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PRODUCTIVITY AND COSTS

First Quarter 2022, Preliminary

Nonfarm business sector labor productivity decreased 7.5 percent in the first quarter of 2022, the U.S. Bureau of Labor Statistics reported today, as output decreased 2.4 percent and hours worked increased 5.5 percent. This is the largest decline in quarterly productivity since the third quarter of 1947, when the measure decreased 11.7 percent. (All quarterly percent changes in this release are seasonally adjusted annual rates.) From the same quarter a year ago, nonfarm business sector labor productivity decreased 0.6 percent, reflecting a 4.2-percent increase in output that was outpaced by a 4.8-percent increase in hours worked. This is the largest four-quarter decline since the fourth quarter of 1993, when the measure also declined 0.6 percent. (See chart 1 and table A1.)

Chart 1. Labor productivity, nonfarm business, 2018Q1 - 2022Q1

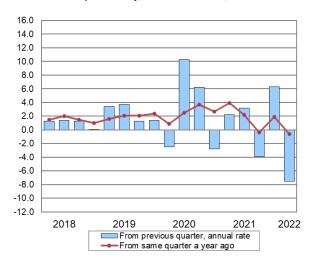
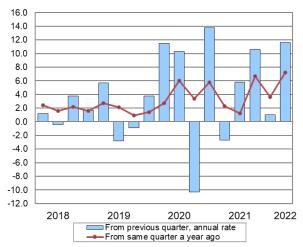


Chart 2. Unit labor costs, nonfarm business, 2018Q1 - 2022Q1



Unit labor costs in the nonfarm business sector increased 11.6 percent in the first quarter of 2022, reflecting a 3.2-percent increase in hourly compensation and a 7.5-percent decrease in productivity. Unit labor costs increased 7.2 percent over the last four quarters. (See chart 2 and table A1.) This is the largest four-quarter increase in this measure since an 8.2-percent increase in the third quarter of 1982. 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.

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. In the first quarter of 2022, while hours worked surpassed its fourth quarter 2019 level for the first time, output saw its first quarterly decrease since the historic declines in those measures in the second quarter of 2020. The hours worked index is now 0.9 percent above its fourth quarter 2019 level, the last quarter not

affected by the COVID-19 pandemic. The first-quarter 2022 output index is 3.5 percent above the level seen in the fourth quarter of 2019. The labor productivity index is 2.6 percent higher in first-quarter 2022 than in fourth-quarter 2019, corresponding to an annual labor productivity growth rate of 1.1 percent during that period. (See chart 3 and tables A1 and 2.)

Index (2019 Q4=100) 106 104 102 100 98 96 88 86 84 2020 Q2 2020 Q3 2019 Q4 2020 Q1 2020 Q4 2021 Q1 2021 Q2 2021 Q3 2021 Q4 2022 Q1 Output — Hours Worked

Chart 3. Output and Hours Worked index series, nonfarm business, 2019 Q4 - 2022 Q1

Manufacturing sector labor productivity increased 0.7 percent in the first quarter of 2022, as output increased 5.7 percent and hours worked increased 5.1 percent. In the durable manufacturing sector, productivity increased 1.4 percent, with a 7.9-percent increase in output and a 6.4-percent increase in hours worked. Nondurable manufacturing sector productivity increased 0.5 percent, with a 3.4-percent increase in output and a 2.9-percent increase in hours worked. Total manufacturing sector productivity increased 1.7 percent from the same quarter a year ago. (See tables A1, 3, 4, and 5.)

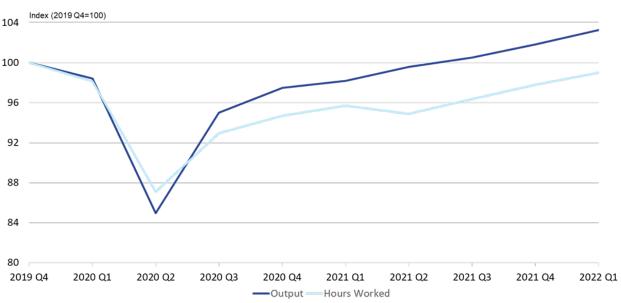


Chart 4. Output and Hours Worked index series, manufacturing, 2019 Q4 - 2022 Q1

Manufacturing sector output is now 3.3 percent above its level in the fourth quarter of 2019, the last quarter not affected by the COVID-19 pandemic. Hours worked in manufacturing remain 1.0 percent below the fourth-quarter 2019 level. The manufacturing labor productivity index is 4.3 percent higher in first-quarter 2022 than in fourth-quarter 2019, corresponding to an annual labor productivity growth rate of 1.9 percent during that period. This rate is much higher than the 0.2-percent average annual growth rate during the previous business cycle, from 2007 to 2019. (See chart 4.)

Unit labor costs in the total manufacturing sector increased 2.1 percent in the first quarter of 2022, reflecting a 2.8-percent increase in hourly compensation and a 0.7-percent increase in productivity. Manufacturing unit labor costs increased 1.8 percent from the same quarter a year ago. (See tables A1 and 3.)

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

Preliminary fourth-quarter and annual 2021 measures were announced today for the **nonfinancial corporate sector.** Productivity remained unchanged in the fourth quarter of 2021 compared to the previous quarter, as both output and hours worked increased 3.9 percent. From the fourth quarter of 2020 to the fourth quarter of 2021, nonfinancial corporate sector productivity increased 1.6 percent.

Table C1 presents **annual average changes** for the most recent 5 years for the nonfinancial corporate sector. **Nonfinancial corporate sector** productivity grew 4.5 percent in 2021, as output increased 9.6 percent and hours worked increased 4.9 percent. This is the largest annual increase in productivity for the nonfinancial corporate sector since 1959, when the measure increased 4.9 percent (See tables A2, C1, and 6.)

Revised measures

Hours and related measures for all sectors were revised to incorporate updated ratios of hours worked to hours paid by detailed industry, provided by the BLS National Compensation Survey. Indexes were subject to revision back to 2017; resulting revisions to percent changes were small. Measures of real hourly compensation for all sectors also were revised from 2017 forward due to the incorporation of the revised Consumer Price Index Retroactive Series. Measures of output for the manufacturing sectors incorporate revised annual benchmark data from 1987 to 2020 released March 24 by BLS.

Table B1 presents previous and revised productivity and related measures for the business, nonfarm business, and manufacturing sectors for the fourth quarter of 2021.

In the **fourth quarter of 2021**, nonfarm business sector productivity was revised down 0.3 percentage point to an increase of 6.3 percent, reflecting a 0.1-percentage point downward revision to output and a 0.1-percentage point upward revision to hours worked. Nonfarm business unit labor costs were revised up 0.1 percentage point to an increase of 1.0 percent. Total manufacturing sector productivity was revised down 0.5 percentage point to a decrease of 0.6 percent in the fourth quarter of 2021, reflecting a 0.4-percentage point downward revision to output and a 0.3-percentage point upward revision to hours worked. Unit labor costs in the manufacturing sector were revised up 0.3 percentage point to an increase of 1.7 percent during the fourth quarter of 2021. Labor productivity was revised down 1.0 percentage point in the durable manufacturing sector to an increase of 1.8 percent, and was also revised down 0.1 percentage point in the nondurable manufacturing sector to a decrease of 4.1 percent. (See table B1.)

Annual average rates of productivity growth in the nonfarm business and manufacturing sectors were not revised for 2021, and remain at 1.9 percent and 3.2 percent, respectively. (See tables 2 and 3.)

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/data-overview.htm.

The revised Productivity and Costs news release for first-quarter 2022 is scheduled to be released on Thursday, June 2, 2022 at 8:30 a.m. (ET).

Table A1. Labor productivity growth and related measures - preliminary first-quarter 2022
(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	Previous quarter	-7.5	-2.4	5.5	3.2	-5.5	11.6
	A year ago	-0.6	4.2	4.8	6.5	-1.4	7.2
Business	Previous quarter	-7.7	-2.3	5.8	3.0	-5.7	11.6
	A year ago	-0.6	4.0	4.6	6.7	-1.2	7.3
Manufacturing	Previous quarter	0.7	5.7	5.1	2.8	-5.9	2.1
_	A year ago	1.7	5.2	3.5	3.5	-4.2	1.8
Durable	Previous quarter	1.4	7.9	6.4	1.9	-6.7	0.5
manufacturing	A year ago	2.1	5.2	3.0	1.4	-6.1	-0.8
Nondurable	Previous quarter	0.5	3.4	2.9	4.2	-4.5	3.7
manufacturing	A year ago	0.9	5.2	4.2	7.6	-0.4	6.6

Т	able A2. Labor productivity growth and related measures - preliminary fourth-quarter 2021
(k	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	0.0	3.9	3.9	8.0	0.1	8.0
corporate	A year ago	1.6	6.3	4.6	6.1	-0.6	4.4

Table B1. Labor productivity growth and related measures - revised fourth-quarter 2021
(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	6.3	9.0	2.5	7.4	-0.5	1.0
	Previously published	6.6	9.1	2.4	7.5	-0.3	0.9
Business	Revised	6.3	8.9	2.4	7.6	-0.3	1.2
	Previously published	6.6	9.0	2.3	7.7	-0.2	1.0
Manufacturing	Revised	-0.6	5.4	6.1	1.1	-6.4	1.7
	Previously published	-0.1	5.8	5.8	1.3	-6.1	1.4
Durable	Revised	1.8	6.2	4.3	-0.9	-8.2	-2.7
manufacturing	Previously published	2.8	6.9	4.0	-0.6	-7.9	-3.3
Nondurable	Revised	-4.1	4.5	9.0	5.0	-2.7	9.5
manufacturing	Previously published	-4.0	4.5	8.8	5.1	-2.6	9.4

Table C1. Labor pro	able C1. Labor productivity growth and related measures - annual average changes: 2017-2021									
Sector	Year	Labor productivity	Output	Hours worked	Hourly compensation	Real hourly compensation	Unit labor costs			
Nonfinancial	2021	4.5	9.6	4.9	5.2	0.5	0.7			
corporate	2020	2.2	-4.2	-6.2	6.9	5.5	4.6			
	2019	1.4	2.3	0.9	3.9	2.1	2.5			
	2018	1.2	3.2	1.9	3.6	1.1	2.3			
	2017	1.4	2.8	1.4	3.6	1.5	2.2			

TECHNICAL NOTES

Labor Hours

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

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

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 private households (including owner-occupied housing). Corresponding exclusions also are made in labor hours worked. Business output accounted for about 76 percent of the value of GDP in 2021. Nonfarm business, which excludes farming, accounted for about 75 percent of GDP in 2021.

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 51 percent of the value of GDP in 2021.

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 the Handbook of Methods at www.bls.gov/opub/hom/msp/home.htm.

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

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

Year and quarter	s.	Labor produc- tivity	Output	Hours worked	Hourly compen- sation (1)	Real hourly compen- sation (2)	Unit labor costs	Unit nonlabor payments (3)	Implicit price deflator (4)
			Percent chan						
2022 I		-7.7	-2.3	5.8	3.0	-5.7	11.6	5.3	8.9
2021 AN	NUAL	1.9	7.2	5.2 r	5.6 r	0.9 r	3.6	5.8	4.5
2021 IV	7	6.3 r	8.9 r 1.8	2.4 r	7.6 r	-0.3 r	1.2 r	17.1 r	7.5
II	ΙΙ	-3.7	1.8	5.7	6.7	0.0 r	10.8	-0.1	6.2
II	[3.4	8.2 8.2	4.6 r	9.6	1.4 r	6.0	9.1	7.3
I		2.1	8.2	5.9 r	-0.4 r	-4.3 r	-2.5	17.2	5.1
2020 AN	NUAL	2.5 r	-4.2	-6.6 r	6.9	5.6 r	4.3	-4.8	0.4
2020 IV	7	-3.4 r	6.1 44.7 -36.8	9.8 r	9.9 r	7.5 r	13.8	-13.7	1.6
II	ΙΙ	7.3 r	44.7	34.9	-3.8 r	-8.2	-10.4	32.5 r	5.1
II	Ī.	9.3 r	-36.8	-42.2 r	20.8 r	25.0 r	10.6	-23.1	-4.6
I		-1.8 r	-6.8	-5.1 r	8.6 r	7.2 r	10.6	-12.8 r	0.0
			ercent change						
2022 I		-0.6	4.0	4.6	6.7	-1.2	7.3	7.7	7.5
2021 AN	NUAL	1.9	7.2	5.2 r	5.6 r	0.9 r	3.6	5.8	4.5
2021 IV	7	2.0	6.7 r 6.0	4.7	5.8	-0.8	3.8 r	10.6	6.5
II	ΙΙ	-0.5	6.0	6.5 r	6.4 r	1.1 r	6.8	2.5	5.0
II	[2.3 r	15.8 1.2	13.2 r	3.6	-1.1 r	1.3	10.0	4.7
I		3.7 r	1.2	-2.4 r	6.2 r	4.2 r	2.4	0.7	1.7
			-4.2						
2020 IV	7	2.7 r	-2.5 -3.5 -11.3	-5.0	8.5 r	7.2 r	5.7	-6.4	0.5
II	ΙΙ	3.9	-3.5	-7.1	7.3	6.0 r	3.3 r	-3.3	0.4
II	[2.4 r	-11.3	-13.4 r	8.4	7.9	5.9	-9.2	-0.6
I		1.0	0.3	-0.7	3.6	1.5	2.6	-0.6	1.2
					exes 2012=10				
2022 I		111.2	126.5	113.8	140.5	113.2	126.4	114.3	121.1
2021 AN	INUAL	112.5 r	124.4 r	110.6 r	135.8 r	114.9 r	120.7 r	109.0 r	115.6 r
2021 IV			127.3 r						118.5 r
II	II :	111.8 r	124.6	111.5 r					116.4
II	[:	112.8 r	124.1	110.0 r	134.8 r	115.0 r	119.5 r		114.6
I		111.9 r	121.6	108.7 r	131.7 r	114.6 r	117.7 r	106.1 r	112.6
2020 AN	INUAL	110.4 r	116.0	105.1 r	128.6 r	113.9 r	116.5 r	103.1 r	110.6
2020 IV	7	111.3 r	119.3	107.2 r	131.9 r	115.8 r	118.5 r	102.0 r	111.3
II		112.3 r	117.5	104.7 r	128.8 r	113.8 r			110.8
II		110.3 r	107.2	97.2 r	130.1 r	116.2 r		98.6 r	109.5
I		107.9 r	107.2 120.2	111.4 r	130.1 r 124.1 r	109.9 r	115.0 r	98.6 r 105.3 r	110.8

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

Year and quarte	er	Labor produc- tivity	Output	Hours worked	compen- sation	Real hourly compen- sation (2)	Unit labor costs	Unit nonlabor payments (3)	price deflator
			Percent chan						
2022	I	-7.5	-2.4	5.5	3.2	-5.5	11.6	3.5	8.2
2021	ANNUAL	1.9	7.4	5.4	5.4	0.7	3.5	4.8 r	4.0
2021	IV	6.3 r	9.0 r	2.5 r	7.4 r	-0.5 r	1.0 r	18.4 r	7.8
	III	-3.9	9.0 r 2.0	6.2	6.3 r	-0.4	10.6	-0.4	6.0
	ΙΙ	3.2	8.5 8.4	5.1	9.2	1.1 r	5.8	6.6	6.1
	I	2.2 r	8.4	6.1 r	-0.6	-4.5 r	-2.7	16.5	4.6
2020	ANNUAL	2.4	-4.4	-6.7 r	7.0	5.7	4.5	-4.9	0.4
2020	IV	-2.8	6.2	9.2 r	10.6 r	8.2 r	13.8 r	-15.3	0.9
	III	6.2 r	44.6	36.2 r	-4.7 r	-9.1	-10.3	31.3	4.7
	ΙΙ	10.3 r	44.6 -36.9	-42.7	21.6 r	25.8 r	10.3	-21.6	-3.9
			-7.4						0.2
			rcent change						
2022	I	-0.6	4.2	4.8	6.5	-1.4	7.2	6.8	7.0
2021	ANNUAL	1.9	7.4	5.4	5.4	0.7	3.5	4.8 r	4.0
2021	IV	1.9	6.9 r 6.2	4.9	5.5	-1.1	3.6 r	10.0	6.1
	III	-0.4	6.2	6.6 r	6.3 r	1.0 r	6.7	1.2	4.4
	II	2.2 r	15.9 1.3	13.5	3.4	-1.3 r 4.3 r	1.2	8.4	4.1
	I	3.9 r	1.3	-2.5 r	6.2	4.3 r	2.3	0.4	1.5
2020	ANNUAL	2.4	-4.4	-6.7 r	7.0	5.7	4.5	-4.9	0.4
2020	IV	2.7 r	-2.7	-5.2 r	8.6	7.3	5.8	-6.8	0.4
		3.7	-3.7	-7.1	7.3 r	6.0 r	3.4	-3.3	0.5
	II	2.5	-11.5	-13.6	8.7	6.0 r 8.2	6.0	-9.0	-0.4
	I	0.9	0.2	-0.7	3.7	1.6 r	2.7	-0.8	1.2
					exes 2012=10				
2022	I	111.0	126.4	113.9	140.7	113.3	126.7	113.7	121.0
2021	ANNUAL	112.2 r	124.2 r	110.7 r	136.0 r	115.0 r	121.2 r	108.9 r	115.8 r
2021	IV	113.2 r	127.2 r	112.4 r	139.5 r	114.9 r	123.3 r	112.7 r	118.7 r
		111.4 r			137.1 r	115.0 r	123.0 r	108.0 r	116.5
	II	112.6 r	123.9	110.0 r	135.0 r	115.2 r	119.9 r		114.8
	I	111.7 r	121.4	108.7 r				106.4 r	113.1
2020	ANNUAL	110.1 r	115.7	105.1 r	128.9 r	114.1 r	117.1 r	103.8 r	111.3
2020	IV	111.1 r	118.9	107.1 r	132.2 r	116.2 r	119.1 r	102.4 r	111.8
			117.2		129.0 r				111.6
		110.2 r	106.9	97.0 r	130.5 r	116.7 r	118.5 r	99.8 r	110.3
	I	110.2 r 107.5 r	119.9	111.5 r	130.5 r 124.3 r	110.7 r	115.6 r	99.8 r 106.0 r	111.4
a			m - 1- 1 - C					3.6	

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

Year and quarter	Labor produc- tivity	Output	Hours worked	Hourly compensa- tion (1)	Real hourly compensa- tion (2)	labor costs
				at annual rate		
2022 I	0.7	5.7	5.1	2.8	-5.9	2.1
2021 ANNUAL	3.2	6.5	3.2 r	4.0	-0.7 r	0.8 r
2021 IV	-0.6 r	5.4 r	6.1 r	1.1 r	-6.4 r	1.7 r
III	-2.5 r	3.8	6.4	-0.8	-7.0	1.7
II	9.5	5.8	-3.3	11.3 r	2.9 r	1.6
I	-1.2	2.9	4.2	0.2	-3.8 r	1.4
Τ	-1.2	2.9	4.2	0.2	-3.0 1	1.4
2020 ANNUAL	0.2 r	-6.7 r	-6.8	7.0 r	5.7 r	6.8 r
2020 IV	2.9	11.0	7 0	10 3	7.9 r	7.2 r
		11.0	7.8 29.9	10.3 -11.4	7.9 I	
III	20.3	56.2	29.9	-11.4	-15.4	-26.3
II		-44.5	-38.0	27.2 r	31.5 r	41.9
I	1.2 r	-6.2 r	-7.3 r	8.0 r	6.6 r	6.7 r
				ter of previous		
2022 I	1.7	5.2	3.5	3.5	-4.2	1.8
2021 ANNUAL	3.2	6.5	3.2 r	4.0	-0.7 r	0.8 r
2021 IV	1.2 r	4.5 r	3.3 r	2.8 r	-3.6	1.6 r
III	2.1	5.8	3.7	5.1	-0.2	2.9
II	7.6	17.2	9.0	2.2	-2.5	-5.0
I	2.3	-0.2	-2.5	5.6	3.7 r	3.2
2020 ANNUAL	0.2 r	-6.7 r	-6.8	7.0 r	5.7 r	6.8 r
2020 IV	2.9 r	-2.5 r	-5.3	7.6	6.3	4.6 r
III	1.9	-5.4	-7.2 r	6.9	5.6 r	5.0 r
ΙΙ	-3.0	-15.5 r	-12.9	10.0	9.5	13.4 r
I	-1.3 r	-3.1 r	-1.9	3.7	1.6	5.1 r
			 ndexes 2012=100			
2022 I	98.8	103.8	105.1	130.3	104.9	131.8
2021 ANNUAL	98.5 r	100.6 r	102.1 r	128.4 r	108.6 r	130.3 r
2021 IV	98.6 r	102.4 r	103.8 r	129.4 r	106.5 r	131.2 r
III	98.8 r	101.0 r	102.3 r	129.0 r	108.3 r	130.6 r
II						
		100.1 1	100.7 1	129.3 r	100 5	100 - 1
I	97.2 r	98.7 r	101.6 r	125.9 r	109.5 r	129.5 r
2020 ANNUAL	95.4 r	94.5 r	99.0 r	123.5 r	109.3 r	129.4 r
2020 IV	97.5 r	98.0 r	100.5 r	125.8 r	110.5 r	129.1 r
III	96.8 r	95 5 r	98 7 r	122.8 r	108.5 r	126.9 r
II	96.8 r 92.4 r	95.5 r 85.4 r	98.7 r 92.4 r	122.8 r 126.6 r	108.5 r 113.1 r	136.9 r
	J∠.4 L 05 0 ~	00 0 ~	104 2 ~	110 0	105.6 r	10.5
	93.U I	30.9 T	104.2 1	119.2 r	T03.0 T	123.3 [
	following Tabl					fav 5 2022

See footnotes following Table 6.

r=revised

May 5, 2022 Source: Bureau of Labor Statistics

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

Year and		Labor produc-	0.1	Hours	Hourly compensa-		Unit labor
quar			Output 		tion (1)		costs
		Percent	change from p	revious quarter	at annual rate	(5)	
2022	I	1.4	7.9	6.4	1.9	-6.7	0.5
2021	ANNUAL	5.6 r	8.6 r	2.9 r	3.4 r	-1.2	-2.0 r
2021	IV	1.8 r	6.2 r	4.3 r	-0.9 r	-8.2 r	-2.7 r
	III	-0.8	7.1	8.0	-8.2	-14.0	-7.5
	ΙΙ	6.3	-0.2	-6.1	13.9	5.4 r	7.2
	I	0.5 r	6.6 r	6.1 r	1.2	-2.8 r	0.7
2020	ANNUAL	0.1 r	-8.0 r	-8.2 r	7.0	5.7 r	6.9 r
2020	IV	5.1 r	11.4 r	5.9	12.3	9.9 r	6.9 r
	III	46.7 r	99.1 r	35.7	-15.4	-19.3 r	-42.3 r
	II	-20.0 r		-42.5 r	28.9 r	33.4 r	61.2 r
	I			-8.0 r	7.4 r		
					ter of previous		
2022	I	2.1	5.2	3.0	1.4	-6.1	-0.8
2021	ANNUAL	5.6 r	8.6 r	2.9 r	3.4 r	-1.2	-2.0 r
2021	T 1/7	1.9 r	4.9 r	2.9	1.2 r	-5.2 r	-0.7 r
2021	III	2.7	6.2 r	3.3	4.4	-0.8	1.6 r
	II	13.3 r	23.9 r	9.4	2.3	-2.4	-9.7 r
	I	5.5 r	2.1 r	-3.2	5.5	3.6 r	0.0 r
2020	ANNUAL	0.1 r	-8.0 r	-8.2 r	7.0	5.7 r	6.9 r
2020	T17	4.8 r	-2.1 r	-6.6	7.1 r	5.8	2.2 r
2020	III	3.4 r	-5.2 r	-8.3 r	6.7 r	5.4 r	3.2 r
	II	-6.2 r	-20.4	-15.1 r	10.8	10.3	18.2 r
	I	-1.8 r	-4.5 r	-2.8 r	4.0 r	1.8	5.9 r
				dexes 2012=100			
2022	I	103.2	106.9	103.5	128.4	103.4	124.4
2021	ANNUAL	102.3 r	102.8 r	100.5 r	128.4 r	108.6 r	125.5 r
2021	T17	102.9 r	104.8 r	101.9 r	127.8 r	105 2 ~	124.2 r
2021	III	102.9 r 102.4 r	104.8 r 103.3 r	101.9 r 100.8 r	127.8 r 128.1 r	105.2 r 107.5 r	124.2 r 125.1 r
	II				130.9 r		
	I	101.1 r	101.5 r			110.2 r	127.3 r
	1	101.1 1	101.5 1	100.5 1	120.7 1	110.2 1	123.4 1
2020	ANNUAL	96.8 r	94.6 r	97.7 r	124.1 r	109.9 r	128.2 r
2020	IV	100.9 r	99.9 r		126.3 r		125.1 r
	III	99.7 r			122.7 r		123.1 r
	II	90.6 r	81.9 r	90.4 r	128.0 r	114.3 r	141.3 r
	I				120.1 r		

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

Year and quart		Labor produc- tivity	Output	Hours worked	Hourly compensation (1)	Real hourly compensa- tion (2)	Unit labor costs
		Percen ⁻			at annual rate		
2022	I	0.5	3.4	2.9	4.2	-4.5	3.7
2021	ANNUAL	0.5 r	4.1 r	3.6	5.1	0.4	4.6 r
2021	TV	-4.1 r	4.5	9.0 r	5.0 r	-2.7 r	9.5 r
	III	-3.5 r	0.3	3.8	14.1	6.9	18.2 r
	II	11.4	12.9	1.3	7.2	-0.8 r	-3.8
	I	-2.2	-1.1	1.1	-2.2	-6.0 r	0.0
2020	ANNUAL	-0.4 r	-4.9 r	-4.5	7.3	6.0 r	7.7 r
2020	Т17	-0.3 r	10.6 r	10.9 r	7 0	4.7 r	7.3 r
2020	III	-0.3 r	20.8 r	21.0 r	7.0 -4.4	-8.8 r	-4.3 r
	II	-3.2 r		-30.0 r	26.3 r		30.5 r
	I	4.9 r	-1.5 r	-6.1	9.5 r	8.1 r	4.4 r
					ter of previous		
2022	I	0.9	5.2	4.2	7.6	-0.4	6.6
2021	ANNUAL	0.5 r	4.1 r	3.6	5.1	0.4	4.6 r
2021	IV	0.2 r	4.0	3.8 r	5.9	-0.8 r	5.6
	III	1.2 r	5.5 r	4.2	6.4	1.1 r	5.1 r
	II	2.1 r	10.5 r	8.3	1.8	-2.9	-0.3 r
	I	-1.5 r	-2.7 r	-1.3	6.0	4.1 r	7.6 r
2020	ANNUAL	-0.4 r	-4.9 r	-4.5	7.3	6.0 r	7.7 r
2020	IV	0.3 r	-2.8 r	-3.1	9.1 r	7.8 r	8.8 r
	III	-0.3 r	-5.6 r	-5.3	7.6	6.3	8.0 r
	II	-0.7	-9.9 r	-9.2	9.1	8.6	9.9 r
	I	-0.9 r	-1.3 r	-0.4	3.6	1.4	4.5 r
				idexes 2012=100			
2022	I	97.3	104.9	107.8	134.1	108.0	137.8
2021	ANNUAL	97.7 r	102.4 r	104.8 r	128.9 r	109.0 r	131.9 r
2021	IV	97.2 r	104.0 r	107.0 r	132.7 r	109.3 r	136.6 r
-	III	98.2 r	102.9 r	104.8 r	131.1 r	110.0 r	133.5 r
		99.1 r	102.8 r	103.8 r	126.9 r	108.2 r	128.1 r
	I	96.4 r	99.7 r			108.4 r	129.3 r
2020	ANNUAL	97.2 r	98.3 r	101.1 r	122.6 r	108.6 r	126.1 r
2020	IV	97.0 r	100.0 r	103.2 r	125.4 r	110.1 r	129.3 r
-	III	97.0 r			125.4 r 123.2 r 124.7 r	108.9 r	127.0 r
	II	97.1 r	97.5 r 93.0 r	100.5 r 95.8 r			128.4 r
	I	97.9 r	102.5 r	104.8 r	117.6 r	104.2 r	120.1 r

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

Year and quart		Labor produc- tivity			Hourly compen- sation (1)	sation (2)	labor costs	(6)	costs (7)	profits (8)	Implicit price deflator (4)
					from previo						
2021	ANNUAL	4.5	9.6	4.9	5.2	0.5	0.7	4.8	1.8	23.0	4.6
2021	IV	0.0	3.9	3.9	8.0	0.1	8.0	25.2	12.8	-2.7	10.2
	III II	1.8 1.6 r	6.7 5.7	4.8 4.1	9.2 r 9.3 r	2.3 1.1 r	7.2 7.6	14.4 -14.4	9.3 0.7	0.4 58.8	7.8 7.9
	I		8.9		-1.8			18.7		30.0	5.1
2020	ANNUAL	2.2 r	-4.2	-6.2	6.9 r	5.5	4.6	-10.6	-0.2	2.4	0.1
2020		17.1 r	28.4	9.6 r	8.4	6.1 r	-7.4	53.3	6.3	-31.4	-0.2
	III II	-0.3 r 2.7 r	31.7 -39.0	32.1 r -40.6 r	-5.2 r 23.7 r	-9.5 28.0 r	-4.9 20.5	-21.4 -49.3	-9.6 -6.5	206.1 -9.1	6.2 -6.8
	I	0.7	-3.3	-4.0 r				4.2	5.8	-35.4	-0.4
2019	ANNUAL	1.4	2.3	0.9	3.9	2.1	2.5	1.9	2.3	-1.2	1.9
2019		2.0 r	2.2	0.2 r	4.6 r	2.1 r		-2.7	0.8	8.8	1.8
	III II	0.5 0.8	1.1 1.6	0.6 0.8	1.0 1.7	-0.5 r -1.4 r	0.5 1.0	5.3 1.7	2.0 1.2	2.6 13.3	2.1 2.6
	I	2.5	3.4	0.9	7.8	6.7 r	5.2	3.2	4.6	-31.2	-1.0
					om correspo						
2021	ANNUAL	4.5	9.6	4.9	5.2	0.5	0.7	4.8	1.8	23.0	4.6
2021		1.6	6.3	4.6	6.1	-0.6	4.4	9.9	5.9	19.2	7.7
	III	5.7 5.2 r	12.1 18.1	6.0 r 12.3 r	6.2 r 2.5 r	0.9 r -2.2	0.4 -2.5	15.5 5.2	4.4 -0.4	9.2 44.3	5.1 4.7
	I	5.5 r	3.0	-2.4 r	5.7	3.8 r	0.2	-7.7	-2.3	25.5	1.0
2020	ANNUAL	2.2 r	-4.2	-6.2	6.9 r	5.5	4.6	-10.6	-0.2	2.4	0.1
2020		4.8	-0.1	-4.7 r	8.1 r	6.8 r	3.1	-10.7	-1.2	5.4	-0.4
	III II	1.3 r 1.5 r	-5.6 -11.6	-6.8 r -12.9	7.1 8.8	5.8 r 8.4 r	5.8 7.3	-20.3 -14.2	-2.5 0.4	18.3 -10.0	0.1 -0.9
	I	1.0	0.4	-0.6	3.7 r	1.5	2.6	2.1	2.4	-4.9	1.5
2019	ANNUAL	1.4	2.3	0.9	3.9	2.1	2.5	1.9	2.3	-1.2	1.9
2019		1.4	2.1	0.6	3.7	1.7	2.3	1.8	2.1	-3.4	1.4
	III II	1.0	1.7 3.0	0.7	3.4 4.4	1.6 2.5	2.4	3.2 1.1	2.6 1.9	-2.4 0.8	2.0 1.7
	I	0.9	2.3	1.4	4.1	2.5	3.2	1.4	2.6	0.6	2.3
					Indexes						
2021	ANNUAL	113.2	124.6	110.1	137.6	116.4	121.6	100.9	114.7	124.2	116.1
2021	IV	113.5	126.9	111.8	141.9 139.2 r	116.8	125.0	106.0	118.7	127.0	119.9
	III	113.5 r	125.7	110.8 r	139.2 r	116.8 r	122.6	100.2			
	I	113.0 r 112.6 r	122.0	109.5 r 108.4 r	136.1 r 133.1 r	116.1 r 115.8 r	118.3	100.7		127.8 113.8	
2020	ANNUAL	108.3 r	113.7	105.0 r	130.8 r	115.8 r	120.8	96.3	112.6	100.9	111.0
			119.4	106.9 r	133.7 r	117.5 r	119.8			106.6	
		107.4 r	112.2	104.5 r	131.1 r	115.8 r	122.1			117.2	
	I	107.4 r 106.7 r		97.5 r 111.0 r	132.8 r 125.9 r		123.6 118.0			88.6 90.7	109.6 111.6
2019	ANNUAL	106.0 r	118.7	112.0 r	122.4 r	109.7 r	115.5	107.7	112.9	98.5	110.8
2019	IV	106.5 r	119.5	112.2 r	123.7 r	110.0 r	116.1	108.0	113.4	101.2	111.7
	III	106.0 r	118.8	112.1 r	122.3 r	109.4 r	115.4	108.7	113.2	99.1	111.2
	II	105.9 r	118.5	111.9 r	122.0 r	109.5 r	115.3	T07.3	112.6	98.4	TT0.6

See footnotes following Table 6.

r=revised

May 5, 2022 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.

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 fourth quarter of 2021. For more about revisions to labor productivity growth see "How large are revisions to estimates of quarterly labor productivity growth?" at www.bls.gov/osmr/research-papers/2021/ec210040.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 1978-2021 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.