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PRODUCTIVITY AND COSTS
Second Quarter 2001

The Bureau of Labor Statistics of the U.S. Department of Labor reported preliminary productivity data--as measured by output per hour of all persons--for the second quarter of 2001. The preliminary seasonally adjusted annual rates of productivity change in the second quarter were:

2.8 percent in the business sector and
2.5 percent in the nonfarm business sector.

In the business sector, productivity growth was the result of a drop of 2.7 percent in hours, while output showed no change. This same pattern occurred in nonfarm businesses, as hours fell 2.4 percent and output grew only 0.1 percent.

In manufacturing, the preliminary productivity changes in the second quarter were:

-0.2 percent in manufacturing,
1.0 percent in durable goods manufacturing, and
-2.3 percent in nondurable goods manufacturing.

Manufacturing productivity fell 0.2 percent in the second quarter, after falling 3.6 percent (as revised) in the previous quarter. These were the first declines in manufacturing productivity since the second and third quarters of 1993, when labor productivity fell 0.3 and 0.6 percent, respectively. 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. Second-quarter measures are summarized in table A and appear in detail in tables 1 through 5.

The data in this release reflect the regular multi-year GDP revisions released by the Bureau of Economic Analysis of the U.S. Department of Commerce on July 27. They also reflect the annual benchmark revision to the BLS establishment survey data and revisions to hours series released by BLS on June 1. All employment and hours series incorporate new information on seasonal patterns. See Revised Measures. Appendix tables 1-6 show revised historical series.

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

Sector	Productivity	Output	Hours	Hourly compensation	Real hourly compensation	Unit labor costs
Percent change from preceding quarter						
Business	2.8	0.0	-2.7	5.2	2.1	2.4
Nonfarm business	2.5	0.1	-2.4	4.7	1.6	2.1
Manufacturing	-0.2	-5.8	-5.6	6.2	3.0	6.4
Durable	1.0	-5.7	-6.6	6.3	3.2	5.3
Nondurable	-2.3	-6.1	-3.9	6.1	3.0	8.6
Percent change from same quarter a year ago						
Business	1.7	1.1	-0.6	6.6	3.1	4.8
Nonfarm business	1.6	1.1	-0.5	6.4	2.9	4.8
Manufacturing	1.9	-3.0	-4.8	8.8	5.2	6.7
Durable	3.1	-2.1	-5.1	9.4	5.8	6.1
Nondurable	0.3	-4.2	-4.4	7.8	4.2	7.5

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 measures 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.

Business

From the first to the second quarter of 2001, business sector productivity increased at a 2.8-percent annual rate. Output showed no change, while hours of all persons engaged in the sector fell at a 2.7-percent annual rate. As revised, labor productivity held steady in the first quarter of 2001, when both output and hours increased at a 1.2-percent annual rate (table 1).

Hourly compensation increased 5.2 percent in the second quarter and 5.3 percent in the first quarter of 2001 (seasonally adjusted annual rates). 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, grew at a 2.1-percent annual rate during the second quarter of 2001, after rising 1.1 percent during the previous quarter.

Unit labor costs, which reflect changes in both hourly compensation and productivity, increased 2.4 percent during the second quarter, following a 5.3-percent rise in the first quarter of 2001. The implicit price deflator for the business sector, which reflects changes in unit labor costs and unit nonlabor payments, increased 1.9 percent in the second quarter and 2.9 percent in the first quarter of 2001.

Nonfarm business

Productivity increased 2.5 percent in the nonfarm business sector during the second quarter of 2001, as output edged up 0.1 percent and hours of all persons fell 2.4 percent (seasonally adjusted annual rates). This was the largest decline in hours since the first quarter of 1991, when they fell 4.8 percent. Output per hour rose 0.1 percent in the first quarter of 2001, as output increased 1.4 percent and hours increased 1.3 percent (table 2).

Hourly compensation increased 4.7 percent in the second quarter, after posting a 5.1-percent gain in the first quarter of 2001. When the rise in consumer prices is taken into account, real hourly compensation for the second quarter of 2001 rose 1.6 percent.

Unit labor costs increased 2.1 percent in the second quarter of 2001, after rising 5.0 percent one quarter earlier. The implicit price deflator for nonfarm business output grew 1.7 percent in the second quarter and 2.7 percent in the first quarter of 2001.

Manufacturing

Productivity decreased 0.2 percent in manufacturing, as output fell 5.8 percent and hours of all persons declined by 5.6 percent (seasonally adjusted annual rates). In the previous quarter, productivity declined by 3.6 percent, as output fell 8.1 percent and hours dropped 4.7 percent. Growth in second-quarter productivity differed in the durable and nondurable goods subsectors. In durable goods, productivity rose 1.0 percent as the drop in hours of all persons, 6.6 percent, exceeded the drop in output, 5.7 percent. In nondurable goods, productivity declined 2.3 percent, as the decrease in hours, 3.9 percent, was less than the drop in output, 6.1 percent (tables 3, 4, and 5).

Hourly compensation of all manufacturing workers increased 6.2 percent during the second quarter. This reflects growth of 6.3 percent in durable goods and 6.1 percent in nondurable goods. When the increase in consumer prices is taken into account, the real hourly compensation of all manufacturing workers rose 3.0 percent in the second quarter. This had risen 1.9 percent in the first quarter.

Unit labor costs in manufacturing rose 6.4 percent in the second quarter, less than the 10.1 percent increase in the previous quarter. Reflecting the differing growth rates in productivity in the second quarter, unit labor costs grew dissimilarly in the two subsectors. Unit labor costs rose 5.3 percent in durable goods manufacturing and 8.6 percent in nondurable goods manufacturing.

Revised Measures

Current and previous measures for the first quarter of 2001 for the business, nonfarm business, and manufacturing sectors are compared in table B. In the business and nonfarm business sectors, productivity was revised up and unit labor costs revised down from the figures reported on June 6, based on information then available. Output was revised up slightly and hours were revised down. In manufacturing, productivity growth was revised down to reflect a larger decline in output and a smaller drop in hours than originally reported. Unit labor costs were higher than originally reported, reflecting both the downward revision to productivity and an upward revision to hourly compensation.

Table B. Previous and revised productivity and related measures
Quarterly percent changes at seasonally adjusted annual rates

Sector	Productivity	Output	Hours	Hourly compensation	Real hourly compensation	Unit labor costs

First quarter 2001						
Business:						
Previous	-1.4	1.0	2.4	5.2	1.0	6.7
Current	0.0	1.2	1.2	5.3	1.1	5.3
Nonfarm business:						
Previous	-1.2	1.0	2.2	5.1	0.9	6.3
Current	0.1	1.4	1.3	5.1	0.9	5.0
Manufacturing:						
Previous	-2.1	-7.8	-5.8	4.7	0.5	7.0
Current	-3.6	-8.1	-4.7	6.2	1.9	10.1

Output data for the business and nonfarm business sectors and compensation series for all sectors incorporate the revisions of the national income and product accounts produced by the Bureau of Economic Analysis, U.S. Department of Commerce. Labor input measures have been revised to reflect the annual benchmarking of employment levels derived from the monthly Current Employment Statistics (CES) survey that occurred on June 1. Updated seasonal adjustment factors also have been incorporated into the labor input measures. These revisions extend back to the first quarter of 1996. Appendix tables 1-6 present quarterly and annual measures for all sectors for 1996-98.

Revised measures: Nonfinancial Corporations

Productivity and cost measures for the first quarter for nonfinancial corporations also were revised to incorporate more recent information than was available on June 5. Productivity was revised upward to reflect both an upward revision to output and a downward revision to employee hours. Unit labor costs were lower than originally reported, reflecting the higher productivity and a slight downward revision to hourly compensation. Unit profits also were revised down (table C).

Table C. Nonfinancial corporations: Previous and revised productivity and cost measures
Quarterly percent changes at seasonally adjusted annual rates

	Produc- tivity	Output	Hours	Hourly compen- sation	Real hourly compen- sation	Unit labor costs	Unit profits	Implicit price deflator
			First quarter 2001					
Previous	-0.1	0.4	0.5	5.9	1.7	6.0	-16.2	1.9
Current	0.6	0.7	0.0	5.7	1.5	5.0	-27.8	1.8

Next release date

The next release of Productivity and Costs is scheduled for 8:30 a.m. EDT, Wednesday, Sept. 5, 2001. Revised second-quarter measures for business, nonfarm business, and manufacturing will be released at that time, along with preliminary measures for nonfinancial corporations.

TECHNICAL NOTES

Labor Hours: Hours data for the labor productivity and cost 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

Year and quarter		Output per hour of all persons	Output	Hours of all persons	Compensation per hour (1)	Real compensation per hour (2)	Unit labor costs	Unit non-labor payments (3)	Implicit price deflator (4)
Indexes 1992=100									
1999	I	r112.8	r132.4	r117.4	r123.2	r106.6	r109.2	r114.5	r111.2
	II	r112.5	r132.9	r118.2	r124.5	r107.0	r110.7	r112.6	r111.4
	III	r113.3	r134.6	r118.8	r126.1	r107.5	r111.3	r112.3	r111.7
	IV	r115.2	r137.8	r119.6	r127.2	r107.6	r110.4	r114.8	r112.0
	ANNUAL	r113.4	r134.4	r118.5	r125.2	r107.3	r110.4	r113.6	r111.6
2000	I	r115.0	r138.6	r120.5	r129.0	r108.1	r112.1	r114.2	r112.9
	II	r117.1	r140.8	r120.2	r131.7	r109.6	r112.5	r115.2	r113.5
	III	r117.4	r141.2	r120.3	r133.8	r110.3	r114.0	r113.9	r113.9
	IV	r118.2	r141.9	r120.0	r136.8	r112.0	r115.7	r112.1	r114.4
	ANNUAL	r116.9	r140.6	r120.3	r132.8	r110.1	r113.6	r113.9	r113.7
2001	I	r118.2	r142.3	r120.4	r138.6	r112.3	r117.2	r111.8	r115.2
	II	119.0	142.3	119.5	140.4	112.9	117.9	112.1	115.8
Percent change from previous quarter at annual rate(5)									
1999	I	r3.1	r3.5	r0.4	r4.7	r3.1	r1.5	r0.9	r1.3
	II	r-1.1	r1.6	r2.7	r4.2	r1.4	r5.4	r-6.3	r0.8
	III	r2.9	r5.1	r2.1	5.1	2.0	r2.1	r-1.1	r0.9
	IV	r7.0	9.9	r2.7	r3.5	r0.3	r-3.2	r9.1	r1.2
	ANNUAL	r2.5	r4.6	2.0	4.6	2.4	r2.0	r-0.8	r0.9
2000	I	r-0.6	r2.2	r2.9	r5.9	r1.8	r6.5	r-2.0	r3.2
	II	r7.3	r6.5	-0.7	r8.6	r5.5	r1.2	r3.6	r2.1
	III	r1.0	r1.3	r0.3	r6.5	r2.9	r5.5	r-4.5	r1.7
	IV	r3.0	r1.8	r-1.1	r9.4	r6.3	r6.3	r-6.1	r1.6
	ANNUAL	r3.1	r4.6	r1.5	r6.0	r2.6	r2.9	r0.3	r1.9
2001	I	r0.0	r1.2	r1.2	r5.3	r1.1	r5.3	r-1.3	r2.9
	II	2.8	0.0	-2.7	5.2	2.1	2.4	1.1	1.9
Percent change from corresponding quarter of previous year									
1999	I	r2.6	r4.5	r1.9	r4.8	r3.2	r2.2	r-1.4	r0.8
	II	r2.3	r4.4	r2.1	r4.5	r2.5	r2.2	r-1.2	r0.9
	III	r2.3	r4.6	r2.2	r4.5	r2.2	r2.2	r-1.2	r0.9
	IV	r2.9	r5.0	r2.0	r4.4	r1.7	r1.4	r0.5	1.1
	ANNUAL	r2.5	r4.6	2.0	4.6	2.4	r2.0	r-0.8	r0.9
2000	I	r2.0	r4.7	r2.6	r4.7	r1.4	r2.6	r-0.3	r1.5
	II	r4.1	r5.9	r1.8	r5.7	r2.4	r1.6	r2.3	r1.9
	III	r3.6	r4.9	r1.3	r6.1	r2.6	r2.4	r1.4	r2.1
	IV	r2.6	r3.0	r0.3	r7.6	r4.1	r4.8	r-2.3	2.1
	ANNUAL	r3.1	r4.6	r1.5	r6.0	r2.6	r2.9	r0.3	r1.9
2001	I	r2.8	r2.7	-0.1	r7.4	r3.9	r4.6	r-2.1	r2.1
	II	1.7	1.1	-0.6	6.6	3.1	4.8	-2.7	2.0

See footnotes following Table 6.

r=revised

August 7, 2001

Source: Bureau of Labor Statistics

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

Year and quarter		Output per hour of all persons	Output	Hours of all persons	Compensation per hour (1)	Real compensation per hour (2)	Unit labor costs	Unit non-labor payments (3)	Implicit price deflator (4)
Indexes 1992=100									
1999	I	r112.2	r132.8	r118.3	r122.3	r105.9	109.0	r116.0	r111.5
	II	r111.9	r133.2	119.1	r123.6	r106.2	r110.5	r114.2	r111.8
	III	r112.7	r134.9	r119.8	r125.1	r106.8	r111.1	r114.0	r112.1
	IV	r114.7	r138.1	r120.4	r126.4	r107.0	r110.2	r116.5	r112.5
	ANNUAL	r112.9	r134.8	r119.4	r124.4	r106.5	r110.2	r115.2	r112.0
2000	I	r114.5	r138.8	r121.2	r128.4	r107.6	r112.1	r116.0	r113.5
	II	r116.3	r141.0	r121.3	r130.7	r108.8	r112.4	r116.7	r114.0
	III	r116.7	r141.4	r121.2	r133.0	r109.7	r114.0	r115.4	114.5
	IV	r117.4	r142.1	r121.0	r135.9	r111.3	r115.8	r113.5	r114.9
	ANNUAL	r116.2	r140.8	r121.2	r132.0	r109.4	r113.6	r115.4	r114.2
2001	I	r117.4	r142.5	r121.4	r137.6	r111.5	r117.2	r113.1	115.7
	II	118.1	142.6	120.7	139.1	111.9	117.8	113.4	116.2
Percent change from previous quarter at annual rate(5)									
1999	I	r2.4	r3.5	r1.0	3.8	2.2	r1.3	r1.9	r1.5
	II	r-1.4	r1.4	r2.8	r4.2	r1.3	r5.6	r-5.9	r1.2
	III	r3.0	r5.3	r2.2	5.2	r2.1	r2.1	r-0.8	r1.0
	IV	r7.4	r9.8	r2.3	4.2	0.9	r-2.9	r9.1	r1.4
	ANNUAL	r2.3	r4.6	2.2	4.4	r2.2	r2.0	r-0.4	r1.1
2000	I	r-0.6	r2.0	r2.6	r6.2	r2.1	r6.8	r-1.7	r3.5
	II	6.3	6.5	0.2	r7.6	r4.5	r1.2	r2.6	r1.7
	III	r1.4	r1.2	r-0.2	r7.1	r3.5	r5.6	r-4.4	r1.8
	IV	r2.3	r1.8	r-0.5	r8.9	r5.8	r6.4	r-6.6	r1.5
	ANNUAL	r3.0	r4.5	r1.5	r6.1	r2.7	r3.1	r0.2	r2.0
2001	I	r0.1	r1.4	r1.3	5.1	0.9	r5.0	r-1.2	r2.7
	II	2.5	0.1	-2.4	4.7	1.6	2.1	1.0	1.7
Percent change from corresponding quarter of previous year									
1999	I	r2.4	r4.5	2.1	r4.6	r3.0	r2.1	r-1.1	r0.9
	II	r1.9	r4.3	r2.4	r4.2	2.3	r2.3	r-0.9	r1.1
	III	r2.1	r4.6	r2.4	r4.3	r1.9	r2.1	r-0.8	r1.0
	IV	r2.8	r4.9	r2.1	r4.3	r1.6	r1.5	r0.9	1.3
	ANNUAL	r2.3	r4.6	2.2	4.4	r2.2	r2.0	r-0.4	r1.1
2000	I	r2.0	r4.6	r2.5	r5.0	r1.6	r2.9	r0.0	r1.8
	II	r4.0	r5.9	r1.8	r5.8	r2.4	r1.8	r2.2	r1.9
	III	r3.6	r4.8	r1.2	r6.3	r2.8	r2.6	r1.3	r2.1
	IV	r2.3	r2.8	r0.5	r7.4	r4.0	r5.0	r-2.6	r2.2
	ANNUAL	r3.0	r4.5	r1.5	r6.1	r2.7	r3.1	r0.2	r2.0
2001	I	2.5	r2.7	r0.2	r7.2	r3.7	r4.6	r-2.5	r2.0
	II	1.6	1.1	-0.5	6.4	2.9	4.8	-2.8	2.0

See footnotes following Table 6.
r=revised

August 7, 2001
Source: Bureau of Labor Statistics

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

Year and quarter		Output per hour of all persons	Output	Hours of all persons	Compensation per hour (1)	Real compensation per hour (2)	Unit labor costs
Indexes 1992=100							
1999	I	r127.4	132.8	r104.3	119.9	103.7	r94.1
	II	128.4	134.1	104.5	r121.3	104.2	94.4
	III	129.8	135.8	104.7	r123.0	r104.9	r94.7
	IV	132.7	138.0	104.0	r124.4	r105.3	r93.7
	ANNUAL	129.6	135.2	104.3	r122.1	r104.6	r94.3
2000	I	r135.2	140.3	r103.8	r125.9	r105.5	r93.2
	II	r137.3	143.1	r104.2	r128.1	r106.6	r93.3
	III	r139.4	144.4	r103.6	r131.2	r108.3	r94.1
	IV	r141.3	143.9	r101.8	r135.2	r110.7	r95.7
	ANNUAL	r138.3	142.9	r103.4	r130.1	r107.8	r94.1
2001	I	r140.0	r140.9	r100.6	r137.2	r111.3	r98.0
	II	139.9	138.8	99.2	139.3	112.1	99.6
Percent change from previous quarter at annual rate(5)							
1999	I	5.1	2.5	-2.5	r2.6	r1.1	r-2.3
	II	r3.3	4.1	r0.8	r4.8	r1.9	r1.4
	III	4.4	5.1	0.7	r5.7	r2.6	r1.2
	IV	9.3	6.4	r-2.6	r4.7	r1.4	r-4.2
	ANNUAL	4.5	3.7	-0.8	4.0	1.9	-0.5
2000	I	r7.6	7.1	r-0.5	r5.1	1.0	r-2.3
	II	r6.5	8.0	r1.5	r7.0	r3.9	r0.5
	III	r6.4	3.7	r-2.5	r10.3	r6.5	r3.7
	IV	r5.3	-1.5	r-6.5	r12.6	r9.4	r6.9
	ANNUAL	r6.7	5.7	r-0.9	r6.5	r3.1	r-0.2
2001	I	r-3.6	r-8.1	r-4.7	r6.2	r1.9	r10.1
	II	-0.2	-5.8	-5.6	6.2	3.0	6.4
Percent change from corresponding quarter of previous year							
1999	I	r4.5	2.9	r-1.5	3.9	2.3	-0.7
	II	4.3	3.3	r-1.0	r3.6	r1.7	r-0.7
	III	3.7	3.8	0.1	4.0	1.7	0.3
	IV	r5.5	4.5	r-0.9	r4.4	r1.7	r-1.0
	ANNUAL	4.5	3.7	-0.8	4.0	1.9	-0.5
2000	I	r6.1	5.7	r-0.4	r5.1	r1.7	r-1.0
	II	r6.9	6.7	r-0.2	r5.6	r2.2	r-1.2
	III	r7.4	6.3	r-1.0	r6.7	r3.2	r-0.6
	IV	r6.5	4.3	r-2.1	r8.7	r5.2	r2.1
	ANNUAL	r6.7	5.7	r-0.9	r6.5	r3.1	r-0.2
2001	I	r3.6	0.4	r-3.1	r9.0	r5.4	r5.2
	II	1.9	-3.0	-4.8	8.8	5.2	6.7

See footnotes following Table 6.
r=revised

August 7, 2001
Source: Bureau of Labor Statistics

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

Year and quarter		Output per hour of all persons	Output	Hours of all persons	Compensation per hour (1)	Real compensation per hour (2)	Unit labor costs
Indexes 1992=100							
1999	I	r140.2	153.8	r109.7	r117.7	r101.9	r84.0
	II	r142.2	156.2	109.8	r119.4	r102.6	r84.0
	III	r144.0	159.5	110.7	r121.1	r103.3	r84.1
	IV	r147.5	162.2	r110.0	r122.6	103.7	r83.1
	ANNUAL	r143.5	157.9	r110.1	r120.2	r103.0	r83.8
2000	I	r152.0	167.2	r110.0	r124.0	r103.9	r81.6
	II	r155.9	172.6	r110.8	r126.2	r105.0	r81.0
	III	r159.7	176.0	r110.2	r129.5	r106.8	r81.1
	IV	r162.0	175.9	r108.5	r133.9	r109.6	r82.6
	ANNUAL	r157.4	172.9	r109.9	r128.4	r106.4	r81.6
2001	I	r160.3	r171.5	r106.9	r136.0	r110.2	r84.8
	II	160.7	169.0	105.1	138.1	111.1	85.9
Percent change from previous quarter at annual rate(5)							
1999	I	r7.5	3.0	r-4.2	r4.0	r2.4	-3.2
	II	r5.8	6.2	r0.4	r5.8	r2.9	r0.0
	III	5.2	8.7	3.4	r5.8	2.7	r0.6
	IV	r10.1	7.1	r-2.7	r5.0	r1.7	r-4.6
	ANNUAL	6.9	6.1	-0.8	r4.7	r2.5	r-2.1
2000	I	r12.6	12.7	r0.1	r4.8	r0.8	r-6.9
	II	r10.7	13.7	r2.8	r7.1	r4.1	r-3.2
	III	r10.3	8.1	r-1.9	r10.9	r7.1	r0.6
	IV	r5.9	-0.4	r-6.0	r14.3	r11.0	r7.9
	ANNUAL	r9.7	9.5	r-0.2	r6.8	r3.3	r-2.6
2001	I	r-4.1	r-9.6	r-5.8	r6.3	r2.1	r10.9
	II	1.0	-5.7	-6.6	6.3	3.2	5.3
Percent change from corresponding quarter of previous year							
1999	I	7.4	5.7	-1.6	r4.3	r2.7	r-2.9
	II	r7.3	6.1	r-1.1	r4.4	r2.4	r-2.8
	III	r5.8	6.4	r0.5	r4.9	r2.6	r-0.9
	IV	r7.1	6.2	r-0.8	r5.2	r2.4	r-1.9
	ANNUAL	6.9	6.1	-0.8	r4.7	r2.5	r-2.1
2000	I	r8.4	8.7	r0.3	r5.3	2.0	r-2.8
	II	r9.6	10.5	r0.9	r5.7	r2.3	r-3.6
	III	r10.9	10.4	r-0.5	r6.9	r3.4	r-3.6
	IV	r9.8	8.4	r-1.3	r9.2	r5.7	r-0.5
	ANNUAL	r9.7	9.5	r-0.2	r6.8	r3.3	r-2.6
2001	I	r5.5	r2.6	r-2.8	r9.6	r6.0	r3.9
	II	3.1	-2.1	-5.1	9.4	5.8	6.1

See footnotes following Table 6.
r=revised

August 7, 2001
Source: Bureau of Labor Statistics

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

Year and quarter		Output per hour of all persons	Output	Hours of all persons	Compensation per hour (1)	Real compensation per hour (2)	Unit labor costs
Indexes 1992=100							
1999	I	116.6	113.1	97.0	r122.1	r105.7	r104.8
	II	r116.6	113.5	r97.3	r123.1	r105.8	r105.5
	III	r117.8	113.7	r96.6	r124.5	r106.3	105.8
	IV	120.1	115.3	96.0	r125.8	r106.5	r104.8
	ANNUAL	r117.8	113.9	r96.7	r123.9	106.1	105.2
2000	I	r120.7	115.4	r95.6	r127.5	r106.9	r105.7
	II	121.2	115.8	95.5	r129.5	r107.8	r106.8
	III	r121.8	115.3	r94.7	r132.4	r109.2	r108.7
	IV	r123.2	114.4	r92.9	r135.4	r110.9	r110.0
	ANNUAL	r121.7	115.2	r94.7	r131.2	r108.7	r107.8
2001	I	r122.2	112.7	r92.2	r137.5	r111.4	r112.5
	II	121.5	110.9	91.3	139.5	112.3	114.8
Percent change from previous quarter at annual rate(5)							
1999	I	r1.6	1.8	r0.2	r0.7	r-0.9	r-0.9
	II	r0.2	1.5	r1.3	r3.1	r0.3	r2.9
	III	4.0	0.7	r-3.1	r4.9	r1.9	r0.9
	IV	r8.2	5.6	r-2.5	r4.2	r0.9	r-3.7
	ANNUAL	r1.6	0.7	r-0.9	r2.8	r0.7	r1.2
2000	I	r1.9	0.5	r-1.4	r5.5	r1.4	r3.5
	II	r1.8	1.2	r-0.6	r6.4	r3.4	r4.5
	III	r1.9	-1.5	r-3.4	r9.1	r5.4	r7.1
	IV	r4.5	-3.1	r-7.3	r9.6	r6.5	r4.9
	ANNUAL	r3.3	1.2	r-2.1	r5.9	r2.4	r2.4
2001	I	r-3.0	r-5.9	r-3.0	r6.2	r1.9	r9.4
	II	-2.3	-6.1	-3.9	6.1	3.0	8.6
Percent change from corresponding quarter of previous year							
1999	I	r1.1	-0.3	-1.5	r3.2	r1.6	r2.0
	II	r0.7	0.0	r-0.7	2.4	r0.5	r1.7
	III	r1.2	0.7	r-0.5	r2.5	r0.2	r1.3
	IV	3.4	2.4	-1.0	r3.2	r0.5	r-0.2
	ANNUAL	r1.6	0.7	r-0.9	r2.8	r0.7	r1.2
2000	I	r3.5	2.0	r-1.4	r4.4	r1.1	r0.9
	II	r3.9	2.0	r-1.9	r5.2	r1.9	r1.2
	III	r3.4	1.4	r-2.0	r6.3	r2.7	r2.8
	IV	r2.5	-0.8	r-3.2	r7.6	r4.1	r5.0
	ANNUAL	r3.3	1.2	r-2.1	r5.9	r2.4	r2.4
2001	I	r1.3	r-2.4	r-3.6	r7.8	r4.3	r6.5
	II	0.3	-4.2	-4.4	7.8	4.2	7.5

See footnotes following Table 6.
r=revised

August 7, 2001
Source: Bureau of Labor Statistics

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

Year and quarter	Output per all-employee hour	Output	Employee hours	Hourly compensation (1)	Real hourly compensation (2)	Unit labor costs	Unit non-labor costs (6)	Total unit costs (7)	Unit profits (8)	Implicit price deflator (4)
Indexes 1992=100										
1999	I	r114.3	r139.2	r121.8	r119.2	r103.2	r104.3	r103.0	r103.9	r141.8
	II	r114.4	r140.3	122.6	r120.4	r103.5	r105.2	r103.7	r104.8	r135.8
	III	r115.2	r142.3	r123.4	r121.9	r104.0	r105.8	r105.1	r105.6	r128.2
	IV	r116.5	r145.0	r124.5	r123.1	104.1	r105.6	r105.0	r105.4	r131.1
	ANNUAL	r115.1	r141.7	r123.1	r121.2	r103.8	r105.2	r104.2	r105.0	r134.2
2000	I	r117.7	r147.5	r125.4	r124.7	r104.5	r106.0	r105.5	r105.9	r134.3
	II	r119.7	r150.3	r125.5	r127.2	r105.8	r106.2	r105.3	r106.0	r137.8
	III	r120.9	r151.9	r125.6	r129.3	r106.6	r106.9	r105.6	r106.6	r133.8
	IV	r121.4	r152.4	r125.6	r132.3	r108.3	r109.0	r106.0	r108.2	r118.5
	ANNUAL	r119.9	r150.5	r125.5	r128.3	r106.4	r107.0	105.6	r106.7	r131.0
2001	I	r121.5	r152.6	r125.6	r134.1	r108.7	r110.3	r107.5	r109.6	r109.2
Percent change from previous quarter at annual rate(5)										
1999	I	r3.9	r6.0	r2.0	r4.5	r2.9	r0.6	r-1.0	r0.1	r12.4
	II	r0.4	r3.2	r2.8	r4.2	r1.3	r3.8	r2.8	r3.6	r-16.0
	III	r2.8	r5.6	r2.7	r4.9	r1.9	r2.1	r5.5	r3.0	r-20.4
	IV	r4.5	r8.0	r3.3	r3.8	r0.6	r-0.6	r-0.7	r-0.6	r9.1
	ANNUAL	r3.0	r5.5	r2.4	4.5	2.3	r1.4	r2.0	r1.6	r-5.3
2000	I	r4.0	r7.2	3.0	r5.5	r1.4	r1.4	r2.2	r1.6	r10.2
	II	r7.1	r7.6	r0.5	r8.1	r5.0	r0.9	r-0.7	r0.4	r11.0
	III	r4.0	4.4	r0.4	r6.8	r3.1	r2.7	r0.8	r2.2	r-11.1
	IV	r1.6	r1.3	r-0.3	r9.6	r6.5	r7.9	r1.7	r6.2	r-38.6
	ANNUAL	r4.1	r6.2	r2.0	r5.9	r2.5	r1.7	r1.3	r1.6	r-2.3
2001	I	r0.6	r0.7	r0.0	r5.7	r1.5	r5.0	r5.8	r5.2	r-27.8
Percent change from corresponding quarter of previous year										
1999	I	r4.0	r6.1	2.0	4.7	3.1	r0.7	r1.3	r0.8	r-1.3
	II	r2.9	r5.4	2.4	4.4	2.4	r1.4	r1.8	r1.5	r-3.2
	III	r2.2	r4.9	r2.6	4.4	2.0	r2.1	r3.3	r2.4	r-11.5
	IV	r2.9	r5.7	r2.7	4.4	1.7	r1.5	r1.6	r1.5	r-4.9
	ANNUAL	r3.0	r5.5	r2.4	4.5	2.3	r1.4	r2.0	r1.6	r-5.3
2000	I	r2.9	r6.0	r3.0	r4.6	r1.3	r1.7	r2.4	r1.9	r-5.3
	II	r4.6	7.1	r2.4	r5.6	r2.2	r0.9	r1.6	r1.1	r1.5
	III	r4.9	r6.8	r1.8	r6.0	r2.5	r1.1	r0.4	r0.9	r4.3
	IV	r4.2	r5.1	r0.9	r7.5	r4.0	r3.2	r1.0	r2.6	r-9.6
	ANNUAL	r4.1	r6.2	r2.0	r5.9	r2.5	r1.7	r1.3	r1.6	r-2.3
2001	I	r3.3	r3.4	0.1	r7.5	r4.0	r4.1	r1.9	r3.5	r-18.7

See footnotes following Table 6.

r=revised

August 7, 2001

Source: Bureau of Labor Statistics

Appendix table 1. Business sector: Revised productivity, hourly compensation, unit labor costs, and prices, seasonally adjusted

Year and quarter	Output per hour of all persons	Output	Hours of all persons	Compensation per hour (1)	Real compensation per hour (2)	Unit labor costs	Unit non-labor payments (3)	Implicit price deflator (4)	
Indexes 1992=100									
1996	I	104.4	114.0	109.2	108.5	99.3	104.0	112.3	107.0
	II	105.6	116.1	110.0	109.7	99.6	103.9	113.7	107.5
	III	105.6	116.8	110.7	110.7	100.0	104.8	113.3	108.0
	IV	106.0	118.4	111.7	111.6	99.9	105.3	113.7	108.4
	ANNUAL	105.4	116.4	110.4	110.1	99.8	104.5	113.3	107.7
1997	I	106.4	119.9	112.7	112.2	99.9	105.4	115.3	109.1
	II	107.5	122.0	113.5	112.5	100.0	104.7	118.0	109.6
	III	108.5	123.5	113.8	113.8	100.7	104.9	118.4	109.9
	IV	108.7	124.4	114.5	115.6	101.7	106.4	116.7	110.2
	ANNUAL	107.8	122.5	113.6	113.5	100.7	105.3	117.1	109.7
1998	I	110.0	126.7	115.2	117.6	103.3	106.9	116.1	110.3
	II	110.0	127.3	115.8	119.1	104.4	108.3	114.0	110.4
	III	110.7	128.7	116.3	120.6	105.2	108.9	113.7	110.7
	IV	111.9	131.3	117.3	121.8	105.8	108.8	114.2	110.8
	ANNUAL	110.7	128.5	116.1	119.8	104.8	108.2	114.5	110.6
Percent change from previous quarter at annual rate(5)									
1996	I	4.0	4.1	0.1	2.2	-0.9	-1.8	7.4	1.7
	II	4.6	7.6	2.8	4.5	1.0	-0.1	5.1	1.9
	III	-0.1	2.4	2.5	3.5	1.5	3.6	-1.4	1.6
	IV	1.5	5.5	3.9	3.2	-0.1	1.6	1.3	1.5
	ANNUAL	2.8	4.4	1.6	3.2	0.4	0.4	3.5	1.6
1997	I	1.6	5.2	3.5	2.2	-0.1	0.6	5.9	2.6
	II	4.2	7.1	2.8	1.4	0.5	-2.7	9.6	1.9
	III	3.8	4.9	1.1	4.5	2.8	0.7	1.5	1.0
	IV	0.6	3.2	2.6	6.4	4.2	5.8	-5.7	1.1
	ANNUAL	2.3	5.2	2.9	3.1	0.9	0.8	3.4	1.8
1998	I	4.9	7.5	2.5	7.1	6.3	2.1	-2.0	0.5
	II	0.1	1.9	1.9	5.4	4.2	5.3	-6.9	0.5
	III	2.6	4.4	1.7	5.0	3.4	2.3	-1.2	0.9
	IV	4.6	8.2	3.5	4.2	2.3	-0.4	2.0	0.5
	ANNUAL	2.7	4.9	2.2	5.5	4.0	2.8	-2.2	0.8
Percent change from corresponding quarter of previous year									
1996	I	2.4	3.2	0.8	2.8	0.2	0.5	3.1	1.5
	II	3.2	4.9	1.6	3.1	0.5	0.0	4.2	1.6
	III	3.0	4.5	1.5	3.4	0.7	0.4	3.6	1.6
	IV	2.5	4.9	2.3	3.3	0.4	0.8	3.0	1.7
	ANNUAL	2.8	4.4	1.6	3.2	0.4	0.4	3.5	1.6
1997	I	1.9	5.2	3.2	3.3	0.6	1.4	2.7	1.9
	II	1.8	5.0	3.2	2.6	0.4	0.7	3.8	1.9
	III	2.8	5.7	2.8	2.8	0.8	0.0	4.5	1.8
	IV	2.5	5.1	2.5	3.6	1.8	1.1	2.7	1.7
	ANNUAL	2.3	5.2	2.9	3.1	0.9	0.8	3.4	1.8
1998	I	3.3	5.7	2.2	4.8	3.4	1.4	0.7	1.1
	II	2.3	4.4	2.0	5.8	4.3	3.5	-3.3	0.8
	III	2.0	4.2	2.2	6.0	4.5	3.9	-4.0	0.7
	IV	3.0	5.5	2.4	5.4	4.0	2.3	-2.1	0.6
	ANNUAL	2.7	4.9	2.2	5.5	4.0	2.8	-2.2	0.8

See footnotes following Table 6.

August 7, 2001
Source: Bureau of Labor Statistics

Appendix table 2. Nonfarm business sector: Revised productivity, hourly compensation, unit labor costs, and prices, seasonally adjusted

Year and quarter	Output per hour of all persons	Output	Hours of all persons	Compensation per hour (1)	Real compensation per hour (2)	Unit labor costs	Unit non-labor payments (3)	Implicit price deflator (4)	
Indexes 1992=100									
1996	I	104.5	114.4	109.4	108.3	99.2	103.6	112.7	106.9
	II	105.6	116.4	110.3	109.5	99.3	103.7	113.8	107.3
	III	105.5	117.2	111.0	110.3	99.6	104.5	113.4	107.7
	IV	105.9	118.7	112.1	111.2	99.6	104.9	114.2	108.3
	ANNUAL	105.4	116.7	110.7	109.8	99.5	104.2	113.5	107.6
1997	I	106.2	120.2	113.1	111.8	99.6	105.2	115.9	109.1
	II	107.3	122.2	113.9	112.2	99.7	104.5	118.8	109.7
	III	108.2	123.6	114.2	113.3	100.3	104.7	119.4	110.1
	IV	108.4	124.7	115.0	115.0	101.3	106.1	117.8	110.4
	ANNUAL	107.5	122.7	114.1	113.1	100.3	105.2	118.0	109.8
1998	I	109.6	127.0	115.9	116.9	102.7	106.7	117.3	110.5
	II	109.7	127.7	116.3	118.5	103.9	108.0	115.2	110.6
	III	110.4	129.0	116.9	120.0	104.7	108.7	114.8	111.0
	IV	111.6	131.6	118.0	121.2	105.3	108.6	115.4	111.1
	ANNUAL	110.3	128.8	116.8	119.2	104.2	108.0	115.7	110.8
Percent change from previous quarter at annual rate(5)									
1996	I	3.8	3.9	0.1	2.3	-0.8	-1.5	6.7	1.6
	II	4.1	7.4	3.2	4.2	0.7	0.0	4.1	1.6
	III	-0.2	2.5	2.7	3.1	1.1	3.3	-1.5	1.4
	IV	1.5	5.6	4.0	3.2	-0.1	1.7	2.7	2.1
	ANNUAL	2.5	4.3	1.7	3.1	0.3	0.5	2.8	1.4
1997	I	1.1	4.8	3.7	2.3	0.0	1.1	6.3	3.1
	II	4.2	7.1	2.7	1.4	0.6	-2.6	10.2	2.2
	III	3.3	4.6	1.3	4.0	2.3	0.7	2.4	1.3
	IV	0.6	3.4	2.8	6.2	4.0	5.6	-5.5	1.1
	ANNUAL	2.0	5.1	3.1	3.0	0.8	0.9	3.9	2.1
1998	I	4.7	7.8	3.0	6.8	6.0	2.0	-1.7	0.6
	II	0.5	2.1	1.6	5.6	4.4	5.1	-6.7	0.4
	III	2.2	4.3	2.0	5.0	3.4	2.7	-1.3	1.2
	IV	4.5	8.3	3.6	4.0	2.1	-0.4	2.0	0.5
	ANNUAL	2.6	5.0	2.4	5.4	3.9	2.7	-1.9	0.9
Percent change from corresponding quarter of previous year									
1996	I	2.3	3.2	0.9	2.8	0.2	0.5	2.5	1.3
	II	3.0	4.8	1.8	3.0	0.4	0.1	3.2	1.2
	III	2.7	4.4	1.7	3.2	0.5	0.5	2.8	1.3
	IV	2.3	4.8	2.5	3.2	0.2	0.9	3.0	1.7
	ANNUAL	2.5	4.3	1.7	3.1	0.3	0.5	2.8	1.4
1997	I	1.6	5.1	3.4	3.2	0.4	1.5	2.9	2.0
	II	1.6	5.0	3.3	2.5	0.4	0.9	4.3	2.2
	III	2.5	5.5	2.9	2.7	0.7	0.2	5.3	2.2
	IV	2.3	5.0	2.6	3.5	1.7	1.1	3.1	1.9
	ANNUAL	2.0	5.1	3.1	3.0	0.8	0.9	3.9	2.1
1998	I	3.2	5.7	2.5	4.6	3.2	1.4	1.2	1.3
	II	2.3	4.5	2.2	5.7	4.2	3.3	-3.0	0.8
	III	2.0	4.4	2.3	5.9	4.4	3.8	-3.8	0.8
	IV	2.9	5.6	2.6	5.3	4.0	2.3	-2.0	0.7
	ANNUAL	2.6	5.0	2.4	5.4	3.9	2.7	-1.9	0.9

See footnotes following Table 6.

August 7, 2001
Source: Bureau of Labor Statistics

Appendix table 3. Manufacturing sector: Revised productivity, hourly compensation, and unit labor costs, seasonally adjusted

Year and quarter		Output per hour of all persons	Output	Hours of all persons	Compensation per hour (1)	Real compensation per hour (2)	Unit labor costs
Indexes 1992=100							
1996	I	111.3	114.2	102.6	108.4	99.2	97.4
	II	112.3	116.5	103.7	109.1	99.0	97.1
	III	113.4	118.0	104.0	109.6	99.0	96.7
	IV	114.3	119.1	104.3	110.3	98.8	96.5
	ANNUAL	112.8	117.0	103.6	109.4	99.1	96.9
1997	I	115.2	121.1	105.1	110.3	98.2	95.8
	II	116.2	122.7	105.6	110.5	98.2	95.1
	III	118.9	125.1	105.2	111.6	98.7	93.8
	IV	120.2	127.4	106.0	113.3	99.8	94.3
	ANNUAL	117.6	124.1	105.5	111.4	98.8	94.7
1998	I	121.8	129.0	105.9	115.4	101.4	94.7
	II	123.1	129.8	105.5	117.0	102.5	95.1
	III	125.2	130.8	104.5	118.2	103.2	94.4
	IV	125.8	132.0	104.9	119.1	103.5	94.7
	ANNUAL	124.0	130.4	105.2	117.4	102.7	94.7
Percent change from previous quarter at annual rate(5)							
1996	I	3.6	0.4	-3.2	-0.6	-3.6	-4.1
	II	3.5	8.1	4.4	2.3	-1.1	-1.1
	III	4.1	5.3	1.2	2.2	0.2	-1.8
	IV	3.0	3.9	0.9	2.4	-0.9	-0.5
	ANNUAL	3.5	3.1	-0.4	1.4	-1.3	-2.1
1997	I	3.2	6.7	3.4	-0.1	-2.4	-3.2
	II	3.8	5.5	1.6	0.8	0.0	-2.8
	III	9.6	8.2	-1.3	3.9	2.1	-5.3
	IV	4.3	7.4	3.0	6.4	4.2	2.1
	ANNUAL	4.3	6.1	1.8	1.9	-0.3	-2.3
1998	I	5.5	5.1	-0.4	7.6	6.8	2.0
	II	4.2	2.5	-1.6	5.7	4.5	1.5
	III	7.0	3.2	-3.6	4.0	2.5	-2.8
	IV	2.0	3.5	1.5	3.1	1.2	1.1
	ANNUAL	5.4	5.1	-0.2	5.4	3.9	0.0
Percent change from corresponding quarter of previous year							
1996	I	3.6	1.1	-2.4	1.5	-1.0	-2.0
	II	3.4	3.2	-0.2	1.2	-1.4	-2.2
	III	3.5	3.9	0.4	1.2	-1.4	-2.3
	IV	3.5	4.4	0.8	1.6	-1.4	-1.9
	ANNUAL	3.5	3.1	-0.4	1.4	-1.3	-2.1
1997	I	3.4	6.0	2.5	1.7	-1.0	-1.7
	II	3.5	5.3	1.8	1.3	-0.8	-2.1
	III	4.9	6.1	1.1	1.7	-0.3	-3.0
	IV	5.2	6.9	1.7	2.7	1.0	-2.3
	ANNUAL	4.3	6.1	1.8	1.9	-0.3	-2.3
1998	I	5.8	6.6	0.7	4.7	3.3	-1.1
	II	5.9	5.8	-0.1	5.9	4.4	0.0
	III	5.2	4.6	-0.6	5.9	4.5	0.7
	IV	4.7	3.6	-1.0	5.1	3.7	0.4
	ANNUAL	5.4	5.1	-0.2	5.4	3.9	0.0

See footnotes following Table 6.

August 7, 2001

Source: Bureau of Labor Statistics

Appendix table 4. Durable manufacturing sector: Revised productivity, hourly compensation, and unit labor costs, seasonally adjusted

Year and quarter		Output per hour of all persons	Output	Hours of all persons	Compensation per hour (1)	Real compensation per hour (2)	Unit labor costs
Indexes 1992=100							
1996	I	116.2	122.7	105.6	106.8	97.8	91.9
	II	117.6	126.2	107.3	107.1	97.2	91.1
	III	118.9	128.1	107.7	107.6	97.2	90.5
	IV	119.9	129.4	108.0	108.0	96.7	90.1
	ANNUAL	118.2	126.6	107.2	107.4	97.3	90.9
1997	I	120.4	132.0	109.6	107.6	95.9	89.4
	II	122.3	134.9	110.2	107.9	95.9	88.2
	III	125.8	138.6	110.2	109.0	96.4	86.6
	IV	128.1	142.3	111.1	110.9	97.6	86.6
	ANNUAL	124.2	137.0	110.3	108.9	96.5	87.7
1998	I	130.6	145.6	111.5	112.9	99.2	86.5
	II	132.5	147.2	111.1	114.4	100.2	86.3
	III	136.1	149.9	110.2	115.4	100.7	84.8
	IV	137.7	152.7	110.9	116.6	101.3	84.7
	ANNUAL	134.2	148.8	110.9	114.8	100.4	85.6
Percent change from previous quarter at annual rate(5)							
1996	I	4.8	2.4	-2.3	-3.1	-6.1	-7.6
	II	4.7	11.9	6.9	1.0	-2.3	-3.5
	III	4.6	6.1	1.4	1.8	-0.2	-2.7
	IV	3.2	4.2	0.9	1.4	-1.8	-1.7
	ANNUAL	4.4	5.4	0.9	-0.1	-2.8	-4.4
1997	I	1.9	8.2	6.2	-1.2	-3.4	-3.0
	II	6.5	9.0	2.3	0.9	0.1	-5.3
	III	11.8	11.6	-0.2	4.0	2.2	-7.0
	IV	7.5	11.2	3.4	7.3	5.0	-0.2
	ANNUAL	5.1	8.2	2.9	1.4	-0.8	-3.5
1998	I	8.0	9.4	1.3	7.5	6.8	-0.5
	II	6.0	4.4	-1.5	5.4	4.2	-0.6
	III	11.3	7.7	-3.2	3.5	2.0	-7.0
	IV	4.8	7.6	2.7	4.1	2.2	-0.7
	ANNUAL	8.1	8.7	0.5	5.5	4.0	-2.4
Percent change from corresponding quarter of previous year							
1996	I	4.1	2.9	-1.1	0.1	-2.4	-3.8
	II	4.6	6.0	1.3	-0.5	-3.1	-4.9
	III	4.7	6.4	1.7	-0.5	-3.0	-4.9
	IV	4.3	6.1	1.7	0.2	-2.6	-3.9
	ANNUAL	4.4	5.4	0.9	-0.1	-2.8	-4.4
1997	I	3.6	7.6	3.8	0.8	-1.9	-2.7
	II	4.0	6.8	2.7	0.7	-1.4	-3.2
	III	5.8	8.2	2.3	1.3	-0.8	-4.3
	IV	6.9	10.0	2.9	2.7	0.9	-3.9
	ANNUAL	5.1	8.2	2.9	1.4	-0.8	-3.5
1998	I	8.4	10.3	1.7	4.9	3.5	-3.3
	II	8.3	9.1	0.7	6.0	4.5	-2.1
	III	8.2	8.2	0.0	5.9	4.5	-2.1
	IV	7.5	7.3	-0.2	5.1	3.8	-2.2
	ANNUAL	8.1	8.7	0.5	5.5	4.0	-2.4

See footnotes following Table 6.

August 7, 2001

Source: Bureau of Labor Statistics

Appendix table 5. Nondurable manufacturing sector: Revised productivity, hourly compensation, and unit labor costs, seasonally adjusted

Year and quarter		Output per hour of all persons	Output	Hours of all persons	Compensation per hour (1)	Real compensation per hour (2)	Unit labor costs
Indexes 1992=100							
1996	I	107.4	105.9	98.6	110.4	101.0	102.8
	II	108.1	106.9	98.9	111.5	101.2	103.1
	III	109.2	108.2	99.1	112.2	101.3	102.8
	IV	110.0	109.3	99.3	113.3	101.5	103.0
	ANNUAL	108.7	107.6	99.0	111.8	101.3	102.9
1997	I	111.7	110.8	99.2	113.7	101.3	101.8
	II	112.1	111.3	99.3	113.9	101.2	101.6
	III	114.2	112.6	98.6	114.8	101.6	100.6
	IV	114.4	113.4	99.2	116.2	102.3	101.6
	ANNUAL	113.1	112.0	99.0	114.7	101.7	101.4
1998	I	115.3	113.5	98.4	118.3	104.0	102.7
	II	115.8	113.6	98.1	120.1	105.3	103.7
	III	116.4	113.0	97.0	121.5	106.1	104.4
	IV	116.1	112.6	97.0	121.9	105.9	105.0
	ANNUAL	115.9	113.1	97.6	120.5	105.4	104.0
Percent change from previous quarter at annual rate(5)							
1996	I	2.7	-1.9	-4.5	3.5	0.3	0.8
	II	2.9	3.9	1.0	4.0	0.6	1.1
	III	3.9	4.8	0.9	2.8	0.8	-1.1
	IV	3.2	4.2	0.9	4.1	0.7	0.8
	ANNUAL	2.9	0.8	-2.1	3.6	0.9	0.7
1997	I	6.2	5.6	-0.6	1.2	-1.1	-4.7
	II	1.3	1.8	0.6	0.6	-0.2	-0.6
	III	7.8	4.6	-3.0	3.5	1.8	-4.0
	IV	0.7	3.2	2.4	5.0	2.7	4.2
	ANNUAL	4.1	4.1	0.1	2.5	0.3	-1.5
1998	I	3.0	0.1	-2.8	7.4	6.7	4.3
	II	2.0	0.3	-1.6	6.2	5.0	4.2
	III	2.1	-2.0	-4.1	4.8	3.2	2.6
	IV	-1.1	-1.4	-0.3	1.3	-0.6	2.3
	ANNUAL	2.5	1.0	-1.4	5.1	3.6	2.5
Percent change from corresponding quarter of previous year							
1996	I	3.3	-1.0	-4.1	3.6	1.0	0.3
	II	2.5	0.1	-2.4	3.6	0.9	1.1
	III	2.7	1.2	-1.5	3.6	0.9	0.9
	IV	3.2	2.7	-0.4	3.6	0.6	0.4
	ANNUAL	2.9	0.8	-2.1	3.6	0.9	0.7
1997	I	4.0	4.6	0.5	3.0	0.2	-1.0
	II	3.6	4.1	0.4	2.2	0.0	-1.4
	III	4.6	4.0	-0.5	2.3	0.3	-2.2
	IV	4.0	3.8	-0.2	2.6	0.8	-1.4
	ANNUAL	4.1	4.1	0.1	2.5	0.3	-1.5
1998	I	3.2	2.4	-0.7	4.1	2.7	0.9
	II	3.4	2.0	-1.3	5.5	4.0	2.1
	III	1.9	0.4	-1.5	5.8	4.4	3.8
	IV	1.5	-0.8	-2.2	4.9	3.5	3.3
	ANNUAL	2.5	1.0	-1.4	5.1	3.6	2.5

See footnotes following Table 6.

August 7, 2001

Source: Bureau of Labor Statistics

Appendix table 6. Nonfinancial corporations: Revised productivity, hourly compensation, unit labor costs, unit profits, and prices, seasonally adjusted

	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											
1996	I	106.4	117.0	110.0	107.8	98.6	101.3	101.3	101.3	150.5	105.5
	II	107.4	119.1	110.9	108.9	98.8	101.4	100.7	101.2	151.8	105.5
	III	107.9	120.7	111.9	109.5	98.9	101.5	100.3	101.2	151.9	105.5
	IV	108.4	122.9	113.4	109.8	98.3	101.2	100.2	100.9	154.6	105.5
	ANNUAL	107.5	119.9	111.5	109.0	98.7	101.4	100.6	101.2	152.2	105.5
1997	I	107.6	123.8	115.1	109.6	97.6	101.9	100.6	101.6	154.8	106.1
	II	107.6	125.7	116.8	109.5	97.3	101.7	101.5	101.7	155.4	106.2
	III	108.9	128.2	117.7	110.3	97.6	101.3	101.0	101.2	160.5	106.2
	IV	109.6	130.2	118.8	111.9	98.5	102.1	100.6	101.7	156.8	106.3
	ANNUAL	108.5	127.0	117.1	110.4	97.9	101.8	100.9	101.5	156.9	106.2
1998	I	109.9	131.3	119.4	113.8	100.0	103.6	101.7	103.1	143.8	106.5
	II	111.2	133.2	119.7	115.4	101.1	103.7	101.9	103.2	140.3	106.4
	III	112.8	135.6	120.3	116.8	102.0	103.6	101.8	103.1	144.9	106.6
	IV	113.3	137.2	121.2	117.9	102.4	104.1	103.3	103.9	137.8	106.8
	ANNUAL	111.8	134.3	120.1	116.0	101.4	103.7	102.2	103.3	141.7	106.6
Percent change from previous quarter at annual rate(5)											
1996	I	3.6	3.3	-0.3	2.2	-0.9	-1.4	-2.9	-1.8	21.7	0.7
	II	3.7	7.4	3.5	4.1	0.7	0.4	-2.1	-0.3	3.3	0.1
	III	1.8	5.6	3.8	2.3	0.3	0.5	-1.6	-0.1	0.4	0.0
	IV	2.2	7.5	5.2	1.0	-2.3	-1.2	-0.7	-1.0	7.1	-0.1
	ANNUAL	3.2	5.0	1.8	2.7	-0.1	-0.5	-1.5	-0.8	9.5	0.4
1997	I	-3.1	3.0	6.3	-0.4	-2.7	2.7	1.9	2.5	0.6	2.3
	II	0.1	6.0	5.9	-0.5	-1.3	-0.6	3.5	0.5	1.7	0.6
	III	4.9	8.4	3.3	3.1	1.4	-1.7	-2.1	-1.8	13.7	0.0
	IV	2.6	6.3	3.6	5.8	3.5	3.1	-1.5	1.8	-8.9	0.4
	ANNUAL	0.9	5.9	5.0	1.3	-0.9	0.4	0.3	0.4	3.1	0.7
1998	I	1.1	3.3	2.2	7.2	6.4	6.0	4.4	5.5	-29.3	0.6
	II	4.8	5.9	1.1	5.5	4.3	0.7	0.8	0.7	-9.2	-0.5
	III	5.7	7.7	1.9	5.0	3.4	-0.6	-0.4	-0.6	13.6	0.9
	IV	1.7	4.8	3.0	3.8	2.0	2.1	6.1	3.1	-18.3	0.5
	ANNUAL	3.1	5.8	2.6	5.1	3.7	2.0	1.2	1.8	-9.7	0.3
Percent change from corresponding quarter of previous year											
1996	I	3.2	4.0	0.8	2.5	-0.1	-0.7	-1.0	-0.8	12.2	0.6
	II	3.7	5.2	1.5	2.9	0.2	-0.8	-2.0	-1.1	12.8	0.4
	III	3.0	5.0	1.9	2.8	0.2	-0.2	-1.3	-0.5	5.8	0.2
	IV	2.8	5.9	3.0	2.4	-0.6	-0.4	-1.8	-0.8	7.8	0.2
	ANNUAL	3.2	5.0	1.8	2.7	-0.1	-0.5	-1.5	-0.8	9.5	0.4
1997	I	1.1	5.9	4.7	1.7	-1.0	0.6	-0.6	0.3	2.8	0.6
	II	0.2	5.5	5.3	0.6	-1.5	0.3	0.8	0.5	2.4	0.7
	III	1.0	6.2	5.2	0.8	-1.2	-0.2	0.6	0.0	5.6	0.7
	IV	1.1	5.9	4.8	2.0	0.2	0.8	0.4	0.7	1.4	0.8
	ANNUAL	0.9	5.9	5.0	1.3	-0.9	0.4	0.3	0.4	3.1	0.7
1998	I	2.2	6.0	3.7	3.8	2.5	1.6	1.0	1.5	-7.1	0.4
	II	3.3	6.0	2.5	5.4	3.9	2.0	0.4	1.5	-9.7	0.1
	III	3.5	5.8	2.2	5.9	4.4	2.2	0.8	1.9	-9.7	0.4
	IV	3.3	5.4	2.0	5.4	4.0	2.0	2.7	2.2	-12.1	0.4
	ANNUAL	3.1	5.8	2.6	5.1	3.7	2.0	1.2	1.8	-9.7	0.3

See footnotes following Table 6.

August 7, 2001
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. 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 -1.6 and +1.8 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 first 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