Transmission of material in this release is embargoed until 8:30 a.m. (ET) Thursday, August 1, 2024

USDL 24-1570

Technical information: (202) 691-5606 • Productivity@bls.gov • www.bls.gov/productivity

Media contact: (202) 691-5902 • PressOffice@bls.gov

PRODUCTIVITY AND COSTS

Second Quarter 2024, Preliminary

Nonfarm business sector labor productivity increased 2.3 percent in the second quarter of 2024, the U.S. Bureau of Labor Statistics reported today, as output increased 3.3 percent and hours worked increased 1.0 percent. (All quarterly percent changes in this release are seasonally adjusted annualized rates.) From the same quarter a year ago, nonfarm business sector labor productivity increased 2.7 percent. (See chart 1 and table A1.)

Chart 1. Labor productivity, nonfarm business, 2020Q1 - 2024Q2

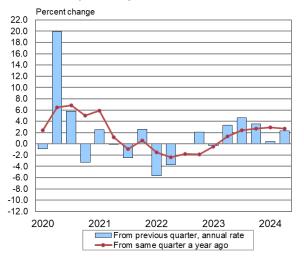
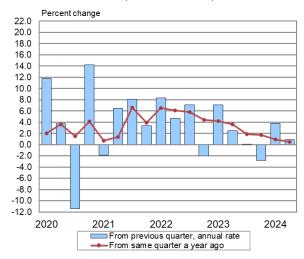


Chart 2. Unit labor costs, nonfarm business, 2020Q1 - 2024Q2



Unit labor costs in the nonfarm business sector increased 0.9 percent in the second quarter of 2024, reflecting a 3.3-percent increase in hourly compensation and a 2.3-percent increase in productivity. Unit labor costs increased 0.5 percent over the last four quarters, the lowest rate since the third quarter of 2019, when the measure also increased 0.5 percent. (See chart 2 and tables A1 and 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 productivity tend to reduce them. Real hourly compensation, which takes into account consumer prices, increased 0.4 percent in the second quarter of 2024 but was unchanged over the last four quarters.

Labor productivity, or output per hour, is calculated by dividing an index of real output by an index of hours worked by all workers, including employees, proprietors, and unpaid family workers. During the current business cycle, starting in the fourth quarter of 2019, labor productivity has grown at an annualized rate of 1.6 percent, reflecting a 2.2-percent rate of growth in output and a 0.7-percent rate of growth in hours worked. (See chart 3.) The 1.6-percent annualized rate of productivity growth in the current business cycle thus far is slightly above the 1.5 percent rate of the previous business cycle from

the fourth quarter of 2007 through the fourth quarter of 2019, and is below the long-term rate of 2.1 percent since the first quarter of 1947.

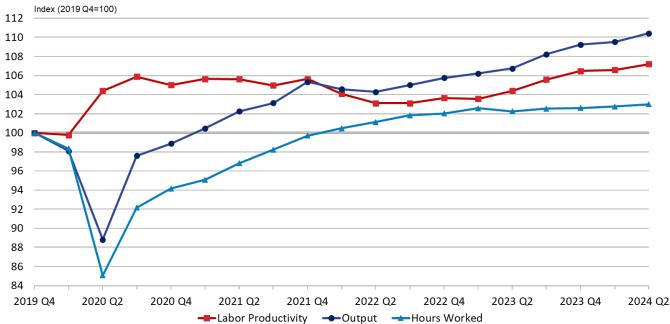


Chart 3. Labor Productivity, Output, and Hours Worked index series, nonfarm business, 2019 Q4 - 2024 Q2

Manufacturing sector labor productivity increased 1.8 percent in the second quarter of 2024, as output increased 3.4 percent and hours worked increased 1.6 percent. In the durable manufacturing sector, productivity increased 0.4 percent, reflecting a 2.3-percent increase in output and a 1.9-percent increase in hours worked. Nondurable manufacturing sector productivity increased 3.5 percent as output increased 4.6 percent and hours worked increased 1.1 percent. Total manufacturing sector productivity increased 0.4 percent from the same quarter a year ago. (See tables A1, 3, 4, and 5.)

Unit labor costs in the total manufacturing sector increased 3.2 percent in the second quarter of 2024, reflecting a 5.1-percent increase in hourly compensation and a 1.8-percent increase in productivity. Manufacturing unit labor costs increased 4.3 percent from the same quarter a year ago, reflecting an increase of 4.7 percent in hourly compensation and an increase of 0.4 percent in labor productivity. Real hourly compensation increased 1.5 percent from the same quarter a year ago. (See tables A1 and 3.)

Index (2019 Q4=100) 106 104 102 100 98 96 94 92 90 86 84 2020 Q4 2022 Q2 2019 Q4 2020 Q2 2021 02 2021 Q4 2022 Q4 2023 02 2023 O4 2024 02 Labor Productivity →Output → Hours Worked

Chart 4. Labor Productivity, Output, and Hours Worked index series, manufacturing, 2019 Q4 - 2024 Q2

Manufacturing sector labor productivity has grown at an annualized rate of 0.3 percent during the current business cycle, as output has grown 0.2 percent and hours have declined 0.1 percent. (See chart 4.) The 0.3-percent annualized rate of productivity growth in the current business cycle thus far is above the 0.0-percent rate of the previous business cycle from the fourth quarter of 2007 through the fourth quarter of 2019, and is below the long-term rate of 2.1 percent since the first quarter of 1987.

The concepts, sources, and methods used for the manufacturing output series differ from those used in the business and nonfarm business output series; these output measures are not directly comparable. See the Technical Notes for a more detailed explanation. (See page 6.)

Revised measures

Regular updates of source data published in June and July by the BLS and the Bureau of Economic Analysis (BEA) are reflected in revised data for the first quarter of 2024; labor data scheduled to be published by BLS August 2, 2024, have not yet been incorporated. Measures of output for the manufacturing sectors incorporate the 2024 Annual Revision of the Index of Industrial Production (IIP) by the Board of Governors of the Federal Reserve System released June 28, as well as the regular update of the IIP released July 17. Manufacturing output and related measures were subject to revision back to the beginning of the series in 1987.

Table B1 presents revised and previously published labor productivity and related measures for the nonfarm business, business, and manufacturing sectors for the first quarter of 2024. Table A2 presents these measures for the nonfinancial corporate sector.

Nonfarm business sector productivity was revised up 0.2 percentage point to an increase of 0.4 percent in the **first quarter of 2024**; output was revised up 0.1 percentage point to an increase of 1.0 percent and hours worked were not revised. (See table B1.) The upward revision to productivity translated to a 0.2-percentage point downward revision to first-quarter unit labor costs, to a rate of 3.8 percent; hourly compensation was not revised.

Manufacturing sector productivity was revised down 1.1 percentage points to a decline of 1.1 percent in the first quarter of 2024, reflecting a 1.1 percentage point downward revision to output; hours worked were not revised. Productivity was revised down in both the durable and nondurable manufacturing subsectors. In the first quarter of 2024, total manufacturing unit labor costs were revised up 1.2 percentage points to an increase of 4.3 percent, primarily reflecting the 1.1-percentage point downward revision to productivity; hourly compensation was revised up 0.1 percentage point. (See tables B1 and 3.)

Nonfinancial corporate sector productivity was revised up slightly, to an increase of 1.9 percent in the **first quarter of 2024**. Unit labor costs in the nonfinancial corporate sector were revised down 0.1 percentage point to an increase of 2.5 percent. (See table A2 and 6.)

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

The revised Productivity and Costs news release for second-quarter 2024 is scheduled to be released on Thursday, September 5, 2024, at 8:30 a.m. (ET).

Table A1. Labor productivity growth and related measures - preliminary second-quarter 2024 (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	3.3	1.0	3.3	0.4	0.9
	A year ago	2.7	3.4	0.7	3.2	0.0	0.5
Business	Previous quarter	2.1	3.2	1.1	3.2	0.3	1.1
	A year ago	2.6	3.4	0.7	3.2	0.0	0.5
Manufacturing	Previous quarter	1.8	3.4	1.6	5.1	2.2	3.2
	A year ago	0.4	0.1	-0.3	4.7	1.5	4.3
Durable	Previous quarter	0.4	2.3	1.9	4.3	1.4	3.9
manufacturing	A year ago	-0.7	-0.3	0.4	4.9	1.6	5.6
Nondurable	Previous quarter	3.5	4.6	1.1	6.6	3.7	3.0
manufacturing	A year ago	2.0	0.5	-1.5	4.2	1.0	2.1

Table A2. Labor productivity growth and related measures - revised and previously published first-quarter 2024
(percent change from previous quarter at annual rate)

		Labor		Hours	Hourly	Real hourly	Unit labor
Sector		productivity	Output	worked	compensation	compensation	costs
Nonfinancial	Revised	1.9	2.5	0.6	4.4	0.6	2.5
corporate	Previously published	1.8	2.5	0.7	4.4	0.6	2.6

Table B1. Labor productivity growth and related measures - revised and previously published first-quarter 2024
(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	0.4	1.0	0.6	4.2	0.4	3.8
	Previously published	0.2	0.9	0.6	4.2	0.4	4.0
Business	Revised	0.5	1.1	0.5	4.3	0.5	3.7
	Previously published	0.3	0.9	0.6	4.3	0.5	4.0
Manufacturing	Revised	-1.1	-1.3	-0.2	3.2	-0.6	4.3
	Previously published	0.0	-0.2	-0.2	3.1	-0.6	3.1
Durable	Revised	0.5	-0.3	-0.8	5.1	1.2	4.5
manufacturing	Previously published	1.0	0.1	-0.9	5.1	1.3	4.1
Nondurable	Revised	-3.2	-2.3	1.0	-0.3	-4.0	3.0
manufacturing	Previously published	-1.4	-0.5	0.9	-0.5	-4.1	0.9

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 and hours paid to wage and salary workers in nonfarm establishments, counting a person who is employed by two or more establishments at each place of employment. As of the February 3, 2023 Employment Situation release, the CES program has updated the national nonfarm payroll series to the 2022 North American Industry Classification System (NAICS). The BLS Major Sector Productivity program will be remaining on a NAICS 2017 basis for the time being by converting NAICS 2022 data from CES back to a NAICS 2017 basis using ratios published on the CES website and based on the Quarterly Census of Employment and Wages (QCEW). Hours of paid time off are removed from hours paid 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, hours of paid time off are removed using a combination of NCS and Hours at Work survey data. Off-the-clock hours are added, yielding hours worked, using data from the Current Population Survey (CPS).

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 (www.bls.gov/productivity/tables/total-economy-hours-employment.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 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 2023. Nonfarm business, which excludes farming, accounted for about 76 percent of GDP in 2023.

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 intrasectoral 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; 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 51 percent of the value of GDP in 2023.

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 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 2017=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 productivity web site, https://www.bls.gov/productivity/data.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 methods see the Handbook of Methods at www.bls.gov/opub/hom/msp/home.htm.

If you are deaf, hard of hearing, or have a speech disability, please dial 7-1-1 to access telecommunications relay services.

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

beabo		. ,							Value-
Year and quart		Labor produc- tivity		Hours worked	Hourly compen- sation (1)	Real hourly compen- sation (2)	labor costs	Unit nonlabor payments (3)	added output
						er at annua			
2024	II I	2.1 0.5 r	3.2 1.1 r	1.1 0.5 r	3.2 4.3	0.3 0.5	1.1 3.7 r	2.7 1.5 r	1.8 2.7 r
2023	ANNUAL	1.4	2.6	1.2	4.2	0.1	2.7	3.8	3.2
2023	IV III	3.6 4.4	3.7 5.6	0.1 1.1	0.8 4.6	-1.8 1.1	-2.7 0.2	5.5 6.3	0.9 2.8
	II	3.1	2.0	-1.0	5.5	2.4	2.4	-0.6	1.1
	I								
	1	-0.1	2.1	2.2	6.7	2.8	6.9	-0.9	3.3
2022	ANNUAL	-1.9	1.9	3.9	3.8	-4.0	5.8	10.4	7.8
2022	IV	2.5	2.9	0.4	0.4	-3.5	-2.0	10.9	3.5
	III	0.0	2.7	2.7	7.1	1.7	7.0	0.3	4.0
	II	-3.6	-1.3	2.4	1.2	-8.1	5.0	17.8	10.5
	I	-6.2	-3.0	3.4	1.8	-6.9	8.5	11.0	9.6
	<u>-</u> 								
		Per	cent change	from corre	sponding qu	arter of pr	evious year		
2024	TT	2.6	3.4	0.7	3.2	0.0	0.5	4.0	2.1
	 I	2.9 r	3.1 r		3.8	0.5	0.9	3.1 r	1.9
	_		J	· · -	3.3			0.1 -	
2023	ANNUAL	1.4	2.6	1.2	4.2	0.1	2.7	3.8	3.2
2023	IV	2.7	3.3	0.6	4.4	1.1	1.6	2.5	2.0
	III	2.4	3.1	0.7	4.3	0.7	1.8	3.8	2.7
	II	1.3	2.4	1.1	4.9	0.8	3.5	2.3	3.0
	I	-0.3	1.6	1.9	3.8	-1.9	4.1	6.8	5.3
	-	0.5	1.0	1.5	3.0	1.5	7.1	0.0	3.3
2022	ANNUAL	-1.9	1.9	3.9	3.8	-4.0	5.8	10.4	7.8
2022	TV	-1.9	0.3	2.2	2.6	-4.3	4.5	9.8	6.9
	III	-1.8	1.7	3.6	4.0	-4.0	6.0	10.6	8.0
	II	-2.4	1.8	4.3	3.7	-4.5	6.3	11.8	8.6
	I	-1.4	4.0	5.5	5.1	-2.8	6.7	9.4	7.8
		-1.4	4.0			-2.6		J. 4	7.6
				Inde	xes 2017=10	0			
2024	II	112.7	119.0	105.6	135.8	105.9	120.5	127.4	123.5
	I	112.1 r	118.1 r	105.4 r					122.9 r
2023	ANNUAL	110.3	116.0	105.2	131.8	105.7	119.5	123.9	121.4
2023	TV	111.9	117.8	105.2	133.3	105.7	119.1	126.0	122.1
	III	110.9	116.7	105.2	133.0	106.2	119.9	124.4	121.9
	II	109.7	115.1	104.9	131.5	105.9	119.9	122.5	121.9
	I	108.9	114.6	105.2	129.8	105.3	119.2	122.7	120.7
2022	ANNUAL	108.7	113.1	104.0	126.5	105.6	116.3	119.3	117.6
2022	IV	109.0	114.0	104.6	127.7	104.6	117.2	122.9	119.7
	III	108.3	113.2	104.5	127.6	105.5	117.8	119.8	118.7
	II	108.3	112.4	103.8	125.4	105.1	115.8	119.7	117.5
	I	109.3	112.8	103.0	125.1	107.3	114.4	114.9	114.6
	- 								

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

PIIO	o, ocub	onarry days	.bccu.						Value-
Year and		Labor produc-		Hours	Hourly compen- sation	Real hourly compen- sation	Unit labor	Unit nonlabor payments	added output price deflator
quart	ter	tivity	Output	worked	(1)	(2)	costs	(3)	(4)
		I	Percent chan	ge from pre	vious quart	er at annua	1 rate (5)		
2024	II	2.3	3.3	1.0	3.3	0.4	0.9	3.2	1.9
	I	0.4 r	1.0 r	0.6	4.2	0.4	3.8 r	1.6 r	2.8 r
2023	ANNUAL	1.4	2.6	1.2	4.2	0.1	2.8	4.2	3.4
2023	IV	3.5	3.8	0.2	0.6	-2.0	-2.8	6.4	1.2
	III	4.6	5.8	1.1	4.6	1.1	0.1	6.8	3.0
	II	3.3	2.0	-1.3	5.9	2.8	2.5	0.0	1.4
	I	-0.3	1.8	2.1	6.8	2.9	7.1	0.0	3.9
2022	ANNUAL	-1.9	2.1	4.0	3.7	-4.1	5.7	10.0	7.5
2022	τv	2.1	2.8	0.8	0.0	-3.9	-2.0	11.0	3.5
	III	0.0	2.8	2.8	7.1	1.7	7.1	0.1	3.9
	II	-3.7	-1.1	2.7	0.8	-8.5	4.7	16.9	9.9
	I	-5.7	-2.8	3.1	2.0	-6.6	8.3	9.9	9.0
			cent change					. — — — — — — — — — — — — — — — — — — —	
			_			_	_		
2024		2.7	3.4	0.7	3.2	0.0	0.5	4.5	2.2
	I	2.9	3.1	0.2	3.8	0.6	0.9	3.6 r	2.1 r
2023	ANNUAL	1.4	2.6	1.2	4.2	0.1	2.8	4.2	3.4
2023	IV	2.7	3.3	0.6	4.4	1.2	1.7	3.2	2.4
	III	2.4	3.1	0.7	4.3	0.7	1.9	4.3	2.9
	II	1.3	2.4	1.1	4.9	0.8	3.6	2.7	3.2
	I	-0.5	1.6	2.1	3.6	-2.0	4.2	6.8	5.3
2022	ANNUAL	-1.9	2.1	4.0	3.7	-4.1	5.7	10.0	7.5
2022	IV	-1.9	0.4	2.3	2.5	-4.4	4.4	9.3	6.5
	III	-1.8	1.8	3.7	4.0	-4.0	5.8	10.4	7.8
	II	-2.4	2.0	4.5	3.6	-4.7	6.1	11.5	8.4
	I	-1.5	4.1	5.6	5.0	-3.0	6.5	8.8	7.5
				Inde	xes 2017=10	0			
2024	II	112.6	119.2	105.9	135.5	105.8	120.4	127.4	123.4
	I	111.9 r	118.3 r	105.7 r	134.5 r	105.7 r	120.1 r	126.4 r	122.9 r
2023	ANNUAL	110.2	116.2	105.5	131.6	105.5	119.4	123.5	121.2
2023	IV	111.8	118.0	105.5	133.1	105.6	119.0	125.9	122.0
	III	110.9	116.9	105.4	132.9	106.1	119.9	124.0	121.6
	II	109.6	115.3	105.1	131.4	105.8	119.8	122.0	120.8
	I	108.8	114.7	105.5	129.5	105.1	119.1	122.0	120.3
2022	ANNUAL	108.7	113.3	104.2	126.3	105.5	116.2	118.5	117.2
2022	τv	108.8	114.2	104.9	127.4	104.3	117.1	122.0	119.2
2022	III	108.3	113.4	104.7	127.4	104.3	117.7	118.8	118.2
	II	108.3	112.6	104.7	125.3	104.9	115.7	118.8	117.0
	I	109.3	112.9	103.3	125.0	107.3	114.4	114.2	114.3

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

						Real	
Year		Labor			Hourly	hourly	Unit
and		produc-		Hours	compensa-	compensa-	labor
quar	ter	tivity	Output	worked	tion (1)		costs
					r at annual rate		
2024	II	1.8	3.4	1.6	5.1	2.2	3.2
	I	-1.1 r	-1.3 r	-0.2	3.2 r	-0.6	4.3 r
2023	ANNUAL	-0.5 r	-0.4 r	0.1	4.9	0.8	5.5 r
					0.1		
2023		2.0 r	-1.3 r	-3.3	3.1	0.4	1.0 r
	III	-1.0 r	-0.4 r	0.6	7.5	3.9	8.6 r
	II	2.7 r	0.3 r	-2.4	7.6	4.4	4.7 r
	I	-0.3 r	0.5 r	0.8	5.0	1.2	5.3 r
2022	ANNUAL	-1.3 r	2.7 r	4.0	3.6	-4.2	5.0 r
2022	TV	-2.3 r	-3.2 r	-0.9	1.2	-2.8	3.5 r
	III	-3.3 r	0.2 r	3.7	7.6	2.2	11.3 r
	II	0.6 r	2.7 r	2.1	2.3	-7.1	1.7 r
	I	-2.8 r	2.7 r	5.6	1.9	-6.7	4.8 r
					rter of previous		
		reicenc	Change IIom Cor	responding qua	rter or previous	year	
2024	II	0.4	0.1	-0.3	4.7	1.5	4.3
	I	0.6 r	-0.7 r	-1.3	5.3	2.0	4.6 r
2023	ANNUAL	-0.5 r	-0.4 r	0.1	4.9	0.8	5.5 r
2023	TV	0.9 r	-0.3	-1.1	5.8	2.5	4.9
	III	-0.2 r	-0.7 r	-0.5	5.3	1.7	5.5 r
	II	-0.8 r	-0.6 r	0.3	5.3	1.2	6.2 r
	I	-1.3 r	0.0 r	1.4	4.0	-1.7	5.4 r
			0.5		2.6		
2022	ANNUAL	-1.3 r	2.7 r	4.0	3.6	-4.2	5.0 r
2022	IV	-1.9 r	0.6 r	2.6	3.2	-3.7	5.3 r
	III	-1.7 r	2.7 r	4.5	4.9	-3.2	6.7 r
	II	-1.4 r	3.3 r	4.8	2.6	-5.6	4.1 r
	I	-0.4 r	4.2 r	4.5	3.4	-4.4	3.8 r
			Ir	ndexes 2017=100			
2024	тт	98.8	100.0	101.2	129.4	101.0	131.0
2024	I	98.4 r	99.2 r	101.2 100.8 r	127.8 r	101.0 100.4 r	129.9 r
2023	ANNUAL	98.2 r	99.8 r	101.6	124.4	99.8	126.6 r
2023		98.7 r	99.5 r	100.9	126.8	100.6	128.6 r
	III	98.2 r	99.8 r	101.7	125.9	100.5	128.2 r
	II	98.4 r	99.9 r	101.6	123.6	99.5	125.6 r
	I	97.8 r	99.9 r	102.2	121.4	98.5	124.2 r
2022	ANNUAL	98.8 r	100.2 r	101.4	118.5	99.0	120.0 r
2022	IV	97.8 r	99.7 r	102.0	119.9	98.2	122.6 r
	III	98.4 r	100.6 r	102.2	119.5	98.9	121.5 r
	II	99.2 r	100.5 r	101.3	117.4	98.3	118.3 r
	I	99.1 r	99.8 r	100.8	116.7	100.1	117.8 r
	_ 						
		following Wahl				_	a+ 1 2024

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	er	tivity	Output	worked	tion (1)	tion (2)	costs
					at annual rate		
2024	II	0.4	2.3	1.9	4.3	1.4	3.9
	I	0.5 r	-0.3 r	-0.8 r	5.1	1.2 r	4.5 r
2023	ANNUAL	-1.1 r	0.2 r	1.3	4.8	0.7	6.0 r
2023	IV	0.0 r	-3.0 r	-3.0	2.3	-0.4	2.3 1
	III	-3.5 r	-0.1 r	3.5	7.9	4.3	11.8 r
	II	4.4 r	1.8 r	-2.5	7.8	4.6	3.3 r
	I	-2.4 r	-0.4 r	2.1	5.9	2.1	8.6 r
2022	ANNUAL	-1.3 r	3.3 r	4.7	2.5	-5.2	3.8 1
2022	T37	-2.2 r	-2.4 r	-0.1	-0.6	-4.5	1.6 1
2022	III	-3.1 r	1.9 r	5.1	7.3	1.9	10.7 r
	II	2.2 r	5.4	3.2	2.7	-6.7	0.5
	I	-2.9 r	4.4 r	7.6	-0.5	-9.0	2.5 1
					ter of previous		
2024	T.T.	-0.7	-0.3	0.4	4.9	1.6	5.6
2024	I	-0.7 0.3 r	-0.3 -0.4 r	-0.7	5.7	2.4	5.4 r
	_	0.0 -	V	• • •			0
2023	ANNUAL	-1.1 r	0.2 r	1.3	4.8	0.7	6.0 r
2023	IV	-0.4 r	-0.4 r	0.0	6.0	2.6	6.4 r
	III	-1.0 r	-0.3 r	0.7	5.2	1.6	6.2 r
	II	-0.9 r	0.2 r	1.1	5.0	1.0	6.0 r
	I	-1.4 r	1.1 r	2.5	3.8	-1.9	5.3 1
2022	ANNUAL	-1.3 r	3.3 r	4.7	2.5	-5.2	3.8 1
2022	IV	-1.5 r	2.3 r	3.9	2.2	-4.7	3.8 1
	III	-0.9 r	4.3 r	5.3	4.6	-3.5	5.5 ı
	II	-0.7 r	4.5 r	5.2	0.9	-7.2	1.6 ı
	I	-2.2 r	2.3 r	4.5	2.2	-5.5	4.5 1
			Ir	ndexes 2017=100			
2024	II	95.9	97.9	102.0	129.2	100.8	134.6
	I	95.8 r	97.3 r	101.5 r	127.8 r	100.4 r	133.4 r
2023	ANNUAL	95.9 r	97.8 r	102.1	123.9	99.4	129.3 r
2023	TV	95.7 r	97.4 r	101.8	126.2	100.1	131.9 r
2023	III	95.7 r	98.1 r	102.5	125.5	100.1	131.9 r
	II	96.6 r	98.1 r	101.6	123.3	99.2	127.5 r
	I	95.5 r	97.7 r	102.3	120.9	98.1	126.5 r
2022	ANNUAL	96.9 r	97.7 r	100.8	118.2	98.7	122.0 r
2022	T37	06.1	07 0	101 7	110 1	07.6	100 0
2022		96.1 r	97.8 r	101.7	119.1	97.6	123.9 r
	III	96.7 r	98.4 r	101.8 100.5	119.3	98.7	123.4 r
	I	97.4 r 96.9 r	97.9 r 96.7 r	99.7	117.2 116.4	98.2 99.9	120.3 r
	-	30.3 E	90.1 E	33.I	110.4	JJ. J	120.2 r

See footnotes following Table 6.

August 1, 2024

r=revised

Source: Bureau of Labor Statistics

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

Year and quarter	c	Labor produc- tivity	Output	Hours worked	Hourly compensa- tion (1)		Unit labor costs
					at annual rate		
2024 II	[3.5	4.6	1.1	6.6	3.7	3.0
I		-3.2 r	-2.3 r	1.0 r	-0.3 r	-4.0 r	3.0
2023 AN	NUAL	0.8 r	-0.9 r	-1.7	4.9	0.8	4.1
2023 IV	7	4.5 r	0.3 r	-4.0	4.5	1.8	0.0
II	ΙΙ	3.6 r	-0.7 r	-4.1	6.0	2.5	2.4
II	<u> </u>	1.0 r	-1.2 r	-2.3	7.3	4.1	6.2
I		2.9 r	1.3 r	-1.5	3.0	-0.8	0.1
2022 AN	NUAL	-1.3	1.6 r	3.0	5.4	-2.4	6.9
2022 IV	7	-1.7 r	-4.0 r	-2.3	4.5	0.5	6.4
II		-2.7 r	-1.4 r	1.3	7.8	2.4	10.8
II		-0.3 r	0.0 r	0.3	1.4	-8.0	1.7
I		-1.5 r	0.8 r	2.4	6.2	-2.8	7.8
					ter of previous		
2024 II	г	2.0	0.5	-1.5	4.2	1.0	2.1
I	=	1.4 r	-1.0 r		4.3	1.1 r	2.9
2023 AN	NUAL	0.8 r	-0.9 r	-1.7	4.9	0.8	4.1
2023 IV	,	3.0 r	-0.1 r	-3.0	5.2	1.9	2.2
2023 IV		1.4 r	-0.1 r -1.2 r	-3.0 -2.5	5.2	1.6	3.7
II		-0.2 r	-1.2 r -1.3 r	-2.5 -1.2	5.6	1.5	5.8
I		-0.2 r	-1.3 r	-0.5	4.1	-1.6	4.7
2022 AN	NUAL	-1.3	1.6 r	3.0	5.4	-2.4	6.9
2022 IV	,	-1.6	-1.1 r	0.4	4.9	-2.1	6.6
ZUZZ IV		-2.3	0.9	3.3	5.2	-2.1 -2.9	7.7
II		-2.3 -2.2 r	1.7 r	4.0	5.9	-2.5	8.3
I		0.6 r	5.2	4.5	5.5	-2.4	4.9
			In	dexes 2017=100			
2024 II	Ē	101.2	101.0	99.9	129.7	101.2	128.1
I	_	100.3 r	99.9 r	99.6 r	127.6 r	100.3 r	127.2
2023 AN	NUAL	99.9 r	100.6 r	100.7	125.2	100.4	125.4
2023 IV	7	101.2 r	100.5 r	99.3	127.7	101.3	126.3
2023 IV		101.2 r 100.0 r	100.5 F 100.4 r	100.3	126.3	100.8	126.2
II		99.2 r	100.4 F 100.6 r	100.3	124.5	100.8	125.5
I		98.9 r	100.8 r	102.0	122.3	99.2	123.6
2022 AN	NUAL	99.1 r	101.5 r	102.5	119.4	99.7	120.5
2022 IV	7	98.2 r	100.5 r	102.4	121.4	99.4	123.6
2022 IV		98.2 f 98.7 f	100.5 r 101.6 r	102.4	121.4	99.4	123.6
II		98.7 r 99.3 r	101.6 r 101.9 r	103.0	117.8	99.3 98.7	118.6
I		99.3 r 99.4 r	101.9 r	102.5	117.4	100.8	118.1
_		JJ.4 L	101.9 I	102.3	± ± 7 . 3	100.0	110.1

See footnotes following Table 6. r=revised

August 1, 2024 Source: Bureau of Labor Statistics

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

Year		Labor			Hourly compen-	_		Value- added output price	Unit nonlabor	_	Unit
and quart	er	produc- tivity	Output	Hours worked	sation (1)	sation (2)	labor costs	deflator (4)	costs (6)	costs (7)	profits (8)
			Percer	nt change i	from previo	ous quarter	at annua	al rate (5)	l		
2024	I	1.9 r	2.5	0.6 r	4.4	0.6	2.5 r	0.0	9.1 r	4.5	-19.5 r
2023	ANNUAL	1.4	2.8	1.5	4.7	0.5	3.3	2.1	0.6	2.4	0.2
2023	IV	6.4	6.6	0.2	1.4	-1.2	-4.7	-0.4	-1.6	-3.7	18.1
	III	3.1	3.9	0.8	4.8	1.3	1.6	1.9	-3.8	-0.1	13.0
	II	1.8	1.2	-0.5	6.8	3.7	4.9	3.1	-2.4	2.6	6.0
	I	1.8	4.3	2.4	6.9	3.0	5.0	0.0	2.3	4.1	-18.8
2022	ANNUAL	-1.0	3.1	4.2	4.1	-3.7	5.2	7.5	11.8	7.2	9.1
2022	IV	-0.7	-0.1	0.6	1.0	-2.9	1.7	1.1	2.2	1.8	-2.3
	III	1.3	5.0	3.7	6.6	1.2	5.2	3.1	1.1	3.9	-0.6
	II	-2.2	0.6	2.9	2.0	-7.4	4.3	11.2	9.1	5.8	42.8
	I	-2.2	0.8	3.0	2.6	-6.1	4.9	10.4	22.8	10.2	11.7
			Percent			onding quar					
2024	I	3.3 r	3.5	0.3	4.3	1.1	1.0 r	1.2	0.2 r	0.8	3.3
2023	ANNUAL	1.4	2.8	1.5	4.7	0.5	3.3	2.1	0.6	2.4	0.2
2023	IV	3.2	4.0	0.7	5.0	1.7	1.7	1.2	-1.4	0.7	3.5
	III	1.5	2.3	0.8	4.8	1.2	3.3	1.5	-0.5	2.1	-1.3
	II	1.1	2.6	1.5	5.3	1.2	4.2	1.8	0.7	3.1	-4.4
	I	0.0	2.4	2.4	4.1	-1.6	4.1	3.8	3.6	3.9	3.0
2022	ANNUAL	-1.0	3.1	4.2	4.1	-3.7	5.2	7.5	11.8	7.2	9.1
2022	IV	-1.0	1.6	2.5	3.0	-3.9	4.0	6.4	8.5	5.4	11.5
	III	-1.4	2.9	4.3	3.9	-4.1	5.3	8.1	12.6	7.5	10.8
	II	-1.1	3.4	4.5	4.3	-4.0	5.5	8.2	16.3	8.7	5.7
	I	-0.6	4.8	5.4	5.4	-2.6	6.0	7.5	10.2	7.3	8.7
					Indexes	s 2017=100					
2024	I	113.6 r	120.6 r	106.2 r	135.9 r	106.8 r	119.6 r	121.7 r	112.0 r	117.1 r	152.7 r
2023	ANNUAL	111.2	117.8	105.9	132.7	106.4	119.3	121.3	110.6	116.5	153.4
2023	IV	113.1	119.9	106.0	134.4	106.6	118.9	121.7	109.6	115.8	161.2
	III	111.4	118.0	105.9	134.0	107.0	120.3	121.8		116.9	154.6
	II	110.5	116.9	105.7	132.4	106.6	119.8	121.2		117.0	150.0
	I	110.0	116.5	105.9	130.2	105.7	118.4	120.3		116.2	147.8
2022	ANNUAL	109.7	114.6	104.4	126.7	105.8	115.5	118.8	110.0	113.7	153.2
2022	IV	109.5	115.3	105.2	128.1	104.9	116.9	120.3	111.2	115.0	155.7
	III	109.7	115.3	105.1	127.8	105.7	116.4	120.0		114.5	156.6
	II	109.4	113.9	104.1	125.7	105.7	115.0	119.0		113.4	156.9
	I	110.0	113.7	103.4	125.1	107.4	113.8	115.9		111.8	143.5

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.

SIZE OF REVISIONS: Productivity and cost measures are revised on a regular schedule as more complete data become available. The first estimate is published within 40 days of the close of the reference quarter, the second estimate approximately 30 days later, and the third estimate approximately 60 days after the second estimate. Based on past revisions, the third estimate of nonfarm business sector quarterly labor productivity growth has differed from the first estimate by -1.1 to +1.4 percentage point about 80 percent of the time. This interval is based on estimates for reference quarters from the first quarter of 2001 to the first quarter of 2024. For more about revisions to labor productivity growth see "Revisions to BLS quarterly labor productivity estimates: How large are they?" at www.bls.gov/opub/mlr/2022/article/revisions-to-bls-quarterly-labor-productivity-estimates-how-large-are-they.htm.

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 1978-2023 is based on the Consumer Price Index Retroactive 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.