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PRODUCTIVITY AND COSTS

Third Quarter 2019, Revised

Nonfarm business sector labor productivity decreased 0.2 percent in the third quarter of 2019, the U.S. Bureau of Labor Statistics reported today, as output increased 2.3 percent and hours worked increased 2.5 percent. (All quarterly percent changes in this release are seasonally adjusted annual rates.) From the third quarter of 2018 to the third quarter of 2019, productivity increased 1.5 percent, reflecting a 2.3-percent increase in output and a 0.9-percent increase in hours worked. (See chart 1 and table A1.)

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

Chart 1. Labor productivity, nonfarm business, 2015Q1 - 2019Q3

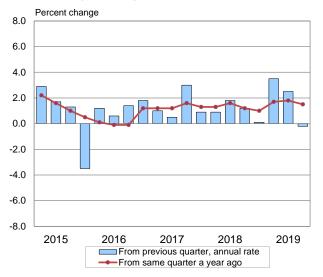
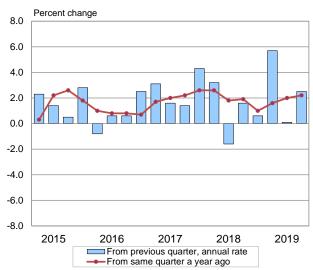


Chart 2. Unit labor costs, nonfarm business, 2015Q1 - 2019Q3



Unit labor costs in the nonfarm business sector increased 2.5 percent in the third quarter of 2019, reflecting a 2.3-percent increase in compensation per hour and a 0.2-percent decline in productivity. Unit labor costs increased 2.2 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 increased 0.1 percent in the third quarter of 2019, as output increased 1.3 percent and hours worked increased 1.2 percent. Total manufacturing sector productivity declined 0.1 percent over the last four quarters, as output decreased 0.5 percent and hours worked decreased 0.4 percent. (See tables A1 and 3.) Productivity increased 0.7 percent in the durable manufacturing sector in the third quarter of 2019, reflecting a 1.8-percent increase in output and a 1.0-percent increase in hours worked. Productivity decreased 0.8 percent in the nondurable manufacturing sector as output increased 0.8 percent and hours worked increased 1.6 percent. (See tables A1, 4, and 5.) Unit labor costs in the total manufacturing sector increased 3.0 percent in the third quarter of 2019, and increased 4.4 percent from the same quarter a year ago.

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 third-quarter 2019 measures of productivity and costs were announced for the **nonfinancial corporate sector**. Productivity increased at a 3.0-percent rate in the third quarter of 2019 and increased 1.7 percent over the last four quarters. Unit labor costs decreased 0.6 percent in the third quarter of 2019 and increased 1.7 percent over the last four quarters. Unit profits—a measure available only for the nonfinancial corporate sector—decreased 0.8 percent in the third quarter of 2019 and decreased 7.3 percent over the last four quarters. (See tables A2 and 6.)

Revised measures

Measures released today are based on more recent source data than were available for the preliminary report. Regular updates of source data from the BLS, the Bureau of Economic Analysis (BEA), and the Board of Governors of the Federal Reserve System are reflected in data for the second and third quarters of 2019.

Table B1 presents revised and previous productivity and related measures for the nonfarm business, business, and manufacturing sectors for the third quarter of 2019. Revised quarterly and annual series for all sectors in recent years appear in tables 1-6.

In the **third quarter of 2019**, nonfarm business labor productivity decreased 0.2 percent rather than the preliminary estimate of a decline of 0.3 percent, as a 0.2-percentage point upward revision to output was greater than a 0.1-percentage point upward revision to hours worked. Unit labor costs were revised down 1.1 percentage points due primarily to a downward revision to hourly compensation. In the manufacturing sector, productivity increased 0.1 percent rather than decreasing 0.1 percent as previously reported, reflecting an upward revision to output and a downward revision to hours worked. Durable manufacturing productivity increased 0.7 percent rather than increasing 1.2 percent as previously reported, reflecting a 0.6-percentage point downward revision to output and a 0.2-percentage point downward revision to hours worked. Nondurable manufacturing productivity was revised up to a decline of 0.8 percent rather than a decline of 1.5 percent as previously reported, primarily due to a 1.0-percentage point upward revision to output. Total manufacturing unit labor costs were revised down 0.6 percentage point to an increase of 3.0 percent—the combined effect of the upward revision to productivity and a downward revision to hourly compensation.

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

In the **second quarter of 2019**, labor productivity, output, and hours worked were unrevised for the nonfarm business sector. Unit labor costs increased 0.1 percent, rather than increasing 2.4 percent as previously reported, due to a downward revision to hourly compensation. Productivity was revised down 0.1 percentage point in the manufacturing sector, due to a similar downward revision to output. Unit labor costs were revised down 1.7 percentage points in the manufacturing sector, primarily due to a 1.8-percentage point downward revision to hourly compensation. In the nonfinancial corporate sector, productivity increased 0.8 percent rather than 2.5 percent as previously reported, due solely to a downward revision to output; hours were unrevised. Because hourly compensation was revised down by more than productivity, unit labor costs increased 1.4 percent rather than increasing 2.5 percent as previously reported.

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 fourth-quarter and annual averages 2019 is scheduled to be released on Thursday, February 6, 2020 at 8:30 a.m. (EST).

Calendar year 2020 release dates for Productivity and Costs news releases are now available at www.bls.gov/schedule/news_release/prod2.htm.

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

Sector Percent change from:		Labor productivity	Output	Hours worked	Hourly compensation	Real hourly compensation	Unit labor costs
Nonfarm business	s Previous quarter	-0.2	2.3	2.5	2.3	0.5	2.5
	A year ago	1.5	2.3	0.9	3.7	1.9	2.2
Business	Previous quarter	-0.2	2.4	2.6	2.3	0.5	2.5
	A year ago	1.5	2.4	0.9	3.7	1.9	2.2
Manufacturing	Previous quarter	0.1	1.3	1.2	3.1	1.3	3.0
	A year ago	-0.1	-0.5	-0.4	4.3	2.5	4.4
Durable	Previous quarter	0.7	1.8	1.0	2.6	0.8	1.8
manufacturing	A year ago	0.4	0.3	-0.1	4.0	2.2	3.6
Nondurable	Previous quarter	-0.8	0.8	1.6	4.2	2.4	5.0
manufacturing	A year ago	-0.4	-1.4	-1.0	4.8	3.0	5.2

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

		Labor		Hours	Hourly	Real hourly	Unit labor
Sector	Percent change from:	productivity	Output	worked	compensation	compensation	costs
Nonfinancial	Previous quarter	3.0	3.6	0.6	2.4	0.6	-0.6
corporate	A year ago	1.7	2.7	1.0	3.5	1.7	1.7

Table B1. Labor productivity growth and related measures - revised and previously published third-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	-0.2	2.3	2.5	2.3	0.5	2.5
	Previously published	-0.3	2.1	2.4	3.3	1.4	3.6
Business	Revised	-0.2	2.4	2.6	2.3	0.5	2.5
	Previously published	-0.3	2.2	2.5	3.3	1.5	3.6
Manufacturing	Revised	0.1	1.3	1.2	3.1	1.3	3.0
	Previously published	-0.1	1.1	1.3	3.5	1.7	3.6
Durable	Revised	0.7	1.8	1.0	2.6	0.8	1.8
manufacturing	Previously published	1.2	2.4	1.2	3.1	1.3	1.9
Nondurable	Revised	-0.8	0.8	1.6	4.2	2.4	5.0
manufacturing	Previously published	-1.5	-0.2	1.3	4.3	2.4	5.8

Table B2. 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
Nonfarm business	Revised	2.5	1.9	-0.5	2.5	-0.4	0.1
	Previously published	2.5	1.9	-0.5	5.0	2.0	2.4
Business	Revised	2.8	2.0	-0.7	2.8	-0.1	0.1
	Previously published	2.8	2.0	-0.7	5.2	2.3	2.4
Manufacturing	Revised	-2.5	-3.1	-0.7	2.6	-0.3	5.2
3	Previously published	-2.4	-3.0	-0.7	4.4	1.4	6.9
Durable	Revised	-1.1	-2.3	-1.2	1.9	-1.0	3.1
manufacturing	Previously published	-0.8	-2.0	-1.2	4.7	1.7	5.6
Nondurable	Revised	-4.2	-4.0	0.2	4.1	1.1	8.6
manufacturing	Previously published	-4.3	-4.1	0.2	3.9	0.9	8.5
Nonfinancial	Revised	0.8	1.1	0.3	2.3	-0.6	1.4
corporate	Previously published	2.5	2.8	0.3	5.1	2.1	2.5

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 77 percent of the value of GDP in 2018. Nonfarm business, which excludes farming, accounted for about 76 percent of GDP in 2018.

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

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

Labor Productivity

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

Labor Compensation

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

Unit Labor Costs

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

Presentation of the data

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

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

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

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

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

Year and		Labor produc-		Hours	Hourly compen- sation		Unit labor	payments	
quart			Output			(2)	costs	(3)	(4)
		P	ercent chan	ge from pre	evious quart	er at annua	l rate (5)		
2019		-0.2 r	2.4 r	2.6 r	2.3 r	0.5 r		-0.6 r	1.2
	II I	2.8 3.6	2.0 3.9	-0.7 0.3	2.8 r 9.5	-0.1 r 8.5	0.1 r 5.7	7.0 r -7.2	3.0 -0.1
	_	3.0	3.9	0.5	J.3	0.5	3.7	7.2	0.1
2018	ANNUAL	1.3	3.4	2.0	3.2	0.8	1.9	2.8	2.3
2018		0.0	1.2	1.3		-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 I	2.4 1.3	4.0 2.9	1.5 1.6	0.7 4.7	$\begin{array}{c} -1.4 \\ 1.4 \end{array}$	-1.7 3.4	10.8 0.1	3.6 2.0
	_	1.3	2.9	1.0	4. /	1.1	3.1	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 I	0.4 0.6	2.6	2.2	2.1	1.7	1.7	0.3 0.1	1.1 1.7
			2.6 	2.0	3.5	0.7	2.9 		1./
		Per	cent change	from corre	esponding qu	arter of pr	evious year		
2019	III	1.5	2.4 r	0.9 r	3.7 r	1.9 r	2.2 r	0.2 r	1.3
	II	1.8	2.7	0.9	3.8 r	1.9 r	2.0 r	0.6 r	1.4
	I	1.7	3.1	1.4	3.3	1.6	1.5	1.5	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	0			
2019	III	107.9 r	121.9 r	113.0 r	120.4 r	107.7 r	111.6 r	109.0 r	110.5 r
					119.7 r				110.2
	I	107.2	120.6	112.5	118.9	107.6	110.9	107.3	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	110 0	112.0	116.1 115.4	105.7	109.3	108.8	109.1
	II	106.0	119.0	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
	IV III	105.0	116.1 114.9	109.4	112.6	105.2	107.2	105.5	106.5
	II	104.2	113.8 113.1	109.2	111.2	104.5	106.8	104.8	105.9
	I	104.0	113.1	108.7	110.7	104.0	106.4	104.7	105.6
		s following						Decembe	

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

Year and quarter	Labor produc- tivity	Output	Hours worked	Hourly compen- sation (1)	Real hourly compen- sation (2)	labor costs	Unit nonlabor payments (3)	Implicit price deflator (4)
					er at annua			
2019 III II I	-0.2 r 2.5 3.5	2.3 r 1.9 3.9	2.5 r -0.5 0.4	2.3 r 2.5 r 9.4	0.5 r -0.4 r 8.4	2.5 r 0.1 r 5.7	-0.7 r 7.2 r -7.1	1.1 3.1 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
	Pe	rcent change			arter of pr	evious year	;	
2019 III II I	1.5 r 1.8 1.7	2.3 2.6 3.2	0.9 0.8 1.5	3.7 r 3.8 r 3.3	1.9 r 2.0 r 1.6	2.2 r 2.0 r 1.6	0.2 r 0.8 r 1.7	1.3 1.5 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 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 III II I	107.5 r 107.6 106.9	121.6 r 120.9 120.4	113.1 r 112.4 112.6	120.4 r 119.7 r 119.0	107.7 r 107.5 r 107.6	112.0 r 111.3 r 111.3	110.1 r 110.3 r 108.4	111.2 110.9 110.0
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
See footnot	es following	r Table 6					Decembe	r 10 2019

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

	Output	Hours worked	Hourly compensa-	hourly compensa-	Unit
tivity		Hours worked	compensa-	compensa-	
			tion (1)	tion (2)	labor costs
Percen	t change from p		at annual rate		
0.1 r	1.3 r	1.2 r	3.1 r	1.3 r	3.0 r
-2.5 r	-3.1 r	-0.7	2.6 r	-0.3 r	5.2 r
1.2	-1.7	-2.9	8.2	7.2	6.9
0.7	2.7	1.9	2.2	-0.3	1.4
0.9	1.6	0.7	3.4	1.8	2.5
0.4	4.0	3.6	2.4	0.4	2.0
1.4	2.7	1.2	-4.6	-6.7	-6.0
-0.2	1.9	2.2	4.4	1.2	4.7
1.2	2.2	1.0	3.5	1.3	2.3
1.2	2.2	1.0		1.3	2.3
3.9	5.7	1.7	5.4	2.2	1.4
-4.0	-1.5	2.7	1.9	-0.2	6.2
3.8	3.6	-0.2	3.9	3.5	0.1
0.9	3.0	2.1	3.9	1.1	3.0
Percent	change from cor	responding quar	ter of previous	year	
-0.1	-0.5	-0.4	4.3 r	2.5 r	4.4 r
0.0	0.1 r	0.2	4.1 r	2.2 r	4.1 r
1.0	1.6	0.6	2.2	0.6	1.3
0.7	2.7	1.9	2.2	-0.3	1.4
0.6	2.5	1.9	1.3	-0.9	0.7
1.4	3.6	2.2	1.8	-0.8	0.5
0.2	2.2	1.9	1.7	-0.9	1.5
0.8	2.4	1.6	3.9	1.6	3.1
1.2	2.2	1.0	3.5	1.3	2.3
1.1	2.7	1.6	3.8	1.6	2.7
0.8	1.9	1.2	3.7	1.7	2.9
2.1	2.8	0.7	3.7	1.7	1.6
0.8	1.5	0.7	3.0	0.4	2.2
	In	ndexes 2012=100			
101.4 r	108.0 r	106.5 r	117.2 r	104.8 r	115.5 r
101.4 r	107.7 r	106.2	116.3 r	104.5 r	114.7 r
102.0	108.6	106.4	115.6	104.5	113.2
101.4	108.0	106.5	112.6	102.8	111.0
101.7	109.0	107.2	113.3	102.7	111.4
101.5	108.6	107.0	112.4	102.3	110.7
101.4	107.5	106.0	111.7	102.2	110.1
101.1	106.8	105.7	113.0	103.9	111.8
100.7	105.2	104.5	110.2	103.0	109.5
101.1	106.3	105.1	111.8	103.6	110.6
100.2	104.9	104.7	110.4	103.1	110.2
101.2	105.3	104.0	109.8	103.1	108.5
100.3	104.3	104.0	108.8	102.3	108.5
1 1 1 1 1 1	01.7 01.5 01.4 01.1 00.7 01.1 00.2 01.2 00.3	01.7 109.0 01.5 108.6 01.4 107.5 01.1 106.8 00.7 105.2 01.1 106.3 00.2 104.9 01.2 105.3 00.3 104.3	01.7 109.0 107.2 01.5 108.6 107.0 01.4 107.5 106.0 01.1 106.8 105.7 00.7 105.2 104.5 01.1 106.3 105.1 00.2 104.9 104.7 01.2 105.3 104.0 00.3 104.3 104.0	01.7 109.0 107.2 113.3 01.5 108.6 107.0 112.4 01.4 107.5 106.0 111.7 01.1 106.8 105.7 113.0 00.7 105.2 104.5 110.2 01.1 106.3 105.1 111.8 00.2 104.9 104.7 110.4 01.2 105.3 104.0 109.8 00.3 104.3 104.0 108.8	01.7 109.0 107.2 113.3 102.7 01.5 108.6 107.0 112.4 102.3 01.4 107.5 106.0 111.7 102.2 01.1 106.8 105.7 113.0 103.9 00.7 105.2 104.5 110.2 103.0 01.1 106.3 105.1 111.8 103.6 00.2 104.9 104.7 110.4 103.1 01.2 105.3 104.0 109.8 103.1 00.3 104.3 104.0 108.8 102.3

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

Real

		_ ,				Real	
Year		Labor			Hourly	hourly	Unit
and		produc-		Hours	compensa-	compensa-	labor
quar	ter	tivity	Output	worked	compensa- tion (1)	tion (2)	costs
		Percen	t change from p	revious quarter	at annual rate	(5)	
2019	ттт	0.7 r	1.8 r	1.0 r	2.6 r	0.8 r	1.8 r
2017	II		-2.3 r			-1.0 r	3.1 r
	I	0.1	-2.7	-2.8	8.6	7.6	8.5
	_	0.1	2.7	2.0	0.0	7.0	0.5
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	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		3.9	2.9	3.4	0.5	2.4
		Percent	change from cor	responding quar	ter of previous	year	
2019	III	0.4 r	0.3 r	-0.1 r	4.0 r	2.2 r	3.6 r
	II	0.7 r	1.3 r	0.6	3.8 r	1.9 r	3.1 r
	I	1.1	2.5	1.4	2.2	0.5	1.1
2018	ANNUAL	1.1	3.4	2.3	2.6	0.2	1.5
2018	IV	1.1	4.1	3.0	1.1	-1.1	0.0
	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
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
			In	dexes 2012=100			
2019	III	102.6 r	109.6 r	106.8 r	117.8 r	105.3 r	114.8 r
	II	102.4 r	109.2 r	106.6	117.0 r	105.1 r	114.3 r
	I	102.7	109.8	106.9	116.5	105.4	113.4
2018	ANNUAL	102.1	108.7	106.5	113.5	103.6	111.2
2018		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
		40-	a.c			40	
2017	ANNUAL	101.0	105.1	104.1	110.7	103.5	109.6
0015		101 6	106.1	104 5	110.0	104 5	
2017		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
See :	footnotes	following Tabl	e 6.			Decembe	er 10, 2019

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

Year and quarter		Output		Hourly compensa- tion (1)		Unit labor costs
				at annual rate		
2019 III	-0.8 r	0.8 r	1.6 r	4.2 r	2.4	5.0 r
II	-4.2 r	-4.0 r	0.2	4.1 r	1.1 r	8.6 r
I	2.5	-0.7	-3.2	7.3	6.3	4.6
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 IV	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
				cter of previous		
2019 III	-0.4 r	-1.4 r	-1.0 r	4.8	3.0 r	5.2 r
II	-0.5	-1.1	-0.6	4.6	2.7	5.1
I	1.3	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 III	101.2 r	107.3 r		115.9 r		114.5 r
II	101.4 r	107.1 r	105.6	114.7 r	103.1 r	113.2 r
I	102.5	108.2	105.5	113.6	102.8	110.8
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
	following Tabl					 r 10 20

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

Year and quarter	Labor produc- tivity	Output	Hours worked	Hourly compen- sation (1)	sation (2)	labor costs	Unit nonlabor costs (6)	costs (7)	Unit profits (8)	Implicit price deflator (4)
				rom previc			l rate (5)			
2019 III II I	3.0 0.8 r 1.6	3.6 1.1 r 3.6	0.6 0.3 2.0	2.4 2.3 r 9.0	0.6 -0.6 r 8.1	-0.6 1.4 r 7.3	3.9 1.2 r 1.1	0.9 1.3 r 5.3	-0.8 12.0 r -33.7	0.7 2.4 -0.1
2018 ANNUAL	-0.2	1.9	2.1	3.2	0.8	3.4	3.0	3.3	-1.1	2.8
2018 IV III II I	1.4 4.6 -3.1 1.4	2.4 6.3 -0.4 3.3	1.1 1.7 2.8 1.9	0.4 1.4 -0.6 9.7	-1.1 -0.6 -2.7 6.3	-1.0 -3.0 2.5 8.2	3.5 -2.5 5.3 1.6	0.5 -2.9 3.4 6.0	0.0 12.7 4.8 0.2	0.4 -1.2 3.6 5.3
2017 ANNUAL	0.3	2.0	1.7	3.3	1.1	3.0	2.2	2.7	-2.9	2.0
2017 IV III II I	-0.9 -3.5 0.6 4.8	1.7 -2.3 3.4 6.7	2.7 1.3 2.8 1.8	2.6 2.3 0.5 7.8	-0.5 0.2 0.1 4.8	3.6 6.0 -0.1 2.8	4.3 6.6 1.5 -3.7	3.8 6.2 0.4 0.6	-7.6 -16.0 3.2 16.4	2.4 3.2 0.7 2.5
		Percent	change fro	om correspo	nding quar	rter of pr	evious yea	ır		
2019 III II I	1.7 2.1 r 1.1	2.7 3.4 r 3.0	1.0 1.2 1.9	3.5 3.2 r 2.5	1.7 1.4 r 0.8	1.7 1.1 r 1.4	2.4 0.8 r 1.8	2.0 1.0 r 1.5	-7.3 -4.4 r -5.9	0.9 0.4 0.7
2018 ANNUAL	-0.2	1.9	2.1	3.2	0.8	3.4	3.0	3.3	-1.1	2.8
2018 IV III II I	1.0 0.5 -1.5 -0.6	2.9 2.7 0.6 1.5	1.9 2.3 2.2 2.2	2.6 3.2 3.4 3.7	0.4 0.6 0.8 1.5	1.6 2.7 5.1 4.4	1.9 2.1 4.4 3.5	1.7 2.5 4.9 4.1	4.3 2.2 -5.0 -5.4	2.0 2.5 3.6 2.9
2017 ANNUAL	0.3	2.0	1.7	3.3	1.1	3.0	2.2	2.7	-2.9	2.0
2017 IV III II I	0.2 0.3 1.2 -0.7	2.3 2.0 3.0 0.6	2.1 1.6 1.7 1.3	3.3 3.4 3.1 3.2	1.1 1.4 1.2 0.6	3.1 3.1 1.9 3.9	2.1 2.5 1.1 3.0	2.7 2.9 1.6 3.6	-1.8 -4.0 0.6 -6.2	2.2 2.0 1.5 2.3
				Indexes	2012=100					
2019 III II I	103.0 102.3 r 102.1	117.8 116.7 r 116.4	114.3 114.2 114.1	119.6 118.9 r 118.3	107.0 106.8 r 107.0	116.1 116.3 r 115.9	112.4 111.3 r 111.0	114.9 114.7 r 114.3	84.2 84.4 r 82.0	110.5 110.3 109.7
2018 ANNUAL	101.0	114.0	112.9	115.5	105.4	114.3	110.0	112.9	89.3	109.5
2018 IV III II I	101.6 101.3 100.2 101.0	115.4 114.7 112.9 113.0	113.5 113.2 112.8 112.0	115.7 115.6 115.2 115.4	104.9 105.2 105.4 106.1	113.9 114.2 115.0 114.3	109.7	112.8 112.7 113.5 112.6	90.9 90.9 88.2 87.2	109.7 109.6 109.9 108.9
2017 ANNUAL	101.2	111.9	110.5	111.9	104.6	110.6	106.8	109.3	90.3	106.6
2017 IV III II I		111.6 112.3 111.3		112.8 112.0 111.4 111.3	104.6	109.5	107.5 105.7	110.9 109.9 108.2 108.1	87.2 88.9 92.9 92.1	105.9
See footnot	es followi	ng Table 6							December	10, 2019

See footnotes following Table 6. r=revised

December 10, 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 second 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.