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PRODUCTIVITY AND COSTS

First Quarter 2019, Preliminary

Nonfarm business sector labor productivity increased 3.6 percent in the first quarter of 2019, the U.S. Bureau of Labor Statistics reported today, as output increased 4.1 percent and hours worked increased 0.5 percent. (All quarterly percent changes in this release are seasonally adjusted annual rates.) From the first quarter of 2018 to the first quarter of 2019, productivity increased 2.4 percent, reflecting a 3.9-percent increase in output and a 1.5-percent increase in hours worked. (See chart 1 and table A1.) The four-quarter increase in productivity is the largest since a 2.7-percent gain in the third quarter of 2010.

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 - 2019Q1

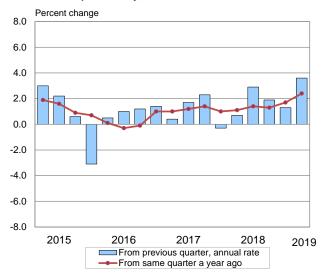
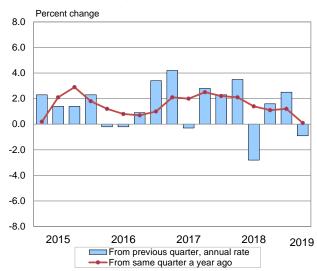


Chart 2. Unit labor costs, nonfarm business, 2015Q1 - 2019Q1



Unit labor costs in the nonfarm business sector decreased 0.9 percent in the first quarter of 2019, and increased 0.1 percent over the last four quarters—the lowest four-quarter rate since a 1.7-percent decline in the fourth quarter of 2013. (See chart 2, table 2, and appendix table 2.)

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

Manufacturing sector labor productivity increased 1.7 percent in the first quarter of 2019, as output decreased 1.0 percent and hours worked decreased 2.6 percent. Productivity increased 1.4 percent in the durable manufacturing sector and 2.1 percent in the nondurable manufacturing sector in the first quarter of 2019. Over the last four quarters, total manufacturing sector productivity increased 1.2 percent, as output increased 1.8 percent and hours worked increased 0.7 percent. Unit labor costs in manufacturing increased 0.8 percent in the first quarter of 2019 and decreased 0.1 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.)

Preliminary fourth-quarter and annual 2018 measures were announced today for the **nonfinancial corporate sector.** Productivity increased 3.2 percent in the fourth quarter of 2018 and increased 2.6 percent over the last four quarters. Annual average productivity increased 2.1 percent from 2017 to 2018. The historical average annual rate of productivity growth in the nonfinancial corporate sector between 1947 and 2018 is 2.2 percent. (See tables A2, C1, and 6.)

Revised measures

Hours and related measures—including labor productivity—for all sectors were revised to incorporate updated ratios of hours worked to hours paid by detailed industry, provided by the BLS National Compensation Survey. Percent changes were affected back to 2014 but revisions were small. Measures of real hourly compensation for all sectors also were revised from 2014 forward due to incorporation of the revised Consumer Price Index Research Series Using Current Methods.

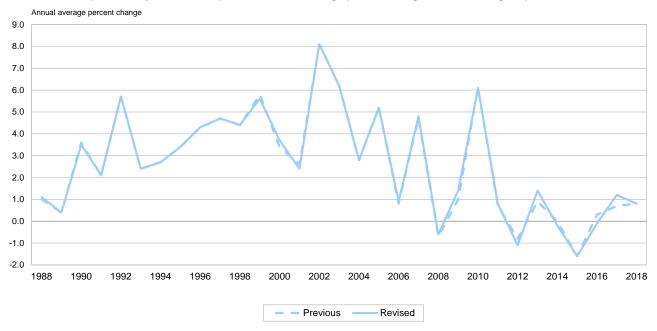
Manufacturing output and all related measures—including labor productivity—were revised historically to incorporate revised data from two sources: BLS annual measures of sectoral output from 1987 to 2016, and monthly Indexes of Industrial Production from January 1972 to February 2019, published by the Board of Governors of the Federal Reserve System on March 27, 2019.

Table B1 presents previous and revised productivity and related measures for the business, nonfarm business, and manufacturing sectors for the fourth quarter of 2018.

In the **fourth quarter of 2018**, nonfarm business sector productivity increased 1.3 percent, rather than 1.9 percent as reported March 7, reflecting both a downward revision to output and a slight upward revision to hours. Unit labor costs were revised up to an increase of 2.5 percent. Total manufacturing sector productivity increased 1.1 percent in the fourth quarter of 2018, a smaller increase than previously reported. Unit labor costs in the manufacturing sector increased 3.2 percent during the fourth quarter, higher than previously reported. Labor productivity was revised down in the durable manufacturing sector to an increase of 2.4 percent, and was revised down in the nondurable manufacturing sector to an increase of 0.9 percent. (See table B1.)

Annual average productivity growth in the nonfarm business sector was not revised for 2018, and was revised up 0.1 percentage point for 2017. (See table 2.) The annual average rate of manufacturing productivity growth was revised for several of the years from 1988 forward. (See chart 3.) The average annual rate of productivity growth in the total manufacturing sector from 2007 to 2018—corresponding to the current business cycle—was not revised, increasing 0.7 percent.

Chart 3. Labor productivity, revised and previous annual average percent change, manufacturing, all persons, 1988-2018



Quarterly and annual data for all sectors for recent years appear in tables 1-6 and appendix tables 1-6. Full historical annual and quarterly measures can be found at www.bls.gov/lpc/#data.

The revised Productivity and Costs news release for first-quarter 2019 is scheduled to be released on Thursday, June 6, 2019 at 8:30 a.m. (EDT).

Table A1. Labor productivity growth and related measures - preliminary first-quarter 2019	
(nercent change from previous quarter at appual 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 busines	s Previous quarter	3.6	4.1	0.5	2.6	1.7	-0.9
	A year ago	2.4	3.9	1.5	2.5	0.8	0.1
Business	Previous quarter	3.7	4.1	0.4	2.8	1.9	-0.8
	A year ago	2.4	3.9	1.4	2.5	8.0	0.1
Manufacturing	Previous quarter	1.7	-1.0	-2.6	2.4	1.5	0.8
	A year ago	1.2	1.8	0.7	1.1	-0.6	-0.1
Durable	Previous quarter	1.4	-0.9	-2.3	2.6	1.7	1.1
manufacturing	A year ago	1.6	3.0	1.4	8.0	-0.9	-0.8
Nondurable	Previous quarter	2.1	-1.0	-3.0	2.1	1.2	0.0
manufacturing	A year ago	1.2	0.6	-0.6	1.5	-0.2	0.2

Table A2. Labor productivity growth and related measures - preliminary fourth-quarter 2018 (percent change from previous quarter at annual rate and from same quarter a year ago)

Sector	Porcont change from:	Labor productivity	Output	Hours	Hourly	Real hourly	Unit labor
Nonfinancial	Percent change from: Previous quarter	3.2	4.5	worked 1.2	compensation 3.5	compensation	costs 0.3
corporate	A year ago	2.6	4.5	1.8	3.0	0.7	0.3

Table B1. Labor productivity growth and related measures - revised and previously published fourth-quarter 2018 (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	1.3	2.6	1.3	3.9	2.3	2.5
	Previously published	1.9	3.1	1.2	3.9	2.4	2.0
Business	Revised	1.2	2.6	1.4	3.6	2.1	2.4
	Previously published	1.8	3.2	1.3	3.6	2.1	1.8
Manufacturing	Revised	1.1	1.7	0.6	4.3	2.7	3.2
	Previously published	2.0	2.7	0.8	4.3	2.7	2.2
Durable	Revised	2.4	5.1	2.6	4.1	2.6	1.7
manufacturing	Previously published	3.3	6.1	2.7	4.1	2.6	0.7
Nondurable	Revised	0.9	-1.7	-2.6	4.0	2.5	3.1
manufacturing	Previously published	1.9	-0.7	-2.5	4.1	2.6	2.1

Table C1. La	Table C1. Labor productivity growth and related measures - annual average changes: 2014-2018											
Sector	Year	Labor productivity	Output	Hours worked	Hourly compensation	Real hourly compensation	Unit labor costs					
Nonfinancial	2018	2.1	4.3	2.1	2.3	-0.2	0.1					
corporate	2017	1.7	3.4	1.7	3.2	1.0	1.5					
	2016	0.0	1.5	1.5	1.1	-0.2	1.0					
	2015	1.2	3.4	2.2	3.0	2.9	1.8					
	2014	0.4	3.1	2.7	2.5	0.8	2.2					

TECHNICAL NOTES

Labor Hours

Hours data for the labor productivity and cost measures include hours worked for all persons working in the sector—wage and salary workers, the self-employed and unpaid family workers. The primary source of hours and employment data is the BLS Current Employment Statistics (CES) program, which provides monthly survey data on the number of jobs held by wage and salary workers in nonfarm establishments, counting a person who is employed by two or more establishments at each place of employment. The CES also provides average weekly paid hours of production and nonsupervisory workers in these establishments. Weekly paid hours are adjusted to hours 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. 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 52 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	pi ti		Output	worked	(1)	Real hourly compen- sation (2)	costs	Unit nonlabor payments (3)	(4)
						er at annua			
2019 I	3	3.7	4.1	0.4	2.8	1.9	-0.8	0.6	-0.2
2018 ANN	IUAL 1	L.4	3.4 r	2.0 r	2.9 r	0.4	1.5 r	3.2 r	2.2
2018 IV		1.2 r	2.6 r	1.4 r	3.6	2.1	2.4 r	0.7 r	1.6 r
III		L.5 r	3.9	2.4 r	3.2	1.2	1.8	0.3	1.1
II		3.5 r	5.1			-1.7 r		12.8	3.6
I	(0.9	2.5	1.5 r	4.7 r	1.4 r	3.7	-0.5	1.9
2017 ANN	IUAL 3	L.1	2.6	1.5	3.4	1.3 r	2.3	1.0	1.7
2017 IV	-1	l.1 r	2.9	4.0 r	1.2 r	-1.9 r	2.4 r	3.6 r	2.9
III	. 2	2.8	3.5	0.6 r	5.7 r	3.5 r	2.8	0.9	2.0
II		L.6	3.7	2.0 r	1.4 r	1.0 r	-0.3	2.3	0.8
I	-(0.1 r	1.9	2.0	4.1 r	1.2 r	4.2	-1.3	1.8
						arter of pro			
2019 I	2	2.4	3.9	1.4	2.5	0.8	0.1	3.5	1.5
2018 ANN	IUAL 1	L.4	3.4 r	2.0 r	2.9 r	0.4	1.5 r	3.2 r	2.2
2018 IV		l.8 r	3.5 r	1.7	3.0 r	0.7	1.2 r	3.2 r	2.1
ZUIO IV		1.0 r	3.6	2.4	2.4 r		1.2	3.9	2.4
II		L.5 r	3.5	1.9 r	3.0 r	0.3 r	1.4	4.1	2.6
I	-	1.1 r	3.1	2.0 r	3.2 r	1.0	2.1	1.6	1.9
2017 ANN	IUAL 1	1.1	2.6	1.5	3.4	1.3 r	2.3	1.0	1.7
2017 IV	(0.8 r	3.0	2.2	3.1 r	0.9	2.3	1.4	1.9
III	: 1	L.6 r	2.8	1.2	4.2 r	2.2 r	2.6	0.3	1.6
II	1	L.2	2.5	1.2 r	3.4 r	1.4	2.1	0.5	1.4
I	1	L.0	2.2	1.2	3.1	0.5	2.1	1.8	2.0
					xes 2012=10				
2019 I	107	7.2	120.6	112.5	117.3	106.1	109.4	109.6	109.5
2018 ANN	TUAL 105	5.6 r	117.9 r	111.7 r	115.2 r	105.1 r	109.1 r	108.5 r	108.8 r
2018 IV	106	5.2 r	119.4 r	112.4 r	116.5 r	105.6 r	109.6 r	109.4 r	109.6 r
III	105	5.9 r	118.6	112.0 r	115.4 r	105.1 r	109.0 r	109.3 r	109.1
II	105	5.5 r	117.5	111.3 r	114.5 r	104.7 r	108.5 r	109.2 r	108.8
I			116.0						107.9
2017 ANN	TUAL 104	1.1 r	114.0	109.5 r	112.0 r	104.7 r	107.5 r	105.1 r	106.5
2017 757	10/	1 4 ~	115 2	110 5 ~	112 1 ~	104 8 2	108.3 r	106.1 r	107.4
ZU1/ IV	. 10,	1.7 r	114 5	10.5 1	112 7 ~	105.01	108.3 r 107.7 r		
T T T	. ±0 1	20 2	113 E	100.4 1	111 2 ~	103.3 1	107.7 1		
T T	103).) <u>f</u> 5 r	112 5	102.4 I 108 7 ×	110 8 ~	104.8 r 105.3 r 104.4 r 104.2 r	107.0 £	104.9 r 104.3 r	106.1
			ттаріо 6						

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

_	Labor produc- tivity	Output		Hourly compen- sation (1)	Real hourly compen- sation (2)	Unit labor costs	Unit nonlabor payments (3)	Implicit price deflator (4)
		Percent char						
2019 I	3.6	4.1	0.5	2.6	1.7	-0.9	1.0	-0.1
2018 ANNUAL	1.3	3.5	2.1 r	2.8 r	0.3	1.4	3.3 r	2.2 r
2018 IV III II	1.3 r 1.9 r 2.9 r 0.7 r	2.6 r 4.0 5.0 2.6	1.3 r 2.1 2.1 1.9 r	3.9 3.5 0.0 r 4.1 r	2.3 r 1.5 r -2.2 0.9 r	2.5 r 1.6 -2.8 3.5	0.4 r 1.1 12.7 -0.4	1.6 r 1.4 3.6 1.8
2017 ANNUA		2.7	1.5 r	3.4	1.2	2.2	0.9	1.6
2017 IV III II I	-0.3 r 2.3 r 1.7 r 0.4	3.0 3.6 3.8 1.9	3.3 r 1.3 r 2.1 r 1.5	2.0 r 5.1 1.4 r 4.7	-1.1 r 2.9 0.9 r 1.9 r		3.7 1.1 2.3 -2.4	2.9 2.1 0.8 1.3
		rcent change						
2019 I	2.4	3.9	1.5	2.5	0.8	0.1	3.7	1.6
2018 ANNUAL	1.3	3.5	2.1 r	2.8 r	0.3	1.4	3.3 r	2.2 r
2018 IV III II I	1.7 r 1.3 r 1.4 r 1.1 r	3.5 r 3.6 3.5 3.2	1.8 r 2.3 r 2.1 r 2.2	2.9 r 2.4 r 2.8 r 3.1	0.6 -0.2 r 0.1 r 0.9	1.2 r 1.1 1.4 2.1 r	3.3 r 4.2 4.2 1.7	2.1 2.4 2.6 1.9
2017 ANNUAL	L 1.2 r	2.7	1.5 r	3.4	1.2	2.2	0.9	1.6
2017 IV III II I	1.0 1.4 1.2 1.0	3.1 2.9 2.6 2.2	2.0 r 1.5 1.4 1.2	3.3 r 4.0 r 3.2 3.1	1.1 2.0 r 1.3 0.5	2.2 2.5 2.0 2.1 r	1.1 0.2 0.5 1.8	1.8 1.5 1.4 1.9
			Inde	exes 2012=10	00			
2019 I	107.0	120.5	112.6	117.4	106.2	109.7	110.7	110.1
2018 ANNUAL	L 105.4 r	117.8 r	111.8 r	115.3 r	105.2 r	109.4 r	109.4 r	109.4 r
2018 IV III II I	106.1 r 105.7 r 105.2 r 104.5 r	117.3	111.5 r	116.6 r 115.5 r 114.5 r 114.5 r		108.8 r	110.0 r	110.2 r 109.7 109.3 108.4
2017 ANNUAL	L 104.0 r	113.8	109.4 r	112.2 r	104.9 r	107.9 r	105.9 r	107.0
I	104.3 r 104.4 r 103.8 r 103.4 r	112.3	109.2 r 108.6 r	113.4 r 112.8 r 111.4 r 111.0 r	104.6 r 104.4 r	108.1 r 107.3 r 107.4 r	105.6 r 105.0 r	106.6 106.4

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

er	Labor produc- tivity	Output	Hours worked	tion (1)	tion (2)	Unit labor costs
I	1.7	-1.0	-2.6	2.4	1.5	0.8
ANNUAL	0.8	2.7	1.9	1.7	-0.7	0.9
IV	1.1 r	1.7 r	0.6 r	4.3	2.7	3.2 r
						2.1 r
						-6.2 r
	-0.1	1.9 r	2.1	5.4	2.2 r	5.6 r
Δ ΝΙΝΙΤΙΔ Τ.	1 2 r	2 2 r	1 0	3 3 r	1 2	2.1 r
ANNOAL	1.2 1	2.2 1	1.0	5.5 1	1.2	2.1 1
IV	4.2 r	5.7 r	1.4	1.2	-1.8 r	-2.9 r
III	-4.4 r	-1.5 r	3.1	2.6	0.4	7.3 r
II	4.0 r	3.6 r	-0.4	2.7	2.3 r	-1.2 r
I	1.2 r	3.0 r	1.7	4.7	1.8 r	3.4 r
I	1.2	1.8	0.7	1.1	-0.6	-0.1
ANNUAL	0.8	2.7	1.9	1.7	-0.7	0.9
						1.1 r
						-0.4 r
						0.8 r
I	0.8 r	2.4 r	1.5 r	3.0	0.7 r	2.1 r
ANNUAL	1.2 r	2.2 r	1.0	3.3 r	1.2	2.1 r
IV	1.2 r	2.7 r	1.5	2.8	0.7	1.6 r
						3.0 r
						1.5 r
	0.7 r	1.5 r	0.7	3.2 r	0.7	2.5 r
I	102.3	108.8	106.4	113.6	102.8	111.1
ANNUAL	101.5 r	108.0 r	106.4 r	112.0 r	102.2 r	110.3 r
TV	101 9 ~	109 1 2	107 1 ~	112 0 2	102 4 2	110.8 r
						110.0 r
						10.0 r 109.4 r
1	101.1 1	100.0 1	105.7 1	112.4 1	103.3 1	111.1 r
ANNUAL	100.7 r	105.2 r	104.5 r	110.1 r	103.0 r	109.4 r
IV	101.2 r	106.3 r	105.1	110.9	102.8 r	109.6 r
III	100.1 r	104.9 r	104.7 r	110.6 r	103.3 r	110.4 r
	101.3 r	105.3 r	103.9 r	109.9 r	103.2 r	108.5 r
II	TOT.5 T					
	I ANNUAL IV III II I ANNUAL IV III II I ANNUAL IV III II I I I I I I I I I I I I I I	er tivity Percen I 1.7 ANNUAL 0.8 IV 1.1 r III 0.6 r II 1.2 I -0.1 ANNUAL 1.2 r IV 4.2 r III -4.4 r II 4.0 r II 1.2 r Percent I 1.2 r Percent I 1.2 r IV 0.7 r III 1.5 II 0.2 r IV 0.8 r ANNUAL 1.2 r IV 1.5 r IV 0.8 r ANNUAL 1.1 r IV 1.2 r IV 1.2 r IV 1.2 r IV 1.3 ANNUAL 1.1 r IV 1.1 f IV 1.1	Percent change from p I 1.7 -1.0 ANNUAL 0.8 2.7 IV 1.1 r 1.7 r III 0.6 r 4.0 r II 1.2 2.7 r I -0.1 1.9 r ANNUAL 1.2 r 2.2 r IV 4.2 r 5.7 r III -4.4 r -1.5 r II 4.0 r 3.6 r I 1.2 r 3.0 r Percent change from cor I 1.2 1.8 ANNUAL 0.8 2.7 IV 0.7 r 2.6 r III 1.5 3.6 II 0.2 r 2.2 r IV 0.8 r 2.4 r ANNUAL 1.2 r 2.2 r IV 1.2 r 2.2 r IV 0.7 r 1.5 r III 1.5 3.6 II 0.2 r 2.2 r IV 0.8 r 2.4 r ANNUAL 1.2 r 2.2 r IV 1.5 3.6 II 0.5 r 1.5 r III 1.5 IIII 1.5 III 1.5 II	Percent change from previous quarter I 1.7 -1.0 -2.6 ANNUAL 0.8 2.7 1.9 IV 1.1 r 1.7 r 0.6 r III 0.6 r 4.0 r 3.4 II 1.2 2.7 r 1.4 II -0.1 1.9 r 2.1 ANNUAL 1.2 r 2.2 r 1.0 IV 4.2 r 5.7 r 1.4 III -4.4 r -1.5 r 3.1 III 4.0 r 3.6 r -0.4 III 1.2 r 3.0 r 1.7 Percent change from corresponding quar I 1.2 1.8 0.7 ANNUAL 0.8 2.7 1.9 IV 0.7 r 2.6 r 1.9 IV 0.7 r 2.6 r 1.9 III 1.5 3.6 2.1 III 0.2 r 2.2 r 2.0 I 0.8 r 2.4 r 1.5 r ANNUAL 1.2 r 2.2 r 1.0 IV 0.7 r 1.5 r 0.7 III 1.5 3.6 2.1 III 0.2 r 2.2 r 2.0 I 0.8 r 2.4 r 1.5 r ANNUAL 1.2 r 2.2 r 1.0 IV 1.2 r 2.7 r 1.5 III 0.8 r 1.9 r 1.2 r III 0.7 r 1.5 r 0.7 Indexes 2012=100 I 102.3 108.8 106.4 ANNUAL 101.5 r 108.6 r 106.9 r III 101.4 r 107.5 r 106.0 r III 101.4 r 107.5 r 106.0 r INUMAL 100.7 r 105.2 r 104.5 r	Productivity Output worked tion (1) Percent change from previous quarter at annual rate I 1.7 -1.0 -2.6 2.4 ANNUAL 0.8 2.7 1.9 1.7 IV 1.1 r 1.7 r 0.6 r 4.3 III 0.6 r 4.0 r 3.4 2.8 III 1.2 2.7 r 1.4 -5.0 I -0.1 1.9 r 2.1 5.4 ANNUAL 1.2 r 2.2 r 1.0 3.3 r IV 4.2 r 5.7 r 1.4 1.2 III -4.4 r -1.5 r 3.1 2.6 III 4.0 r 3.6 r -0.4 2.7 I 1.2 r 3.0 r 1.7 4.7 Percent change from corresponding quarter of previous I 1.2 1.8 0.7 1.1 ANNUAL 0.8 2.7 1.9 1.7 IV 0.7 r 2.6 r 1.9 1.8 III 1.5 3.6 2.1 1.1 r IV 0.8 r 2.4 r 1.5 r 3.0 ANNUAL 1.2 r 2.2 r 1.0 3.3 r IV 1.2 r 2.8 r 3.0 r III 1.5 3.6 2.1 1.1 r III 0.2 r 2.2 r 2.0 1.0 I 0.8 r 2.4 r 1.5 r 3.0 ANNUAL 1.2 r 2.2 r 1.0 3.3 r IV 1.7 r 2.8 r 3.0 r IV 0.7 r 3.6 r 3.0 r III 1.5 3.6 2.1 1.1 r III 1.5 3.6 2.1 3.1 r III 1.5 3.6 2.1 3.0 r III 1.5 3.6 2.1 1.1 r III 1.5 3.6 2.1 3.0 r III 1.5 3.6 2.1 1.1 r III 1.5 3.6 2.1 3.0 r III 1.5 3.6 2.1 1.1 r III 1.5 3.6 2.1 1.0 3.3 r IV 1.2 r 2.2 r 1.0 3.3 r IV 1.2 r 2.7 r 1.5 2.8 r III 2.1 r 2.8 r 0.7 3.6 r III 1.1 r 1.5 r 1.5 r 1.5 r III 2.1 r 2.8 r 0.7 3.6 r III 1.1 r 1.5 r 1.5 r 1.5 r III 2.1 r 2.8 r 0.7 3.6 r III 1.1 r 1.5 r 1.5 r 1.5 r III 1.1 r 1.5 r 1.5 r 1.5 r III 1.1 r 1.5 r 1.5 r 1.5 r III 1.1 r 1.5 r 1.5 r 1.5 r III 1.1 r 1.5 r 1.5 r 1.5 r III 1.1 r 1.5 r 1.5 r 1.5 r 1.5 r III 1.1 r 1.5 r 1.5 r 1.5 r 1.5 r III 1.1 r 1.5 r 1.5 r 1.5 r 1.5 r III 1.1 r 1.5 r 1.5 r 1.5 r 1.5 r III 1.1 r 1.1 r 1.1 r 1.1 r III 1.1 r 1.1 r 1.1 r 1.1 r III 1.1 r 1.1 r 1.1 r 1.1 r III 1.1 r 1.1 r 1.1 r 1.1 r III 1.1 r 1.1 r 1.1 r 1.1 r III 1.1 r 1.1 r 1.1 r 1.1 r III 1.1 r 1.1 r 1.1 r 1.1 r IIII 1.1 r 1.1 r 1.1 r 1.1 r III 1.1 r 1.1 r 1.1 r 1.1 r 1.1 r II	Eabor productivity Output Worked Compensa compensation (2) Percent change from previous quarter at annual rate (5) I 1.7 -1.0 -2.6 2.4 1.5 ANNUAL 0.8 2.7 1.9 1.7 -0.7 IV 1.1 r 1.7 r 0.6 r 4.3 2.7 III 0.6 r 4.0 r 3.4 2.8 0.8 II 1.2 2.7 r 1.4 -5.0 -7.0 I -0.1 1.9 r 2.1 5.4 2.2 r ANNUAL 1.2 r 2.2 r 1.0 3.3 r 1.2 IV 4.2 r 5.7 r 1.4 1.2 -1.8 r III -4.4 r -1.5 r 3.1 2.6 0.4 r III -4.4 r -1.5 r 3.1 2.6 0.4 r III -4.0 r 3.6 r -0.4 2.7 2.3 r I 1.2 r 3.0 r 1.7 4.7 1.8 r Percent change from corresponding quarter of previous year I 1.2 1.8 0.7 1.1 -0.6 ANNUAL 0.8 2.7 1.9 1.7 -0.7 IV 0.7 r 2.6 r 1.9 1.8 -0.4 III -1.5 3.6 2.1 1.1 r -1.5 r III 0.2 r 2.2 r 2.0 1.0 -1.6 r III 0.2 r 2.4 r 1.5 r 3.0 0.7 r IV 0.7 r 2.6 r 1.9 1.8 -0.4 III 1.5 3.6 2.1 1.1 r -1.5 r III 0.2 r 2.2 r 2.0 1.0 -1.6 r III 0.2 r 2.2 r 3.0 1.0 -1.6 r III 0.2 r 2.2 r 3.0 1.0 -1.6 r III 0.2 r 2.2 r 3.0 1.0 -1.6 r III 0.2 r 2.2 r 3.0 1.0 -1.6 r III 0.2 r 2.7 r 1.5 2.8 0.7 III 0.8 r 2.4 r 1.5 r 3.0 0.7 r III 0.8 r 1.9 r 1.2 r 3.8 1.8 III 2.1 r 2.8 r 0.7 3.6 1.6 III 0.8 r 1.9 r 1.2 r 3.8 1.8 III 2.1 r 2.8 r 0.7 3.6 1.6 III 0.8 r 1.9 r 1.2 r 3.8 1.8 III 0.1 r 1.5 r 0.7 3.6 r 1.6 III 0.1 r 1.5 r 1.5 r 7 3.0 r 1.7 r 1.5 r III 0.1 r 1.5 r III 0.8 r 1.9 r 1.2 r 3.8 1.8 III 0.9 r 1.9 r 1.5

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

Year and quart	er	Labor produc- tivity	Output	Hours worked	Hourly compensa- tion (1)	Real hourly compensa- tion (2)	Unit labor costs
		Percent			at annual rate		
				_			
2019	I	1.4	-0.9	-2.3	2.6	1.7	1.1
2018	ANNUAL	1.2 r	3.4 r	2.2 r	2.1 r	-0.4 r	0.8 r
2018	IV	2.4 r	5.1 r	2.6 r	4.1	2.6	1.7 r
	III	1.9 r	5.8 r	3.8 r	1.5 r	-0.5 r	-0.4 r
	II	0.4 r	2.2 r	1.7 r	-4.9	-6.9	-5.3 r
	I	0.4	3.9 r	3.5 r	6.4 r	3.1 r	5.9 r
2017	ANNUAL	1.7 r	2.3 r	0.6	4.1	1.9	2.3 r
2017	IV	4.3 r	5.3 r	1.0 r	1.7 r	-1.4 r	-2.5
	III	-3.9 r	-1.3 r	2.6 r	2.4 r	0.3 r	6.5 r
	II	5.4 r	2.8 r	-2.5	6.2	5.8 r	0.8 r
	I	1.0 r	3.9 r	2.9	4.0	1.2 r	3.0 r
		Percent o	change from cor	responding quar	ter of previous	year	
2019	I	1.6	3.0	1.4	0.8	-0.9	-0.8
2018	ANNUAL	1.2 r	3.4 r	2.2 r	2.1 r	-0.4 r	0.8 r
0010	T. 7	1 2	4 0	2 0	1.7 r	0 5	0 4
2018		1.3 r	4.2 r	2.9 r		-0.5 r	0.4 r
	III	1.8 r	4.3	2.5 r	1.1 r	-1.5 r	-0.6 r
	II	0.3 r	2.5 r	2.2 r	1.3 r	-1.3 r	1.0 r
	I	1.5 r	2.6 r	1.1 r	4.2 r	1.9 r	2.6 r
2017	ANNUAL	1.7 r	2.3 r	0.6	4.1	1.9	2.3 r
2017	TV	1.6 r	2.6 r	1.0	3.6 r	1.4	1.9 r
	III	1.0 r	1.9 r	0.8	4.7	2.6	3.5 r
	II					2.6	
	I	2.8 r 1.3 r	3.0 r 1.8 r	0.2 0.5	4.6 3.5	1.0 r	1.8 r 2.2 r
					J.J		
			In	dexes 2012=100			
2019	I	103.3	110.4	106.9	114.3	103.4	110.7
2018	ANNUAL	102.2 r	108.7 r	106.4 r	112.9 r	103.0 r	110.5 r
2018	IV	102.9 r	110.6 r	107.5 r	113.6 r	103.0 r	110.4 r
	III	102.3 r	109.3 r	106.8 r	112.5 r	102.4 r	110.0 r
	II	101.8 r	107.7 r	105.8 r	112.1 r	102.5 r	110.1 r
	I	101.7 r	107.2 r	105.4 r	113.5 r	104.3 r	111.6 r
	_	101.7 1	±04 ±	100.1 1	110.0 1	101.0 1	· ·
2017	ANNUAL	101.0 r	105.1 r	104.1 r	110.6 r	103.4 r	109.6 r
2017	IV	101.6 r	106.1 r	104.5 r	111.7 r	103.5 r	110.0 r
	III	100.5 r		104 2 ~	111.3 r	103.9 r	110.7 r
	II	101.5 r	104.8 r 105.1 r	104.2 r	110.6 r	103.8 r	108.9 r
	I	100.2 r	104.4 r	104.2	108.9 r	102.4 r	108.7 r
					100.9 1		
Soo f	ootnotes f	following Table	a 6			IM	1237 2 2010

May 2, 2019 Source: Bureau of Labor Statistics See footnotes following Table 6.

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

Year and quart	cer	Labor produc- tivity	Output	Hours worked	Hourly compensa- tion (1)	Real hourly compensa- tion (2)	Unit labor costs
		Percent	change from p		at annual rate		
2019	I	2.1	-1.0	-3.0	2.1	1.2	0.0
2018	ANNUAL	0.6 r	1.9 r	1.3 r	0.9 r	-1.5 r	0.4 r
			1.7 1		0.5 1	1.5 1	0.11
2018		0.9 r	-1.7 r	-2.6 r	4.0 r	2.5 r	3.1 r
	III	-0.4 r	2.2 r	2.6 r	5.4	3.3	5.8 r
	II	2.3 r	3.1 r	0.8 r	-5.3 r	-7.3 r	-7.5 r
	I	0.1 r	-0.1 r	-0.3 r	3.3 r	0.0 r	3.1 r
2017	ANNUAL	0.2 r	1.9 r	1.7	2.0 r	-0.1	1.8 r
2017	IV	3.9 r	6.2 r	2.2 r	0.5 r	-2.6	-3.3 r
201,	III	-5.3 r	-1.6 r	3.9 r	3.0 r	0.9 r	8.8 r
	II	1.1 r	4.4 r	3.3	-3.3	-3.7 r	-4.4 r
	I	2.3 r	2.0 r	-0.3	5.7 r	2.9 r	3.4 r
				responding guar	ter of previous		
0010	_						0.0
2019	I	1.2	0.6	-0.6	1.5	-0.2	0.2
2018	ANNUAL	0.6 r	1.9 r	1.3 r	0.9 r	-1.5 r	0.4 r
2018	IV	0.7 r	0.8 r	0.1 r	1.7 r	-0.5 r	1.0 r
	III	1.5 r	2.8 r	1.3 r	0.9 r	-1.7 r	-0.6 r
	II	0.2 r	1.8 r	1.6 r	0.3 r	-2.3 r	0.1
	I	-0.1 r	2.2 r	2.3 r	0.8 r	-1.4 r	0.9 r
2017	ANNUAL	0.2 r	1.9 r	1.7	2.0 r	-0.1	1.8 r
2017	IV	0.4 r	2.7 r	2.3 r	1.4 r	-0.7 r	1.0 r
	III	0.1 r	1.9 r	1.8	2.2 r	0.2 r	2.2 r
	II	0.8 r	2.4 r	1.5	1.7	-0.2	0.9 r
	I	-0.4 r	0.9 r	1.2	2.8	0.2	3.1 r
			In	dexes 2012=100			
2019	I	102.5	108.1	105.5	112.0	101.3	109.3
2018	ANNUAL	101.7 r	108.2 r	106.4 r	110.3 r	100.6 r	108.5 r
2018	IV	101.9 r	108.3 r	106.3 r	111.4 r	101.0 r	109.3 r
3	III	101.7 r	108.8 r	107.0 r	110.3 r	100.4 r	108.5 r
	II	101.8 r	108.2 r	106.3 r	108.9 r	99.6 r	107.0 r
	I	101.2 r	107.4 r	106.1 r	110.4 r	101.5 r	109.1 r
2017	ANNUAL	101.1 r	106.2 r	105.0 r	109.2 r	102.1 r	108.1 r
0015			105 1		100 5		
2017		101.2 r	107.4 r	106.2 r	109.5 r	101.5 r	108.2 r
	III	100.2 r	105.8 r	105.6 r	109.4 r	102.2 r	109.1 r
	II	101.6 r	106.3 r	104.6 r	108.6 r	102.0 r	106.9 r
	I	101.3 r	105.1 r	103.7 r	109.5 r	102.9 r	108.1 r

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 compen- sation	sation (2)	labor costs	costs (6)	costs (7)		Implicit price deflator (4)
				from previo						
2018 ANNU	JAL 2.1	4.3	2.1	2.3	-0.2	0.1	0.0	0.1	6.2	0.9
2018 IV	3.2	4.5	1.2	3.5	2.0	0.3	1.8	0.8	-0.5	0.6
III	6.2 r	7.7	1.4 r		1.6	-2.3		-2.6	18.9	0.0
II	-2.0 r 3.4 r	0.8 5.3	2.8 r	-0.1 r 4.8 r		1.9	2.7 -1.0	2.2 0.6	17.1 5.5	4.0 1.2
2017 ANNU	JAL 1.7 r		1.7	3.2	1.0			1.3		0.9
2017 IV	1.4	4.2	2.7 r		-2.7 r			-0.6	7.8	0.4
III	1.1 r 4.6 r	2.5 7.4	1.4 r 2.7	2.8 r 0.0 r	0.7 r -0.4 r		0.6 -2.4	1.3 -3.7	-17.1 7.5	-1.2 -2.4
I	3.1	5.0	1.8		5.2 r			3.2	10.6	4.1
2016 ANNU	JAL 0.0	1.5	1.5	1.1	-0.2	1.0	0.1	0.7	-6.8	-0.3
2016 IV III	-2.3 4.6	-1.7 6.3	0.6 1.6 r	3.5 1.4	0.9 r -0.5	o.∪ -3.1	7.6 -3.6	6.5 -3.3	-9.1 -5.4	4.4 -3.5
II	-4.8	-3.6	1.2	0.3	-2.5 r			5.8		1.6
I	3.5	3.8	0.2		2.4 r			-5.7		-1.5
				om correspo						
2018 ANNU	JAL 2.1	4.3	2.1	2.3	-0.2	0.1	0.0	0.1	6.2	0.9
2018 IV	2.6	4.5	1.8	3.0	0.7	0.3	0.1	0.2	10.0	1.4
III	2.2 r	4.4	2.2 r	2.2 r	-0.5 r		-0.2	-0.1	12.2	1.4
II	1.0 r	3.2	2.2 r	1.9	-0.7 r		0.7	0.9	2.5	1.1
I	2.6 r	4.8	2.2	2.0 r	-0.3	-0.6	-0.6	-0.6	0.3	-0.5
2017 ANNU	JAL 1.7 r	3.4	1.7	3.2	1.0	1.5	1.0	1.3	-2.1	0.9
2017 IV	2.6 r	4.8	2.1 r	2.8 r	0.6	0.2	-0.3	0.0	1.5	0.2
III	1.6 r	3.2	1.6 r		1.5	1.9	1.4	1.8	-2.7	1.2
II	2.5 r 0.1	4.2	1.7	3.2 3.3	1.2 0.7	0.7 3.2	0.3	0.6 3.0	0.5 -7.1	0.6
		1.4	1.3				2.5			1.6
2016 ANNU	JAL 0.0	1.5	1.5	1.1	-0.2	1.0	0.1	0.7	-6.8	-0.3
2016 IV	0.2	1.1	0.9	1.9	0.0	1.7		0.7	-3.1	0.2
III	0.3 -0.6	1.9	1.6	0.7	-0.5	0.4	0.2	0.4	-11.6	-1.4
II		2.0	1.7 1.6	0.7 0.6 1.3	-0.5 0.2	0.9	0.4	0.7	- / . / - 4 . 4	0.0
2018 VVIVI	JAL 106.0	119.6	112.9	114.3	104.3	107.9	104.1	106.6	96.8	105.2
2018 IV III	107.3 106.4 r	121.8	113.5 113.2 r		104.8	107.8 107.7		106.6 106.4	99.7 99.9	105.6 105.4
II	106.4 r 104.8 r		113.2 r 112.8 r		104.3 r 103.8 r	107.7		106.4	99.9 95.6	105.4
I	105.3 r	118.0	112.0 r	113.6 r	104.4 r	107.8	103.8	106.5	91.9	104.4
2017 ANNU	JAL 103.8 r	114.7	110.6 r	111.8 r	104.5 r	107.7	104.1	106.5	91.2	104.3
2017 IV	104.5 r	116.5	111.5 r	112.2 r	104.0 r	107.4	104.1	106.3	90.7	104.1
III	104.1 r	115.3	110.7 r	112.1 r	104.8 r	107.7	104.0	106.5		104.0
II -	103.8 r	114.6	110.4 r	111.4 r	104.6 r	107.3	103.8	106.1	93.3	104.3
I	102.7 r	112.6	109.6 r	111.4 r	104.7 r	108.5	104.4	107.1	91.6	104.9
2016 ANNU	JAL 102.1 r	111.0	108.7 r	108.3 r	103.4 r	106.1	103.1	105.1	93.1	103.4
2016 IV		111.2	109.1 r	109.2 r		107.2	104.4	106.3		103.9
III	102.5 r		109.0 r		103.2 r	105.7	102.5			
II	101.3 r 102.6 r	110.0 111.0	108.5 r 108.2 r	107.9 r 107.8 r	103.3 r 103.9 r			105.5	92.8 98.7	103.7 103.3

See footnotes following Table 6. r=revised

May 2, 2019 Source: Bureau of Labor Statistics

vised Source: Bureau of Labor Statistic

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 fourth quarter of 2018.

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 adjustments.

Appendix table 1.

Business sector: Revised labor productivity, hourly compensation, unit labor costs, and prices, seasonally adjusted.

		Labor produc- tivity	Output	Hours worked	Hourly compen- sation (1)	Real hourly compen- sation (2)	Unit labor costs	Unit nonlabor payments (3)	
						er at annua			
2015	ANNUAL	1.2	3.5	2.3	2.8	2.7	1.7	-0.7	0.6
2015					-1.0	-1.1 r	2.2	-3.6	
	III II	0.8 2.5	0.8	-0.1 1.5	2.1 4.0	0.4 r 1 1 r	1.3 1.4	1.3 3.1	1.3 2.2
			4.1	1.4				-5.6	
2014	ANNUAL	0.7	3.0	2.4	2.6	0.9	1.9	1.3	1.7
2014	IV			4.8				-7.0	
	III II	3.1 3.3	6.4 6.5	3.1 3.1	1.4 -3.1	0.3	-1.7	5.7 15.4	1.6 2.8
				1.6		6.8	13.3	-12.4	
2013	ANNUAL	0.9	2.4	1.5	1.5	0.0	0.6	2.6	1.5
2013		2.7						4.7	
		1.6 -0.6	4.2	2.5	-1.5	-3.6 3.5	-3.0	8.1 -3.0	1.8 0.7
	I	3.6	4.9	1.2	-5.0	-6.6	-8.4	14.8	1.1
						arter of pr		 r	
2015	ANNUAL	1.2	3.5	2.3	2.8	2.7	1.7	-0.7	0.6
2015	IV	0.7						-1.3	0.4
	III II	0.9 1.5	2.8 4.2	1.9 2.7	3.7 3.5	3.5 3.4		-2.2 -1.1	0.6 0.6
	I						2.0 0.1	1.7	
2014	ANNUAL	0.7	3.0	2.4	2.6	0.9	1.9	1.3	1.7
2014		0.2	3.3					-0.1	1.4
	III II	1.4 1.0	3.8 3.3	2.3 2.2	2.5 1.8	0.7 -0.3	1.1 0.8	2.9 3.4	1.9 1.9
	I	0.1	1.8	1.7	3.4	1.9	3.3	-1.0	1.4
2013	ANNUAL	0.9	2.4	1.5	1.5	0.0	0.6	2.6	1.5
2013	IV	1.8	3.5			-1.5			1.4
	III II	0.8 0.2	2.5 1.7	1.7 1.5	1.8	0.3	1.0 2.1	1.8 0.6	1.3 1.4
	I	0.8	2.1	1.3	2.1	0.3			1.7
				Inde	exes 2012=10)0			
2015	ANNUAL	102.8	109.3	106.3	107.1	103.6	104.2	103.2	103.8
2015	IV	102.4 r	109.7	107.1 r	107.4 r	103.5 r	104.9	102.8	104.0
	III II	103.2 103.0	109.6 109.4	106.2 106.2	107.7	103.8 r 103.7 r	104.3	103.8	104.1
	I	103.0 102.4 r	109.4	106.2 105.8 r	107.2 r 106.1 r	103.7 r	104.0 103.6	103.5 102.7 r	103.8 103.2
2014	ANNUAL	101.6	105.6	103.9	104.1	100.9	102.5	104.0	103.2
2014		101.7	107.3	105.4	104.8	101.5 r	103.1	104.2	103.6
	III	102.3	106.6	104.2	103.9	100.3 r 100.3 r	101.5	106.1	103.5
	II I	101.5 100.7	105.0 103.4	103.4 102.6	103.5 104.3	100.3 r 101.6	102.0 103.6	104.6 100.9	103.1 102.4
2013	ANNUAL	100.9	102.4	101.5	101.5	100.0	100.6	102.6	101.5
2013	IV	101.6	103.8	102.2	102.0	99.9	100.4	104.3	102.1
	III	100.9	102.7	101.8	101.3	99.7	100.4	103.1	101.6
	II I	100.5 100.6	101.7 101.5	101.2 100.9	101.7 100.9	100.6 99.7	101.2 100.3	101.1 101.9	101.2 101.0

May 2, 2019 Source: Bureau of Labor Statistics

r=revised

Appendix table 2. Nonfarm business sector: Revised labor productivity, hourly compensation, unit labor costs, and prices, seasonally adjusted.

	Labor produc- tivity	Output	Hours worked	Hourly compen- sation (1)	compen- sation	Unit labor costs	Unit nonlabor payments (3)	
ANNUAL	1.3	3.5	2.2	3.1	2.9	1.8	-0.3	0.8
		0.1	3.2	-0.9	-0.9 r	2.3	-3.3	
		0.6 4.1	0.0 1.8 r	2.0	0.4	1.4	1.0	1.2 2.1
ANNUAL	0.8	3.1	2.3	2.8	1.1	2.0	1.6	1.8
		2.2						0.2
III	3.7	6.4	2.6	2.2	1.1 r	-1.5	6.8	2.1
								$2.4 \\ 1.1$
	3.0	4.6	1.5	2.9	1.3	-0.2	6.3	
III	1.9	4.1	2.1	-1.0	-3.2	-2.9	8.8	2.0
								1.2 0.7
ANNUAL	1.3	3.5	2.2	3.1	2.9	1.8	-0.3	0.8
IV	0.7	2.2		2.5	2.0	1.8	-0.9	0.7
	0.9			3.8	3.5 r	2.9	-1.9	0.8
								1.0 1.0
ANNUAL	0.8							
IV	0.3	3.3	3.0		1.8	2.7		1.5
	1.6	3.9	2.2			1.1		2.1
	0.0	1.7	1.7	3.5	2.0	3.4	-0.5	2.0 1.7
ANNUAL	0.5	2.2	1.7	1.3	-0.2	0.8	2.3	1.5
	1.5	3.2	1.7					1.6
							1.4	1.4
I	0.5	2.0	1.8	1.8	0.5	1.3	1.7	1.3 1.5
			 Inde	xes 2012=10	 10			
ANNUAL	102.6	109.0	106.2	107.3	103.8	104.6	103.6	104.2
IV	102.2 r	109.4	107.0 r	107.6 r	103.7 r	105.3	103.3 r	104.4
III	103.0	109.4	106.2	107.9	104.0 r	104.7	104.2	104.5
I			106.2 r 105.7 r					104.2 103.6
	101.3	105.4	104.0	104.1	100.9	102.8	104.0	103.3
IV	101.6	107.0	105.4	105.0 r	101.7 r	103.4	104.2	103.8
III	102.1	106.5	104.2	103.9	100.4 r	101.8	106.2	103.7
								103.2 102.6
	100.5	102.2	101.7	101.3	99.8	100.8	102.3	101.5
							104.4 r	102.3
III	100.5	102.4	102.0	101.2	99.5	100.7	102.8	101.6
II T	100.0	101.4	101.4	101.4	100.3	101.4	100.7	101.1 100.8
	ANNUAL IV III I ANNUAL IV III I ANNUAL IV III II II I ANNUAL IV III II	ANNUAL 1.3 IV -3.1 III 0.6 r II 2.2 I 3.0 r ANNUAL 0.8 IV -2.2 III 3.7 II 3.4 I -3.4 ANNUAL 0.5 IV 3.0 III 1.9 II -1.3 I 2.4 Per ANNUAL 1.3 IV 0.7 III 0.9 II 1.6 I 1.9 ANNUAL 0.8 IV 0.3 III 1.6 I 1.9 ANNUAL 0.8 IV 0.3 III 1.6 I 1.9 ANNUAL 0.5 IV 1.5 III 0.4 III -0.3 I 0.5 ANNUAL 102.6 IV 102.2 r III 103.0 II 102.9 r I 102.3 r ANNUAL 101.3 IV 101.6 III 102.1 II 102.1 II 100.5 IV 101.2 III 100.5 IV 101.2 III 100.5 IV 101.2 III 100.5 III 100.5	Percent chan ANNUAL 1.3 3.5 IV -3.1 0.1 III 0.6 r 0.6 II 2.2 4.1 I 3.0 r 4.1 ANNUAL 0.8 3.1 IV -2.2 2.2 III 3.7 6.4 II 3.4 6.5 I -3.4 -1.6 ANNUAL 0.5 2.2 IV 3.0 4.6 III 1.9 4.1 II -1.3 0.0 I 2.4 4.1 Percent change ANNUAL 1.3 3.5 IV 0.7 2.2 III 0.9 2.7 III 1.6 4.2 I 1.9 4.8 ANNUAL 0.8 3.1 IV 0.3 3.3 III 1.6 3.9 II 1.2 3.3 II 1.6 3.9 II 1.2 3.3 II 1.7 ANNUAL 0.5 2.2 IV 1.5 3.2 IV 1.5 3.2 III 0.4 2.2 IV 1.5 3.2 III 0.4 2.2 III 0.4 2.2 III 0.4 2.2 III 0.5 2.0 ANNUAL 102.6 109.0 IV 102.2 r 109.4 III 103.0 109.4 II 102.9 r 109.2 I 102.3 r 108.1 ANNUAL 101.3 105.4 IV 101.6 107.0 III 102.1 106.5 II 101.2 104.8 I 100.4 103.2 ANNUAL 100.5 102.2 IV 101.2 103.6 III 100.5 102.4 III 100.5 102.4	Percent change from pre ANNUAL 1.3 3.5 2.2 IV -3.1 0.1 3.2 III 0.6 r 0.6 0.0 II 2.2 4.1 1.8 r I 3.0 r 4.1 1.1 ANNUAL 0.8 3.1 2.3 IV -2.2 2.2 4.5 III 3.7 6.4 2.6 III 3.4 6.5 3.0 I -3.4 -1.6 1.9 ANNUAL 0.5 2.2 1.7 IV 3.0 4.6 1.5 III 1.9 4.1 2.1 II -1.3 0.0 1.4 I 2.4 4.1 1.7 Percent change from corre ANNUAL 1.3 3.5 2.2 IV 0.7 2.2 1.5 III 0.9 4.1 2.1 II -1.3 0.0 1.4 I 2.4 4.1 1.7 Percent change from corre ANNUAL 0.8 3.1 2.3 IV 0.7 2.2 1.5 III 1.6 4.2 2.5 I 1.9 4.8 2.8 ANNUAL 0.8 3.1 2.3 IV 0.3 3.3 3.0 III 1.6 4.2 2.5 I 1.9 4.8 2.8 ANNUAL 0.8 3.1 2.3 IV 0.3 3.3 3.0 III 1.6 3.9 2.2 II 1.2 3.3 2.1 I 0.0 1.7 1.7 ANNUAL 0.5 2.2 1.7 IV 1.5 3.2 1.7 III 0.4 2.2 1.8 III 0.4 2.2 1.8 III 1.0 4 2.2 1.8 III 0.5 2.0 1.6 ANNUAL 101.3 105.4 104.0 IV 101.6 107.0 105.4 III 102.1 106.5 104.2 II 102.2 I 104.8 103.6 r IV 101.2 103.6 102.3 IIII 100.5 102.4 102.0 III 100.0 101.4 101.4	Percent change from previous quart ANNUAL 1.3 3.5 2.2 3.1 IV -3.1 0.1 3.2 -0.9 III 0.6 r 0.6 0.0 2.0 II 2.2 4.1 1.8 r 3.7 I 3.0 r 4.1 1.1 5.3 ANNUAL 0.8 3.1 2.3 2.8 IV -2.2 2.2 4.5 4.2 r III 3.7 6.4 2.6 2.2 III 3.4 6.5 3.0 -3.0 I -3.4 -1.6 1.9 9.3 ANNUAL 0.5 2.2 1.7 1.3 IV 3.0 4.6 1.5 2.9 III 1.9 4.1 2.1 -1.0 II -1.3 0.0 1.4 3.0 I 2.4 4.1 1.7 -5.6 Percent change from corresponding quart ANNUAL 1.3 3.5 2.2 3.1 IV 0.7 2.2 1.5 2.5 III 1.9 4.8 2.8 2.1 ANNUAL 1.3 3.5 2.2 3.1 IV 0.7 2.2 1.5 2.5 III 0.9 2.7 1.8 3.8 I 1.9 4.8 2.8 2.1 ANNUAL 0.8 3.1 2.3 2.8 IV 0.3 3.3 3.0 3.1 III 1.6 4.2 2.5 3.8 I 1.9 4.8 2.8 2.1 ANNUAL 0.8 3.1 2.3 2.8 IV 0.3 3.3 3.0 3.1 III 1.6 3.9 2.2 2.7 III 1.9 4.8 2.8 2.1 ANNUAL 0.8 3.1 2.3 2.8 IV 0.3 3.3 2.1 1.9 III 1.6 3.9 2.2 2.7 III 1.9 4.8 2.8 2.1 ANNUAL 0.8 3.1 2.3 2.8 IV 0.3 3.3 2.1 1.9 III 1.0 3.3 2.1 1.9 III 1.0 4.2 2.5 3.8 IV 0.3 3.3 2.1 1.9 III 1.0 4 2.2 1.8 1.7 III 1.0 4 2.2 1.8 1.7 III 1.0 4 2.2 1.8 1.7 III 0.4 2.2 1.8 1.7 III 0.4 1.2 2.1 ANNUAL 0.5 2.2 1.7 1.3 IV 102.2 r 109.4 107.0 r 107.6 r III 102.3 r 108.1 105.7 r 106.4 r ANNUAL 101.3 105.4 104.0 104.1 IV 102.2 r 109.4 107.0 r 107.6 r III 102.3 r 108.1 105.7 r 106.4 r ANNUAL 101.3 105.4 104.0 104.1 IV 101.6 107.0 105.4 105.0 r III 102.1 106.5 104.2 103.9 III 101.2 104.8 103.6 r 103.4 r I 100.4 103.2 102.8 104.2 ANNUAL 100.5 102.2 101.7 101.3 IV 101.2 104.8 103.6 r 103.4 r III 100.5 102.4 102.0 101.2 III 100.5 102.4 102.0 101.2	Percent change from previous quarter at annua ANNUAL 1.3 3.5 2.2 3.1 2.9 IV -3.1 0.1 3.2 -0.9 -0.9 r III 0.6 r 0.6 0.0 2.0 0.4 II 2.2 4.1 1.8 r 3.7 0.9 I 3.0 r 4.1 1.1 5.3 8.0 ANNUAL 0.8 3.1 2.3 2.8 1.1 IV -2.2 2.2 4.5 4.2 r 5.2 r III 3.7 6.4 2.6 2.2 1.1 r II 3.4 6.5 3.0 -3.0 -5.0 I -3.4 -1.6 1.9 9.3 6.5 ANNUAL 0.5 2.2 1.7 1.3 -0.2 IV 3.0 4.6 1.5 2.9 1.3 III 1.9 4.1 2.1 -1.0 -3.2 III -1.3 0.0 1.4 3.0 3.4 I 2.4 4.1 1.7 -5.6 -7.2 Percent change from corresponding quarter of pr ANNUAL 0.5 2.2 1.5 2.5 2.0 III -1.3 3.3 5 2.2 3.1 2.9 ANNUAL 0.5 2.2 1.5 2.5 2.0 III -1.3 3.3 3.5 2.2 3.1 2.9 IV 0.7 2.2 1.5 2.5 2.0 III 0.9 2.7 1.8 3.8 3.5 r II 1.6 4.2 2.5 3.8 3.7 I 1.9 4.8 2.8 2.1 2.2 ANNUAL 0.8 3.1 2.3 2.8 1.1 IV 0.3 3.3 3.3 3.0 3.1 1.8 IV 0.3 3.3 3.3 3.0 3.1 1.8 IV 0.3 3.3 3.3 2.1 1.9 -0.2 ANNUAL 0.8 3.1 2.3 2.8 1.1 IV 0.3 3.3 3.3 2.1 1.9 -0.2 III 1.0 0.0 1.7 1.7 3.5 2.0 ANNUAL 0.8 3.1 2.3 2.8 1.1 IV 0.3 3.3 3.3 3.0 3.1 1.8 IV 1.0 0.4 2.2 1.8 1.7 -0.3 -1.5 III 1.0 0.4 2.2 1.8 1.7 -0.3 III 1.0 0.4 2.2 1.8 1.7 0.1 III 0.9 1.5 3.2 1.7 -0.3 -1.5 III 0.0 1.7 1.7 3.5 2.0 ANNUAL 0.5 2.2 1.7 1.3 0.0 ANNUAL 0.5 2.2 1.8 1.7 0.1 III 0.2 1.0 3.1 1.8 1.7 III 0.3 1.4 1.8 2.0 0.5 III 1.0 0.5 1.0 1.0 1.0 1.0 1.0 1.7 r III 1.0 1.3 10.5 4 10.4 10.4 10.4 10.3 9 r III 1.0 1.2 10.4 10.5 10.4 10.3 9 10.4 r III 1.0 1.9 10.9 10.6 10.7 r 10.3 9.8 IV 101.2 104.8 103.6 r 103.4 r 100.1 r III 100.4 101.2 104.8 103.6 r 103.4 r 100.1 r III 100.5 102.4 102.0 101.2 99.5 III 100.0 101.4 101.4 101.4 101.4	Percent change from previous quarter at annual rate(5) ANNUAL 1.3 3.5 2.2 3.1 2.9 1.8 IV	Percent change from previous quarter at annual rate(5) ANNUAL 1.3 3.5 2.2 3.1 2.9 1.8 -0.3 IV -3.1 0.1 3.2 -0.9 -0.9 r 2.3 -3.3 III 0.6 r 0.6 0.0 2.0 0.4 1.4 1.0 III 2.2 4.1 1.8 r 3.7 0.9 1.4 3.1 I 3.0 r 4.1 1.1 5.3 8.0 2.3 -4.1 ANNUAL 0.8 3.1 2.3 2.8 1.1 2.0 1.6 IV -2.2 2.2 4.5 4.2 r 5.2 r 6.5 -7.2 III 3.7 6.4 2.6 2.2 1.1 r -1.5 6.8 III 3.7 6.4 2.6 2.2 1.1 r -1.5 6.8 III 3.7 6.4 1.9 9.3 6.5 13.1 -12.6 ANNUAL 0.5 2.2 1.7 1.3 -0.2 0.8 2.3 IV 3.0 4.6 1.5 2.9 1.3 -0.2 0.8 2.3 IV 3.0 4.6 1.5 2.9 1.3 -0.2 6.3 III 1.9 4.1 2.1 -1.0 -3.2 -2.9 8.8 III -1.3 0.0 1.4 3.0 3.4 4.4 -2.9 I 2.4 4.1 1.7 -5.6 -7.2 -7.8 13.1 Percent change from corresponding quarter of previous year ANNUAL 1.3 3.5 2.2 3.1 2.9 1.8 -0.3 IV 0.7 2.2 1.5 2.5 2.0 1.8 -0.9 III 0.9 2.7 1.8 3.8 3.5 r 2.9 -1.9 III 0.9 4.8 2.8 2.1 2.2 0.2 2.2 ANNUAL 1.3 3.5 2.2 3.1 2.9 1.8 -0.3 IV 0.7 2.2 1.5 2.5 2.0 1.8 -0.9 III 0.9 4.8 2.8 2.1 2.2 0.2 2.2 ANNUAL 1.3 3.5 2.2 3.1 2.9 1.8 -0.9 III 0.9 2.7 1.8 3.8 3.5 r 2.9 -1.9 III 0.9 2.7 1.8 3.8 3.5 r 2.9 -1.9 III 1.6 4.2 2.5 3.8 3.7 2.1 -0.5 I 0.3 3.3 3.3 3.0 3.1 1.8 2.7 -0.2 ANNUAL 0.8 3.1 2.3 2.8 1.1 2.0 0.8 2.3 IV 0.7 2.2 1.5 2.5 2.0 1.8 -0.9 III 1.6 4.2 2.5 3.8 3.7 2.1 -0.5 I 0.5 2.2 1.7 0.9 1.1 3.3 I 0.9 2.7 1.8 3.8 3.5 r 2.9 -1.9 III 1.9 4.8 2.8 2.1 2.2 0.2 2.2 ANNUAL 0.8 3.1 2.3 2.8 1.1 2.0 0.8 2.3 IV 0.3 3.3 3.3 3.0 3.1 1.8 2.7 -0.2 III 1.9 4.8 2.8 2.1 2.2 0.2 0.2 2.2 ANNUAL 0.8 3.1 2.3 2.8 1.1 2.9 0.8 2.3 IV 0.7 2.2 1.5 2.5 2.0 1.8 -0.9 III 1.0 0.0 1.7 1.7 1.7 3.5 2.0 3.4 4.4 -0.5 IV 0.3 3.3 3.1 3.0 3.1 1.8 2.7 -0.2 III 1.9 4.8 2.8 2.1 2.2 2.7 0.9 1.1 3.3 IV 0.0 1.7 1.7 1.7 3.5 2.0 3.4 4.0 -0.5 ANNUAL 0.8 3.1 2.3 2.1 1.9 -0.2 0.7 3.8 1.0 I 0.0 1.7 1.7 1.7 3.5 2.0 3.4 -0.5 ANNUAL 0.8 3.1 2.3 3.0 3.1 1.8 2.7 -0.2 III 0.4 2.2 1.8 1.7 1.3 1.0 1.4 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0

r=revised

May 2, 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 produc- tivity	Output	Hours worked	Hourly compensa- tion (1)	Real hourly compensa- tion (2)	Unit labor costs
				at annual rate(
2015 ANNUAL	-1.6	-0.6	1.0	2.5	2.3	4.1
2015 IV	-4.0 r	-2.0 r	2.0 r	-1.8	-1.8 r	2.3 r
III	2.0 r	0.5 r	-1.5	4.5	2.8	2.4 r
II	-1.5 r	-1.3	0.1	2.1	-0.7 r	3.7 r
I	-2.0 r	-3.2 r	-1.2	4.0	6.6 r	6.0 r
2014 ANNUAL	-0.2 r	1.3 r	1.6	2.8	1.1	3.0 r
2014 IV	-4.0 r	0.6	4.7	3.3	4.3 r	7.5 r
III	-0.6 r	1.6 r	2.2	1.8	0.7	2.4 r
II	0.8 r	4.2 r	3.3	-2.4	-4.4	-3.1 r
I	0.5 r	-1.2 r	-1.7	10.4	7.6	9.9 r
2013 ANNUAL	1.4 r	2.2 r	0.8	0.5	-0.9	-0.9 r
2013 IV	-1.4 r	2.3 r	3.8	0.0	-1.5	1.4 r
III	-1.2 r	0.6 r	1.8	0.5	-1.6	1.8 r
II -	3.8 r	1.7 r	-2.0	3.7	4.1	-0.1 r
I	3.6 r	5.7 r	2.1	-3.7	-5.3 	-7.0 r
				ter of previous		
2015 ANNUAL	-1.6	-0.6	1.0	2.5	2.3	4.1
2015 IV	-1.4 r	-1.5 r	-0.1	2.2	1.7	3.6 r
III	-1.4	-0.9	0.5	3.4	3.2	4.9
II	-2.0 r	-0.6 r	1.4	2.8	2.7	4.9 r
I	-1.5	0.7	2.2	1.6	1.7	3.1
2014 ANNUAL	-0.2 r	1.3 r	1.6	2.8	1.1	3.0 r
2014 IV	-0.8 r	1.3 r	2.1	3.2	1.9	4.0 r
III	-0.2 r	1.7 r	1.9	2.3	0.5	2.5 r
II I	-0.3 r 0.4	1.5 r 0.8 r	1.8 0.5	2.0 3.6	-0.1 2.1	2.4 r 3.2 r
2013 ANNUAL	1.4 r	2.2 r	0.8	0.5	-0.9	-0.9 r
2013 IV	1.2 r	2.6 r	1.4	0.1 1.2	-1.1	-1.0 r
III II	2.1 r 2.0 r	2.6 r 2.2 r	0.5 0.2	0.8	-0.4 -0.7	-0.9 r -1.2 r
I	0.4 r	1.6 r	1.2	0.1	-1.7	-0.4 r
			dexes 2012=100			
2015 ANNUAL	99.6 r			105.9	102.4	106.3 r
2015 ANNOAL 2015 IV				106.3 r		
2015 IV III	99.0 r 100.0 r	102.6 r 103.1 r	103.6 r 103.1	106.3 r 106.8	102.4 r 102.9 r	107.3 r 106.7 r
II	99.5 r	103.1 r	103.5	105.6	102.9 r	106.7 r
I	99.9 r	103.3 r	103.4	105.0	102.3 r	105.1 r
2014 ANNUAL	101.2 r	103.6 r	102.4	103.3	100.1	102.1 r
2014 IV	100.4 r	104.2 r	103.8	104.0	100.7 r	103.6 r
III			102.6	103.2	99.7 r	101.8 r
II	101.6 r	103.6 r	102.0	102.7	99.5 r	101.1 r
I	101.4 r	102.6 r	101.2	103.4	100.6	102.0 r
2013 ANNUAL	101.4 r	102.2 r	100.8	100.5	99.1	99.1 r
2013 IV	101.2 r	102.9 r	101.6	100.8	98.8	99.6 r
III	101.6 r	102.3 r	100.7	100.8	99.2	99.2 r
II -	101.9 r	102.1 r	100.2	100.7	99.6	98.8 r
I	101.0 r	101.7 r	100.7	99.8	98.6	98.8 r

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r=revised

Source: Bureau of Labor Statistics

Appendix table 4.

Durable manufacturing sector: Revised labor productivity, hourly compensation, and unit labor costs, seasonally adjusted.

					Real	
Year	Labor		TI	Hourly	hourly	Unit
and quarter	_	Output	Hours worked	compensa- tion (1)		labor costs
		t change from p		r at annual rate		
2015 ANNUAL	-1.3 r	-0.7	0.6	3.1	2.9	4.4
2015 IV	-7.0 r	-5.5 r	1.6	-1.7	-1.8 r	5.7 r
III	2.1 r	-0.2 r	-2.3	4.2	2.6	2.1 r
II I	-1.3 r -2.1 r	-1.6 r -3.9 r	-0.3 -1.8	1.8 6.4	-0.9 9.1 r	3.2 r 8.7 r
2014 ANNUAL	0.4 r	2.6 r	2.2	2.3	0.6	1.9 r
2014 IV III	-1.6 r -0.6 r	1.0 r 3.3 r	2.6 3.9	3.8 1.6	4.8 r 0.5	5.5 r 2.2 r
II	0.7 r	6.0 r	5.3	-2.7	-4.8 r	-3.4 r
I	1.2 r	-0.3 r	-1.5	10.3	7.5	9.0 r
2013 ANNUAL	1.3 r	2.5 r	1.2	-0.2	-1.6	-1.5 r
2013 IV	-0.2 r	4.2 r	4.4	-2.3	-3.8	-2.1 r
III	-0.5 r	1.4 r	1.9	1.1	-1.0	1.6 r
II I	3.7 r	1.6 r 6.0 r	-2.0	2.9 -5.0	3.3 -6.6	-0.8 r
	2.7 r	0.0 1	3.3	-5.U 	-0.0 	-7.5 r
	Percent	change from con	rresponding qua	rter of previous	year	
2015 ANNUAL	-1.3 r	-0.7	0.6	3.1	2.9	4.4
2015 IV	-2.1 r	-2.8 r	-0.7	2.7	2.2	4.9 r
III	-0.7	-1.2	-0.5	4.1	3.8	4.8
II I	-1.4 -0.9	-0.3 r 1.5	1.1 2.5	3.4 2.2	3.3 2.3	4.9 3.2
2014 ANNUAL	0.4 r	2.6 r	2.2	2.3	0.6	1.9 r
2014 IV	-0.1 r	2.5 r	2.5	3.2	1.9 -0.2	3.2 r
III II	0.3 r 0.3 r	3.3 r 2.8 r	3.0 2.5	1.6 1.5	-0.2 -0.6	1.3 r 1.2 r
I	1.1 r	1.7 r	0.7	2.9	1.4	1.8 r
2013 ANNUAL	1.3 r	2.5 r	1.2	-0.2	-1.6	-1.5 r
2013 IV	1.4 r	3.3 r	1.9	-0.9	-2.1	-2.3 r
III	2.0 r	2.9 r	0.8	1.0	-0.6	-1.1 r
II	1.5 r	1.9 r	0.4	0.1	-1.4	-1.4 r
I	0.2 r	1.8 r	1.6	-0.9 	-2.6 	-1.1 r
		In	ndexes 2012=100			
2015 ANNUAL	100.4 r	104.4 r	103.9	105.2	101.8	104.8 r
2015 IV	99.2 r	103.1 r	103.9	105.6	101.7 r	106.4 r
III	101.0 r	104.6 r	103.5	106.0	102.2 r	104.9 r
II I	100.5 r 100.8 r	104.6 r 105.1 r	104.1 104.2	104.9 104.5	101.5 r 101.8 r	104.4 r 103.6 r
2014 ANNUAL	101.7 r	105.1 r	103.3	102.1	98.9	100.4 r
2014 ANNOAL 2014 IV		105.1 r	104.7	102.1	99.6 r	
ZUI4 IV III	101.4 r 101.8 r	105.1 r	104.7	102.8	99.6 r 98.4 r	101.5 r 100.1 r
II	101.0 r	105.0 r	103.0	101.5	98.3 r	99.6 r
I	101.7 r	103.5 r	101.7	102.2	99.5	100.4 r
2013 ANNUAL	101.3 r	102.5 r	101.2	99.8	98.4	98.5 r
2013 IV	101.4 r	103.6 r	102.1	99.7	97.7	98.3 r
III	101.5 r	102.5 r 102.1 r	101.0	100.3	98.6	98.8 r
II -	101.6 r			100.0	98.9	98.4 r
I	100.7 r	101.7 r	101.0	99.3	98.1	98.6 r

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Appendix table 5.

Nondurable manufacturing sector: Revised labor productivity, hourly compensation, and unit labor costs, seasonally adjusted.

Year		Labor			Hourly	Real hourly	Unit
and		produc-		Hours	compensa-	compensa-	labor
quar	ter	tivity	Output	worked	tion (1)	tion (2)	costs
					at annual rate		
2015	ANNUAL	-1.2 r	0.5	1.8	1.5	1.3	2.7 r
2015	IV	-1.1 r	1.7 r	2.8 r	-1.8 r	-1.9 r	-0.8 r
	III	1.6 r	1.5 r	-0.2 r	5.1	3.4	3.4 r
	II I	-1.2 -0.9 r	-0.3 -1.0 r	0.9 -0.1	2.8 -0.6 r	0.0 2.0 r	4.0 r 0.3 r
2014		0.0 r	0.5 r	0.5	3.6	1.9	3.6 r
	ANNUAL						
2014	IV	-6.6 r 1.3	1.3 r 0.6 r	8.5 -0.7	2.5 1.8	3.5 r 0.7	9.7 r 0.5 r
	II	3.0 r	3.0 r	0.0	-1.9	-4.0 r	-4.8 r
	I	0.4 r	-1.4 r	-1.8	10.5	7.7	10.1 r
2013	ANNUAL	1.7 r	1.9 r	0.2	1.9	0.4	0.2 r
2013	IV	-2.0	0.6	2.6	4.3	2.7	6.4
	III	-1.9 r	-0.2 r	1.6	-0.6	-2.7	1.3 r
	II	3.5 r	1.5 r	-1.9	5.1	5.5	1.6 r
	I	4.6 r	4.6 r	0.0	-1.2	-2.9	-5.5 r
		Percent	change from cor	responding quar	ter of previous	year	
2015	ANNUAL	-1.2 r	0.5	1.8	1.5	1.3	2.7 r
2015	IV	-0.4	0.5	0.9	1.3	0.8	1.7
	III	-1.8	0.4 r	2.2	2.4	2.2	4.3 r
	II	-1.9 r	0.2 r	2.1	1.6	1.5	3.6 r
	I	-0.9	1.0 r	1.8	0.5	0.5	1.3
2014	ANNUAL	0.0 r	0.5 r	0.5	3.6	1.9	3.6 r
2014	IV	-0.5 r	0.9 r	1.4	3.1	1.9	3.7 r
	III	0.7 r	0.7 r	0.0	3.6	1.7	2.9 r
	II	-0.1 r	0.5 r	0.6	3.0	0.8 r	3.1 r
	I	0.0	0.1	0.1	4.8	3.2	4.8
2013	ANNUAL	1.7 r	1.9 r	0.2	1.9	0.4	0.2 r
2013		1.0 r	1.6 r	0.6	1.9	0.6	0.8 r
	III	2.2 r	2.0 r	-0.1	1.5	0.0	-0.6 r
	II I	2.5 r 1.1 r	2.3 r 1.6 r	-0.2 0.5	2.1 1.9	0.6 0.2	-0.4 r 0.9 r
0015				ndexes 2012=100	4.05.4		
	ANNUAL	100.4 r	102.9 r	102.5	107.1	103.6	106.6 r
2015		100.4 r	103.4 r	103.1 r	107.6 r	103.6 r	107.2 r
	III	100.6 r	103.0 r	102.3	108.1	104.1 r	107.4 r
	II	100.2 r 100.5 r	102.6 r 102.7 r	102.4 r 102.2 r	106.7 r 106.0 r	103.3 r 103.3 r	106.5 r 105.4 r
2014	ANNUAL	100.3 r	102.7 r	102.2 1	105.5	102.3	103.4 r
2014		100.7 r	102.9 r	102.2	106.1 105.5	102.8 r	105.4 r
	III II	102.5 r 102.1 r	102.6 r 102.4 r	100.1 100.3	105.5	101.9 r 101.7 r	102.9 r 102.8 r
	I	101.4 r	102.4 r	100.3	105.5	102.7	102.8 r
2013	ANNUAL	101.7 r	101.9 r	100.2	101.9	100.4	100.2 r
2013	III	101.3 T	104.1 Y 101 0 x	100.8 100.1	102.9 101.8	100.9 100.2	101.6 r 100.0 r
	II	101.8 r 102.3 r	101.9 r 102.0 r	99.7	101.8	100.2	99.7 r
	I	101.4 r	101.6 r	100.2	100.7	99.5	99.3 r

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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 quart		Labor produc- tivity	Output		Hourly compen- sation (1)	sation (2)	labor costs	Unit nonlabor costs (6)	costs (7)	(8)	Implicit price deflator (4)
					rom previo						
2015	ANNUAL	1.2	3.4	2.2	3.0	2.9	1.8	0.5	1.4	-4.1	0.6
2015	IV	-2.0	1.4		-1.3	-1.3 r	0.7	14.7	5.2	-37.2	-1.9
	III	1.0	2.8	1.8	1.2	-0.5 r	0.2	-0.2	0.1	12.9	1.8
	II	-0.9 1.7	0.0 2.9	0.9 1.1	2.9 9.2	0.1 r 12.0 r	3.8 7.4	3.4 -1.3	3.7 4.4	-10.1 -19.1	1.6 0.6
2014	ANNUAL	0.4	3.1	2.7	2.5	0.8	2.2	1.2	1.9	0.8	1.7
2014		2.8 r	6.4	3.5	1.9	2.9 r		-2.3		-4.4	-1.8
2014	III	3.1	6.3	3.1	0.5	-0.5 r		-1.6	-2.2	32.1	2.2
	II	0.7	5.7	5.0	-3.5	-5.6 r		-0.1	-2.8	36.8	1.8
	I	0.5	2.0	1.5	12.2	9.3	11.6	1.1	8.0	-23.7	3.0
2013	ANNUAL	0.5	2.5	2.0	1.4	-0.1	0.9	1.2	1.0	3.3	1.4
2013		-0.7	1.6	2.2	1.5	-0.1	2.1	4.7	3.0	-2.0	2.3
	III	-3.7	-1.1	2.6	-2.0	-4.1	1.7	4.4	2.6	-9.5	0.8
	II	2.0 0.2	3.5 3.4	1.5 3.2	1.5 -1.2	1.9 -2.8		-1.7 3.0	-0.9 0.1	-2.0 23.2	-1.0 3.1
					_		_	revious yea			
	ANNUAL	1.2	3.4	2.2	3.0	2.9	1.8	0.5	1.4	-4.1	0.6
2015		-0.1	1.8	1.8	2.9	2.4 r		4.0	3.3	-15.2	0.5
	III II	1.1	3.0 3.8	1.8	3.7	3.5 3.5	2.6	-0.1 -0.5	1.7 1.1	-5.9	0.5
	I	1.7 2.1	5.3	2.1 3.2	3.6 1.9	2.0	1.9 -0.1	-1.3		-2.1 8.8	0.6 0.7
2014	ANNUAL	0.4	3.1	2.7	2.5	0.8	2.2	1.2	1.9	0.8	1.7
2014	IV	1.8	5.1	3.2	2.6	1.4	0.8	-0.7	0.3	7.2	1.3
	III	0.9	3.9	2.9	2.5	0.6 r	1.6	1.0	1.4	7.8	2.3
	II	-0.8	2.0	2.8	1.9	-0.3 r	2.7	2.5	2.6	-1.9	2.0
	I	-0.5	1.5	2.0	3.2	1.6	3.7	2.1	3.1	-9.8	1.2
	ANNUAL	0.5	2.5	2.0	1.4	-0.1	0.9	1.2	1.0	3.3	1.4
2013		-0.6	1.8	2.4	-0.1	-1.3	0.5	2.6	1.2	1.7	1.3
	III II	1.2	3.4 2.7	2.1 1.9	1.6 1.8	0.0 0.4	$0.4 \\ 1.1$	0.3 0.6	0.3 0.9	3.5 2.7	0.8 1.2
	I	0.5	2.2	1.7	2.3	0.6	1.8	1.5	1.7	5.5	2.2
					Indexes	2012=100					
2015	ANNUAL	102.0	109.3	107.1	107.1	103.6	105.0	103.0	104.3	99.9	103.7
2015	IV	101.7 r	110.0		107.2 r	103.3 r	105.4	105.9	105.6	92.2	103.7
	III		109.6	107.2 r	107.6 r			102.3	104.3	103.6	104.2
	II	102.0 r	108.8	106.7 r	107.3	103.8 r	105.2	102.3	104.2	100.5	103.7
	I	102.2	108.8	106.5 r	106.5	103.8 r	104.2	101.5	103.3	103.2	103.3
2014	ANNUAL	100.8	105.7	104.8	104.0	100.8	103.1	102.5	102.9	104.2	103.1
2014		101.8 r	108.1	106.2 r	104.2 r	100.9 r	102.4	101.8	102.2	108.8	103.1
	III	101.1	106.4	105.3	103.7	100.2 r	102.6	102.4	102.5	110.0	103.6
	II I	100.3 100.1	104.8 103.4	104.5 103.3	103.6 104.5	100.3 r 101.7	103.2 104.3	102.8 102.8	103.1 103.8	102.6 94.9	103.0 102.6
	ANNUAL		102.5	102.0		99.9	100.9	101.2	101.0	103.3	101.4
2013			102.9	102.9	101.5	99 5	101 5	102 6	101.9	101.5	101.8
2013	III			102.9	101.5	99.5	101.5	102.6	101.9	101.5	101.8
	II		102.8		101.7 101.3		100.5		100.5	104.6	101.1
	I	100.6	101.9	101.3	101.3	100.1	100.7	100.7	100.7	105.1	101.3

r=revised

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