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## PRODUCTIVITY AND COSTS

Third Quarter 2024, Revised

Nonfarm business sector labor productivity increased 2.2 percent in the third quarter of 2024, the U.S. Bureau of Labor Statistics reported today, reflecting no revision from the preliminary estimate. Output and hours worked were also unrevised, increasing 3.5 percent and 1.2 percent respectively. (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 2.0 percent in the third quarter of 2024, as previously reported. (See chart 1 and tables A1 and B1.)

Chart 1. Labor productivity, nonfarm business, 2020Q1 – 2024Q3

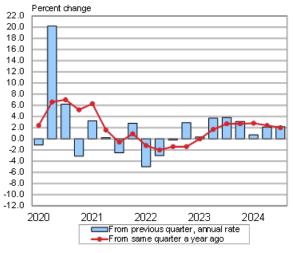
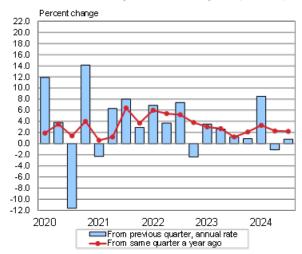


Chart 2. Unit labor costs, nonfarm business, 2020Q1 - 2024Q3



Unit labor costs in the nonfarm business sector were revised down 1.1 percentage points to an increase of 0.8 percent in the third quarter of 2024, reflecting an equivalent downward revision to hourly compensation to an increase of 3.1 percent. Unit labor costs increased 2.2 percent over the last four quarters. (See chart 2 and tables A1, B1, 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 1.8 percent in the third quarter of 2024, and increased 1.6 percent 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 1.8 percent, reflecting a 2.5-percent rate of growth in output and a 0.7-percent rate of

growth in hours worked. (See chart 3.) These rates are not revised from the preliminary third-quarter estimates. The 1.8-percent annualized rate of productivity growth in the current business cycle thus far is higher than the 1.5 percent rate of the previous business cycle from the fourth quarter of 2007 through the fourth quarter of 2019.

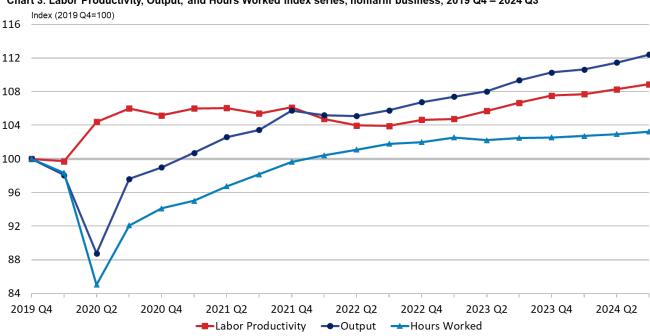


Chart 3. Labor Productivity, Output, and Hours Worked index series, nonfarm business, 2019 Q4 – 2024 Q3

Manufacturing sector labor productivity increased 0.9 percent in the third quarter of 2024, a 0.1-percentage point downward revision from the preliminary estimate. This revision reflects a 0.2-percentage point downward revision to output to a decrease of 0.4 percent and a 0.1-percentage point downward revision to hours worked to a decrease of 1.3 percent. In the durable manufacturing sector, productivity increased 0.7 percent, a 0.1-percentage point downward revision from the preliminary estimate. This revision reflects a 0.2-percentage point downward revision to output to a decrease of 2.8 percent and a 0.1-percentage point downward revision to hours worked to a decrease of 3.5 percent. In the nondurable manufacturing sector, productivity was revised down 0.3 percentage point to a decrease of 0.6 percent, reflecting a 0.1-percentage point downward revision to output to an increase of 2.2 percent and a 0.2-percentage point upward revision to hours worked to an increase of 2.8 percent. Total manufacturing sector productivity increased 0.6 percent from the same quarter a year ago. (See tables A1, B1, 3, 4, and 5.)

**Unit labor costs** in the total manufacturing sector were revised down 3.6 percentage points to an increase of 1.7 percent in the third quarter of 2024, primarily reflecting a 3.8-percentage point downward revision to hourly compensation. Durable manufacturing sector unit labor costs were revised down 4.2 percentage points to an increase of 2.3 percent due primarily to a 4.4-percentage point downward revision to hourly compensation. Unit labor costs in the nondurable manufacturing sector were revised down 2.4 percentage points to an increase of 2.9 percent, primarily reflecting a 2.7-percentage point downward revision to hourly compensation. Manufacturing unit labor costs increased 1.8 percent from the same quarter a year ago. (See tables A1, B1, and 3.)

Manufacturing sector labor productivity has grown at an annualized rate of 0.2 percent during the

current business cycle, as output has netted no growth and hours have declined 0.2 percent. (See chart 4.) The 0.2-percent annualized rate of productivity growth in the current business cycle thus far is above the 0.1-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.

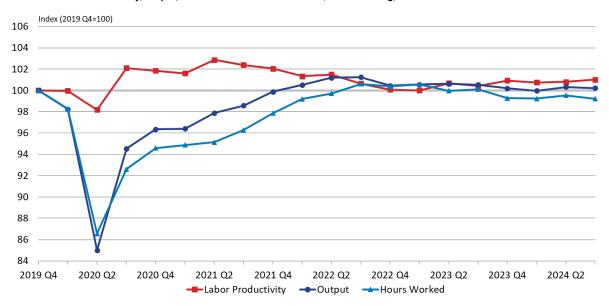


Chart 4. Labor Productivity, Output, and Hours Worked index series, manufacturing, 2019 Q4 - 2024 Q3

The concepts, sources, and methods used for the manufacturing output series differ from those used in the business and nonfarm business output series; these output measures are not directly comparable. See the Technical Notes for a more detailed explanation. (See page 7.)

**Preliminary measures for the third quarter of 2024** were announced today for the **nonfinancial corporate sector**. Productivity increased 3.4 percent in the third quarter of 2024 as output increased 4.2 percent and hours worked increased 0.8 percent. Productivity increased 3.9 percent over the last four quarters. Unit profits of nonfinancial corporations increased 0.5 percent in the third quarter of 2024 and increased 1.1 percent over the last four quarters. (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. 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 2024. Updated compensation data from BEA are reflected in revisions to hourly compensation and unit labor costs; the compensation data incorporate data from the BLS Quarterly Census of Employment and Wages (QCEW) for the second quarter of 2024. Normal updates to QCEW data (described in their Technical Note at https://www.bls.gov/cew/news-release-technical-note.htm) can lead to revisions and the most notable revisions in this release occurred in the manufacturing sectors.

Measures of output for the manufacturing sectors incorporate revised annual benchmark data from 1987 to 2021 released December 4 by BLS. The largest revisions to manufacturing output from the incorporation of these data occurred in 2020, with the highest magnitude being a downward revision of 0.8 percentage point in the first quarter.

The revisions to the third quarter of 2024 cited earlier are reflected in Table B1. Table B2 presents previous and revised productivity and related measures for the business, nonfarm business, manufacturing, and nonfinancial corporate sectors for the **second quarter of 2024**.

In the **nonfarm business sector**, labor productivity, output, and hours worked were unrevised for the second quarter of 2024. Unit labor costs decreased 1.1 percent, rather than increasing 2.4 percent as previously reported, due to a 3.6-percentage point downward revision to hourly compensation.

In the **manufacturing sector**, productivity was revised down 0.1 percentage point to an increase of 0.2 percent for the second quarter of 2024, reflecting the same revision to output; hours worked were unrevised. Unit labor costs were revised down to a decrease of 5.8 percent from the previously-reported increase of 5.8 percent. This revision is mainly due to an 11.8-percentage point downward revision to hourly compensation.

In the **nonfinancial corporate sector**, productivity was revised down 2.1 percentage points to an increase of 1.0 percent due to a 2.2-percentage point downward revision to output. Unit labor costs were revised down 1.5 percentage points to a decrease of 0.2 percent due to the productivity revision and a 3.8-percentage point downward revision to hourly compensation.

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 preliminary Productivity and Costs news release for fourth-quarter 2024 is scheduled to be released on Thursday, February 6, 2025, at 8:30 a.m. (ET).

Calendar year 2025 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 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	2.2	3.5	1.2	3.1	1.8	8.0
	A year ago	2.0	2.8	0.7	4.3	1.6	2.2
Business	Previous quarter	1.7	3.2	1.5	2.7	1.5	1.0
	A year ago	2.0	2.8	8.0	4.3	1.6	2.2
Manufacturing	Previous quarter	0.9	-0.4	-1.3	2.6	1.4	1.7
	A year ago	0.6	-0.3	-0.9	2.4	-0.2	1.8
Durable	Previous quarter	0.7	-2.8	-3.5	3.0	1.8	2.3
manufacturing	A year ago	0.1	-1.4	-1.5	2.4	-0.3	2.2
Nondurable	Previous quarter	-0.6	2.2	2.8	2.3	1.1	2.9
manufacturing	A year ago	0.7	0.8	0.1	2.6	-0.1	1.9

## Table A2. Labor productivity growth and related measures - preliminary third-quarter 2024 (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	3.4	4.2	0.8	2.7	1.5	-0.6
corporate	A year ago	3.9	4.8	8.0	4.7	2.0	0.7

# Table B1. Labor productivity growth and related measures - revised and previously published third-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	2.2	3.5	1.2	3.1	1.8	8.0
	Previously published	2.2	3.5	1.2	4.2	3.0	1.9
Business	Revised	1.7	3.2	1.5	2.7	1.5	1.0
	Previously published	1.7	3.2	1.6	3.8	2.6	2.1
Manufacturing	Revised	0.9	-0.4	-1.3	2.6	1.4	1.7
	Previously published	1.0	-0.2	-1.2	6.4	5.1	5.3
Durable	Revised	0.7	-2.8	-3.5	3.0	1.8	2.3
manufacturing	Previously published	0.8	-2.6	-3.4	7.4	6.1	6.5
Nondurable	Revised	-0.6	2.2	2.8	2.3	1.1	2.9
manufacturing	Previously published	-0.3	2.3	2.6	5.0	3.7	5.3

Table B2. Labor productivity growth and related measures - revised and previously published second-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	2.1	3.0	0.9	1.0	-1.8	-1.1
	Previously published	2.1	3.0	0.9	4.6	1.7	2.4
Business	Revised	2.2	3.3	1.0	0.9	-1.8	-1.3
	Previously published	2.2	3.3	1.0	4.5	1.6	2.2
Nonfinancial	Revised	1.0	2.5	1.5	0.7	-2.0	-0.2
corporate	Previously published	3.1	4.7	1.5	4.5	1.7	1.3
Manufacturing	Revised	0.2	1.4	1.2	-5.6	-8.2	-5.8
	Previously published	0.3	1.5	1.2	6.2	3.3	5.8
Durable	Revised	-1.0	0.4	1.4	-9.0	-11.5	-8.1
manufacturing	Previously published	-0.8	0.6	1.4	5.5	2.6	6.4
Nondurable	Revised	1.7	2.5	0.8	1.7	-1.1	0.0
manufacturing	Previously published	1.7	2.5	0.8	7.5	4.6	5.7

### **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.

Seasonai	iy aajastea.							Value-
Year	Labor			Hourly compen-	Real hourly compen-	Unit	Unit nonlabor	added output price
and	produc-	•	Hours	sation	-	labor	payments	deflator
quarter	tivity	Output	worked	(1)	(2)	costs	(3)	(4)
		Percent chan		evious quart				
2024 III		3.2	1.5 r	2.7 r			1.7 r	1.3 r
II -	2.2	3.3	1.0	0.9 r			6.6 r	2.2
I	0.9	1.4	0.5	9.3	5.3	8.4	-4.7	2.2
2023 ANN	UAL 1.7	2.9	1.2	3.9	-0.2	2.2	4.9	3.4
2023 IV	3.3	3.4	0.1	4.3	1.5	1.0	0.6	0.8
III		4.9	1.1	5.1	1.5	1.3	4.6	2.8
II	3.6	2.5	-1.0	6.0	2.9	2.3	0.2	1.3
I	0.2	2.5	2.2	3.8	0.0	3.5	3.8	3.7
2022 ANN	UAL -1.4	2.5	3.9	3.7	-4.1	5.2	11.6	8.0
2022 IV	3.2	3.7	0.4	0.8	-3.2	-2.4	11.4	3.6
III	-0.1	2.6	2.7	7.2	1.8	7.3	0.7	4.3
II	-2.7	-0.4	2.4	1.0	-8.3	3.9	20.1	10.9
I	-5.4	-2.1	3.5	1.4	-7.2	7.2	13.0	9.7
		ercent change						
	-	ercenc change	IIOM COII	esponding qu	arcer or pr	evious year		
2024 III	2.0	2.8	0.8	4.3 r	1.6 r	2.2 r	1.0 r	1.6
II	2.5	3.2	0.7	4.8 r	1.6 r	2.3 r	1.7 r	2.0
I	2.9	3.0	0.2	6.1	2.8	3.2	0.1	1.8
2023 ANN	UAL 1.7	2.9	1.2	3.9	-0.2	2.2	4.9	3.4
2023 IV	2.7	3.3	0.6	4.8	1.5	2.0	2.3	2.1
III	2.7	3.4	0.7	3.9	0.3	1.2	4.9	2.9
II	1.7	2.8	1.1	4.4	0.4	2.6	3.9	3.2
I	0.1	2.1	1.9	3.2	-2.5	3.0	8.8	5.6
2022 ANN	UAL -1.4	2.5	3.9	3.7	-4.1	5.2	11.6	8.0
2022 IV	-1.3	0.9	2.3	2.5	-4.3	3.9	11.1	7.1
III	-1.4	2.2	3.6	3.9	-4.1	5.3	11.9	8.2
II	-1.8	2.4	4.4	3.5	-4.7	5.5	13.1	8.8
I	-1.0	4.4	5.5	5.0	-2.9	6.1	10.3	7.9
			Inde	exes 2017=10	0			
2024 III	114.6 r	121.5 r	106.0 r	138.2 r	107.5 r	120.6 r	129.0 r	124.3 r
II	114.1	120.6	105.7	137.3 r		120.3 r		123.9
I	113.5	119.6	105.4	137.0	107.6	120.7	126.4	123.2
2023 ANN	UAL 111.7	117.6	105.2	131.5	105.5	117.7	127.1	121.8
2023 IV	113.3	119.2	105.3	133.9	106.2	118.3	128.0	122.5
III		118.2	105.2	132.6	105.8	118.0	127.8	122.3
II	111.3	116.8	104.9	130.9	105.4	117.6	126.3	121.4
I	110.3	116.1	105.2	129.0	104.7	116.9	126.3	121.0
2022 ANN	UAL 109.9	114.3	104.0	126.5	105.7	115.2	121.1	117.8
2022 IV	110.3	115.4	104.6	127.8	104.7	115.9	125.1	119.9
III		114.3	104.5	127.6	104.7	116.6	121.7	118.9
II	109.4	113.6	103.8	125.4	105.1	114.6	121.7	117.6
I	110.2	113.7	103.2	125.1	107.3	113.5	116.1	114.6
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Table 2. Nonfarm business sector: Labor productivity, hourly compensation, unit labor costs, and prices, seasonally adjusted.

PITOCO	, seas	onarry au	jusceu.			Real			Value- added
					Hourly	hourly		Unit	output
Year		Labor			compen-	compen-	Unit	nonlabor	price
and		produc-		Hours	sation	sation	labor	payments	deflator
quarte:	r	tivity	Output	worked	(1) 	(2)	costs	(3)	(4)
			Percent chan						
2024 I		2.2	3.5	1.2	3.1 r	1.8 r	0.8 r	1.4 r	1.1 r
	I	2.1	3.0	0.9	1.0 r	-1.8 r	-1.1 r	6.6 r	2.3
I		0.7	1.3	0.6	9.3	5.3	8.5	-4.3	2.6
2023 A	NNUAL	1.6	2.9	1.2	3.9	-0.2	2.2	5.3	3.6
2023 I	v	3.1	3.4	0.2	4.1	1.4	0.9	1.7	1.3
	II	3.8	5.0	1.1	5.1	1.6	1.2	5.2	3.0
I		3.7	2.4	-1.3	6.4	3.3	2.6	1.1	1.9
I		0.3	2.5	2.1	3.8	0.1	3.5	4.5	4.0
2022 A	NNUAL	-1.5	2.5	4.1	3.5	-4.2	5.1	11.2	7.7
2022 I	v	2.9	3.7	0.8	0.4	-3.5	-2.4	11.4	3.5
I	II	-0.2	2.6	2.8	7.2	1.8	7.4	0.3	4.2
I	I	-3.0	-0.3	2.7	0.7	-8.6	3.7	19.2	10.3
I		-5.0	-2.0	3.2	1.5	-7.1	6.9	12.1	9.1
		Pe	ercent change						
2024 I	II	2.0	2.8	0.7	4.3 r	1.6 r	2.2 r	1.3 r	1.8 r
I	I	2.4	3.2	0.7	4.8 r	1.6 r	2.3 r	2.2 r	2.3
I		2.8	3.0	0.2	6.2	2.9	3.3	0.9	2.2
2023 A	NNUAL	1.6	2.9	1.2	3.9	-0.2	2.2	5.3	3.6
2023 I	v	2.7	3.3	0.6	4.8	1.6	2.1	3.1	2.5
	II	2.7	3.4	0.7	3.9	0.3	1.2	5.5	3.1
I	I	1.7	2.8	1.1	4.4	0.4	2.7	4.3	3.4
I		0.0	2.1	2.1	3.0	-2.7	3.0	8.6	5.5
2022 A	NNUAL	-1.5	2.5	4.1	3.5	-4.2	5.1	11.2	7.7
2022 I	v	-1.4	1.0	2.4	2.4	-4.4	3.8	10.5	6.8
I	II	-1.4	2.3	3.7	3.8	-4.2	5.2	11.7	8.0
I	I	-2.0	2.5	4.5	3.3	-4.9	5.4	12.9	8.6
I		-1.2	4.4	5.7	4.8	-3.1	6.0	9.8	7.6
				Inde	exes 2017=10	0			
2024 I	II	114.5 r	121.6 r	106.2 r	138.0 r	107.4 r	120.6 r	129.0 r	124.2 r
	I	113.8	120.6	105.9	137.0 r		120.4 r		123.9
I		113.3	119.7	105.7	136.7	107.4	120.7	126.5	123.2
2023 A	NNUAL	111.5	117.7	105.5	131.3	105.3	117.7	126.6	121.6
2023 I	v	113.1	119.3	105.5	133.7	106.0	118.2	127.9	122.4
	II	112.2	118.3	105.5	132.3	105.7	118.0	127.4	122.1
	I	111.1	116.9	105.2	130.7	105.3	117.6	125.8	121.2
I		110.1	116.2	105.5	128.7	104.4	116.9	125.4	120.6
2022 A	NNUAL	109.7	114.4	104.2	126.3	105.5	115.1	120.2	117.3
2022 -	77	110 0	115.5	105.0	107 E	104 4	115 0	124 0	110 4
2022 I	V II	110.0 109.3	115.5 114.5	105.0 104.7	127.5 127.4	104.4 105.3	115.9 116.6	124.0 120.7	119.4 118.4
	I	109.3	114.5	104.7	127.4	105.3	114.5	120.7	118.4
I		110.1	113.7	103.3	125.0	104.3	113.5	115.4	114.3
0 E-			or moble 6					D = = = = l= =	~ 10 2024

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
quarter	tivity	Output	worked	tion (1)		costs
				at annual rate		
2024 III	0.9 r	-0.4 r	-1.3 r	2.6 r	1.4 r	1.7 r
II	0.2 r	1.4 r	1.2	-5.6 r	-8.2 r	-5.8 r
I	-0.7	-0.9	-0.2	6.2	2.3	7.0
2023 ANNUA	L -0.5	-0.4	0.1	4.5	0.4	5.1
2023 IV	2.0	-1.4 r	-3.3	6.7	3.9	4.6
III	-1.0	-0.4	0.6	6.1	2.6	7.2
II	2.7	0.3	-2.4	8.8	5.6	5.9
I	-0.3	0.5	0.8	2.6	-1.1	2.9
2022 ANNUA	L -1.3	2.7	4.0	3.2	-4.5	4.6
2022 IV	-2.2 r	-3.2	-0.9	1.1	-2.8	3.4
III	-2.2 f -3.3	0.2	3.7	7.4	1.9	3.4 11.1 r
II	0.6	2.7	2.1	1.9	-7.4	1.3
I	-2.8	2.7 2.6 r	5.6	1.3	-7.4 -7.3	4.2
	Percent	change from con	responding quar	rter of previous	year	
2024 III	0.6 r	-0.3 r	-0.9	2.4 r	-0.2 r	1.8 r
II	0.1 r	-0.3	-0.4	3.2 r	0.0 r	3.1 r
I	0.7	-0.6	-1.3	6.9	3.6	6.2
2023 ANNUA	L -0.5	-0.4	0.1	4.5	0.4	5.1
2023 IV	0.9	-0.3	-1.1	6.0	2.7	5.1
III	-0.2	-0.7	-0.5	4.6	1.0	4.8
II	-0.8	-0.6	0.3	4.9	0.9	5.8
I	-1.3	0.0	1.4	3.2	-2.4	4.6
2022 ANNUA	L -1.3	2.7	4.0	3.2	-4.5	4.6
2022 IV	-1.9	0.6	2.6	2.9	-4.0	4.9
III	-1.7	2.7	4.5	4.5	-3.6	6.3
II	-1.3 r	3.4 r	4.8	2.3	-5.9	3.6 r
I	-0.3 r	4.3 r	4.5	3.2	-4.6	3.4 r
		Ir	ndexes 2017=100			
2024 III	98.2 r	99.0 r	100.8 r	127.9 r	99.5 r	130.2 r
II	98.0 r	99.1 r	101.1	127.1 r	99.2 r	129.6 r
I	98.0 r	98.8 r	100.8	128.9	101.3	131.6 r
2023 ANNUA	L 97.7 r	99.3 r	101.6	123.9	99.3	126.7 r
2023 IV	98 2 r	99.0 r	100 9	127.0	100.7	129.4 r
III			101.7	124.9	99.8	127.9 r
II	97.7 I 97.9 r	99.4 r	101.7	123.1	99.1	127.3 I
I	97.3 r	99.4 r	102.2		97.8	123.7 I
2022 ANNUA	L 98.2 r	99.6 r	101.4	118.5	98.9	120.6 r
2022 777	07 2 ~	99 2 ~	102.0	110 0	98.1	122 1
2022 IV		99.2 r	102.0			
III	97.9 r 98 7 r	100.0 r 100.0 r	102.2	119.4 117.3	98.8 98.3	122.0 r 118.9 r
I	98.6 r				100.2	118.5 r
1	90.0 E	33.3 E	100.0	110.0	100.2	110.5 I

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

						Real	
Year		Labor			Hourly	hourly	Unit
and		produc-		Hours	compensa-	compensa-	labor
quart	ter 	tivity		worked	tion (1)		costs
					at annual rate		
2024	III	0.7 r	-2.8 r	-3.5 r	3.0 r	1.8 r	2.3 r
	II	-1.0 r	0.4 r	1.4	-9.0 r	-11.5 r	-8.1 r
	I	0.8	0.0	-0.8	8.0	4.0	7.1
2023	ANNUAL	-1.1	0.2	1.3	4.5	0.3	5.6
2023	T37	0.0	-3.0	-3.0	8.5	5.6	8.5
2023	III	-3.5	-0.1	3.5	4.4	0.9	8.2
	II	4.4	1.8	-2.5	10.6	7.3	5.9
	I	-2.4	-0.4	2.1	2.7	-1.1	5.2
2022	ANNUAL	-1.2 r	3.4 r	4.7	2.3	-5.4	3.6
2022	IV	-2.2	-2.4	-0.1	-0.4	-4.3	1.9
	III	-3.1	1.9	5.1	7.3	1.9	10.7
	II	2.2	5.4	3.2	2.5	-6.9	0.3
	I	-2.9	4.4	7.6	-1.0	-9.4	1.9
		Percent	change from con	responding quar	ter of previous	 year	
0004		0.1					2.2
2024		0.1 r	-1.4 r	-1.5	2.4 r	-0.3 r	2.2 r
	II	-0.9	-0.7 r	0.3	2.7 r	-0.5 r	3.7 r
	I	0.4	-0.3	-0.7	7.8	4.4	7.4
2023	ANNUAL	-1.1	0.2	1.3	4.5	0.3	5.6
2023	IV	-0.4	-0.4	0.0	6.5	3.1	7.0 r
	III	-1.0	-0.3	0.7	4.2	0.6	5.3
	II	-0.9	0.2	1.1	4.9	0.9	5.9
	I	-1.4	1.1	2.5	3.0	-2.7	4.5
2022	ANNUAL	-1.2 r	3.4 r	4.7	2.3	-5.4	3.6
2022	TV	-1.5	2.3	3.9	2.0	-4.8	3.6
2022	III	-0.9	4.3	5.3	4.3	-3.7	5.2
	II	-0.7	4.5	5.2	0.6	-7.4	1.3
	I	-0.7 -2.1 r	2.4 r	4.5	2.1	-7. <del>4</del> -5.6	4.3
			Ir	ndexes 2017=100			
0005		05.0	06.0	101 0	107 4	00.1	100.6
2024		95.3 r	96.3 r	101.0 r	127.4 r	99.1 r	133.6 r
	II	95.2 r	97.0 r	101.9	126.4 r	98.7 r	132.9 r
	I	95.4 r	96.9 r	101.5	129.5	101.7	135.7 r
2023	ANNUAL	95.3 r	97.3 r	102.1	123.6	99.1	129.7 r
2023	IV	95.2 r	96.9 r	101.8	127.0	100.7	133.4 r
	III	95.2 r		102.5	124.5	99.4	130.7 r
	II	96.1 r	97.6 r	101.6	123.1	99.2	128.2 r
	I	95.0 r	97.2 r	102.3		97.4	126.3 r
2022	ANNUAL	96.4 r	97.2 r		118.3	98.8	122.7 r
2022	T17	05.6	07.3	101 7	110.2	07.7	104 7
2022		95.6 r	97.3 r	101.7		97.7	
	III	96.2 r	97.9 r 97.4 r	101.8	119.4	98.7	124.2 r
	II					98.3	121.1 r
	I	96.4 r	96.1 r	99.7	116.6	100.1	121.0 r

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

						Real	
Year		Labor			Hourly	hourly	Unit
and		produc-		Hours	compensa-	compensa-	labor
quart	er	tivity		worked	tion (1)		costs
					at annual rate		
2024	III	-0.6 r	2.2 r	2.8 r	2.3 r	1.1 r	2.9 r
	II	1.7	2.5	0.8	1.7 r	-1.1 r	0.0 r
	I	-2.7	-1.7	1.0	3.0	-0.8	5.8
2023	ANNUAL	0.8	-0.9	-1.7	4.4	0.2	3.5
2023	TV	4.5	0.3	-4.0	3.3	0.6	-1.1
	III	3.6	-0.7	-4.1	8.7	5.1	5.0
	II	1.0	-1.2	-2.3	5.4	2.3	4.3
	I	2.9	1.3	-1.5	2.2	-1.5	-0.6
2022	ANNUAL	-1.3	1.7 r	3.0	4.9	-2.9	6.3
2022	IV	-1.7	-4.0	-2.3	3.8	-0.2	5.6
	III	-2.7	-1.4	1.3	7.2	1.8	10.1
	II	-0.3	0.0	0.3	0.6	-8.6	0.9
	I	-1.5	0.8	2.4	5.4	-3.5	7.0
		Percent	change from cor	responding quar	rter of previous	 year	
2024		0.7	0.0	0.1	2.6 r	0.1	10-
2024		0.7 r	0.8	0.1		-0.1 r	1.9 r
	II	1.7	0.1	-1.6	4.1 r	0.9 r	2.4 r
	I	1.6	-0.8	-2.4	5.1	1.8	3.5
2023	ANNUAL	0.8	-0.9	-1.7	4.4	0.2	3.5
2023	IV	3.0	-0.1	-3.0	4.9	1.6	1.8
	III	1.4	-1.2	-2.5	5.0	1.4	3.5
	II	-0.2	-1.3	-1.2	4.6	0.6	4.8
	I	-0.5	-1.0	-0.5	3.4	-2.2	3.9
2022	ANNUAL	-1.3	1.7 r	3.0	4.9	-2.9	6.3
2022	TV	-1.6	-1.1	0.4	4.2	-2.7	5.9
	III	-2.3	0.9	3.3	4.6	-3.4	7.1
	II	-2.2	1.7	4.0	5.4	-3.0	7.8
	I	0.7 r	5.3 r	4.5	5.3	-2.7	4.5 r
			Ir.	ndexes 2017=100			
2024	TTT	100 4	100 0	100 F	120 0	100 0	100 3
2024		100.4 r	100.9 r	100.5 r	128.8 r	100.2 r	128.3 r
	II I	100.5 r 100.1 r	100.3 r 99.7 r	99.8 99.6	128.1 r 127.6	100.0 r 100.2	127.4 r 127.4 r
	1	100.1 1	99.7 I	99.0	127.0	100.2	127.4 1
2023	ANNUAL	99.5 r	100.2 r	100.7	124.2	99.6	124.8 r
2023	IV	100.8 r	100.1 r	99.3	126.6	100.4	125.6 r
	III	99.7 r		100.3	125.6	100.3	126.0 r
	II	98.8 r	100.2 r	101.4	123.0	99.1	124.5 r
	I	98.6 r	100.5 r	102.0	121.4	98.5	123.2 r
2022	ANNUAL	98.7 r	101.1 r	102.5	119.0	99.4	120.6 r
2022	IV	97 9 ∽	100 2 ~	102.4	120 7	98.9	123.3 r
	III	98 3 2	101 2 r	103 0	119.6	98.9	121.7 r
	II	99 0 ~	101.2 r 101.6 r	102.6	117.6	98.5	
							118.8 r
	I	99.1 r	101.6 r	102.5	117.4	100.7	118.5 r

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

Year and quart	er	Labor produc- tivity	Output	Hours worked	Hourly compen- sation (1)	Real hourly compen- sation (2)	Unit labor costs	Value- added output price deflator (4)	(6)	Unit combine input costs (7)	ed Unit profits (8)
					from previo						
2024	III	3.4	4.2	0.8	2.7	1.5	-0.6	0.2	2.0	0.2	0.5
	II	1.0 r	2.5 r	1.5	0.7 r	-2.0 r	-0.2 r	1.4	-3.7 r	-1.3 r	15.1 r
	I	5.7	6.4	0.6	11.6	7.5	5.5	0.0	6.0	5.7	-22.2
2023	ANNUAL	0.0	1.5	1.4	4.1	0.0	4.1	3.5	-0.3	2.7	7.3
2023	IV	5.8	6.0	0.2	4.1	1.4	-1.6	1.3	-2.0	-1.7	15.9
:	III	2.1	2.9	0.8	4.1	0.7	2.0	3.5	-1.6	0.9	16.9
	II	3.1	2.5	-0.6	5.9	2.8	2.7	1.9	-2.5	1.1	6.0
	I	-3.0	-0.6	2.4	5.7	1.8	8.9	4.2	-1.5	5.5	-1.6
2022	ANNUAL	-0.1	4.1	4.2	4.1	-3.7	4.1	7.4	15.1	7.4	7.1
2022		-2.0	-1.4	0.6	0.2	-3.7	2.2	2.3	1.7	2.0	3.7
	III	0.9	4.6	3.7	6.1	0.8	5.2	4.1	0.2	3.5	6.9
	II	-1.0	1.9	2.9	1.8	-7.6	2.9	9.9	9.3	4.9	38.1
	I 	0.8	3.9	3.0 	2.8 	-5.9 	2.0	8.8	33.7 	10.9	-1.1
			Percent o	change fr	om correspo	onding quar	ter of pr	evious yea	ar		
2024	III	3.9	4.8	0.8	4.7	2.0	0.7	0.7	0.5	0.7	1.1
	II	3.6 r	4.4 r	0.8	5.1 r	1.8 r	1.4 r	1.6	-0.4 r	0.8 r	5.0 r
:	I	4.2	4.5	0.3	6.4	3.1	2.1	1.7	-0.1	1.4	2.8
2023	ANNUAL	0.0	1.5	1.4	4.1	0.0	4.1	3.5	-0.3	2.7	7.3
2023	IV	2.0	2.7	0.7	5.0	1.7	2.9	2.7	-1.9	1.4	9.0
;	III	0.0	0.8	0.8	3.9	0.4	3.9	3.0	-1.0	2.3	6.0
;	II	-0.3	1.2	1.5	4.4	0.4	4.7	3.1	-0.6	3.0	3.7
:	I	-1.3	1.1	2.4	3.4	-2.2	4.8	5.1	2.3	4.0	10.8
2022	ANNUAL	-0.1	4.1	4.2	4.1	-3.7	4.1	7.4	15.1	7.4	7.1
2022	IV	-0.3	2.2	2.5	2.7	-4.2	3.0	6.2	10.5	5.3	10.9
	III	-0.2	4.1	4.3	3.8	-4.2	4.0	7.5	15.3	7.3	8.5
	II	-0.3	4.3	4.5	4.4	-3.9	4.7	8.2	20.8	9.4	3.2
	I 	0.5	6.0 	5.4 	5.6 	-2.4 	5.0	7.6	14.5 	7.8	6.1
					Indexes	2017=100					
2024	III	116.3	124.1	106.8	139.3	108.3	119.8	124.0		116.6	173.5
	II	115.3 r	122.9 r		138.3 r	108.0 r	120.0 r				173.3 r
	I	115.0	122.1	106.2	138.1	108.5	120.0	123.5	110.5	116.9	167.3
2023	ANNUAL	111.7	118.3	106.0	132.1	105.9	118.3	122.5	109.7	115.5	169.5
2023	IV	113.4	120.2	106.0	134.3	106.6	118.4	123.5	108.9	115.3	178.2
	III	111.8	118.5	106.0	133.0	106.2	118.9	123.1		115.8	171.7
	II	111.3	117.6	105.7	131.7	106.0	118.3	122.0		115.6	165.1
	I	110.4	116.9	105.9	129.8	105.3	117.5	121.4	110.6	115.3	162.7
2022	ANNUAL	111.7	116.6	104.5	126.9	106.0	113.7	118.4	110.1	112.5	157.9
2022	IV	111.3	117.1	105.3	128.0	104.8	115.1	120.2	111.1	113.8	163.4
	III	111.8	117.5	105.1	128.0	105.8	114.4	119.5		113.2	161.9
	II	111.6	116.2	104.2	126.1	105.6	113.0	118.3		112.2	159.2
	I	111.8	115.7	103.4	125.5	107.7	112.2	115.5	108.1	110.9	146.9

Source: Bureau of Labor Statistics

r=revised

**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 second 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.