r
2019 IV	100.6 r	107.2 r	106.6	117.3 r	104.3 r	116.6 r
III	100.9 r	107.6 r	106.7	115.1 r	102.9 r	114.1 r
II	100.7 r	107.2 r	106.4	116.0 r	104.2 r	115.1 r
I	100.9 r	107.8 r	106.8	115.9 r	104.8 r	114.8 r
2018 ANNUAL	100.1 r	106.6 r	106.4	113.4 r	103.5 r	113.2 r
2018 IV	100.8 r	108.5 r	107.6	113.9 r	103.3 r	113.0 r
III	100.4 r	107.2 r	106.8	113.5 r	103.3 r	113.1 r
II	99.7 r	105.6 r	105.9	112.6 r	103.0 r	112.9 r
I	99.5 r	104.8 r	105.4	113.4 r	104.3 r	114.0 r

See footnotes following Table 6.

r=revised

August 14, 2020

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)						
2020 II	-4.9	-33.2	-29.8	16.0	20.3	22.0
I	5.8 r	-1.0 r	-6.4 r	9.6 r	8.3 r	3.6 r
2019 ANNUAL	-0.4 r	-0.9 r	-0.5	3.9 r	2.1 r	4.4 r
2019 IV	-0.8 r	1.2	2.1	0.2	-2.1	1.1
III	-1.8 r	0.2	2.0	0.7 r	-1.1 r	2.4 r
II	-4.4	-4.0	0.5	3.7 r	0.6 r	8.5 r
I	2.5	-0.7	-3.2	7.0 r	6.0 r	4.3 r
2018 ANNUAL	-0.8 r	0.5 r	1.4	1.0 r	-1.4 r	1.8 r
2018 IV	1.4 r	-2.0 r	-3.3	6.4 r	5.1 r	4.9 r
III	-2.4 r	1.4 r	3.9	4.3 r	2.2 r	6.9 r
II	1.9 r	2.0 r	0.1	-4.8 r	-6.8 r	-6.5 r
I	-1.6 r	-1.6 r	0.0	1.7 r	-1.5 r	3.3 r
Percent change from corresponding quarter of previous year						
2020 II	-0.5	-9.5	-9.0	6.4	6.0	6.9
I	-0.4 r	-0.9 r	-0.5 r	3.5 r	1.3 r	3.9 r
2019 ANNUAL	-0.4 r	-0.9 r	-0.5	3.9 r	2.1 r	4.4 r
2019 IV	-1.2	-0.8	0.3	2.8 r	0.8 r	4.0 r
III	-0.6 r	-1.6 r	-1.0	4.4 r	2.6 r	5.0 r
II	-0.8 r	-1.3 r	-0.6	5.3 r	3.4 r	6.1 r
I	0.8 r	0.2 r	-0.7	3.1 r	1.5 r	2.3 r
2018 ANNUAL	-0.8 r	0.5 r	1.4	1.0 r	-1.4 r	1.8 r
2018 IV	-0.2 r	-0.1 r	0.1	1.8 r	-0.4 r	2.0 r
III	-0.1 r	1.5 r	1.6	0.7 r	-1.9 r	0.8 r
II	-1.2 r	0.3 r	1.6	0.3 r	-2.4 r	1.5 r
I	-1.8 r	0.4 r	2.3	1.2 r	-1.0 r	3.1 r
Indexes 2012=100						
2020 II	97.0	93.2	96.0	121.9	109.0	125.6
I	98.3 r	103.1 r	104.9 r	117.5 r	104.1 r	119.5 r
2019 ANNUAL	97.5 r	103.3 r	106.0	114.4 r	102.6 r	117.3 r
2019 IV	96.9 r	103.4 r	106.7	114.8 r	102.0 r	118.5 r
III	97.1 r	103.0 r	106.1	114.7 r	102.6 r	118.2 r
II	97.5 r	103.0 r	105.6	114.6 r	102.9 r	117.5 r
I	98.6 r	104.0 r	105.5	113.5 r	102.7 r	115.1 r
2018 ANNUAL	98.0 r	104.3 r	106.5	110.1 r	100.5 r	112.4 r
2018 IV	98.0 r	104.2 r	106.3	111.6 r	101.2 r	113.9 r
III	97.7 r	104.7 r	107.2	109.9 r	100.0 r	112.5 r
II	98.3 r	104.4 r	106.2	108.8 r	99.5 r	110.7 r
I	97.8 r	103.9 r	106.2	110.1 r	101.2 r	112.5 r

See footnotes following Table 6.

r=revised

August 14, 2020

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)										
2020 I	0.3 r	-3.9 r	-4.2 r	8.4 r	7.1 r	8.0 r	10.2 r	8.7 r	-44.2 r	0.6 r
2019 ANNUAL	0.6 r	1.6 r	0.9	3.7 r	1.9 r	3.1 r	1.9 r	2.7 r	-3.3 r	1.9 r
2019 IV	1.3 r	2.6 r	1.2	2.5 r	0.1 r	1.2 r	-2.3 r	0.1 r	12.4 r	1.5 r
III	-0.8 r	-0.1 r	0.7	0.0 r	-1.7	0.9 r	6.6 r	2.6 r	-5.3 r	1.6 r
II	1.0	1.0 r	0.1	1.3 r	-1.7 r	0.3 r	1.5 r	0.7 r	16.1 r	2.4
I	1.4 r	2.9 r	1.5	11.1 r	10.1 r	9.5 r	3.3 r	7.5 r	-30.8 r	1.7 r
2018 ANNUAL	0.6 r	2.6 r	1.9	3.5 r	1.0	2.8 r	-1.0 r	1.6 r	6.2 r	2.2 r
2018 IV	-0.3 r	0.2 r	0.5	1.3 r	0.0 r	1.7 r	2.4 r	1.9 r	2.2 r	1.9 r
III	2.5 r	3.7 r	1.1	3.2 r	1.0 r	0.6 r	-1.9 r	-0.2 r	15.1 r	1.7 r
II	-2.2 r	0.2 r	2.5	0.1 r	-2.0 r	2.4 r	-0.2 r	1.6 r	15.2 r	3.2 r
I	4.7 r	6.7 r	1.8	8.6 r	5.1 r	3.7 r	-4.2 r	1.1 r	8.0 r	1.9 r
Percent change from corresponding quarter of previous year										
2020 I	0.4 r	-0.1 r	-0.6 r	3.0 r	0.9 r	2.5 r	3.9 r	3.0 r	-8.9 r	1.5 r
2019 ANNUAL	0.6 r	1.6 r	0.9	3.7 r	1.9 r	3.1 r	1.9 r	2.7 r	-3.3 r	1.9 r
2019 IV	0.7 r	1.6 r	0.9	3.6 r	1.6 r	2.9 r	2.2 r	2.7 r	-3.9 r	1.8 r
III	0.3 r	1.0 r	0.7	3.3 r	1.6 r	3.0 r	3.4 r	3.1 r	-6.1 r	1.9 r
II	1.1 r	1.9 r	0.8	4.1 r	2.3 r	2.9 r	1.3 r	2.4 r	-1.4 r	1.9 r
I	0.3 r	1.7 r	1.4	3.8 r	2.2 r	3.5 r	0.9 r	2.7 r	-1.6 r	2.1 r
2018 ANNUAL	0.6 r	2.6 r	1.9	3.5 r	1.0	2.8 r	-1.0 r	1.6 r	6.2 r	2.2 r
2018 IV	1.1 r	2.6 r	1.5	3.2 r	1.0 r	2.1 r	-1.0 r	1.1 r	10.0 r	2.2 r
III	1.0 r	3.0 r	2.0	3.6 r	0.9 r	2.6 r	-1.8 r	1.2 r	10.1 r	2.3 r
II	-0.2 r	1.9 r	2.1	3.5	0.8	3.7 r	-0.8 r	2.2 r	3.2 r	2.4 r
I	0.7 r	2.9 r	2.2	3.7	1.4 r	3.0 r	-0.3 r	1.9 r	1.4 r	1.9 r
Indexes 2012=100										
2020 I	102.9 r	116.2 r	112.9 r	123.3 r	109.3 r	119.9 r	110.3 r	116.7 r	84.5 r	112.1 r
2019 ANNUAL	102.6 r	116.7 r	113.7 r	120.2 r	107.8 r	117.2 r	107.1 r	113.8 r	95.4 r	111.2 r
2019 IV	102.8 r	117.3 r	114.1 r	120.9 r	107.4 r	117.6 r	107.6 r	114.3 r	97.8 r	111.9 r
III	102.5 r	116.6 r	113.7 r	120.1 r	107.4 r	117.2 r	108.2 r	114.2 r	95.0 r	111.5 r
II	102.7 r	116.6 r	113.6 r	120.1 r	107.9 r	117.0 r	106.5 r	113.5 r	96.3 r	111.0 r
I	102.4 r	116.3 r	113.5 r	119.7 r	108.4 r	116.9 r	106.1 r	113.3 r	92.7 r	110.4 r
2018 ANNUAL	102.0 r	114.9 r	112.7 r	115.9 r	105.8 r	113.7 r	105.1 r	110.8 r	98.7 r	109.1 r
2018 IV	102.1 r	115.5 r	113.1 r	116.6 r	105.8 r	114.3 r	105.3 r	111.3 r	101.7 r	109.9 r
III	102.2 r	115.4 r	113.0 r	116.3 r	105.8 r	113.8 r	104.7 r	110.8 r	101.1 r	109.4 r
II	101.5 r	114.4 r	112.7 r	115.4 r	105.5 r	113.6 r	105.2 r	110.8 r	97.6 r	108.9 r
I	102.1 r	114.3 r	112.0 r	115.3 r	106.0 r	112.9 r	105.2 r	110.4 r	94.2 r	108.1 r

See footnotes following Table 6.
r=revised

August 14, 2020
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 -1.4 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 2020.

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 1978-2019 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)								
2017 ANNUAL	1.3 r	2.7 r	1.4	3.6 r	1.4 r	2.3 r	1.1 r	1.7
2017 IV	0.6 r	4.6 r	4.0	4.6 r	1.5 r	4.1 r	0.6 r	2.5 r
III	3.0 r	3.6 r	0.6	5.7 r	3.5 r	2.7 r	0.9 r	1.9 r
II	-0.2 r	1.9 r	2.1	2.4 r	2.0 r	2.6 r	-1.0 r	1.0 r
I	0.6 r	2.5 r	1.9	3.3 r	0.4 r	2.7 r	1.1 r	2.0 r
2016 ANNUAL	0.4 r	1.9 r	1.5	1.1	-0.2	0.7 r	0.9 r	0.8
2016 IV	3.0 r	3.2 r	0.2	5.2	2.6	2.1 r	1.3 r	1.7 r
III	1.6	2.5 r	0.9	2.1 r	0.2	0.5	2.0 r	1.2 r
II	-0.3 r	1.2 r	1.5	0.8 r	-2.1 r	1.1 r	5.7 r	3.1 r
I	0.9 r	2.6 r	1.7	0.0 r	0.1 r	-0.8 r	-0.6 r	-0.7 r
2015 ANNUAL	1.5 r	3.8 r	2.3	2.9	2.8 r	1.4 r	-0.8	0.4 r
2015 IV	-2.3 r	0.4 r	2.8	-0.4 r	-0.5 r	1.9 r	-3.5 r	-0.5
III	1.2 r	1.4 r	0.3	1.7 r	0.1 r	0.5 r	1.7 r	1.0 r
II	1.7 r	3.3 r	1.5 r	3.5	0.7	1.8 r	2.5 r	2.1
I	3.6 r	4.8 r	1.2	5.0 r	7.6	1.3 r	-4.7 r	-1.4 r
Percent change from corresponding quarter of previous year								
2017 ANNUAL	1.3 r	2.7 r	1.4	3.6 r	1.4 r	2.3 r	1.1 r	1.7
2017 IV	1.0 r	3.2 r	2.2	4.0 r	1.9 r	3.0 r	0.4 r	1.9
III	1.6 r	2.8 r	1.2	4.2 r	2.1 r	2.5 r	0.6 r	1.7 r
II	1.3	2.5 r	1.3	3.2 r	1.3	2.0	0.8 r	1.5 r
I	1.2 r	2.4 r	1.1	2.8 r	0.3 r	1.6 r	2.5 r	2.0 r
2016 ANNUAL	0.4 r	1.9 r	1.5	1.1	-0.2	0.7 r	0.9 r	0.8
2016 IV	1.3	2.4	1.1	2.0	0.2	0.7 r	2.1 r	1.3 r
III	0.0 r	1.7	1.7	0.6 r	-0.6 r	0.7	0.9 r	0.7
II	-0.2	1.4 r	1.6	0.5	-0.6	0.7	0.8 r	0.7
I	0.3 r	1.9 r	1.6	1.2 r	0.1 r	0.8 r	0.0 r	0.5
2015 ANNUAL	1.5 r	3.8 r	2.3	2.9	2.8 r	1.4 r	-0.8	0.4 r
2015 IV	1.0 r	2.5 r	1.4	2.4	2.0 r	1.4 r	-1.1	0.3 r
III	1.1 r	3.1 r	2.0	3.5 r	3.3 r	2.4 r	-2.0 r	0.4 r
II	1.6 r	4.3 r	2.7	3.6 r	3.5 r	2.0 r	-1.3	0.5 r
I	2.2 r	5.3 r	3.0	2.2	2.3 r	0.0 r	1.3 r	0.6
Indexes 2012=100								
2017 ANNUAL	104.8 r	114.7 r	109.4 r	112.2 r	104.9 r	107.1 r	105.2 r	106.3 r
2017 IV	105.3 r	116.3 r	110.5 r	114.1 r	105.8 r	108.4 r	105.4 r	107.1 r
III	105.1 r	115.0 r	109.4 r	112.8 r	105.4 r	107.3 r	105.2 r	106.4 r
II	104.4 r	114.0 r	109.2 r	111.3 r	104.5 r	106.6 r	105.0 r	105.9 r
I	104.4 r	113.4 r	108.7 r	110.6 r	104.0 r	105.9 r	105.2 r	105.6 r
2016 ANNUAL	103.5 r	111.6 r	107.9 r	108.3 r	103.5 r	104.7 r	104.1 r	104.4 r
2016 IV	104.3 r	112.8 r	108.1 r	109.7 r	103.9 r	105.2 r	105.0 r	105.1 r
III	103.5 r	111.9 r	108.1 r	108.3 r	103.2 r	104.7 r	104.6 r	104.7 r
II	103.1 r	111.2 r	107.8 r	107.8 r	103.2 r	104.6 r	104.1 r	104.4 r
I	103.1 r	110.8 r	107.4 r	107.6 r	103.7 r	104.3 r	102.7 r	103.6 r
2015 ANNUAL	103.1 r	109.6 r	106.3 r	107.2 r	103.7 r	104.0 r	103.1 r	103.6 r
2015 IV	102.9 r	110.1 r	107.0 r	107.6 r	103.7 r	104.5 r	102.8 r	103.8 r
III	103.5 r	110.0 r	106.3 r	107.7 r	103.8 r	104.0 r	103.7 r	103.9 r
II	103.2 r	109.6 r	106.2 r	107.2 r	103.8 r	103.9 r	103.3 r	103.6 r
I	102.8 r	108.7 r	105.8 r	106.3 r	103.6 r	103.4 r	102.7 r	103.1 r

See footnotes following Table 6.
r=revised

August 14, 2020
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)								
2017 ANNUAL	1.2 r	2.8 r	1.5	3.5	1.3	2.2 r	0.9 r	1.7 r
2017 IV	1.3 r	4.7 r	3.3	5.5 r	2.3 r	4.1 r	0.4 r	2.5 r
III	2.5 r	3.8 r	1.3	5.2 r	3.0 r	2.7 r	1.2 r	2.0 r
II	-0.1 r	2.1 r	2.2	2.4 r	2.0 r	2.5 r	-1.0 r	1.0 r
I	1.0 r	2.4 r	1.3	3.9 r	1.0 r	2.9 r	-0.3 r	1.5 r
2016 ANNUAL	0.3	1.8 r	1.5	1.1	-0.2	0.7 r	1.3 r	1.0
2016 IV	2.5 r	3.4 r	0.9	4.3	1.7	1.7 r	1.9 r	1.8 r
III	1.2 r	2.4	1.2	1.7 r	-0.2 r	0.5 r	2.5 r	1.4 r
II	-0.1 r	1.1 r	1.2	1.1 r	-1.7 r	1.3 r	5.8 r	3.2 r
I	0.9 r	2.5 r	1.6	0.1 r	0.2 r	-0.9	0.4 r	-0.3 r
2015 ANNUAL	1.6 r	3.7 r	2.1	3.1	3.0 r	1.6 r	-0.4	0.7 r
2015 IV	-2.2 r	0.4 r	2.6	-0.2	-0.3 r	2.0 r	-3.2 r	-0.3
III	1.1 r	1.4 r	0.3	1.6 r	0.1 r	0.5	1.6 r	1.0 r
II	1.5 r	3.4 r	1.9	3.3 r	0.5 r	1.7 r	2.4 r	2.0 r
I	3.7 r	4.6 r	0.8	5.3	8.0 r	1.6 r	-3.4 r	-0.6 r
Percent change from corresponding quarter of previous year								
2017 ANNUAL	1.2 r	2.8 r	1.5	3.5	1.3	2.2 r	0.9 r	1.7 r
2017 IV	1.2 r	3.2 r	2.0	4.3 r	2.1 r	3.0 r	0.1 r	1.8
III	1.5 r	2.9 r	1.4	4.0 r	1.9 r	2.4 r	0.4 r	1.6 r
II	1.2	2.6	1.4	3.1 r	1.1 r	1.9 r	0.8 r	1.4
I	1.2	2.3 r	1.2	2.8 r	0.2 r	1.6 r	2.4 r	1.9
2016 ANNUAL	0.3	1.8 r	1.5	1.1	-0.2	0.7 r	1.3 r	1.0
2016 IV	1.1	2.4	1.2	1.8 r	0.0	0.6 r	2.6 r	1.5 r
III	0.0 r	1.6	1.6	0.7	-0.5 r	0.7 r	1.3 r	1.0 r
II	-0.1 r	1.4 r	1.4	0.7 r	-0.4 r	0.7 r	1.1 r	0.9
I	0.3 r	1.9 r	1.6	1.2 r	0.1 r	0.8 r	0.3 r	0.6
2015 ANNUAL	1.6 r	3.7 r	2.1	3.1	3.0 r	1.6 r	-0.4	0.7 r
2015 IV	1.0 r	2.4 r	1.4	2.5 r	2.0 r	1.5 r	-0.7 r	0.5 r
III	1.1 r	3.0 r	1.9	3.6 r	3.4 r	2.5 r	-1.8 r	0.6 r
II	1.8 r	4.3 r	2.5	3.9	3.8	2.1 r	-0.8 r	0.8 r
I	2.4 r	5.2 r	2.7	2.6	2.7 r	0.2 r	1.7	0.8 r
Indexes 2012=100								
2017 ANNUAL	104.6 r	114.4 r	109.4 r	112.4 r	105.1 r	107.5 r	105.9 r	106.8 r
2017 IV	105.2 r	116.1 r	110.4 r	114.4 r	106.0 r	108.8 r	106.1 r	107.6 r
III	104.8 r	114.8 r	109.5 r	112.9 r	105.4 r	107.7 r	106.0 r	107.0 r
II	104.2 r	113.7 r	109.2 r	111.4 r	104.7 r	107.0 r	105.7 r	106.4 r
I	104.2 r	113.1 r	108.6 r	110.8 r	104.1 r	106.3 r	105.9 r	106.2 r
2016 ANNUAL	103.3 r	111.3 r	107.8 r	108.6 r	103.7 r	105.1 r	105.0 r	105.0 r
2016 IV	103.9 r	112.5 r	108.2 r	109.7 r	103.9 r	105.6 r	106.0 r	105.8 r
III	103.3 r	111.5 r	108.0 r	108.6 r	103.4 r	105.1 r	105.5 r	105.3 r
II	103.0 r	110.8 r	107.6 r	108.1 r	103.5 r	105.0 r	104.9 r	104.9 r
I	103.0 r	110.5 r	107.3 r	107.8 r	103.9 r	104.7 r	103.4 r	104.1 r
2015 ANNUAL	103.0 r	109.4 r	106.2 r	107.4 r	103.9 r	104.3 r	103.6 r	104.0 r
2015 IV	102.8 r	109.9 r	106.9 r	107.8 r	103.9 r	104.9 r	103.3 r	104.2 r
III	103.3 r	109.8 r	106.2 r	107.9 r	104.0 r	104.4 r	104.2 r	104.3 r
II	103.1 r	109.4 r	106.1 r	107.4 r	103.9 r	104.2 r	103.7 r	104.0 r
I	102.7 r	108.5 r	105.6 r	106.6 r	103.8 r	103.8 r	103.1 r	103.5 r

See footnotes following Table 6.
r=revised

August 14, 2020
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)						
2017 ANNUAL	-0.4	0.6	1.0	3.2 r	1.1 r	3.6 r
2017 IV	3.1 r	5.0 r	1.8	5.0 r	1.8 r	1.8 r
III	-5.3	-2.7	2.8	2.5 r	0.3 r	8.3 r
II	1.9 r	1.7	-0.1	4.5 r	4.1 r	2.6 r
I	-1.3 r	0.6 r	1.9	3.0 r	0.1 r	4.3 r
2016 ANNUAL	-0.2	-0.2	0.0	0.5	-0.8	0.7
2016 IV	1.0 r	1.1 r	0.1	4.4 r	1.8 r	3.3 r
III	0.0 r	0.9 r	0.9	1.2 r	-0.7 r	1.2 r
II	-1.3 r	-1.7	-0.4	1.1 r	-1.8 r	2.4 r
I	2.1 r	1.4 r	-0.7	-1.7 r	-1.6 r	-3.7 r
2015 ANNUAL	-1.8	-0.9	1.0	2.5	2.3	4.4
2015 IV	-3.6	-1.7	2.0	-1.4 r	-1.5 r	2.3 r
III	1.8	0.4	-1.3	3.9 r	2.3 r	2.1 r
II	-1.3	-1.6	-0.3	1.8 r	-1.0 r	3.2 r
I	-2.6	-3.8	-1.1	4.1 r	6.7 r	6.9 r
Percent change from corresponding quarter of previous year						
2017 ANNUAL	-0.4	0.6	1.0	3.2 r	1.1 r	3.6 r
2017 IV	-0.5	1.1	1.6	3.7	1.6	4.2 r
III	-1.0 r	0.2 r	1.2	3.6 r	1.6 r	4.6 r
II	0.4 r	1.1 r	0.7	3.2 r	1.3 r	2.8 r
I	-0.4 r	0.2 r	0.6	2.4 r	-0.2 r	2.8 r
2016 ANNUAL	-0.2	-0.2	0.0	0.5	-0.8	0.7
2016 IV	0.4	0.4	0.0	1.2 r	-0.6 r	0.8 r
III	-0.7	-0.3	0.4	-0.2	-1.4	0.5 r
II	-0.3	-0.4	-0.1	0.4 r	-0.6 r	0.7 r
I	-0.3	-0.4	-0.1	0.6 r	-0.4 r	0.9 r
2015 ANNUAL	-1.8	-0.9	1.0	2.5	2.3	4.4
2015 IV	-1.5	-1.7	-0.2	2.1 r	1.6 r	3.6 r
III	-1.7	-1.2	0.5	3.3	3.1	5.1
II	-2.3	-1.0	1.3	2.9	2.8	5.3 r
I	-1.9	0.4	2.3	1.9 r	1.9	3.8
Indexes 2012=100						
2017 ANNUAL	98.3 r	102.7 r	104.5	109.9 r	102.8 r	111.8 r
2017 IV	98.3 r	103.4 r	105.2	111.6 r	103.4 r	113.5 r
III	97.5 r	102.1 r	104.7	110.2 r	103.0 r	113.0 r
II	98.9 r	102.8 r	104.0	109.5 r	102.9 r	110.8 r
I	98.4 r	102.4 r	104.0	108.3 r	101.8 r	110.1 r
2016 ANNUAL	98.7 r	102.0 r	103.4	106.5 r	101.7 r	107.9 r
2016 IV	98.8 r	102.2 r	103.5	107.6 r	101.8 r	108.9 r
III	98.5 r	102.0 r	103.5	106.4 r	101.4 r	108.0 r
II	98.5 r	101.7 r	103.3	106.1 r	101.6 r	107.7 r
I	98.8 r	102.2 r	103.4	105.8 r	102.0 r	107.1 r
2015 ANNUAL	98.9 r	102.2 r	103.4	105.9 r	102.5 r	107.1 r
2015 IV	98.3 r	101.8 r	103.5	106.3 r	102.4 r	108.1 r
III	99.2 r	102.3 r	103.0	106.7 r	102.8 r	107.5 r
II	98.8 r	102.1 r	103.4	105.6 r	102.2 r	106.9 r
I	99.1	102.6	103.5	105.2 r	102.5 r	106.1 r

See footnotes following Table 6.
r=revised

August 14, 2020
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)						
2017 ANNUAL	0.1	0.7	0.6	4.0 r	1.9 r	3.9 r
2017 IV	3.8 r	5.3 r	1.4	6.8 r	3.6 r	2.8 r
III	-4.4 r	-2.2 r	2.3	2.5 r	0.3 r	7.2 r
II	2.9 r	1.0 r	-1.9	7.8 r	7.4 r	4.8 r
I	-1.4 r	1.2 r	2.6	2.6 r	-0.3 r	4.1 r
2016 ANNUAL	-1.3	-1.7	-0.4	0.9	-0.4	2.2
2016 IV	0.4 r	0.6 r	0.2	4.8 r	2.2 r	4.4 r
III	1.8 r	1.8 r	0.0	1.8 r	-0.1 r	0.0 r
II	-0.5	-2.4 r	-1.9	1.5 r	-1.4 r	2.0 r
I	-1.2 r	-1.3	-0.1	-1.2 r	-1.1 r	0.1 r
2015 ANNUAL	-1.6	-1.0	0.6	3.1	2.9	4.7
2015 IV	-6.6	-5.2 r	1.4	-1.5 r	-1.5 r	5.5 r
III	1.6	-0.2 r	-1.9	4.0 r	2.4 r	2.3 r
II	-0.9	-1.9	-1.0	2.4 r	-0.4 r	3.3 r
I	-2.9	-4.5	-1.7	5.0	7.7 r	8.1 r
Percent change from corresponding quarter of previous year						
2017 ANNUAL	0.1	0.7	0.6	4.0 r	1.9 r	3.9 r
2017 IV	0.2 r	1.3 r	1.1	4.9 r	2.7 r	4.7 r
III	-0.7	0.1	0.8	4.4	2.4 r	5.1
II	0.9 r	1.1 r	0.2	4.2 r	2.3 r	3.3 r
I	0.1 r	0.3 r	0.2	2.7 r	0.1 r	2.6 r
2016 ANNUAL	-1.3	-1.7	-0.4	0.9	-0.4	2.2
2016 IV	0.1 r	-0.3	-0.4	1.7 r	-0.1 r	1.6 r
III	-1.7	-1.8	-0.1	0.1 r	-1.0	1.9
II	-1.7	-2.3	-0.6	0.7 r	-0.4 r	2.4 r
I	-1.8	-2.2	-0.4	0.9 r	-0.2 r	2.8 r
2015 ANNUAL	-1.6	-1.0	0.6	3.1	2.9	4.7
2015 IV	-2.2	-3.0	-0.8	2.4	2.0 r	4.8 r
III	-1.1	-1.5	-0.4	4.1	3.9	5.3
II	-1.7	-0.7	1.0	3.6	3.5	5.3 r
I	-1.3	1.2	2.6	2.2	2.2	3.6 r
Indexes 2012=100						
2017 ANNUAL	98.8 r	102.8 r	104.1	110.4 r	103.2 r	111.8 r
2017 IV	99.1 r	103.6 r	104.6	112.7 r	104.4 r	113.7 r
III	98.2 r	102.3 r	104.2	110.8 r	103.5 r	112.9 r
II	99.3 r	102.9 r	103.6	110.1 r	103.4 r	111.0 r
I	98.5 r	102.6 r	104.1	108.1 r	101.6 r	109.7 r
2016 ANNUAL	98.6 r	102.1 r	103.5	106.1 r	101.4 r	107.6 r
2016 IV	98.9 r	102.3 r	103.4	107.4 r	101.7 r	108.6 r
III	98.8 r	102.2 r	103.4	106.2 r	101.1 r	107.4 r
II	98.4 r	101.7 r	103.4	105.7 r	101.2 r	107.4 r
I	98.5 r	102.3 r	103.9	105.3 r	101.5 r	106.9 r
2015 ANNUAL	99.9 r	103.8 r	103.9	105.2 r	101.8 r	105.3 r
2015 IV	98.8 r	102.6 r	103.9	105.6 r	101.8 r	106.9 r
III	100.5 r	104.0 r	103.5	106.0 r	102.2 r	105.5 r
II	100.1 r	104.1 r	104.0	105.0 r	101.6 r	104.9 r
I	100.3 r	104.6 r	104.3	104.4 r	101.7 r	104.0 r

See footnotes following Table 6.
r=revised

August 14, 2020
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)						
2017 ANNUAL	-1.5 r	0.2 r	1.7	1.8 r	-0.3 r	3.3 r
2017 IV	1.8 r	4.4 r	2.5	1.7 r	-1.4 r	-0.2 r
III	-6.9 r	-3.4 r	3.7	2.6 r	0.4 r	10.2 r
II	-0.6	2.3	2.9	-1.2 r	-1.6 r	-0.7 r
I	-1.0 r	-0.3 r	0.6	3.6 r	0.7 r	4.6 r
2016 ANNUAL	0.3	1.1	0.8	0.0	-1.3	-0.4 r
2016 IV	1.4 r	1.2 r	-0.2	3.5 r	1.0 r	2.1 r
III	-3.0 r	-0.7 r	2.5	0.2 r	-1.7 r	3.3 r
II	-3.9	-1.7 r	2.2	0.5 r	-2.3 r	4.6 r
I	5.5 r	3.7 r	-1.7	-2.7 r	-2.6 r	-7.8 r
2015 ANNUAL	-1.3	0.4	1.7	1.5	1.4 r	2.9 r
2015 IV	-0.8 r	2.0 r	2.8	-1.2 r	-1.3 r	-0.5 r
III	2.0 r	1.6	-0.4	3.9	2.4 r	1.9 r
II	-1.2	-0.3	0.9	0.9 r	-1.9 r	2.1 r
I	-1.0	-1.3	-0.3	2.4 r	5.0 r	3.5 r
Percent change from corresponding quarter of previous year						
2017 ANNUAL	-1.5 r	0.2 r	1.7	1.8 r	-0.3 r	3.3 r
2017 IV	-1.7 r	0.7 r	2.4	1.6 r	-0.5 r	3.4 r
III	-1.8 r	-0.1 r	1.8	2.1 r	0.1 r	4.0 r
II	-0.8 r	0.6 r	1.4	1.5 r	-0.4 r	2.3 r
I	-1.6 r	-0.4 r	1.3	2.0 r	-0.6 r	3.7 r
2016 ANNUAL	0.3	1.1	0.8	0.0	-1.3	-0.4 r
2016 IV	-0.1 r	0.6 r	0.7	0.4 r	-1.4 r	0.4 r
III	-0.6 r	0.8	1.4	-0.8	-2.0 r	-0.2 r
II	0.7	1.4	0.7	0.1 r	-1.0 r	-0.5 r
I	1.3 r	1.7 r	0.4	0.2 r	-0.9 r	-1.1 r
2015 ANNUAL	-1.3	0.4	1.7	1.5	1.4 r	2.9 r
2015 IV	-0.3 r	0.5	0.7	1.5 r	1.0 r	1.7 r
III	-1.8	0.3	2.1	2.0	1.8	3.8
II	-2.0	0.0	2.0	1.6	1.5	3.6
I	-1.1 r	0.7 r	1.8	1.2 r	1.2	2.2
Indexes 2012=100						
2017 ANNUAL	98.8 r	103.8 r	105.0	109.0 r	101.9 r	110.4 r
2017 IV	98.2 r	104.3 r	106.2	109.6 r	101.6 r	111.6 r
III	97.8 r	103.2 r	105.5	109.2 r	102.0 r	111.7 r
II	99.5 r	104.1 r	104.6	108.5 r	101.9 r	109.0 r
I	99.7 r	103.5 r	103.8	108.8 r	102.3 r	109.2 r
2016 ANNUAL	100.3 r	103.5 r	103.2	107.1 r	102.3 r	106.8 r
2016 IV	99.9 r	103.6 r	103.7	107.9 r	102.1 r	107.9 r
III	99.6 r	103.2 r	103.7	106.9 r	101.9 r	107.4 r
II	100.3 r	103.4 r	103.1	106.9 r	102.3 r	106.5 r
I	101.3 r	103.9 r	102.5	106.7 r	102.9 r	105.3 r
2015 ANNUAL	100.0 r	102.4 r	102.4	107.1 r	103.6 r	107.2 r
2015 IV	100.0 r	102.9 r	102.9	107.5 r	103.6 r	107.5 r
III	100.2 r	102.4 r	102.2	107.8 r	103.9 r	107.6 r
II	99.7 r	102.0 r	102.3	106.8 r	103.3 r	107.1 r
I	100.0 r	102.1 r	102.1	106.5 r	103.8 r	106.5 r

See footnotes following Table 6.
r=revised

August 14, 2020
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)										
2017 ANNUAL	0.9 r	2.6 r	1.7	3.3	1.1	2.4 r	1.9 r	2.2 r	-1.0 r	1.8 r
2017 IV	-1.0 r	1.7	2.7	2.7 r	-0.4 r	3.7 r	-0.6 r	2.3 r	2.7 r	2.4
III	-2.3 r	-0.9 r	1.5	2.8 r	0.6 r	5.2 r	1.8 r	4.1 r	-11.4 r	2.0 r
II	1.3 r	4.1 r	2.7	0.7 r	0.3 r	-0.6 r	2.1 r	0.3 r	7.6 r	1.2 r
I	5.1 r	6.8 r	1.6	7.7 r	4.7 r	2.5 r	-3.3 r	0.6	15.7 r	2.4 r
2016 ANNUAL	-1.2 r	0.2 r	1.5	1.1	-0.2	2.4 r	1.1	1.9	-6.4 r	0.8
2016 IV	0.5 r	1.1 r	0.6	3.1 r	0.6	2.7 r	7.8 r	4.3	-14.0 r	1.8 r
III	0.4 r	2.3 r	1.9	1.1	-0.8	0.7 r	2.0 r	1.1 r	0.2 r	1.0 r
II	-5.5 r	-4.6 r	0.9	0.7 r	-2.1 r	6.5 r	8.5 r	7.2 r	-24.5 r	2.3 r
I	1.8 r	2.5 r	0.7	2.0 r	2.1 r	0.3 r	-14.7 r	-4.9 r	31.1 r	-0.8 r
2015 ANNUAL	0.8 r	3.0 r	2.2	3.0	2.9 r	2.3 r	0.5 r	1.7 r	-3.8 r	0.9 r
2015 IV	-3.5 r	-0.8 r	2.8	-0.6	-0.6	3.0 r	16.4 r	7.2 r	-35.8 r	0.1
III	0.4 r	2.7 r	2.3	0.7 r	-0.9 r	0.2 r	-1.4 r	-0.3 r	12.9	1.5 r
II	-1.4 r	-0.5 r	0.9	2.5	-0.3	3.9 r	2.4 r	3.4 r	-5.7 r	2.1 r
I	2.2 r	3.1 r	0.9	9.1 r	11.9 r	6.8 r	-1.1 r	4.1 r	-23.1 r	-0.4 r
Percent change from corresponding quarter of previous year										
2017 ANNUAL	0.9 r	2.6 r	1.7	3.3	1.1	2.4 r	1.9 r	2.2 r	-1.0 r	1.8 r
2017 IV	0.7 r	2.9 r	2.1	3.5 r	1.3 r	2.7 r	0.0 r	1.8 r	3.2 r	2.0 r
III	1.1 r	2.7 r	1.6	3.6 r	1.5 r	2.4 r	2.0 r	2.3 r	-1.3 r	1.8 r
II	1.8 r	3.5 r	1.7	3.1 r	1.2	1.3 r	2.1 r	1.6	1.8 r	1.6 r
I	0.0 r	1.3 r	1.3	3.1 r	0.5 r	3.1 r	3.6 r	3.3 r	-6.8 r	1.9 r
2016 ANNUAL	-1.2 r	0.2 r	1.5	1.1	-0.2	2.4 r	1.1	1.9	-6.4 r	0.8
2016 IV	-0.7 r	0.3 r	1.0	1.7 r	-0.1	2.5 r	0.4 r	1.8 r	-3.9	1.1
III	-1.7	-0.2	1.6	0.8	-0.4	2.6	2.4 r	2.5	-10.7 r	0.6 r
II	-1.7 r	-0.1 r	1.7	0.7	-0.4	2.5 r	1.5 r	2.2 r	-8.0 r	0.8
I	-0.7 r	0.9 r	1.7	1.1	0.1 r	1.8 r	0.1 r	1.3 r	-2.7 r	0.7 r
2015 ANNUAL	0.8 r	3.0 r	2.2	3.0	2.9 r	2.3 r	0.5 r	1.7 r	-3.8 r	0.9 r
2015 IV	-0.6 r	1.1 r	1.7	2.9 r	2.4 r	3.5 r	3.8 r	3.6 r	-14.9 r	0.8 r
III	0.5 r	2.5 r	1.9	3.5 r	3.3 r	2.9 r	-0.2 r	1.9 r	-5.3 r	0.8 r
II	1.4 r	3.5 r	2.1	3.6 r	3.5 r	2.1 r	-0.5 r	1.3 r	-2.1 r	0.8 r
I	1.7 r	4.8 r	3.1	2.2	2.3	0.5 r	-1.0 r	0.0 r	9.4 r	1.3 r
Indexes 2012=100										
2017 ANNUAL	101.3 r	112.0 r	110.5 r	112.0 r	104.7 r	110.5 r	106.1 r	109.1 r	93.0 r	106.8 r
2017 IV	100.9 r	112.5 r	111.5	113.0 r	104.7 r	111.9 r	106.4 r	110.1 r	92.4 r	107.6 r
III	101.2 r	112.0 r	110.7	112.2 r	104.8 r	110.9 r	106.5 r	109.5 r	91.8 r	106.9 r
II	101.8 r	112.3 r	110.3 r	111.4 r	104.7 r	109.5 r	106.1 r	108.4 r	94.6 r	106.4 r
I	101.4 r	111.2 r	109.6	111.3 r	104.6 r	109.7 r	105.5 r	108.3 r	92.9 r	106.1 r
2016 ANNUAL	100.4 r	109.1 r	108.7	108.4 r	103.5 r	107.9 r	104.1 r	106.7 r	93.8 r	104.8 r
2016 IV	100.2 r	109.4 r	109.2	109.2 r	103.4 r	109.0 r	106.4 r	108.1 r	89.6 r	105.5 r
III	100.1 r	109.1 r	109.0	108.4 r	103.2 r	108.3 r	104.4 r	107.0 r	93.0 r	105.0 r
II	100.0 r	108.4 r	108.5	108.1 r	103.4 r	108.1 r	103.9 r	106.7 r	93.0 r	104.7 r
I	101.4 r	109.7 r	108.2	107.9 r	104.0 r	106.4 r	101.8 r	104.9 r	99.7 r	104.1 r
2015 ANNUAL	101.7 r	108.9 r	107.1	107.2 r	103.7 r	105.5 r	103.0 r	104.6 r	100.2 r	104.0 r
2015 IV	100.9 r	109.1 r	108.0	107.3 r	103.5 r	106.3 r	106.0 r	106.2 r	93.2 r	104.4 r
III	101.8 r	109.3 r	107.3	107.5 r	103.6 r	105.6 r	102.0 r	104.4 r	104.2 r	104.3 r
II	101.7 r	108.6 r	106.7	107.3 r	103.8 r	105.5 r	102.4 r	104.4 r	101.1 r	104.0 r
I	102.1 r	108.7 r	106.5	106.7 r	103.9 r	104.5 r	101.7 r	103.6 r	102.5 r	103.4 r

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r=revised

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