



Transmission of material in this release is embargoed until 8:30 a.m. (EDT) Thursday, September 5, 2019

USDL 19-1572

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PRODUCTIVITY AND COSTS

Second Quarter 2019, Revised

Nonfarm business sector labor productivity increased 2.3 percent in the second quarter of 2019, the U.S. Bureau of Labor Statistics reported today, as output increased 1.9 percent and hours worked decreased 0.4 percent. (All quarterly percent changes in this release are seasonally adjusted annual rates.) From the second quarter of 2018 to the second quarter of 2019, productivity increased 1.8 percent, reflecting a 2.6-percent increase in output and a 0.9-percent increase in hours worked. The four-quarter increase in hours is the lowest estimate since the second quarter of 2010 (-0.3 percent). (See chart 1 and table A1.)

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



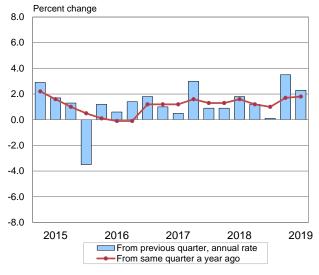
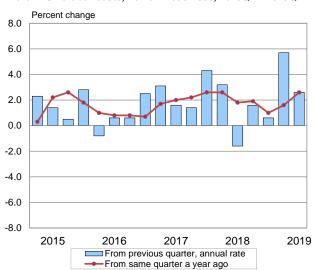


Chart 2. Unit labor costs, nonfarm business, 2015Q1 - 2019Q2



Unit labor costs in the nonfarm business sector increased 2.6 percent in the second quarter of 2019, and increased 2.6 percent over the last four quarters. (See chart 2 and 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 decreased 2.2 percent in the second quarter of 2019, as output decreased 3.0 percent and hours worked declined 0.8 percent. This is the second consecutive quarter with declines in both output and hours in the manufacturing sector; in the first quarter of 2019 output declined 1.8 percent and hours declined 2.9 percent. This is the first occurrence of two consecutive quarters of declines in both output and hours in manufacturing since the second quarter of 2009.

Productivity declined 0.6 percent in the durable manufacturing sector in the second quarter of 2019, reflecting a 1.9-percent decrease in output and a 1.4-percent decrease in hours worked. Productivity decreased 4.4 percent in the nondurable manufacturing sector as output fell 4.2 percent and hours worked rose 0.1 percent. Over the last four quarters, total manufacturing sector productivity was unchanged, as output increased 0.2 percent and hours worked increased 0.1 percent. **Unit labor costs** in the manufacturing sector increased 6.7 percent in the second quarter of 2019, and increased 4.5 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 second-quarter 2019 measures of productivity and costs were announced for the **nonfinancial corporate sector**. Labor productivity increased 2.8 percent in the second quarter of 2019, as output increased 3.1 percent and hours worked increased 0.3 percent. Unit labor costs increased 2.2 percent, as hourly compensation increased 5.1 percent and productivity increased 2.8 percent. Unit profits increased at a 13.2-percent annual rate in the second quarter of 2019. (See tables A2 and 6.)

Revised measures

The measures released today are based on more recent source data than were available for the preliminary report. Table B1 presents previous and revised productivity and related measures for the nonfarm business, business, and manufacturing sectors.

In the **second quarter of 2019**, nonfarm business productivity increased 2.3 percent—the same as the preliminary estimate. Unit labor costs increased 2.6 percent, a slightly larger increase than previously reported. Manufacturing sector productivity was revised down to a decrease of 2.2 percent from a previously-reported decrease of 1.6 percent. Unit labor costs increased 6.7 percent, rather than increasing 5.8 percent as previously reported. Durable manufacturing productivity was revised up to a decline of 0.6 percent, smaller than the previously-reported decline of 0.9 percent; nondurable manufacturing productivity was revised down to a decline of 4.4 percent, from a previously-reported decline of 2.6 percent.

Table B2 shows previous and revised labor productivity and related measures for the nonfarm business, business, manufacturing and nonfinancial corporate sectors for the first quarter of 2019.

In the **first quarter of 2019,** nonfarm business productivity was not revised. Unit labor costs were revised up slightly to an increase of 5.7 percent. Manufacturing sector productivity was revised up slightly to an increase of 1.2 percent. Unit labor costs were revised up slightly to an increase of 6.9 percent.

In the nonfinancial corporate sector, first-quarter 2019 productivity was revised up slightly to an increase of 1.6 percent. Unit profits were revised down slightly to a decline of 33.7 percent. (See tables B2 and 6.)

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

The preliminary Productivity and Costs news release for third-quarter 2019 is scheduled to be released on Wednesday, November 6, 2019 at 8:30 a.m. (EST).

Table A1. Labor productivity growth and related measures - revised second-quarter 2019 (percent change from previous quarter at annual rate and from same quarter a year ago)

Sector	Percent change from:	Labor productivity	Output	Hours worked	Hourly compensation	Real hourly compensation	Unit labor costs
Nonfarm busines	s Previous quarter	2.3	1.9	-0.4	4.9	1.9	2.6
	A year ago	1.8	2.6	0.9	4.4	2.5	2.6
Business	Previous quarter	2.6	2.1	-0.5	5.2	2.2	2.5
	A year ago	1.7	2.7	0.9	4.4	2.5	2.6
Manufacturing	Previous quarter	-2.2	-3.0	-0.8	4.3	1.3	6.7
	A year ago	0.0	0.2	0.1	4.5	2.7	4.5
Durable	Previous quarter	-0.6	-1.9	-1.4	4.6	1.6	5.2
manufacturing	A year ago	8.0	1.4	0.6	4.5	2.6	3.6
Nondurable	Previous quarter	-4.4	-4.2	0.1	3.9	0.9	8.6
manufacturing	A year ago	-0.5	-1.1	-0.6	4.6	2.7	5.1

Table A2. Labor productivity growth and related measures - preliminary second-quarter 2019 (percent change from previous quarter at annual rate and from same quarter a year ago)

Sector	Labor Percent change from: productivity Output			Hours worked	Hourly compensation	Real hourly compensation	Unit labor costs
Nonfinancial	Previous quarter	2.8	3.1	0.3	5.1	2.1	2.2
corporate	A year ago	2.6	3.9	1.2	3.9	2.1	1.3

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

Sector		Labor productivity	Output	Hours worked	Hourly compensation	Real hourly compensation	Unit labor costs
		1	Output				
Nonfarm business	Revised	2.3	1.9	-0.4	4.9	1.9	2.6
	Previously published	2.3	1.9	-0.4	4.8	1.8	2.4
Business	Revised	2.6	2.1	-0.5	5.2	2.2	2.5
	Previously published	2.6	2.1	-0.5	5.0	2.0	2.3
Manufacturing	Revised	-2.2	-3.0	-0.8	4.3	1.3	6.7
G	Previously published	-1.6	-2.1	-0.5	4.1	1.1	5.8
Durable	Revised	-0.6	-1.9	-1.4	4.6	1.6	5.2
manufacturing	Previously published	-0.9	-1.8	-0.9	4.5	1.5	5.5
Nondurable	Revised	-4.4	-4.2	0.1	3.9	0.9	8.6
manufacturing	Previously published	-2.6	-2.4	0.3	3.5	0.5	6.3

Table B2. Labor productivity growth and related measures - revised and previously published first-quarter 2019 (percent change from previous quarter at annual rate)

Sector		Labor productivity	Output	Hours worked	Hourly compensation	Real hourly compensation	Unit labor costs
Nonfarm business	Revised	3.5	3.9	0.4	9.4	8.4	5.7
	Previously published	3.5	3.9	0.4	9.2	8.3	5.5
Business	Revised	3.6	3.9	0.3	9.5	8.5	5.7
	Previously published	3.6	3.9	0.3	9.3	8.4	5.5
Manufacturing	Revised	1.2	-1.8	-2.9	8.2	7.2	6.9
	Previously published	1.1	-1.8	-2.9	8.0	7.1	6.8
Durable	Revised	0.0	-2.8	-2.8	8.6	7.6	8.6
manufacturing	Previously published	0.1	-2.7	-2.8	8.4	7.5	8.4
Nondurable	Revised	2.6	-0.7	-3.2	7.3	6.3	4.6
manufacturing	Previously published	2.4	-0.8	-3.2	7.3	6.3	4.7
Nonfinancial	Revised	1.6	3.6	2.0	9.0	8.1	7.3
corporate	Previously published	1.5	3.5	2.0	8.9	7.9	7.2

TECHNICAL NOTES

Labor Hours

Hours worked data for the labor productivity and cost measures include hours worked for all persons working in the sector—wage and salary workers, the self-employed and unpaid family workers. The primary source of hours and employment data is the BLS Current Employment Statistics (CES) program, which provides monthly survey data on the number of jobs held by wage and salary workers in nonfarm establishments, counting a person who is employed by two or more establishments at each place of employment. The CES also provides average weekly paid hours of production and nonsupervisory workers in these establishments. Weekly paid hours are adjusted to hours worked using data from the National Compensation Survey (NCS) for 1996 forward and data from the BLS Hours at Work survey, conducted for this purpose, prior to 1990. Between 1990 and 1995, weekly paid hours are adjusted to hours at work using a combination of NCS and Hours at Work survey data. The Office of Productivity and Technology estimates average weekly hours at work for nonproduction and supervisory workers using information from the Current Population Survey (CPS), the CES, and the NCS.

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

Output

Business sector output is a chain-type, current-weighted index constructed after excluding from gross domestic product (GDP) the following outputs: general government, nonprofit institutions, and private households (including owner-occupied housing). Corresponding exclusions also are made in labor hours worked. Business output accounted for about 77 percent of the value of GDP in 2018. Nonfarm business, which excludes farming, accounted for about 76 percent of GDP in 2018.

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

Nonfinancial corporate output is a chain-type, current-weighted index calculated on the basis of the costs incurred and the incomes earned from production. The output measure excludes the following outputs from GDP: general government; nonprofit institutions; private households; unincorporated business; and those corporations classified as offices of bank holding companies, offices of other holding companies, or offices in the finance and insurance sector. Nonfinancial corporations accounted for about 55 percent of the value of GDP in 2018.

Labor Productivity

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

Labor Compensation

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

Unit Labor Costs

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

Presentation of the data

The quarterly data in this release are presented in three ways: as percent changes from the previous quarter presented at a compound annual rate, as percent changes from the corresponding quarter of the previous year, and as index number series where 2012=100. Annual data are presented both as index number series and percent changes from the previous year.

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

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

Information in this release will be made available to sensory-impaired individuals upon request. Voice phone: 202-691-5200; Federal Relay Service number: 1-800-877-8339.

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

Year	Labor produc-		Hours	Hourly compen- sation	Real hourly compen- sation	Unit labor	Unit nonlabor payments	Implicit price deflator
quarter	tivity	Output	worked	(1)	(2)	costs	(3)	(4)
		Percent cha	nge from pre	evious quart	er at annua			
2019 II I	2.6 3.6	2.1 3.9	-0.5 0.3	5.2 r 9.5 r	2.2 r 8.5 r	2.5 r 5.7 r	3.5 r -7.2 r	2.9 -0.1
2018 ANNUAL	1.3	3.4	2.0	3.2	0.8	1.9	2.8	2.3
2018 IV	0.0	1.2	1.3	0.5	-1.0	0.5	2.1	1.2
III	0.8	3.4	2.6	2.6	0.6	1.7	1.1	1.5
II	2.4	4.0	1.5	0.7	-1.4	-1.7	10.8	3.6
I	1.3	2.9	1.6	4.7	1.4	3.4	0.1	2.0
2017 ANNUAL	1.3	2.8	1.5	3.5	1.3	2.1	1.2	1.7
2017 IV	0.1	4.1	4.0	4.4	1.2	4.3	0.7	2.7
III	3.4	4.0	0.5	5.0	2.8	1.5	2.9	2.1
II	0.4	2.6	2.2	2.1	1.7	1.7	0.3	1.1
I	0.6	2.6	2.0	3.5	0.7	2.9	0.1	1.7
	Pei	rcent change	e from corre	esponding qu	arter of pr	evious year		
2019 II	1.7 r	2.7	0.9	4.4 r	2.5 r	2.6 r	-0.2 r	1.4
I	1.7	3.1	1.4	3.3 r	1.6	1.5	1.5 r	1.5
2018 ANNUAL	1.3	3.4	2.0	3.2	0.8	1.9	2.8	2.3
2018 IV	1.1	2.9	1.7	2.1	-0.1	1.0	3.5	2.1
III	1.2	3.6	2.4	3.1	0.5	1.9	3.1	2.4
II	1.8	3.7	1.9	3.7	1.0	1.9	3.5	2.6
I	1.3	3.4	2.1	4.0	1.8	2.7	1.0	2.0
2017 ANNUAL	1.3	2.8	1.5	3.5	1.3	2.1	1.2	1.7
2017 IV	1.1	3.3	2.2	3.7	1.6	2.6	1.0	1.9
III	1.7	2.9	1.2	4.0	1.9	2.2	0.9	1.6
II	1.3	2.6	1.3	3.3	1.3	2.0	0.7	1.4
I	1.3	2.5	1.2	3.0	0.4	1.7	2.2	1.9
			Inde	exes 2012=10	00			
2019 II	107.9 r	121.2 r	112.3 r	120.4 r	108.2 r	111.6 r	108.3 r	110.1 r
I	107.2	120.6	112.5	118.9 r	107.6 r	110.9 r	107.3 r	109.4
2018 ANNUAL	106.0	118.3	111.7	115.7	105.6	109.2	108.1	108.7
2018 IV	106.3	119.4	112.4	116.2	105.4	109.4	109.4	109.4
III	106.3	119.0	112.0	116.1	105.7	109.3	108.8	109.1
II	106.0	118.0	111.3	115.4	105.5	108.8	108.5	108.7
I	105.4	116.9	110.9	115.1	105.9	109.2	105.7	107.7
2017 ANNUAL	104.6	114.4	109.4	112.1	104.8	107.2	105.2	106.3
2017 IV	105.1	116.1	110.5	113.8	105.5	108.3	105.7	107.2
III	105.0	114.9	109.4	112.6	105.2	107.2	105.5	106.5
II	104.2	113.8	109.2	111.2	104.5	106.8	104.8	105.9
I	104.0	113.1	108.7	110.7		106.4	104.7	105.6

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

Year and quarter	Labor productivity		Hours worked	Hourly compen- sation (1)	Real hourly compen- sation (2)	Unit labor costs	Unit nonlabor payments (3)	Implicit price deflator (4)
	F	Percent char	nge from pro	evious quart	er at annua	 l rate (5)		
2019 II I	2.3 3.5	1.9 3.9	-0.4 0.4	4.9 r 9.4 r	1.9 r 8.4 r	2.6 r 5.7 r	3.5 r -7.1 r	3.0 r 0.0
2018 ANNUAL	1.3	3.5	2.1	3.1	0.7	1.8	3.0	2.3
2018 IV III II I	0.1 1.2 1.8 0.9	1.2 3.5 4.0 2.9	1.1 2.2 2.1 2.0	0.7 2.9 0.3 4.1	-0.8 0.9 -1.9 0.9	0.6 1.6 -1.6 3.2	1.9 1.9 10.9 0.4	1.2 1.7 3.6 2.0
2017 ANNUAL	1.3	2.9	1.5	3.5	1.3	2.1	1.0	1.6
2017 IV III II I	0.9 3.0 0.5 1.0	4.2 4.2 2.7 2.5	3.3 1.2 2.2 1.5	5.2 4.4 2.1 4.2	2.0 2.2 1.7 1.4	4.3 1.4 1.6 3.1	0.8 3.2 0.4 -1.4	2.7 2.2 1.1 1.2
	Per	cent change	e from corre		arter of pr			
2019 II I	1.8 1.7	2.6 3.2	0.9 r 1.5	4.4 r 3.3 r	2.5 1.6 r	2.6 r 1.6 r		1.5 r 1.6
2018 ANNUAL	1.3	3.5	2.1	3.1	0.7	1.8	3.0	2.3
2018 IV III II	1.0 1.2 1.6 1.3	2.9 3.6 3.8 3.5	1.9 2.4 2.1 2.2	2.0 3.1 3.5 3.9	-0.2 0.5 0.8 1.7	1.0 1.9 1.8 2.6	3.7 3.4 3.7 1.2	2.1 2.5 2.6 2.0
2017 ANNUAL	1.3	2.9	1.5	3.5	1.3	2.1	1.0	1.6
2017 IV III II I	1.3 1.6 1.2	3.4 3.0 2.6 2.4	2.0 1.5 1.4 1.2	4.0 3.8 3.2 2.9	1.8 1.7 1.2 0.4	2.6 2.2 2.0 1.7	0.7 0.7 0.6 2.1	1.8 1.5 1.4 1.9
			Inde	exes 2012=10	00			
2019 II I	107.5 r 106.9	120.9 r 120.4	112.5 r 112.6	120.4 r 119.0 r	108.2 r 107.6 r	112.0 r 111.3 r	109.4 r 108.4 r	110.8 r 110.0
2018 ANNUAL	105.7	118.1	111.8	115.8	105.7	109.5	109.1	109.3
2018 IV III II I	106.0 106.0 105.7 105.2	119.2 118.8 117.8 116.7	112.4 112.1 111.5 110.9	116.4 116.1 115.3 115.2	105.5 105.7 105.5 106.0	109.8 109.6 109.1 109.6	110.4 109.9 109.4 106.6	110.0 109.7 109.3 108.3
2017 ANNUAL	104.4	114.2	109.4	112.3	105.0	107.6	105.9	106.9
2017 IV III II I	104.9 104.7 103.9 103.8	115.8 114.7 113.5 112.7	110.4 109.5 109.2 108.6	114.1 112.7 111.4 110.9	105.7 105.2 104.6 104.2	108.7 107.6 107.2 106.8	106.5 106.3 105.5 105.4	107.8 107.0 106.5 106.2

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

Year and	Labor produc-		Hours	Hourly compensa-	Real hourly compensa-	Unit labor
quarter	tivity	Output 	worked	tion (1)		costs
	Per	cent change from	previous quarte	r at annual rate	(5)	
2019 II	-2.2 r	-3.0 r	-0.8 r	4.3 r	1.3 r	6.7 r
I	1.2 r	-1.8	-2.9	8.2 r	7.2 r	6.9 r
2018 ANNU	JAL 0.7	2.7	1.9	2.2	-0.3	1.4
2018 IV	0.9	1.6	0.7	3.4	1.8	2.5
III	0.4	4.0	3.6	2.4	0.4	2.0
II	1.4	2.7	1.2	-4.6	-6.7	-6.0
I	-0.2	1.9	2.2	4.4	1.2	4.7
2017 ANNU	JAL 1.2	2.2	1.0	3.5	1.3	2.3
2017 IV	3.9	5.7	1.7	5.4	2.2	1.4
III	-4.0	-1.5	2.7	1.9	-0.2	6.2
II	3.8	3.6	-0.2	3.9	3.5	0.1
I	0.9	3.0 	2.1	3.9 	1.1 	3.0
	Perce	nt change from co	rresponding quar	rter of previous	year	
2019 II	0.0 r	0.2 r	0.1 r	4.5	2.7 r	4.5 r
I	1.0 r	1.6	0.6	2.2	0.6 r	1.3 r
2018 ANNU	JAL 0.7	2.7	1.9	2.2	-0.3	1.4
2018 IV	0.6	2.5	1.9	1.3	-0.9	0.7
III	1.4	3.6	2.2	1.8	-0.8	0.5
II	0.2	2.2	1.9	1.7	-0.9	1.5
I	0.8	2.4	1.6	3.9	1.6	3.1
2017 ANNU	JAL 1.2	2.2	1.0	3.5	1.3	2.3
2017 IV	1.1	2.7	1.6	3.8	1.6	2.7
ZUI/ IV III	0.8	1.9	1.2	3.7	1.7	2.9
II	2.1	2.8	0.7	3.7	1.7	1.6
I	0.8	1.5	0.7	3.0	0.4	2.2
			ndexes 2012=100			
0010	101 5	100.0	106.0	116.0	104.0	115 1
2019 II	101.5 r	107.7 r	106.2 r	116.8 r	104.9 r	115.1 r
I	102.0 r	108.6 r	106.4	115.6 r	104.5 r	113.2 r
2018 ANNU	JAL 101.4	108.0	106.5	112.6	102.8	111.0
2018 IV	101.7	109.0	107.2	113.3	102.7	111.4
III	101.5	108.6	107.0	112.4	102.3	110.7
II	101.4	107.5	106.0	111.7	102.2	110.1
I	101.1	106.8	105.7	113.0	103.9	111.8
2017 ANNU	JAL 100.7	105.2	104.5	110.2	103.0	109.5
2017 IV	101.1	106.3	105.1	111.8	103.6	110.6
III	100.2	104.9	104.7	110.4	103.1	110.2
						108.5
						108.5
I I	101.2 100.3	105.3 104.3	104.0 104.0	109.8 108.8	103.1 102.3	

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

Year and		Labor produc-		Hours	Hourly compensa-	Real hourly compensa-	Unit labor
quart			Output		tion (1)		costs
			t change from p		at annual rate		
2019	II	-0.6 r	-1.9 r	-1.4 r	4.6 r	1.6 r	5.2 r
	I	0.0 r	-2.8 r	-2.8	8.6 r	7.6 r	8.6 r
2018	ANNUAL	1.1	3.4	2.3	2.6	0.2	1.5
2018	IV	2.0	4.7	2.7	3.0	1.5	1.0
	III	1.9	5.8	3.8	1.8	-0.2	-0.1
	II	0.3	2.2	1.9	-4.3	-6.3	-4.6
	I	0.4	3.9	3.5	4.2	1.0	3.8
2017	ANNUAL	1.7	2.3	0.6	4.2	2.0	2.5
2017	AMMOAL	1.7	2.3	0.0	4.2	2.0	2.5
2017	IV	4.0	5.3	1.2	7.5	4.3	3.4
	III	-3.5	-1.3	2.3	1.5	-0.7	5.2
	II	5.0	2.8	-2.1	6.9	6.5	1.8
	I	0.9	3.9	2.9	3.4	0.5	2.4
		Percent	change from cor	responding quar	ter of previous	year	
2019	TT	0.8 r	1.4	0.6 r	4.5 r	2.6 r	3.6
2023	I	1.0 r	2.4 r	1.4	2.2 r	0.5	1.1
2018	ANNUAL	1.1	3.4	2.3	2.6	0.2	1.5
2018	T17	1.1	4.1	3.0	1.1	-1.1	0.0
2010	III	1.6	4.3	2.6	2.2	-0.4	0.6
	II	0.3	2.5	2.2	2.1	-0.5	1.9
	I	1.4	2.6	1.2	5.0	2.7	3.6
0017	3 3737773 7						
2017	ANNUAL	1.7	2.3	0.6	4.2	2.0	2.5
2017	IV	1.6	2.6	1.1	4.8	2.6	3.2
	III	1.1	1.9	0.8	4.3	2.3	3.2
	II	2.8	3.0	0.2	4.6	2.6	1.8
	I	1.3	1.8	0.4	3.2	0.6	1.8
			Ir	ndexes 2012=100			
2019	тт	102.6 r	109.3 r	106.5 r	117.8 r	105.8 r	114.9 r
2017	I	102.7 r	109.8 r	106.9	116.5 r	105.4 r	113.4 r
	_						
2018	ANNUAL	102.1	108.7	106.5	113.5	103.6	111.2
2018	IV	102.7	110.6	107.6	114.1	103.5	111.1
	III	102.2	109.3	106.9	113.3	103.1	110.8
	II	101.7	107.7	105.9	112.8	103.1	110.9
	I	101.7	107.2	105.4	114.0	104.8	112.2
2017	ANNUAL	101.0	105.1	104.1	110.7	103.5	109.6
2017	IV	101.6	106.1	104.5	112.8	104.6	111.1
	III	100.6	104.8	104.2	110.8	103.5	110.2
	II	101.5	105.1	103.6	110.4	103.7	108.8
	I	100.2	104.4	104.2	108.6	102.1	108.3

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

Year and quart		_	Output	Hours worked	Hourly compensa- tion (1)		Unit labor costs
					at annual rate		
2019	II	-4.4 r	-4.2 r	0.1 r	3.9 r	0.9 r	8.6 r
	I	2.6 r	-0.7 r	-3.2	7.3	6.3	4.6 r
2018	ANNUAL	0.6	1.9	1.4	1.2	-1.2	0.7
2018	IV	1.0	-1.6	-2.6	3.6	2.1	2.6
	III	-1.2	2.2	3.4	3.5	1.5	4.7
	II	3.0	3.1	0.1	-5.5	-7.5	-8.3
	I	-0.1	-0.1	0.0	4.4	1.1	4.5
2017	ANNUAL	0.2	1.9	1.7	2.3	0.1	2.1
2017	TV	3.4	6.2	2.6	1.4	-1.7	-1.9
	III	-4.8	-1.6	3.3	2.9	0.8	8.1
	II	1.2	4.4	3.2	-1.3	-1.7	-2.5
	I	1.3	2.0	0.6	4.8	1.9	3.4
		Percent		responding quar	ter of previous	year	
2019	II	-0.5 r	-1.1 r	-0.6	4.6 r	2.7 r	5.1 r
	I	1.4 r	0.7	-0.6	2.1	0.5	0.8
2018	ANNUAL	0.6	1.9	1.4	1.2	-1.2	0.7
2018	IV	0.7	0.9	0.2	1.4	-0.8	0.7
	III	1.3	2.8	1.5	0.9	-1.7	-0.4
	II	0.3	1.8	1.5	0.7	-1.9	0.4
	I	-0.1	2.2	2.3	1.8	-0.4	1.9
2017	ANNUAL	0.2	1.9	1.7	2.3	0.1	2.1
2017	IV	0.2	2.7	2.5	1.9	-0.2	1.7
	III	0.1	1.9	1.7	2.5	0.5	2.4
	II	0.9	2.4	1.5	2.1	0.1	1.2
	I	-0.4	0.9	1.3	2.6	0.0	3.0
			Ir	ndexes 2012=100			
2019	TT	101.4 r	107.0 r	105.6 r	114.7 r	103.0 r	113.1 r
2017	I	102.5 r	108.2 r	105.5	113.6 r	102.8 r	110.8 r
2018	ANNUAL	101.6	108.2	106.5	110.8	101.1	109.0
2018	IV	101.9	108.4	106.4	111.6	101.2	109.6
	III	101.6	108.8	107.1	110.6	100.7	108.9
	II	101.9	108.2	106.2	109.7	100.3	107.6
	I	101.1	107.4	106.2	111.2	102.3	110.0
2017	ANNUAL	101.1	106.2	105.0	109.5	102.3	108.3
2017	IV	101.2	107.4	106.2	110.1	102.0	108.8
	III	100.3	105.8	105.5	109.7	102.4	109.3
	II	101.5	106.3	104.6	108.9	102.2	107.2
	I	101.3	105.1	103.8	109.2	102.7	107.9

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

	Labor produc- tivity	Output	worked		compen- sation (2)	Unit labor costs	(6)	costs (7)	Unit profits (8)	Implicit price deflator (4)
				from previo						
2019 II I	2.8 1.6 r	3.1 3.6 r	0.3	5.1 9.0 r	2.1 8.1 r	2.2 7.3 r		1.2 5.3	13.2 -33.7 r	
2018 ANNUA	L -0.2	1.9	2.1	3.2	0.8	3.4	3.0	3.3	-1.1	2.8
2018 IV III	4 6	2.4	1.1 1.7	0.4 1.4	-1.1 -0.6	-1.0 -3.0		0.5 -2.9	0.0 12.7	0.4 -1.2
II	-3.1	-0.4	2.8	-0.6	-2.7	2.5	5.3	3.4	4.8	3.6
I		3.3		9.7		8.2	1.6		0.2	5.3
2017 ANNUA		2.0	1.7	3.3	1.1		2.2	2.7	-2.9	2.0
2017 IV	-0.9	1.7 -2.3	2.7 1.3	2.6	-0.5 0.2 0.1	3.6 6.0	4.3 6.6	3.8	-7.6	2.4
III		-2.3		2.3	0.2	0.0	1.5	6.2	-16.0	3.2
II	0.6	3.4	2.8			-0.1 2.8	1.5			0.7
I	4.8	6.7 	1.8	7.8 	4.8	2.8	-3.7	0.6 	16.4	2.5
		Percent	change fro	om correspo	nding quar	ter of pr	evious yea	ar		
2019 II	2.6	3.9	1.2	3.9	2.1	1.3	0.3	1.0	-4.1	0.4
Z019 11 I	1.1	3.0 r	1.9	2.5 r	0.8	1.4		1.5	-5.9	0.7
2018 ANNUA	L -0.2	1.9	2.1	3.2	0.8	3.4	3.0	3.3	-1.1	2.8
2018 IV	1.0	2.9	1.9	2.6	0.4	1.6	1.9	1.7	4.3	2.0
III	0.5	2.7	2.3	3.2	0.6	2.7	2.1	2.5	2.2	2.5
II	-1.5	0.6	2.2	3.4	0.8	5.1	4.4	4.9	-5.0	3.6
I	-0.6	1.5	2.2	3.7	1.5	4.4	3.5	4.1	-5.4	2.9
2017 ANNUA	L 0.3	2.0	1.7	3.3	1.1	3.0	2.2	2.7	-2.9	2.0
2017 IV	0.2		2.1	3.3	1.1	3.1	2.1			2.2
III	0.3	2.0	1.6	3.4	1.4	3.1	2.5	2.9	-4.0	2.0
II	1.2	3.0	1.7	3.1	1.2	1.9	1.1	1.6	0.6	1.5
I	-0.7	0.6	1.3	3.2	0.6	3.9	3.0	3.6	-6.2	2.3
				Indexes	2012=100					
2019 II	102.8	117.3	114 2	119.7	107 6	116.5	110.8	114.6	84.6	110.3
2019 II I		117.3 116.4 r			107.0 107.0 r		110.8 111.0 r			
1	102.1 1	110.4 1	114.1	110.3 1	107.0 1	115.9 1	111.0 1	114.5 1	02.U I	109.7
2018 ANNUA	L 101.0	114.0	112.9	115.5	105.4	114.3	110.0	112.9	89.3	109.5
2018 IV			113.5	115.7				112.8		109.7
III	101.3	114.7	113.2	115.6	105.2	114.2	109.7	112.7	90.9	109.6
II	100.2		112.8	115.2	105.4	115.0	110.4	113.5	88.2	109.9
I	101.0	113.0	112.0	115.4	106.1	114.3	109.0	112.6	87.2	108.9
2017 ANNUA	L 101.2	111.9	110.5	111.9	104.6	110.6	106.8	109.3	90.3	106.6
2017 IV	100.6	112.1	111.5	112.8	104.5	112.1	108.6	110.9	87.2	107.5
III	100.8		110.7	112.0	104.6	111.1	107.5	109.9	88.9	106.9
II				111.4			105.7			
I		111.3		111.3			105.4		92.1	
	tog followi									

See footnotes following Table 6. r=revised

September 5, 2019

Source: Bureau of Labor Statistics

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

RELIABILITY: Productivity and cost measures are regularly revised as more complete information becomes available. The measures are first published within 40 days of the close of the reference period; revisions appear 30 days later, and second revisions after an additional 60 days. In the business sector, the third publication (second revision) of a quarterly index of output per hour of all persons has differed from the initial value by between -1.5 and 1.4 index points approximately 95 percent of the time. This interval is based on the performance of this measure between the fourth quarter of 1995 and the first quarter of 2019.

Table Footnotes

- (1) Wages and salaries of employees plus employers' contributions for social insurance and private benefit plans. Except for nonfinancial corporations, where there are no self-employed, data also include an estimate of wages, salaries, and supplemental payments for the self-employed.
- (2) The change for recent quarters is based on the Consumer Price Index for all urban consumers (CPI-U). The trend from 1978-2018 is based on the Consumer Price Index research series (CPI-U-RS).
- (3) Unit nonlabor payments include profits, consumption of fixed capital, taxes on production and imports less subsidies, net interest and miscellaneous payments, business current transfer payments, rental income of persons, and the current surplus of government enterprises.
- (4) Current dollar output divided by the output index.
- (5) Quarterly changes: Percent change compounded at annual rate is calculated using index numbers to three decimal places. Indexes published in the news release are rounded to one decimal place for convenience. Annual changes: Percent change is calculated using annual indexes to three decimal places.
- (6) Unit nonlabor costs include consumption of fixed capital, taxes on production and imports less subsidies, net interest and miscellaneous payments, and business current transfer payments.
- (7) Total unit costs are the sum of unit labor and nonlabor costs.
- (8) Unit profits include corporate profits before tax with inventory valuation and capital consumption adjustment.