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information: (202) 691-5606 Current data: (202) 691-5200 Media contact: (202) 691-5902

PRODUCTIVITY AND COSTS Fourth Quarter and Annual Averages, 2001

The Bureau of Labor Statistics of the U.S. Department of Labor today reported revised fourth-quarter seasonally-adjusted annual rates of productivity change--as measured by output per hour of all persons-and revised annual changes for the full year 2001. Percent changes in business and nonfarm business productivity were:

	Fourth	Annual averages
	quarter	2000-2001
Business sector	5.1	1.9
	5.1	1.9
Nonfarm business sector	5.2	1.9

In both sectors, fourth-quarter productivity was higher than originally reported due to upward revisions to the output measures. Fourth-quarter productivity and related measures are summarized in table A and appear in detail in tables 1 through 5; the preliminary and revised fourth-quarter and annual data appear in table C.

In the manufacturing sector, increases in productivity were:

	Fourth quarter	Annual averages 2000-2001
Manufacturing	4.1	1.1
Durable goods manufacturing	2.7	0.5
Nondurable goods manufacturing	5.2	1.6

Manufacturing productivity rose 4.1 percent (seasonally adjusted annual rate) in the fourth quarter. This increase was higher than originally reported, reflecting upward revisions to output per hour in both the durable and nondurable goods manufacturing subsectors. (Output and hours in manufacturing, which includes about 16 percent of U.S. business-sector employment, tend to vary more from quarter to quarter than data for the more aggregate business and nonfarm business sectors.)

Table A. Productivity and costs: Revised fourth-quarter 2001 measures (Seasonally adjusted annual rates)

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Sector	Produc- tivity	Output	Hours	-	compen-	labor
	Percen	t change	from pre	eceding qua	arter	
Business Nonfarm business Manufacturing Durable Nondurable	4.1	1.2 -6.7 -9.8	-3.8 -10.4 -12.3	2.3 2.5 3.6	2.6 2.8 3.9	-2.7 -1.5 0.8
	Percen	t change	from sam	ne quarter	a year ag	0
Business Nonfarm business Manufacturing Durable Nondurable	0.8	-0.1 -6.2 -8.4	-2.1 -7.0	4.5	2.0 2.6 3.2	1.8 3.6 5.0

The data sources and methods used in the preparation of the manufacturing series differ from those used in preparing the business and nonfarm business series, and these measures are not directly comparable. Output data for business and nonfarm business are based on measures of gross domestic product prepared by the Bureau of Economic Analysis of the U.S. Department of Commerce. Quarterly output measures for manufacturing reflect indexes of industrial production independently prepared by the Board of Governors of the Federal Reserve System. See Technical Notes for further information on data sources.

THIRD-TO-FOURTH QUARTER 2001 CHANGES

Business

Business sector productivity rose 5.1 percent (seasonally adjusted annual rate) in the fourth quarter of 2001, as output increased 1.3 percent and hours of all persons engaged in the sector decreased 3.6 percent (table 1). The fourth-quarter decrease in hours was the largest since the first quarter of 1991, when hours fell 4.6 percent. During third-quarter 2001, productivity had increased 0.7 percent as output declined 2.3 percent and hours fell 2.9 percent.

Hourly compensation grew at a 2.2-percent annual rate in the fourth quarter, compared with a 3.3-percent rise in the third quarter. This measure includes wages and salaries, supplements, employer contributions to employee-benefit plans, and taxes. Real hourly compensation, which takes into account changes in consumer prices, rose 2.5 percent in both the third and fourth quarters of 2001.

Unit labor costs, which reflect changes in both hourly compensation and productivity, decreased 2.7 percent during the fourth quarter. The implicit price deflator for business output, which reflects changes in unit labor costs and unit nonlabor payments, decreased 1.4 percent in the fourth quarter. This measure rose 1.9 percent during the third quarter.

Nonfarm business

In the nonfarm business sector, productivity rose at an annual rate of 5.2 percent in the fourth quarter of 2001, as output grew 1.2 percent and hours of all persons--employees, proprietors, and unpaid family workers--fell 3.8 percent (seasonally adjusted annual rates). During the third quarter, productivity had increased 1.1 percent, output had decreased 2.3 percent, and hours had declined 3.4 percent (table 2).

Hourly compensation rose 2.3 percent in the fourth quarter. This was the smallest increase in this measure since the second quarter of 1997, when hourly compensation increased 1.4 percent. When the increase in consumer prices was taken into account, real hourly compensation rose 2.6 percent in the fourth quarter of 2001.

Unit labor costs fell 2.7 percent in the fourth quarter, after rising 2.6 percent in the third quarter. The implicit price deflator for nonfarm business edged down 0.6 percent in the fourth quarter, as a 3.4 percent increase in unit nonlabor payments offset much of the decline in unit labor costs.

Manufacturing

Manufacturing productivity rose 4.1 percent (seasonally adjusted annual rate) in the fourth quarter of 2001, as output fell 6.7 percent and hours dropped by 10.4 percent (table 3). Productivity rose in both of the manufacturing subsectors. In durable goods, productivity increased 2.7 percent, reflecting declines of 9.8 percent in output and 12.3 percent in hours. In nondurable goods, productivity grew 5.2 percent, reflecting a 2.6-percent drop in output and a 7.5-percent decline in hours (tables 4 and 5). The 9.8-percent decline in durable goods output was the largest since a 14.5-percent drop in the first quarter of 1991. Similarly, the last time hours fell more than 12.3 percent in durable goods was the third quarter of 1982, when they declined by 13.2 percent.

Hourly compensation of all manufacturing workers increased 2.5 percent during the fourth quarter, rising in both of the manufacturing subsectors--3.6 percent in durable goods and 1.2 percent in nondurable goods. When the increase in consumer prices was taken into account, real hourly compensation for all manufacturing workers rose 2.8 percent in the fourth quarter.

Unit labor costs in manufacturing fell 1.5 percent in the fourth quarter of 2001, reflecting differing trends in the two subsectors. Unit labor costs rose 0.8 percent in durable goods manufacturing and declined 3.8 percent in nondurable goods manufacturing. This was the second consecutive decline in unit labor costs for nondurable goods which fell 0.1 percent in the third quarter of 2001.

ANNUAL AVERAGE CHANGES, 2000-2001

Business

In calendar year 2001, business sector productivity increased 1.9 percent, after having increased 3.4 percent in 2000 (table 1). Output grew 0.9 percent in 2001 and 4.6 percent in 2000. Hours of all persons in the business sector fell 1.0 percent in 2001.

Table B. Productivity and costs: Revised 2001 annual averages (Seasonally adjusted annual rates)

Sector	Produc- tivity	Output	Hours	Hourly compen- sation	Real hourly compen- sation	Unit labor costs
	Percent	change fro	om previo	ous year		
Business Nonfarm business Manufacturing Durable Nondurable	1.9 1.9 1.1 0.5 1.6	0.9 0.9 -4.3 -5.4 -2.9	-1.0 -0.9 -5.3 -5.9 -4.4	5.9 5.8 7.3 7.9 6.4	3.0 2.8 4.4 5.0 3.4	3.9 3.8 6.2 7.4 4.7

Hourly compensation increased 5.9 percent in 2001, after having increased 6.4 percent in 2000. Real hourly compensation increased 3.0 percent in both 2000 and 2001. Calendar year 2001 was the sixth consecutive year of growth in real hourly compensation, following three years of declines (1993-95).

Unit labor costs increased 3.9 percent in 2001, more than in any year since 1990, when unit labor costs rose 4.3 percent. The implicit price deflator rose 1.8 percent in 2001, compared with a 1.9-percent increase in 2000.

Nonfarm business

Productivity increased 1.9 percent in the nonfarm business sector during 2001; output grew 0.9 percent and hours of all persons fell 0.9 percent. As in the business sector, this was the first annual decline in hours since 1992, when hours edged down 0.2 percent. In 2000, productivity rose 3.3 percent, as output grew 4.5 percent and hours of all persons rose 1.1 percent.

Hourly compensation grew 5.8 percent in 2001, compared with a 6.5-percent increase in 2000. Real hourly compensation increased 2.8 percent in 2001, following a 3.1-percent gain the previous year.

Unit labor costs in the nonfarm business sector rose 3.8 percent in 2001, more than the 3.1-percent increase posted in 2000. The implicit price deflator, which reflects nonlabor payments as well as labor costs, rose 1.7 percent in 2001, following a 2.0-percent rise in 2000.

Manufacturing

Manufacturing productivity grew 1.1 percent in 2001, the smallest increase since a 0.1-percent rise in 1989. Output fell 4.3 percent in 2001, and hours of all persons working in the sector dropped 5.3 percent. Labor productivity increased 0.5 percent in durable goods manufacturing, reflecting declines of 5.4 percent in output and 5.9 percent in hours. In nondurable goods manufacturing, productivity rose 1.6 percent in 2001, output fell 2.9 percent, and hours declined 4.4 percent (tables B, 3, 4, and 5).

Hourly compensation of manufacturing workers increased 7.3 percent in 2001, somewhat faster than the 7.0 percent increase a year earlier. Real hourly compensation rose 4.4 percent in 2001, the largest increase since 1956 (when it rose 4.9 percent). The hourly compensation increases in the two subsectors were 7.9 percent in durable goods and 6.4 percent in nondurable goods.

Unit labor costs grew 6.2 percent in manufacturing. In durable goods, unit labor costs rose 7.4 percent in 2001, after declining in each of the previous nine years. Unit labor costs also rose in nondurable goods industries last year, by 4.7 percent.

REVISED MEASURES

Productivity and cost data for the fourth-quarter and full-year 2001 for business, nonfarm business, and manufacturing were revised to incorporate the most recent information (table C). In the business and nonfarm business sectors, changes in productivity and output are higher--and decreases in unit labor costs are greater--than those reported on Feb. 6, based on information available at that time. Fourth-quarter measures of manufacturing productivity also were revised up from those reported on Feb. 6, reflecting a smaller decline in output than originally reported. As a result, unit labor costs in manufacturing showed a larger drop than originally reported. Annual measures of productivity and costs are similar to those reported on Feb. 6. Measures of real hourly compensation in the business, nonfarm business, and manufacturing sectors for 2001 were revised to incorporate the annual recalculation of seasonal factors for the Consumer Price Index.

Table C. Previous and revised productivity and related measures: Fourth-quarter and annual averages 2001 (Seasonally adjusted annual rates)

Real Hourly hourly Unit
Produc- compen- compen- labor
tivity Output Hours sation sation costs Sector ______ Percent change, third to fourth quarter 2001 previous 5.1 Business: 3.4 -0.3 -3.6 2.3 2.7 -1.1 5.1 1.3 -3.6 2.2 2.5 -2.7 Nonfarm business:

 Previous
 3.5
 -0.4
 -3.7
 2.3
 2.8
 -1.1

 Current
 5.2
 1.2
 -3.8
 2.3
 2.6
 -2.7

 Current
Manufacturing:
Previous 3.5 -7.2 -10.4
Current 4.1 -6.7 -10.4 2.6 3.0 2.5 2.8 -0.9 ______ Percent change, 2000 - 2001 Business: Previous 1.8 0.8 -1.0 6.0 3.0 1.9 0.9 -1.0 5.9 3.0 4.0 Current 3.9 Nonfarm business:

 Previous
 1.8
 0.8
 -0.9
 5.8
 2.8

 Current
 1.9
 0.9
 -0.9
 5.8
 2.8

 3.9 3.8 Manufacturing:

 1.0
 -4.3
 -5.3
 7.3
 4.4
 6.2

 1.1
 -4.3
 -5.3
 7.3
 4.4
 6.2

 Previous Current ______

NEXT RELEASE DATE

The next release of Productivity and Costs is scheduled for 8:30 AM EDT, Tuesday, May 7, 2002, and will present preliminary first-quarter measures for business, nonfarm business, and manufacturing. Fourth-quarter and annual data for nonfinancial corporations will be released at that time.

TECHNICAL NOTES

Labor Hours: Hours data for the labor productivity and costs measures include hours 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. The CES also provides average weekly paid hours of production and nonsupervisory workers in these establishments. Average weekly paid hours of nonproduction and supervisory workers are estimated by the Office of Productivity and Technology. Weekly paid hours are adjusted to hours at work using the BLS Hours at Work survey, conducted for this purpose.

Data from the BLS Current Population Survey (CPS) are used for farm labor; in the nonfarm sector, the National Income and Product Accounts (NIPA) prepared by the Bureau of Economic Analysis (BEA) of the Department of Commerce and the CPS are used to measure labor input for government enterprises, proprietors, and unpaid family workers.

Output: Business sector output is an annual-weighted index constructed after excluding from gross domestic product (GDP) the following outputs: General government, nonprofit institutions, paid employees of private households, and the rental value of owner-occupied dwellings. Corresponding exclusions also are made in labor inputs. Business output accounted for about 77 percent of the value of GDP in 1996. Nonfarm business, which also excludes farming, accounted for about 76 percent of GDP in 1996.

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 BEA. These deflators are based on data from the BLS producer price 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 index 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. Durables include the following 2-digit SIC industries: Primary metal industries; fabricated metal products; nonelectrical machinery; industrial and commercial machinery and computer equipment; electronic and other electrical equipment; transportation equipment; instruments; lumber and lumber products; furniture and fixtures; stone, clay, and glass and concrete products; and miscellaneous manufactures. Nondurables include: Food and kindred products, tobacco products, textile mill products, apparel products, paper and allied products, printing and publishing, chemicals and chemical products, petroleum refining and related industries, rubber and plastic products, and leather and leather products.

Nonfinancial corporate output is an annual-weighted index constructed by excluding from GDP the following outputs: General government; nonprofit institutions; employees of private households; the rental value of owner-occupied dwellings; unincorporated business; and those corporations which are depository institutions, nondepository institutions, security and commodity brokers, insurance carriers, regulated investment offices, small business investment offices, and real estate investment trusts. Nonfinancial corporations accounted for about 53 percent of the value of GDP in 1996.

Productivity: These productivity measures describe the relationship between real output and the labor time involved in its production. They show the changes from period to period in the amount of goods and services produced per hour. Although these measures relate output to hours at work of all persons engaged in a sector, they do not measure the specific contribution of labor, capital, or any other factor of production. Rather, 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.

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: Productivity, hourly compensation, unit labor costs, and prices, seasonally adjusted $\,$

	d	Output per hour of all persons		of all	Compensa- tion per	tion per	labor	Unit non- labor pay- ments (3)	price
		all persons							
				Inde	xes 1992=100				
999	I	112.7	132.4	117.4	123.1	106.6	109.2	114.5	111.2
	II		132.9	118.2		106.9	110.7		111.4
	III		134.6	118.8	126.1		111.3		111.7
	IV	115.3	137.8	119.5	127.3	107.7	110.4	114.8	112.0
	ANNUAL	113.4	134.4	118.5	125.2	107.3	110.4	113.6	111.6
000	I		138.6	120.2	129.3	108.4	112.2		112.9
	II		140.8	119.8	132.1	110.0	112.5		113.5
	III	117.8	141.2	119.9	134.3 137.4	110.8	114.0	113.8 112.0	113.9
	IV								
	ANNUAL	117.3	140.6	119.8	133.3	110.5	113.6	113.8	113.7
001	I	118.6	142.3	119.9	139.1	r112.9	117.3	111.7	115.2
	II	119.3	142.1	119.1	140.9	r113.5	118.1	111.5	115.7
	III			118.2		r114.2	118.9	111.7	116.2
	IV	r121.0	r141.7	117.1	142.9	114.9	r118.1	r112.0	115.8
	ANNUAL	r119.6	r141.8	118.6	141.2	113.8	r118.1	r111.7	115.7
		Perce			ious quarter				
000	I	3.0	3.5	0.5	4.5	2.9	1.5	0.9	1.3
.999	II			2.7		1.4	5.4		0.8
	III		5.1	1.9	4.3 5.3	2.3	2.2	-1.2	0.9
	IV				4.0			9.0	
	ANNUAL	2.5	4.6	2.0	4.6	2.4	2.0	-0.8	0.9
000	I	-0.1	2.2	2.3	6 5	2.4	6.6	-2.1	3.2
.000	II		6.5	-1.1	6.5 9.0	5.9	1.3		2.1
	III		1.3		6.8	3.1			1.7
	IV	3.0	1.8	-1.1	9.5	6.4	6.3	-6.1	1.6
	ANNUAL	3.4	4.6	1.1	6.4	3.0	2.9	0.2	1.9
2001	I	-0.2	1.2	1.4	5.1	r1.3	5.3	-1.3	2.9
	II	2.2	-0.7	-2.8	5.2	r2.0	3.0	-0.6	1.7
	III	0.7	-2.3	-2.9	3.3	r2.5	2.6	0.6	1.9
	IV	r5.1	r1.3	-3.6	r2.2	r2.5	r-2.7	r1.1	r-1.4
	ANNUAL	r1.9	r0.9	-1.0	r5.9	3.0	r3.9	r-1.8	1.8
		Percen			sponding qua				
.999	I	2.5	4.5	1.9	4.7	3.1	2.2	-1.4	0.8
	II		4.5	2.1		2.5	2.2		0.9
	III		4.6	2.2	4.6	2.2	2.2	-1.2	0.9
	IV			1.9		1.8	1.4		1.1
	ANNUAL	2.5	4.6	2.0	4.6	2.4	2.0	-0.8	0.9
	I			2.3		1.7			1.5
000	II		5.9	1.4	6.2	2.8	1.6	2.2	1.9
000	III		4.9	0.9		3.0	2.5		2.1
:000		2.9	3.0	0.0	7.9	4.4	4.9	-2.4	2.1
2000	IV					2 0	2.9	0 0	1 0
2000		3.4	4.6	1.1		3.0	2.9	0.2	1.9
	IV ANNUAL I	2.9	2.7	-0.2		r4.2	4.6	-2.2	2.1
2000	IV ANNUAL I	2.9 1.6	2.7 0.9	-0.2 -0.6	7.6 6.6	r4.2 r3.2	4.6 5.0	-2.2 -3.2	2.1
	IV ANNUAL I II III	2.9 1.6 1.4	2.7 0.9 0.0	-0.2 -0.6 -1.4	7.6 6.6 5.8	r4.2 r3.2 3.0	4.6 5.0 4.3	-2.2 -3.2 -1.9	2.1 2.0 2.0
	IV ANNUAL I	2.9 1.6 1.4	2.7 0.9	-0.2 -0.6	7.6 6.6 5.8	r4.2 r3.2 3.0	4.6 5.0	-2.2 -3.2 -1.9	2.1

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r=revised

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

and	ar d arter	Output per hour of all persons	Output	Hours of all persons	Compensa- tion per hour (1)	Real compensa- tion per hour (2)	labor		price
					xes 1992=100				
999	I II		132.8	118.3 119.2	122.2 123.5	105.8 106.1	109.0 110.5	116.0 114.2	111.5 111.8
	III		134.9			106.1	111.1		
	IV			120.3		107.1			
	ANNUAL	112.9	134.8	119.4	124.4	106.5	110.2	115.2	112.0
000	I	114.8	138.8	120.9	128.7	107.9	112.1	115.9	113.5
000	II		141.0	120.8	131.2	109 2	112 5		114.0
	III		141.4		122 6	110.2	114.0		
	IV		142.1	120.6	133.6	111.8	115.8		
	ANNUAL	116.6	140.8		132.5	109.8	113.6	115.3	114.2
201	I	117.0	140 5	101 0	120 1	110 1	117 0	112 1	115 7
) O T	II		142.5	100 0	138.1		⊥⊥/.∠ 110 ∩	113.1 112.9	
	III		142.4		139.7 141.0	r112 2	110.U	112.9	
	IV			119.2	141 R	114 0	r117 9	r113.9	
						111.0	1117.5	1113.5	
		r118.8							
		Perce			ious quarter				
999	I	2.3	3.5	1.1	3.6	2.0	1.3		1.5
	II	-1.3	1.4	2.8	4.2	1.4	5.6	-5.9	1.2
	III	3.2	5.3	2.0	5.5	2.4	2.2	-0.9	1.0
	IV	7.8	9.8	1.9	4.7	1.4	-2.9	9.0	1.4
	ANNUAL	2.3	4.6	2.2	4.4	2.2	2.0	-0.4	1.1
000	I	0.0	2.0	2.0	6.9	2.8	6.9	-1.8	3.5
	II	6.7	6.5	-0.2	8.1	5.0	1.3	2.5	1.7
	III		1.2	-0.5		3.7			
	IV	2.3	1.8	-0.5	8.9	5.8	6.4	-6.6	1.5
	ANNUAL	3.3	4.5	1.1	6.5	3.1	3.1	0.1	2.0
001	I	-0.1		1.4		r1.1	5.0	-1.2	2.7
	II	2.1	-0.4	-2.4	4.7	r1.5	2.6	-0.5	1.5
	III	1.1	-2.3			r2.9	2.6	0.0	1.7
	IV	r5.2	r1.2	r-3.8	2.3	r2.6	r-2.7	r3.4	r-0.6
	ANNUAL	r1.9	r0.9	-0.9	5.8	2.8	r3.8	r-1.8	1.7
		Percen			sponding qua				
999	I	2.3	4.5	2.1	4.5	2.9	2.1	-1.1	0.9
	II	1.9	4.3	2.4	4.2	2.2	2.3	-0.9	1.1
	III	2.1	4.6	2.4	4.3	1.9	2.1	-0.8	1.0
	IV	2.9	4.9	1.9	4.5	1.8	1.5	0.9	1.3
	ANNUAL	2.3	4.6	2.2	4.4	2.2	2.0	-0.4	1.1
000	I		4.6	2.2	5.3	2.0	2.9	0.0	1.8
	II		5.9	1.4	6.3	2.9	1.8	2.1	1.9
	III V	4.0 2.6	4.8	0.8 0.2	6.7 7.8	3.2 4.3	2.7 5.0	1.2 -2.6	2.1 2.2
	ANNUAL	3.3	4.5	1.1	6.5	3.1	3.1	0.1	2.0
	_	2.6	2.7	0.1	7.3	r3.9	4.6	-2.5	2.0
001	I								
001	II		1.0	-0.5	6.5	r3.0	4.9		1.9
001		1.5 1.3 r2.0	1.0 0.1 r-0.1	-0.5 -1.2 -2.1	6.5 5.5 3.9	r3.0 2.8 2.0	4.9 4.1 r1.8	-3.2 -2.1 r0.4	1.9 1.8 1.3

r=revised

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

	Year and	Output per hour of		Hours of all	Compensa- tion per	Real compensa- tion per	Unit labor
	quarter	all persons		persons	hour (1)	hour (2)	costs
			Ir	ndexes 1992=1	00		
1999	I	127.6	133.1	104.3	119.8	103.7	93.
	II	128.3	134.2	104.5	121.2	104.2	94.
	III	129.6	135.6	104.6	123.0	104.9	94.
	IV	132.7	137.8	103.8	124.5	105.4	93.
	ANNUAL	129.6	135.2	104.3	122.1	104.6	94.
2000	I	135.2	139.9	103.5	126.3	105.9	93.
	II	137.2	142.3	103.8	128.6	107.0	93.
	III	138.3	142.5	103.0	131.9	108.8	95.
	IV	139.2	141.1	101.3	135.9	111.3	97.
	ANNUAL	137.5	141.5	102.9	130.7	108.3	95.
2001	I	138.3	138.5	100.1	137.9	r111.9	99.
	II	138.1	136.3	98.7	140.0	r112.7	101.
	III	139.0	134.6	96.8	141.2	113.4	101.
	IV	r140.4	r132.3	94.2	r142.0	114.2	r101.
	ANNUAL	138.9	135.4	97.5	140.2	113.0	r100.
		Percent ch			er at annual ra		
1999	I	5.6	3.2	-2.3	2.4	0.9	-3.
	II	2.4	3.1	0.7	4.8	1.9	2.
	III	3.9	4.4	0.4	6.0	2.9	2.
	IV	10.1	6.7	-3.1	5.2	1.9	-4.
	ANNUAL	4.5	3.7	-0.8	4.0	1.9	-0.
2000	I	7.6	6.3	-1.2	5.9	1.8	-1.
	II	6.1	7.1	0.9	7.5	4.5	1.
	III	3.3	0.4	-2.8	10.6	6.8	7.
	IV	2.8	-4.0	-6.6	12.7	9.5	9.
	ANNUAL	6.1	4.6	-1.4	7.0	3.5	0.
2001	I	-2.7	-7.1	-4.5	6.0	r2.1	8.
	II	-0.5	-6.2	-5.7	6.1	2.9	6.
	III	2.6	-4.9	-7.3	3.5	r2.7	0.
	IV	r4.1	r-6.7	-10.4	r2.5	r2.8	r-1.
	ANNUAL	r1.1	-4.3	-5.3	7.3	4.4	6.
		Percent change					
1999	I	4.7	3.2	-1.4	3.8	2.2	-0.
	II	4.3	3.3	-0.9	3.5	1.6	-0.
	III	3.7	3.8	0.1	4.1	1.7	0.
	IV	5.5	4.3	-1.1	4.6	1.9	-0.
	ANNUAL	4.5	3.7	-0.8	4.0	1.9	-0.
2000	I	6.0	5.1	-0.8	5.5	2.1	-0.
	II	6.9	6.1	-0.7	6.1	2.8	-0.
	III	6.7	5.1	-1.5	7.3	3.7	0.
	IV	4.9	2.3	-2.4	9.1	5.6	4.
	ANNUAL	6.1	4.6	-1.4	7.0	3.5	0.
2001	I	2.3	-1.0	-3.3	9.2	r5.7	6.
	II	0.7	-4.3	-4.9	8.8	r5.3	8.
	III	0.5	-5.5	-6.0	7.0	r4.3	6.
	III	0.5 r0.8	-5.5 r-6.2	-6.0 -7.0	7.0 4.5	r4.3 2.6	6.! r3.

See footnotes following Table 6. r=revised

March 7, 2002 Source: Bureau of Labor Statistics

 $\begin{tabular}{ll} Table 4. Durable manufacturing sector: Productivity, hourly compensation, and unit labor costs, seasonally adjusted \\ \end{tabular}$

Year and	Output per hour of		Hours of all	Compensa- tion per	Real compensa- tion per	Unit labor
quarter	all persons		persons	hour (1)	hour (2)	costs
			ndexes 1992=1			
1999 I	140.7	154.5	109.8	117.6	101.8	83.6
II	142.1	156.1	109.9	119.3	102.6	84.0
III	143.9	159.4	110.7	121.1	103.3	84.1
IV	147.3	161.8	109.8	122.7	103.9	83.3
ANNUAL	143.5	157.9	110.1	120.2	103.0	83.8
2000 I	152.0	166.7	109.7	124.4	104.3	81.8
II	155.0	171.0	110.3	126.7	105.4	81.
III	156.4	171.6	109.7	130.1	107.3	83.2
IV	156.9	169.5	108.0	134.6	110.2	85.
ANNUAL	155.1	169.7	109.4	128.9	106.9	83.1
2001 I	155.2	165.2	106.5	136.6	r110.8	88.0
II	155.2	162.5	104.7	138.7	r111.7	89.3
III	156.0	159.3	102.1	140.2	112.6	89.8
IV	r157.1	r155.2	98.8	141.4	113.7	r90.0
ANNUAL	r155.9	r160.6	103.0	139.2	112.2	89.3
	Percent ch			er at annual ra		
		_	_			
1999 I	8.3	4.0	-4.0	3.8	2.2	-4.1
II	4.0	4.4	0.3	5.9	2.9	1.7
III	5.2	8.5	3.1	6.1	3.0	0.8
IV	9.7	6.2	-3.2	5.5	2.2	-3.8
ANNUAL	6.9	6.1	-0.8	4.7	2.5	-2.2
2000 I	13.5	12.8	-0.6	5.6	1.5	-7.0
II	8.2	10.7	2.3	7.7	4.6	-0.5
III IV	3.7 1.3	1.4 -4.8	-2.2 -6.0	11.2 14.3	7.4 11.1	7.3 12.9
ANNUAL	8.1	7.4	-0.6	7.3	3.8	-0.8
2001 I	-4.3	-9.7	-5.6	6.1	r2.3	10.9
II	0.0	-6.5	-6.6	6.3	r3.0	6.2
III	2.0	-7.6	-9.4	4.3	r3.5	2.3
ΙV	r2.7	r-9.8	-12.3	3.6	r3.9	r0.8
ANNUAL	0.5	-5.4	-5.9	7.9	5.0	7.4
				 ter of previous	year	
	_			_	_	
1999 I II	7.6 7.3	6.0 6.1	-1.5 -1.0	4.2 4.3	2.6 2.3	-3.2 -2.8
III	6.1	6.6	0.5	4.9	2.6	-1.3
IV	6.8	5.7	-1.0	5.3	2.6	-1.4
ANNUAL	6.9	6.1	-0.8	4.7	2.5	-2.1
2000 I	8.0	7.9	-0.1	5.7	2.4	-2.3
II	9.1	9.5	0.4	6.2	2.8	-2.5
III	8.7	7.7	-0.9	7.5	3.9	-1.3
VI	6.5	4.8	-1.7	9.6	6.1	2.9
ANNUAL	8.1	7.4	-0.6	7.3	3.8	-0.8
2001 I	2.1	-0.9	-2.9	9.8	r6.3	7.
II	0.1	-5.0	-5.1	9.4	r5.9	9.3
III	-0.3	-7.2	-6.9	7.7	4.9	8.0
IV	r0.1	r-8.4	-8.5	5.1	3.2	r5.0
ANNUAL	0.5	-5.4	-5.9	7.9	5.0	7.4

-----See footnotes following Table 6. r = revised

March 7, 2002 Source: Bureau of Labor Statistics

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

	Output per hour of		Hours of all	Compensa- tion per	Real compensa- tion per	Unit labor
quarter	all persons		persons	hour (1)	hour (2)	costs
I	116.6	113.2	97.1	122.0	105.6	104.7
II	116.6	113.6	97.4	123.0	105.7	105.5
III	117.4	113.4			106.3	106.1
IV	120.5	115.4	95.8	126.0	106.6	104.6
ANNUAL	117.8	113.9	96.7	123.9	106.1	105.2
I	120.6	115.0	95.3	127.9	107.2	106.1
11	121.7	115.7	95.1	130.1	108.3	106.9
III	122.6	115.4	94.2	133.1	109.8	108.6
IV	124.0	114.6	92.4	136.2	111.5	109.8
ANNUAL	122.2	115.2	94.2	131.8	109.2	107.8
I	123.8	113.5	91.7	138.2	r112.1	111.7
II	123.3	111.8	90.7	140.2	r112.9	113.7
III			89.8	141.1	r113.4	113.7
IV	r125.7	r110.7	88.1	r141.5	113.8	r112.6
ANNUAL	r124.2	111.8	90.1	140.2	113.0	r112.9
	Percent cha				te(5)	
Т	1 8	2 2	0 4	0.5	-1 1	-1.3
						3.0
III	2.9	-0.6	-3.4	5.2	2.2	2.3
IV	10.7	7.4	-3.0	4.8	1.5	-5.3
ANNUAL	1.6	0.7	-0.9	2.8	0.7	1.2
I	0.5	-1.6	-2.1	6.3	2.2	5.7
II	3.6	2.5	-1.1	6.9	3.9	3.2
III	2.9	-0.9	-3.7	9.4	5.7	6.3
IV	4.8	-2.9	-7.4	9.7	6.6	4.7
ANNUAL	3.8	1.1	-2.6	6.4	2.9	2.5
I	-0.9	-3.7	-2.8	5.9	r2.1	6.9
II	-1.6	-5.9	-4.4	5.9	r2.7	7.6
						-0.1
IV	r5.2	r-2.6	r-7.5	r1.2	r1.5	r-3.8
ANNUAL	r1.6	-2.9	-4.4	6.4	r3.4	r4.7
I	1.2	-0.1	-1.4	3.1	1.5	1.8
II	0.6	0.0	-0.6	2.3	0.4	1.7
III	0.8	0.3	-0.5	2.5	0.2	1.6
IV	3.8	2.6	-1.2	3.4	0.7	-0.4
ANNUAL	1.6	0.7	-0.9	2.8	0.7	1.2
I	3.5	1.6	-1.8	4.9	1.5	1.3
II	4.4	1.9	-2.4	5.8	2.4	1.4
III IV	4.4 3.0	1.8	-2.5 -3.6	6.8 8.1	3.3 4.6	2.4
ΙV		-0.7				5.0
		1.1	-2.6	6.4	2.9	2.5
ANNUAL	3.8	1.1				
I	2.6	-1.3	-3.8	8.0	r4.6	5.3
I II	2.6 1.3	-1.3 -3.3	-4.6	7.7	r4.3	6.4
I	2.6	-1.3				
	I III III IIV ANNUAL III III III IIV ANNUAL	and hour of quarter all persons I 116.6 II 116.6 III 117.4 IV 120.5 ANNUAL 117.8 I 120.6 II 121.7 III 122.6 IV 124.0 ANNUAL 122.2 I 123.8 II 123.3 III 124.1 IV r125.7 ANNUAL r124.2 Percent change I 0.5 II 2.9 IV 10.7 ANNUAL 1.6 I 0.5 II 2.9 IV 10.7 ANNUAL 1.6 Percent change I 1.8 II 0.9 III 1.6 III 2.7 IV 1.6 III 2.7 IV 1.6 III 1.6 II 1.	and hour of quarter all persons Output IT 116.6 113.2 111 116.6 113.6 1111 117.4 113.4 119.4 119.4 119.4 119.4 119.4 119.4 119.4 119.5 115.7 11	Annual A	and hour of all persons boutput persons hour (1) Indexes 1992=100	And

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Table 6. Nonfinancial corporations: Productivity, hourly compensation, unit labor costs, unit profits, and prices, seasonally adjusted

ā	Year and quarter	Output per all- employee hour	Output	Employee hours	Hourly compen- sation (1)	Real hourly compen- sation(2)	Unit labor costs	Unit non- labor costs(6)	Total unit costs (7)	Unit pro- fits (8)	Implicit price deflator (4)
					Indexes	1992=100					
1999	I III IV	114.5 114.7 115.4 116.4	139.5 140.8 142.5 144.8	121.9 122.7 123.4 124.3	119.1 120.4 121.9 123.2	103.1 103.5 104.0 104.2	104.1 104.9 105.6 105.8	102.8 103.4 105.0 105.1	103.7 104.5 105.4 105.6	141.6 135.4 128.0 131.3	107.1 107.4
	ANNUAL	115.3	141.9	123.1	121.2	103.8	105.1	104.1	104.8	134.0	107.3
2000	I III IV	117.2 118.8 119.6 119.8	146.6 148.7 149.7 149.8	125.1 125.1 125.2 125.1	125.0 127.6 129.7 132.7	104.8 106.1 107.0 108.7	106.6 107.4 108.5 110.8	106.2 106.5 107.1 107.8	106.5 107.1 108.1 110.0	135.1 139.3 135.8 120.5	109.8 110.5
	ANNUAL	118.8	148.7	125.1	128.8	106.7	108.3	106.9	107.9	132.6	110.0
2001	I II III	119.9 120.9 121.2	150.1 150.4 149.4	125.1 124.4 123.3	134.5 136.5 138.1	r109.2 109.9 r111.0	112.2 112.9 114.0	109.3 111.2 114.2	111.4 112.5 114.0	111.1 107.4 99.6	112.0
			Perc	ent change	from pre	vious quarte	er at annı	ual rate(5)		
1999	I II III	4.5 0.8 2.4	6.8 3.6 4.9	2.2 2.8 2.5	4.3 4.2 5.2	2.7 1.4 2.1	-0.2 3.4 2.7	-1.7 2.4 6.1	-0.6 3.1 3.6	11.6 -16.4 -20.0	0.8
	IV	3.5	6.5	2.9	4.2	0.9	0.7	0.7	0.7	10.5	
	ANNUAL	3.1	5.6	2.4	4.5	2.3	1.3	1.9	1.4	-5.4	
2000	II III V	2.8 5.6 2.6 0.7	5.3 5.7 2.8 0.3	2.5 0.1 0.2 -0.3	6.0 8.4 7.0 9.6	2.0 5.4 3.3 6.5	3.2 2.7 4.3 8.9	4.1 1.1 2.4 2.6	3.4 2.3 3.8 7.2	12.2 13.0 -9.8 -38.0	3.4 2.2
	ANNUAL	3.1	4.8	1.7	6.3	2.8	3.1	2.7	3.0	-1.0	2.5
2001	I II III	0.5 3.3 0.9	0.7 0.8 -2.6	0.2 -2.4 -3.5	5.5 6.1 4.7	r1.7 r2.8 r3.9	5.0 2.7 3.8	5.8 7.0 11.2	5.2 3.8 5.7	-27.8 -12.6 -26.1	2.3
			Percent	change fr	om corres	ponding quar	rter of p	revious ye	ar		
1999	I II III IV	4.2 3.2 2.4 2.8	6.3 5.8 5.1 5.5	2.1 2.5 2.6 2.6	4.6 4.3 4.4 4.5	3.1 2.3 2.0 1.8	0.4 1.1 2.0 1.6	1.1 1.5 3.1 1.8	1.7	-4.7	0.7 0.7 1.0
2000	I II III	3.6 3.6	5.1 5.6 5.1	2.7 2.0 1.4	4.9 6.0 6.4	1.6 2.6 2.9	2.5 2.3 2.7	3.3 3.0 2.0	2.7 2.5 2.5	2.9 6.0	2.5 2.9
	IV ANNUAL	2.9	3.5 4.8	0.6	7.8 6.3	4.3 2.8	4.7 3.1	2.5	4.1 3.0	-8.2 -1.0	
	I II III	2.3 1.8 1.3	2.3 1.2 -0.2	0.0 -0.6 -1.5	7.6 7.0 6.5	r4.2	5.2 5.2 5.1	2.9 4.4 6.6	4.6 5.0 5.5	-17.8 -22.9 -26.7	2.2

r=revised

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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. Compensation and hours data are from the Bureau of Labor Statistics and the Bureau of Economic Analysis.

RELIABILITY: Productivity and cost measures are regularly revised as more complete information becomes available. The measures are first published within 40 days of the close of the reference period; revisions appear 30 days later, and second revisions after an additional 60 days. In the business sector, the third publication (second revision) of a quarterly index of output per hour of all persons has differed from the initial value by between -1.5 and +1.7 index points approximately 95 percent of the time. This interval is based on the performance of this measure between the fourth quarter of 1995 and the third quarter of 2001.

Footnotes, Tables 1-6

- (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 1978-2000 is based on the Consumer Price Index research series (CPI-U-RS).
- (3) Unit nonlabor payments include profits, capital consumption allowances, interest, rental income of persons, and indirect taxes.
- (4) Current dollar output divided by the output index.
- (5) Quarterly changes: Percent change compounded at annual rate from the original data rather than index numbers. Annual changes: Percent change between annual average levels.
- (6) Unit nonlabor costs include capital consumption allowances, interest, rental income of persons, and indirect taxes. For nonfinancial corporations, rental income of persons is zero by definition.
- (7) Total unit costs are the sum of unit labor and nonlabor costs.
- (8) Unit profits include corporate profits with inventory valuation and capital consumption adjustments.