

# News

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## PRODUCTIVITY AND COSTS

Second Quarter 2004

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 2004. The preliminary seasonally adjusted annual rates of productivity change in the second quarter were:

1.9 percent in the business sector and  
2.9 percent in the nonfarm business sector.

Productivity growth in the business sector reflected increases of 3.5 percent in output and 1.5 percent in hours. Output per hour increased more in the nonfarm business sector because output grew more, 3.8 percent, and hours rose less, 0.8 percent, than in the business sector.

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

7.5 percent in manufacturing,  
5.7 percent in durable goods manufacturing, and  
10.7 percent in nondurable goods manufacturing.

Manufacturing productivity grew 7.5 percent in the second quarter as output increased 6.6 percent and hours declined 0.9 percent (seasonally adjusted annual rates). Output and hours in manufacturing, which includes about 13 percent of U.S. business-sector employment, tend to vary more from quarter to quarter than data for the aggregate business and nonfarm business sectors. Second-quarter measures are summarized in table A and appear in detail in tables 1 through 5.

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 30. They also incorporate new estimates of average weekly hours at work for nonproduction and supervisory workers, along with new information on seasonal patterns for farm workers, nonfarm proprietors and unpaid family workers, and employees of government enterprises. See Revised Measures, page 4.

Table A. Productivity and costs: Preliminary second-quarter 2004 measures (Seasonally adjusted annual rates)						
Sector	Productivity	Output	Hours	Hourly compensation	Real hourly compensation	Unit labor costs
Percent change from preceding quarter						
Business	1.9	3.5	1.5	4.2	-0.5	2.2
Nonfarm business	2.9	3.8	0.8	4.9	0.1	1.9
Manufacturing	7.5	6.6	-0.9	5.2	0.5	-2.2
Durable	5.7	6.4	0.7	4.7	-0.1	-1.0
Nondurable	10.7	6.9	-3.5	5.9	1.1	-4.4
Percent change from same quarter a year ago						
Business	4.1	5.5	1.3	4.6	1.7	0.5
Nonfarm business	4.7	5.9	1.1	4.8	1.9	0.2
Manufacturing	6.0	5.8	-0.2	5.9	3.0	0.0
Durable	7.4	8.5	1.1	5.4	2.5	-1.9
Nondurable	4.9	2.7	-2.1	6.7	3.7	1.7

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 (page 8).

### Business

From the first quarter to the second quarter of 2004, business sector output per hour increased at a 1.9-percent annual rate. Output increased 3.5 percent and hours of all persons engaged in the sector increased 1.5 percent (seasonally adjusted annual rates). As revised, labor productivity grew 3.9 percent in the first quarter of 2004, as output and hours increased 5.3 percent and 1.3 percent, respectively (table 1).

Hourly compensation increased 4.2 percent in the second quarter, less than the 4.8 percent gain in the first quarter of 2004 (seasonally adjusted annual rates). This measure of compensation includes wages and salaries, supplements, employer contributions to employee benefit plans, and taxes. Real hourly compensation, which takes into account changes in consumer prices, declined 0.5 percent during the second quarter of 2004, after rising 1.1 percent during the first quarter.

Unit labor costs, which reflect changes in both hourly compensation and productivity, increased 2.2 percent during the second quarter of 2004 after rising 0.8 percent in the previous quarter. The implicit price deflator for the business sector, which reflects changes in both unit labor costs and unit nonlabor payments, increased 3.2 percent in the second quarter and 2.1 percent in the first quarter of 2004.

### **Nonfarm Business**

Productivity increased 2.9 percent in the nonfarm business sector during the second quarter of 2004, as output increased 3.8 percent and hours of all persons rose 0.8 percent (seasonally adjusted annual rates). Output per hour grew at a 3.7 percent annual rate in the first quarter of 2004, as output increased 5.7 percent and hours increased 2.0 percent (table 2).

Hourly compensation in the nonfarm business sector increased 4.9 percent in the second quarter of 2004, up from the 4.0-percent rise one quarter earlier. When the rise in consumer prices is taken into account, real hourly compensation rose 0.1 percent in the second quarter of 2004 and 0.3 percent in the first quarter.

Unit labor costs increased 1.9 percent in the second quarter of 2004, after rising 0.3 percent during the first quarter. The implicit price deflator for nonfarm business output grew 2.8 percent in the second quarter, following a 2.0-percent increase in the previous quarter.

### **Manufacturing**

Productivity increased 7.5 percent in manufacturing, as output grew 6.6 percent and hours of all persons declined 0.9 percent (seasonally adjusted annual rates). In the previous quarter, productivity rose 2.8 percent, reflecting increases in output and hours of 6.2 and 3.3 percent, respectively. In durable goods, productivity rose 5.7 percent in the second quarter as output grew 6.4 percent and hours of all persons rose 0.7 percent. In nondurable goods, second-quarter productivity increased by 10.7 percent, output increased 6.9 percent, and hours fell 3.5 percent (tables 3, 4, and 5). The productivity gain in nondurable goods industries was the largest since the fourth quarter of 1999, when output per hour increased 12.6 percent.

Hourly compensation of all manufacturing workers rose 5.2 percent during the second quarter, reflecting growth of 4.7 percent in durable goods industries and 5.9 percent in the nondurable manufacturing sector. When the increase in consumer prices is taken into account, the real hourly compensation of all manufacturing workers increased by 0.5 percent in the second quarter, after rising 1.2 percent one quarter earlier.

Unit labor costs in manufacturing fell 2.2 percent in the second quarter of 2004, reflecting declines of 1.0 percent in durable goods industries and 4.4 percent in nondurable goods industries.

## Revised Measures

Current and previous measures for the first quarter of 2004 for the business, nonfarm business, and manufacturing sectors are compared in table B. In each of these sectors, productivity was revised downward from the preliminary numbers reported on June 3, as both output and hours were revised up—hours more than output. Hourly compensation and unit labor costs grew less in all three sectors than reported on June 3, based on information then available.

Table B also shows comparisons of current and previous measures for the fourth quarter of 2003. In that quarter, productivity in the business and nonfarm business sectors was revised up, reflecting upward revisions to output and downward revisions to hours worked. Hourly compensation for the fourth quarter of 2003 was revised up in both sectors. Because the upward revisions to productivity were larger than those to hourly compensation, unit labor costs in both sectors were revised down. In the manufacturing sector, productivity in the fourth quarter was revised down, reflecting an upward revision in hours. Hourly compensation was also revised down, but unit labor costs show a larger increase than reported earlier as the downward revision to hourly compensation was less than that to productivity.

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 2004						
Business:						
Previous .....	4.6	5.2	0.5	5.9	2.2	1.2
Current .....	3.9	5.3	1.3	4.8	1.1	0.8
Nonfarm business:						
Previous .....	3.8	5.4	1.5	4.6	0.9	0.8
Current .....	3.7	5.7	2.0	4.0	0.3	0.3
Manufacturing:						
Previous .....	2.9	5.8	2.8	6.2	2.5	3.1
Current .....	2.8	6.2	3.3	4.8	1.2	2.0
Fourth quarter 2003						
Business:						
Previous .....	1.8	3.9	2.0	3.8	3.0	1.9
Current .....	2.4	4.2	1.7	4.0	3.3	1.6
Nonfarm business:						
Previous .....	2.5	4.2	1.6	4.2	3.4	1.7
Current .....	3.1	4.6	1.4	4.4	3.6	1.2
Manufacturing:						
Previous .....	4.8	6.2	1.4	6.8	6.0	2.0
Current .....	3.3	6.2	2.9	5.7	4.9	2.3

Output data for the business and nonfarm business sectors and the 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. These revisions affected data beginning with the first quarter of 2001. Table C presents previous and revised measures for major sectors for the years 2001 to 2003. The largest revisions were to hourly compensation and, therefore, to real hourly compensation and unit labor costs for the years 2002 and 2003.

Table C. Previous and revised productivity and related measures Annual percent changes						
Sector	Productivity	Output	Hours	Hourly compensation	Real hourly compensation	Unit labor costs
Annual average 2003						
Business:						
Previous .....	4.5	3.7	-0.8	3.6	1.3	-0.8
Current .....	4.5	3.8	-0.7	4.1	1.8	-0.4
Nonfarm business:						
Previous .....	4.4	3.7	-0.7	3.5	1.2	-0.9
Current .....	4.4	3.8	-0.6	4.1	1.7	-0.4
Manufacturing:						
Previous .....	5.1	0.1	-4.8	5.9	3.5	0.7
Current .....	5.1	0.1	-4.8	8.5	6.1	3.2
Annual average 2002						
Business:						
Previous .....	4.9	2.3	-2.5	2.2	0.6	-2.5
Current .....	4.3	1.8	-2.4	3.2	1.5	-1.1
Nonfarm business:						
Previous .....	5.0	2.3	-2.6	2.3	0.7	-2.5
Current .....	4.4	1.8	-2.5	3.3	1.6	-1.1
Manufacturing:						
Previous .....	7.2	-0.6	-7.3	4.0	2.4	-3.0
Current .....	7.0	-0.6	-7.1	6.7	5.0	-0.3
Annual average 2001						
Business:						
Previous .....	2.2	0.1	-2.1	4.1	1.3	1.8
Current .....	2.5	0.3	-2.1	4.2	1.3	1.6
Nonfarm business:						
Previous .....	2.1	0.1	-2.0	3.9	1.1	1.7
Current .....	2.5	0.4	-2.0	4.0	1.1	1.5
Manufacturing:						
Previous .....	2.2	-4.6	-6.6	2.4	-0.4	0.2
Current .....	2.1	-4.6	-6.5	2.3	-0.4	0.2

Measures of hours for all of the major sectors have been revised to incorporate new estimates of average weekly hours at work for supervisory and nonproduction workers. Ratios of the average weekly hours at work for these employees relative to those of nonsupervisory and production workers were developed from data in the Current Population Survey. These ratios were applied to average weekly hours at work for nonsupervisory and production workers developed from data in the Current Employment Statistics and Employment Cost Index programs.

An article discussing these new measures and the effects of this change was published in the April 2004 issue of the *Monthly Labor Review*. A link to a technical note describing the methodology will be posted later this summer on the BLS labor productivity home page ([www.bls.gov/lpc/](http://www.bls.gov/lpc/)). Copies of the technical note also will be available by calling 202-691-5604, sending an email to [dprweb@bls.gov](mailto:dprweb@bls.gov), or writing to the Bureau of Labor Statistics, Division of Major Sector Productivity, Room 2150, Washington DC 20212.

New information on seasonal patterns is reflected in measures of employment and hours of farm workers, the nonfarm self-employed, and nonfarm unpaid family workers and in hours of employees in government enterprises, beginning in 1999. Concurrent seasonal adjustment will now be used when measuring employment and hours of these workers. Late in 2004 or early in 2005, BLS also intends to improve the way it uses these series in the productivity program, adjusting them to account for the effects of multiple jobholding. Further information on this change will be announced later this year.

Appendix tables 1-6 present quarterly and annual data for all sectors for 1999-2001.

## Revised Measures: Nonfinancial Corporations

Productivity and cost measures for the first quarter of 2004 for nonfinancial corporations also were revised to incorporate more recent information than was available in the June 3 release (table D). Productivity growth was revised down, reflecting both a downward revision to output and a larger increase in employee hours. The 2.7 increase in hours was the largest since the third quarter of 1999, when hours increased 3.1 percent. Hourly compensation growth was revised down one percentage point, like productivity, so the increase in unit labor costs was unchanged. Unit profits were revised up significantly.

Productivity and cost measures for the fourth quarter of 2003 also were revised to incorporate more recent information on output, hours, and employee compensation. Fourth quarter 2003 productivity was revised up, reflecting an upward revision to output. The revision to productivity was larger than the upward revision in hourly compensation, resulting in a larger decline in unit labor costs than originally reported.

Table D. 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 2004								
Previous	2.3	4.5	2.1	5.1	1.4	2.7	-0.9	1.9
Current	1.3	4.1	2.7	4.1	0.5	2.7	15.5	2.1
Fourth quarter 2003								
Previous	4.3	6.0	1.6	3.9	3.1	-0.4	11.6	1.1
Current	5.0	6.7	1.6	4.2	3.4	-0.8	16.1	0.4

### Next release date

The next release of **Productivity and Costs** is scheduled for **8:30 a.m. EDT, Thursday, Sept. 2, 2004**. 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. Weekly paid hours are adjusted to hours at work using data from the National Compensation Survey (NCS). The BLS Hours at Work survey, conducted for this purpose, was used for years prior to 2004. 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 for farm labor, nonfarm proprietors, and nonfarm unpaid family workers. Estimates of labor input 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.

**Output:** Business sector output is an annual-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 inputs. Business output accounted for about 78 percent of the value of GDP in 2000. Nonfarm business, which also excludes farming, accounted for about 77 percent of GDP in 2000.

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 3-digit NAICS industries: wood product manufacturing; nonmetallic mineral product manufacturing; primary metal manufacturing; fabricated metal product manufacturing; machinery manufacturing; computer and electronic product manufacturing; electrical equipment and appliance manufacturing; transportation equipment manufacturing; furniture and related product manufacturing; and miscellaneous manufacturing. Nondurables include: food manufacturing; beverage and tobacco product manufacturing; textile mills; textile product mills; apparel manufacturing; leather and allied product manufacturing; paper manufacturing; printing and related support activities; petroleum and coal products manufacturing; chemical manufacturing; and plastics and rubber products manufacturing.

Nonfinancial corporate output is an annual-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 54 percent of the value of GDP in 2000.

**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: 202-691-5606; 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									
2002	I	r122.7	r142.2	r115.9	r143.2	r115.2	r116.7	r113.4	r115.5
	II	r123.2	r142.9	r116.0	r144.4	r115.2	r117.2	r113.6	r115.9
	III	124.7	r144.3	r115.7	r145.0	r115.0	r116.3	r115.7	r116.1
	IV	r125.0	r144.7	r115.7	r145.5	r114.8	r116.3	r116.8	116.5
	ANNUAL	r123.9	r143.5	r115.8	r144.5	r115.0	r116.6	r114.9	r116.0
2003	I	r126.2	r145.5	r115.3	r147.4	r115.3	r116.8	r117.7	r117.1
	II	128.6	r147.5	r114.7	r149.6	r116.8	r116.4	r119.0	r117.3
	III	r131.2	r150.8	r114.9	r151.7	r117.7	r115.6	r120.8	r117.5
	IV	r132.0	r152.3	r115.4	r153.2	r118.7	r116.0	r120.7	r117.8
	ANNUAL	r129.5	r149.0	115.1	r150.5	r117.1	r116.2	r119.6	117.4
2004	I	r133.3	r154.3	r115.8	r155.0	r119.0	r116.3	r121.9	r118.4
	II	133.9	155.6	116.2	156.6	118.8	116.9	123.4	119.3
Percent change from previous quarter at annual rate(5)									
2002	I	r5.9	r3.5	r-2.3	r4.9	r3.5	r-1.0	r1.0	r-0.3
	II	r1.7	r2.1	r0.4	r3.4	r-0.1	r1.7	r1.0	r1.4
	III	r4.8	r3.8	r-1.0	r1.6	r-0.7	r-3.1	r7.3	r0.7
	IV	r1.2	r1.2	r0.0	r1.3	r-0.6	r0.0	r3.8	r1.4
	ANNUAL	r4.3	r1.8	r-2.4	r3.2	r1.5	r-1.1	r4.5	r0.9
2003	I	r3.9	r2.2	r-1.6	r5.5	r1.7	r1.6	r3.1	r2.1
	II	r7.6	r5.6	r-1.9	r6.1	r5.4	r-1.4	r4.5	r0.8
	III	r8.5	r9.3	r0.7	r5.6	r3.1	r-2.6	r6.3	r0.7
	IV	r2.4	r4.2	r1.7	r4.0	r3.3	r1.6	r-0.4	r0.8
	ANNUAL	4.5	r3.8	r-0.7	r4.1	r1.8	r-0.4	r4.1	r1.3
2004	I	r3.9	r5.3	r1.3	r4.8	r1.1	r0.8	r4.2	r2.1
	II	1.9	3.5	1.5	4.2	-0.5	2.2	4.8	3.2
Percent change from corresponding quarter of previous year									
2002	I	r4.9	r0.8	-3.9	r3.2	r1.9	r-1.6	r6.6	r1.2
	II	r4.0	r1.1	r-2.8	r3.4	r2.1	r-0.6	r3.5	r0.9
	III	r4.9	r2.8	r-2.0	r3.3	r1.6	r-1.6	r4.9	r0.8
	IV	r3.4	r2.7	r-0.7	r2.8	r0.5	r-0.6	r3.2	0.8
	ANNUAL	r4.3	r1.8	r-2.4	r3.2	r1.5	r-1.1	r4.5	r0.9
2003	I	r2.9	2.3	-0.6	r2.9	r0.1	r0.0	r3.8	1.4
	II	4.4	r3.2	r-1.1	r3.6	r1.4	r-0.7	r4.7	r1.3
	III	5.3	r4.5	r-0.7	r4.6	r2.4	r-0.6	r4.4	r1.3
	IV	r5.6	r5.3	r-0.3	r5.3	r3.3	r-0.3	r3.4	r1.1
	ANNUAL	4.5	r3.8	r-0.7	r4.1	r1.8	r-0.4	r4.1	r1.3
2004	I	5.6	r6.1	r0.5	r5.1	r3.2	r-0.4	r3.6	r1.1
	II	4.1	5.5	1.3	4.6	1.7	0.5	3.7	1.7

See footnotes following Table 6.  
r=revised

August 10, 2004

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									
2002	I	r122.4	r142.6	r116.5	r142.6	r114.7	r116.4	r115.1	r116.0
	II	122.8	r143.2	r116.7	r143.8	r114.7	r117.1	r115.4	r116.5
	III	r124.1	r144.5	r116.4	r144.3	r114.4	r116.2	r117.7	r116.8
	IV	r124.6	r145.0	116.4	r144.7	r114.3	r116.1	r118.9	r117.2
	ANNUAL	r123.5	r143.9	r116.5	r143.8	r114.5	r116.5	r116.8	r116.6
2003	I	r125.8	r145.9	r116.0	r146.6	r114.7	r116.6	r119.6	r117.7
	II	r127.8	r147.8	r115.6	r148.7	r116.1	r116.3	r120.4	r117.8
	III	r130.6	r151.1	115.7	r150.9	r117.1	r115.5	r122.3	r118.0
	IV	r131.7	r152.8	r116.1	r152.5	r118.2	r115.9	r121.9	r118.1
	ANNUAL	r129.0	r149.4	r115.8	r149.7	r116.5	r116.1	r121.1	117.9
2004	I	132.8	r155.0	r116.7	r154.0	r118.3	r116.0	r123.3	r118.7
	II	133.8	156.4	116.9	155.9	118.3	116.5	124.7	119.5
Percent change from previous quarter at annual rate(5)									
2002	I	r6.9	r4.0	r-2.7	r5.5	r4.1	r-1.4	r1.6	r-0.3
	II	r1.1	r1.7	r0.6	r3.4	r-0.1	r2.3	r1.0	r1.8
	III	4.5	r3.6	r-0.9	r1.5	r-0.8	r-2.9	r8.0	1.0
	IV	r1.6	r1.4	r-0.2	r1.2	r-0.6	r-0.3	r4.2	r1.3
	ANNUAL	r4.4	r1.8	r-2.5	r3.3	r1.6	r-1.1	r4.7	r1.0
2003	I	r3.7	2.4	r-1.3	r5.4	r1.5	r1.6	r2.4	r1.9
	II	r6.7	r5.3	r-1.4	r5.7	r5.0	r-1.0	r2.9	r0.5
	III	r9.0	r9.3	r0.3	r6.1	r3.6	r-2.7	r6.3	r0.6
	IV	r3.1	r4.6	r1.4	r4.4	r3.6	r1.2	r-1.2	r0.3
	ANNUAL	4.4	r3.8	r-0.6	r4.1	r1.7	r-0.4	r3.7	r1.1
2004	I	r3.7	r5.7	r2.0	r4.0	r0.3	r0.3	r4.8	r2.0
	II	2.9	3.8	0.8	4.9	0.1	1.9	4.4	2.8
Percent change from corresponding quarter of previous year									
2002	I	r5.1	r0.9	-4.0	r3.2	r2.0	r-1.8	r6.7	r1.2
	II	r4.0	r1.0	r-2.9	r3.5	r2.2	r-0.5	r3.4	r0.9
	III	r4.8	r2.6	-2.1	r3.4	r1.7	r-1.3	r5.2	r1.0
	IV	r3.5	r2.7	r-0.8	r2.9	r0.6	r-0.6	r3.7	1.0
	ANNUAL	r4.4	r1.8	r-2.5	r3.3	r1.6	r-1.1	r4.7	r1.0
2003	I	2.7	r2.3	-0.5	r2.9	r0.0	r0.1	r3.9	1.5
	II	4.1	r3.2	r-0.9	r3.4	r1.2	r-0.7	r4.4	1.2
	III	r5.2	r4.6	r-0.6	r4.6	r2.4	r-0.6	r3.9	r1.1
	IV	r5.6	r5.4	-0.2	r5.4	r3.4	r-0.2	r2.5	r0.8
	ANNUAL	4.4	r3.8	r-0.6	r4.1	r1.7	r-0.4	r3.7	r1.1
2004	I	r5.6	r6.2	r0.6	r5.0	r3.1	r-0.5	r3.1	r0.8
	II	4.7	5.9	1.1	4.8	1.9	0.2	3.5	1.4

See footnotes following Table 6.  
r=revised

August 10, 2004  
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 -----							
2002	I	r143.8	130.5	r90.7	r144.1	r115.9	r100.2
	II	r145.7	131.8	r90.4	r147.0	r117.2	r100.8
	III	r147.8	132.4	r89.5	r148.6	r117.8	r100.5
	IV	r148.8	131.3	r88.2	r149.9	r118.3	r100.7
	ANNUAL	r146.5	131.5	r89.7	r147.3	r117.3	r100.6
2003	I	r151.0	131.3	r87.0	r155.7	r121.8	r103.1
	II	r152.1	130.1	r85.6	r158.5	r123.8	r104.2
	III	r155.9	131.5	r84.3	r161.6	r125.4	r103.6
	IV	r157.2	133.5	r84.9	r163.9	r127.0	r104.2
	ANNUAL	r154.0	131.6	r85.5	r159.9	r124.5	r103.8
2004	I	r158.3	r135.5	r85.6	r165.8	r127.3	r104.8
	II	161.2	137.7	85.4	167.9	127.5	104.2
----- Percent change from previous quarter at annual rate(5) -----							
2002	I	r10.0	2.5	r-6.9	r14.2	r12.7	r3.8
	II	r5.4	4.0	r-1.3	r8.2	r4.5	r2.6
	III	r5.9	1.7	r-4.0	r4.5	r2.2	r-1.3
	IV	r2.7	-3.1	r-5.7	r3.5	r1.5	r0.7
	ANNUAL	r7.0	-0.6	r-7.1	r6.7	r5.0	r-0.3
2003	I	r6.0	0.1	r-5.6	r16.6	r12.4	r10.0
	II	r2.8	-3.6	r-6.2	r7.3	r6.6	r4.4
	III	r10.5	4.3	r-5.7	r8.1	r5.5	r-2.2
	IV	r3.3	6.2	r2.9	r5.7	r4.9	r2.3
	ANNUAL	5.1	0.1	-4.8	r8.5	r6.1	r3.2
2004	I	r2.8	r6.2	r3.3	r4.8	r1.2	r2.0
	II	7.5	6.6	-0.9	5.2	0.5	-2.2
----- Percent change from corresponding quarter of previous year -----							
2002	I	r6.6	-3.4	r-9.4	r4.1	r2.8	r-2.4
	II	r7.3	-1.1	r-7.9	r7.0	r5.6	r-0.3
	III	r8.0	0.9	-6.6	r8.2	r6.5	r0.2
	IV	r6.0	1.2	r-4.5	r7.5	r5.1	r1.4
	ANNUAL	r7.0	-0.6	r-7.1	r6.7	r5.0	r-0.3
2003	I	r5.0	0.6	r-4.2	r8.1	r5.1	r2.9
	II	r4.4	-1.3	-5.4	r7.9	r5.6	r3.3
	III	r5.5	-0.6	r-5.8	r8.8	r6.4	r3.1
	IV	r5.6	1.7	r-3.7	r9.4	r7.3	r3.5
	ANNUAL	5.1	0.1	-4.8	r8.5	r6.1	r3.2
2004	I	r4.8	r3.2	r-1.5	r6.5	r4.5	r1.6
	II	6.0	5.8	-0.2	5.9	3.0	0.0

See footnotes following Table 6.  
r=revised

August 10, 2004  
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							
2002	I	r161.3	152.6	r94.6	r142.1	r114.4	r88.1
	II	r163.9	154.7	r94.4	r145.2	r115.8	r88.6
	III	r167.1	155.9	r93.3	r146.5	r116.2	r87.7
	IV	r170.5	156.1	r91.6	r147.7	r116.6	r86.6
	ANNUAL	r165.6	154.8	r93.5	r145.3	r115.7	r87.7
2003	I	r173.7	156.6	r90.2	r154.9	r121.2	r89.2
	II	r175.0	155.1	r88.6	r157.9	r123.3	r90.2
	III	r181.5	158.3	87.2	r161.2	r125.1	r88.8
	IV	r183.2	161.9	r88.3	r163.3	r126.5	r89.1
	ANNUAL	r178.3	158.0	r88.6	r159.3	r124.0	r89.3
2004	I	r185.3	r165.7	r89.4	r164.5	r126.3	r88.8
	II	187.9	168.3	89.6	166.4	126.3	88.6
-----							
Percent change from previous quarter at annual rate(5)							
2002	I	r11.4	2.8	r-7.7	r8.2	r6.8	r-2.9
	II	r6.4	5.5	r-0.8	r8.8	r5.1	r2.2
	III	r8.1	3.3	r-4.5	r3.7	r1.3	-4.1
	IV	r8.4	0.4	r-7.3	r3.3	r1.4	r-4.7
	ANNUAL	r8.3	-0.7	r-8.3	r5.5	r3.9	r-2.5
2003	I	r7.7	1.4	r-5.9	r21.1	r16.7	r12.5
	II	r3.0	-3.9	r-6.7	r7.9	r7.2	r4.7
	III	r15.8	8.4	r-6.3	r8.6	r6.1	r-6.1
	IV	r3.9	9.4	r5.2	r5.3	r4.5	r1.3
	ANNUAL	r7.6	2.0	r-5.2	r9.6	r7.1	r1.8
2004	I	r4.6	r9.9	r5.0	r3.1	r-0.5	r-1.5
	II	5.7	6.4	0.7	4.7	-0.1	-1.0
-----							
Percent change from corresponding quarter of previous year							
2002	I	6.9	-4.9	r-11.1	r3.1	r1.9	r-3.6
	II	r8.2	-1.8	r-9.2	r6.0	r4.7	r-2.0
	III	r9.3	1.2	r-7.3	r7.0	r5.3	r-2.0
	IV	r8.6	3.0	r-5.1	r5.9	r3.6	r-2.4
	ANNUAL	r8.3	-0.7	r-8.3	r5.5	r3.9	r-2.5
2003	I	r7.6	2.6	r-4.7	r9.0	r5.9	r1.2
	II	6.8	0.3	-6.1	r8.8	r6.5	r1.9
	III	r8.6	1.5	r-6.6	r10.1	r7.7	r1.3
	IV	r7.5	3.7	r-3.5	r10.6	r8.5	r2.9
	ANNUAL	r7.6	2.0	r-5.2	r9.6	r7.1	r1.8
2004	I	r6.7	r5.8	r-0.9	r6.2	r4.3	r-0.5
	II	7.4	8.5	1.1	5.4	2.5	-1.9
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See footnotes following Table 6.  
r=revised

August 10, 2004  
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							
2002	I	r126.2	107.2	r85.0	r146.3	r117.7	r116.0
	II	r127.5	107.8	r84.5	r148.8	r118.7	r116.7
	III	r128.5	107.7	r83.9	r151.1	r119.8	r117.6
	IV	r127.0	105.7	r83.2	r152.6	r120.5	r120.2
	ANNUAL	r127.3	107.1	r84.1	r149.7	r119.2	r117.6
2003	I	r128.2	105.3	r82.1	r155.8	r121.9	r121.6
	II	r129.0	104.4	r81.0	r158.3	r123.6	r122.7
	III	r130.4	104.3	r80.0	r161.1	r125.0	r123.5
	IV	r131.5	105.0	r79.8	r163.4	r126.6	r124.2
	ANNUAL	r129.7	104.8	r80.7	r159.6	r124.2	r123.0
2004	I	r131.9	r105.5	r80.0	r166.4	r127.8	r126.2
	II	135.3	107.2	79.2	168.8	128.1	124.8
-----							
Percent change from previous quarter at annual rate(5)							
2002	I	r7.9	2.0	r-5.5	r27.1	r25.4	r17.7
	II	r4.3	2.2	r-2.0	r6.9	r3.3	r2.5
	III	r3.0	-0.2	r-3.1	r6.3	r3.9	r3.2
	IV	r-4.5	-7.3	r-2.9	r4.1	r2.2	r9.0
	ANNUAL	r4.8	-0.6	r-5.2	r9.3	r7.6	r4.3
2003	I	r3.9	-1.5	r-5.2	r8.7	r4.8	r4.6
	II	r2.4	-3.2	r-5.5	r6.4	r5.7	r3.9
	III	r4.4	-0.4	r-4.6	r7.2	r4.7	r2.7
	IV	r3.6	2.6	r-0.9	r5.8	r5.0	r2.2
	ANNUAL	1.9	-2.2	-4.0	r6.6	r4.2	r4.6
2004	I	r1.2	r1.8	r0.6	r7.8	r4.0	r6.5
	II	10.7	6.9	-3.5	5.9	1.1	-4.4
-----							
Percent change from corresponding quarter of previous year							
2002	I	r5.2	-1.7	r-6.5	r6.4	r5.1	r1.2
	II	r5.4	-0.4	r-5.5	r9.3	r7.9	r3.7
	III	r6.1	0.5	r-5.3	r10.8	r9.0	r4.5
	IV	r2.6	-0.9	r-3.4	r10.7	r8.3	r8.0
	ANNUAL	r4.8	-0.6	r-5.2	r9.3	r7.6	r4.3
2003	I	r1.6	-1.8	r-3.3	r6.5	r3.5	r4.8
	II	r1.1	-3.1	r-4.2	r6.4	r4.1	r5.2
	III	r1.5	-3.1	r-4.6	r6.6	r4.3	r5.0
	IV	r3.6	-0.7	r-4.1	r7.0	r5.1	r3.3
	ANNUAL	1.9	-2.2	-4.0	r6.6	r4.2	r4.6
2004	I	r2.9	r0.2	-2.6	r6.8	r4.9	r3.8
	II	4.9	2.7	-2.1	6.7	3.7	1.7
-----							

See footnotes following Table 6.  
r=revised

August 10, 2004  
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											
2002	I	r126.3	r149.7	r118.5	r139.9	r112.6	r110.8	r114.0	r111.6	r89.1	r109.6
	II	r127.9	r151.4	r118.4	r141.3	r112.7	r110.5	r112.9	r111.2	r94.7	r109.7
	III	r129.2	r152.3	r117.9	r142.1	r112.7	r110.0	r112.7	r110.7	r95.7	109.4
	IV	r130.2	r153.1	117.6	r142.9	r112.8	r109.7	r112.3	r110.4	r101.8	109.6
	ANNUAL	r128.4	r151.6	r118.1	r141.5	r112.7	r110.2	r113.0	r111.0	r95.4	109.6
2003	I	r131.3	r153.4	r116.8	r144.1	r112.7	r109.8	r113.2	r110.7	r99.2	r109.7
	II	r134.1	r156.1	r116.4	r146.3	r114.2	r109.1	r111.4	r109.7	r111.0	r109.8
	III	r137.2	r159.4	r116.2	r148.5	r115.3	r108.2	r111.1	r109.0	r118.7	109.9
	IV	r138.9	r162.0	116.7	r150.0	r116.2	r108.0	r110.5	r108.7	r123.2	r110.0
	ANNUAL	r135.4	r157.7	r116.5	r147.3	r114.6	r108.8	r111.5	r109.5	r113.2	109.8
2004	I	r139.3	r163.7	r117.5	r151.5	r116.4	r108.8	r109.2	r108.9	r127.7	r110.6
Percent change from previous quarter at annual rate(5)											
2002	I	r7.9	r5.7	r-2.0	r1.7	r0.4	r-5.8	r-7.3	r-6.2	r90.8	r-1.6
	II	r4.9	r4.8	r-0.1	r4.0	r0.4	r-0.9	r-3.7	r-1.7	r27.4	r0.2
	III	r4.1	r2.3	r-1.7	r2.3	r0.0	r-1.7	r-0.9	r-1.5	r4.5	r-1.0
	IV	r3.4	r2.1	r-1.2	r2.2	r0.3	r-1.1	r-1.4	r-1.2	r28.1	r0.9
	ANNUAL	r4.4	r1.5	r-2.8	r3.1	r1.4	r-1.3	r-0.2	r-1.0	r15.4	0.1
2003	I	r3.2	r0.6	r-2.5	r3.6	r-0.2	r0.4	r3.0	r1.1	r-10.0	r0.1
	II	r9.1	r7.4	r-1.5	r6.2	r5.5	r-2.6	r-6.2	r-3.6	r56.4	r0.5
	III	r9.4	r8.8	r-0.6	r6.2	r3.6	r-3.0	r-1.0	r-2.5	r30.8	r0.2
	IV	r5.0	r6.7	1.6	r4.2	r3.4	r-0.8	r-2.1	r-1.2	r16.1	r0.4
	ANNUAL	r5.4	r4.0	r-1.3	r4.0	r1.7	r-1.3	r-1.3	r-1.3	r18.7	0.2
2004	I	r1.3	r4.1	r2.7	r4.1	r0.5	2.7	r-4.6	r0.7	r15.5	r2.1
Percent change from corresponding quarter of previous year											
2002	I	r3.4	r-1.1	-4.3	r3.2	r2.0	r-0.2	r4.0	r0.9	r1.5	r1.0
	II	r4.2	r0.8	r-3.2	r3.4	r2.1	r-0.8	r0.6	r-0.4	r8.4	r0.2
	III	r5.0	r2.5	r-2.4	r3.1	r1.4	r-1.8	r-1.7	r-1.8	r20.6	r-0.4
	IV	5.1	r3.7	r-1.3	r2.5	r0.3	r-2.4	r-3.3	r-2.7	r34.3	r-0.4
	ANNUAL	r4.4	r1.5	r-2.8	r3.1	r1.4	r-1.3	r-0.2	r-1.0	r15.4	0.1
2003	I	r3.9	r2.5	r-1.4	r3.0	r0.1	r-0.9	r-0.8	-0.8	r11.3	r0.1
	II	r4.9	r3.1	r-1.7	r3.6	r1.4	-1.3	r-1.4	r-1.3	r17.2	r0.1
	III	r6.2	r4.7	r-1.5	r4.5	2.3	r-1.6	r-1.4	r-1.6	r23.9	0.4
	IV	r6.6	r5.8	r-0.8	r5.0	r3.1	r-1.5	r-1.6	r-1.6	r20.9	r0.3
	ANNUAL	r5.4	r4.0	r-1.3	r4.0	r1.7	r-1.3	r-1.3	r-1.3	r18.7	0.2
2004	I	r6.2	6.7	r0.5	r5.1	r3.2	r-1.0	r-3.5	r-1.7	r28.7	r0.8

See footnotes following Table 6.  
r=revised

August 10, 2004  
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  $-1.4$  and  $+1.4$  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 2004.

### 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 1978-2003 is based on the Consumer Price Index research 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 from the original data rather than index numbers. Annual changes: Percent change between annual average levels.
- (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 adjustments.

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									
1999	I	111.5	132.7	r118.9	r124.2	r107.9	111.3	108.5	110.3
	II	r111.8	133.9	r119.8	r124.6	r107.4	111.4	r108.9	110.5
	III	r112.6	135.7	r120.5	r125.7	r107.6	111.6	r109.5	110.8
	IV	r114.4	138.5	r121.1	r128.0	r108.8	r112.0	r109.8	111.1
	ANNUAL	r112.6	135.2	r120.1	r125.6	r107.9	111.6	109.2	110.7
2000	I	r114.0	138.6	r121.6	r132.4	r111.5	r116.2	r105.2	112.1
	II	r116.2	141.1	r121.5	r133.0	r111.0	114.4	r109.4	112.6
	III	r115.9	140.8	r121.5	r135.6	r112.2	r117.0	r106.2	112.9
	IV	r117.1	141.5	r120.8	r136.5	r112.2	r116.6	107.9	113.3
	ANNUAL	r115.9	140.5	r121.3	r134.5	r111.8	r116.1	107.2	112.7
2001	I	r117.0	r141.1	r120.7	r138.8	r113.0	r118.7	r106.4	114.1
	II	r118.4	r141.4	r119.4	r139.7	r112.8	r117.9	r109.9	r114.9
	III	r118.8	r140.3	r118.1	r140.4	r113.2	r118.2	r110.2	115.2
	IV	r120.9	r141.0	r116.6	141.5	114.2	r117.0	r113.1	r115.6
	ANNUAL	r118.8	r141.0	r118.7	r140.1	r113.3	r118.0	r109.9	114.9
Percent change from previous quarter at annual rate(5)									
1999	I	r3.7	3.7	r0.0	r8.3	r6.6	4.4	r-4.0	1.2
	II	r0.8	3.8	r3.0	r1.2	r-1.6	r0.4	r1.4	0.8
	III	r2.9	5.4	r2.4	r3.6	0.6	0.7	2.3	1.3
	IV	r6.5	8.4	r1.8	r7.7	r4.5	1.1	r1.0	1.1
	ANNUAL	2.9	5.1	r2.2	4.8	r2.6	1.8	-0.6	0.9
2000	I	r-1.4	0.3	1.7	14.5	r10.3	16.0	r-15.7	3.4
	II	r8.0	7.5	r-0.5	r1.6	r-1.6	-5.9	r17.1	1.8
	III	r-0.9	-0.8	r0.1	r8.1	r4.2	r9.1	r-11.2	1.3
	IV	r4.2	2.0	r-2.1	r2.9	r0.0	r-1.2	6.3	1.4
	ANNUAL	2.9	3.9	1.0	r7.1	3.6	4.0	-1.8	1.8
2001	I	r-0.5	r-1.1	r-0.6	r6.8	r3.1	r7.4	r-5.4	2.7
	II	r5.1	r0.8	r-4.1	r2.5	r-0.8	r-2.5	r13.8	r3.0
	III	r1.3	r-3.1	r-4.3	r2.2	r1.2	r0.8	r1.3	r1.0
	IV	r7.2	r1.8	-5.0	r3.1	r3.7	r-3.8	r10.9	r1.3
	ANNUAL	r2.5	r0.3	-2.1	r4.2	1.3	r1.6	r2.5	r2.0
Percent change from corresponding quarter of previous year									
1999	I	r2.8	4.9	r2.0	r5.6	r4.0	2.7	-2.6	0.7
	II	2.9	5.1	2.2	r4.6	2.5	1.6	-0.4	0.9
	III	r2.5	5.2	r2.6	r3.9	r1.5	1.4	r0.4	1.0
	IV	r3.5	5.3	r1.8	r5.2	r2.5	r1.7	0.2	1.1
	ANNUAL	2.9	5.1	r2.2	4.8	r2.6	1.8	-0.6	0.9
2000	I	r2.2	4.5	r2.2	r6.6	r3.3	r4.4	-3.0	1.6
	II	3.9	5.4	1.4	6.7	r3.4	2.7	0.5	1.9
	III	3.0	3.8	0.8	7.9	4.3	4.8	-3.0	1.9
	IV	2.4	2.2	-0.2	6.7	r3.1	r4.1	r-1.7	2.0
	ANNUAL	2.9	3.9	1.0	r7.1	3.6	4.0	-1.8	1.8
2001	I	r2.6	r1.8	-0.8	r4.8	r1.4	r2.2	r1.1	1.8
	II	r1.9	r0.2	-1.7	r5.0	r1.6	r3.0	r0.4	2.1
	III	r2.5	r-0.4	r-2.8	r3.6	r0.9	r1.0	r3.7	2.0
	IV	r3.2	r-0.4	-3.5	r3.6	r1.8	r0.4	r4.8	r2.0
	ANNUAL	r2.5	r0.3	-2.1	r4.2	1.3	r1.6	r2.5	r2.0

See footnotes following Table 6.  
r=revisedAugust 10, 2004  
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									
1999	I	r111.3	133.0	119.6	r123.6	r107.4	111.1	r109.5	110.5
	II	r111.5	134.3	r120.4	r124.0	r107.0	111.2	r110.5	111.0
	III	r112.3	136.1	r121.2	r125.1	r107.1	111.4	r111.3	111.3
	IV	r114.2	138.9	r121.6	r127.7	r108.5	r111.8	r111.6	111.7
	ANNUAL	r112.3	135.6	r120.7	r125.1	r107.5	r111.4	r110.7	111.1
2000	I	r113.7	138.8	r122.1	r132.1	r111.2	r116.2	r106.6	112.6
	II	r115.8	141.4	r122.1	r132.4	r110.6	r114.4	r111.0	113.1
	III	r115.5	141.1	r122.1	r135.1	r111.8	116.9	107.8	113.5
	IV	r116.6	141.8	r121.6	r135.9	r111.6	116.5	r109.4	113.9
	ANNUAL	r115.5	140.8	r121.9	r134.0	r111.4	116.0	r108.7	113.3
2001	I	r116.5	r141.4	r121.4	r138.1	r112.5	r118.6	r107.9	114.6
	II	r118.1	r141.9	r120.2	r138.9	r112.2	r117.6	r111.6	r115.4
	III	r118.5	r140.8	r118.9	r139.6	r112.5	r117.8	r111.9	115.6
	IV	r120.4	r141.2	r117.3	140.7	r113.5	r116.8	r114.7	116.0
	ANNUAL	r118.3	r141.3	r119.4	r139.3	r112.7	r117.7	r111.5	115.4
Percent change from previous quarter at annual rate(5)									
1999	I	r3.1	3.7	r0.6	r7.5	r5.9	r4.3	-3.6	1.3
	II	r0.9	3.7	r2.8	r1.4	r-1.5	r0.5	r3.5	1.6
	III	r2.9	5.6	r2.6	r3.5	r0.4	0.6	2.8	1.4
	IV	r6.9	8.4	r1.4	r8.4	r5.3	r1.4	r1.3	1.4
	ANNUAL	2.8	5.2	2.3	r4.6	2.5	1.8	-0.1	1.1
2000	I	-1.7	-0.1	1.6	14.7	10.5	16.7	r-16.8	3.3
	II	r7.4	7.5	r0.1	r1.0	r-2.2	-6.0	r17.4	1.8
	III	r-0.8	-0.8	r0.0	r8.2	r4.3	r9.1	r-11.0	1.4
	IV	r3.7	2.2	r-1.5	r2.4	r-0.5	-1.3	6.3	1.3
	ANNUAL	2.8	3.8	1.0	r7.1	3.6	4.2	r-1.8	1.9
2001	I	r-0.4	r-1.1	-0.7	r6.8	r3.0	r7.2	r-5.4	r2.6
	II	r5.5	r1.2	r-4.1	r2.2	r-1.0	r-3.1	r14.4	r2.7
	III	r1.4	r-2.9	r-4.3	r2.1	r1.1	r0.6	r0.9	r0.7
	IV	r6.6	r1.2	-5.1	r3.2	r3.7	r-3.3	r10.5	r1.5
	ANNUAL	r2.5	r0.4	-2.0	r4.0	1.1	r1.5	r2.6	1.9
Percent change from corresponding quarter of previous year									
1999	I	r2.7	4.9	r2.2	5.5	r3.8	2.7	-2.5	0.7
	II	2.6	5.1	r2.4	4.3	2.3	1.7	0.1	1.1
	III	r2.3	5.2	r2.8	r3.6	r1.3	1.3	0.9	1.2
	IV	r3.4	5.4	r1.8	r5.2	r2.5	r1.7	1.0	1.4
	ANNUAL	2.8	5.2	2.3	r4.6	2.5	1.8	-0.1	1.1
2000	I	r2.2	4.4	r2.1	r6.9	r3.6	r4.6	-2.7	1.9
	II	3.8	5.3	r1.4	r6.8	r3.4	2.8	r0.4	2.0
	III	2.9	3.6	r0.8	8.0	4.4	5.0	r-3.1	2.0
	IV	2.1	2.1	0.0	r6.4	r2.9	4.3	-2.0	2.0
	ANNUAL	2.8	3.8	1.0	r7.1	3.6	4.2	r-1.8	1.9
2001	I	r2.4	r1.9	r-0.5	r4.5	r1.1	r2.1	r1.2	1.8
	II	r2.0	r0.4	-1.6	r4.9	r1.4	r2.8	r0.6	r2.0
	III	r2.6	r-0.2	r-2.7	r3.3	r0.6	r0.8	r3.8	1.8
	IV	r3.3	r-0.4	r-3.6	r3.5	r1.7	r0.3	r4.8	r1.9
	ANNUAL	r2.5	r0.4	-2.0	r4.0	1.1	r1.5	r2.6	1.9

See footnotes following Table 6.  
r=revisedAugust 10, 2004  
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 -----							
1999	I	r126.6	132.9	r105.0	r121.6	r105.6	96.0
	II	127.4	133.9	105.1	122.3	105.5	96.0
	III	r127.6	134.7	r105.6	r123.7	r105.9	r97.0
	IV	r130.7	136.8	r104.6	r127.0	r107.9	97.2
	ANNUAL	r128.1	134.6	r105.1	r123.7	r106.2	96.6
2000	I	132.4	137.9	r104.1	133.4	112.3	r100.7
	II	r134.0	139.7	r104.2	132.6	r110.8	99.0
	III	r134.0	139.1	r103.8	r136.0	r112.6	r101.6
	IV	r135.2	137.8	r101.9	r137.1	r112.6	r101.4
	ANNUAL	r134.1	138.6	r103.4	135.0	r112.2	r100.7
2001	I	r134.9	135.2	r100.2	r138.5	r112.7	r102.6
	II	r135.8	133.3	r98.2	137.4	111.0	r101.2
	III	r136.9	131.1	r95.8	r137.3	r110.6	r100.3
	IV	r140.4	129.7	r92.4	r139.4	r112.5	r99.3
	ANNUAL	r136.9	132.3	r96.6	r138.1	r111.7	r100.9
----- Percent change from previous quarter at annual rate(5) -----							
1999	I	r4.3	1.8	r-2.4	r3.3	r1.7	-0.9
	II	r2.4	2.9	r0.5	r2.5	r-0.4	r0.1
	III	r0.7	2.4	r1.7	r4.6	r1.5	r3.9
	IV	r10.3	6.3	r-3.6	r11.1	r7.9	r0.8
	ANNUAL	r3.6	2.9	r-0.6	r3.9	r1.8	0.3
2000	I	r5.4	3.5	r-1.8	r21.7	r17.3	r15.5
	II	r4.9	5.2	r0.4	r-2.4	r-5.5	-6.9
	III	r-0.2	-1.7	r-1.5	r10.7	r6.7	r10.9
	IV	r3.9	-3.6	r-7.2	r3.1	r0.2	r-0.8
	ANNUAL	4.7	3.0	-1.6	9.1	5.6	4.2
2001	I	r-1.0	-7.5	r-6.6	r4.1	r0.4	r5.1
	II	r2.7	-5.4	r-7.8	r-3.1	r-6.1	r-5.6
	III	r3.1	-6.3	r-9.2	r-0.3	r-1.2	r-3.3
	IV	r10.9	-4.3	r-13.7	r6.3	r7.0	r-4.1
	ANNUAL	r2.1	-4.6	r-6.5	r2.3	-0.4	0.2
----- Percent change from corresponding quarter of previous year -----							
1999	I	r4.0	2.5	r-1.4	r4.3	r2.7	r0.2
	II	3.8	2.8	-0.9	r3.2	1.2	-0.5
	III	r2.2	3.0	r0.8	r2.9	r0.5	0.7
	IV	r4.3	3.3	r-1.0	r5.3	r2.6	1.0
	ANNUAL	r3.6	2.9	r-0.6	r3.9	r1.8	0.3
2000	I	r4.6	3.8	r-0.8	r9.7	r6.4	4.9
	II	r5.2	4.4	r-0.8	8.4	r5.0	r3.0
	III	r5.0	3.3	r-1.6	r10.0	r6.3	4.7
	IV	3.5	0.8	-2.6	7.9	r4.4	4.3
	ANNUAL	4.7	3.0	-1.6	9.1	5.6	4.2
2001	I	r1.9	-2.0	r-3.8	r3.8	r0.4	1.9
	II	r1.3	-4.6	r-5.8	3.6	r0.2	r2.2
	III	r2.2	-5.7	-7.7	r0.9	r-1.7	r-1.2
	IV	3.8	-5.9	-9.4	r1.7	r-0.1	r-2.1
	ANNUAL	r2.1	-4.6	r-6.5	r2.3	-0.4	0.2

See footnotes following Table 6.  
r=revised

August 10, 2004  
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							
1999	I	r141.3	155.4	r110.0	r121.2	r105.3	85.8
	II	r142.9	157.3	r110.0	r122.2	r105.4	85.5
	III	r143.0	159.6	r111.6	123.6	105.8	r86.4
	IV	146.0	161.6	110.7	r127.4	108.2	87.2
	ANNUAL	r143.3	158.5	r110.6	r123.6	r106.2	86.2
2000	I	r149.2	164.5	r110.3	r134.6	r113.3	90.2
	II	r150.8	167.1	r110.8	r133.0	r111.1	88.2
	III	r151.1	166.7	r110.3	r136.9	r113.3	90.6
	IV	r151.7	164.6	r108.5	r136.9	r112.5	90.3
	ANNUAL	r150.9	165.7	109.9	r135.5	r112.6	89.8
2001	I	150.9	160.5	106.4	r137.8	r112.2	91.4
	II	r151.4	157.5	r104.0	r136.9	r110.6	r90.4
	III	r152.9	154.0	100.7	r136.8	r110.3	r89.5
	IV	r157.0	151.6	r96.5	139.4	112.5	r88.8
	ANNUAL	153.0	155.9	101.9	137.7	r111.4	90.0
-----							
Percent change from previous quarter at annual rate(5)							
1999	I	r7.1	2.5	r-4.2	r4.6	r3.0	r-2.3
	II	r4.8	4.8	r0.0	r3.4	r0.4	r-1.4
	III	r0.2	5.9	r5.6	r4.4	r1.3	r4.2
	IV	r8.6	5.2	r-3.1	r12.9	r9.6	r3.9
	ANNUAL	r5.9	5.5	r-0.3	r4.5	r2.4	-1.3
2000	I	r9.0	7.5	r-1.4	r24.7	r20.2	14.4
	II	r4.5	6.3	r1.8	r-4.6	r-7.6	r-8.7
	III	r0.8	-1.0	r-1.7	r12.3	r8.3	r11.4
	IV	r1.6	-4.7	r-6.2	r0.0	r-2.8	r-1.5
	ANNUAL	5.3	4.6	-0.7	r9.6	6.1	4.2
2001	I	r-2.2	-9.7	r-7.7	r2.7	r-0.9	r5.0
	II	r1.5	-7.3	r-8.7	r-2.6	r-5.7	r-4.0
	III	r4.1	-8.5	r-12.1	r-0.3	r-1.2	r-4.2
	IV	r11.2	-6.2	r-15.6	r7.7	r8.3	r-3.1
	ANNUAL	r1.4	-5.9	r-7.2	r1.6	-1.1	0.2
-----							
Percent change from corresponding quarter of previous year							
1999	I	r6.9	5.4	r-1.4	r4.6	r3.0	r-2.2
	II	7.0	6.1	-0.9	3.7	r1.6	-3.1
	III	r4.5	6.0	r1.5	r3.5	r1.2	r-0.9
	IV	r5.1	4.6	r-0.5	r6.2	r3.5	1.1
	ANNUAL	r5.9	5.5	r-0.3	r4.5	r2.4	-1.3
2000	I	r5.6	5.8	0.2	r11.0	7.6	5.1
	II	r5.5	6.2	r0.7	r8.8	r5.4	3.1
	III	5.6	4.5	-1.1	10.8	7.1	r4.9
	IV	r3.9	1.9	-1.9	r7.5	r4.0	3.5
	ANNUAL	5.3	4.6	-0.7	r9.6	6.1	4.2
2001	I	r1.1	-2.4	r-3.5	r2.4	r-0.9	1.3
	II	r0.4	-5.7	r-6.1	3.0	-0.4	r2.5
	III	1.2	-7.6	-8.7	r-0.1	r-2.7	r-1.3
	IV	r3.5	-7.9	r-11.1	r1.8	r0.0	r-1.7
	ANNUAL	r1.4	-5.9	r-7.2	r1.6	-1.1	0.2
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See footnotes following Table 6.  
r=revisedAugust 10, 2004  
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							
1999	I	r112.9	110.0	r97.5	r120.8	r104.9	107.0
	II	r112.7	110.1	r97.8	r121.1	r104.4	r107.4
	III	r113.3	109.5	r96.6	r122.2	r104.6	107.8
	IV	r116.8	111.6	r95.6	r124.5	r105.7	106.6
	ANNUAL	r113.9	110.3	r96.9	r122.1	r104.9	107.2
2000	I	r116.9	111.0	95.0	r129.1	108.7	r110.4
	II	r118.5	111.9	94.5	r129.7	r108.3	r109.5
	III	r117.9	111.1	r94.2	r132.1	r109.3	r112.0
	IV	r120.0	110.4	r92.0	r135.1	r111.0	r112.6
	ANNUAL	r118.5	111.1	r93.8	r131.7	r109.4	111.1
2001	I	r119.9	109.0	90.9	r137.5	r112.0	r114.6
	II	r121.0	108.2	r89.4	r136.1	r110.0	r112.5
	III	r121.1	107.2	r88.5	r136.3	r109.9	r112.6
	IV	r123.8	106.7	r86.2	r137.8	r111.2	111.3
	ANNUAL	r121.4	107.8	r88.8	r136.9	r110.7	112.8
-----							
Percent change from previous quarter at annual rate(5)							
1999	I	r0.6	1.4	r0.8	r1.5	r-0.1	r0.9
	II	r-0.8	0.4	r1.2	r0.8	r-2.0	1.7
	III	r2.4	-2.3	r-4.6	r3.9	r0.8	1.4
	IV	r12.6	7.8	r-4.3	r7.6	r4.4	-4.5
	ANNUAL	r0.8	-0.3	r-1.1	r2.7	r0.6	1.9
2000	I	r0.4	-2.2	r-2.5	r15.7	r11.5	r15.2
	II	r5.7	3.5	r-2.1	r2.0	r-1.3	r-3.5
	III	r-1.9	-3.1	r-1.2	r7.6	r3.7	r9.6
	IV	r7.2	-2.3	r-8.9	r9.4	r6.3	r2.0
	ANNUAL	r4.0	0.7	r-3.2	r7.8	r4.3	3.6
2001	I	r-0.2	-4.9	r-4.7	r7.4	3.6	r7.5
	II	r3.6	-3.0	r-6.3	r-3.9	r-6.9	r-7.2
	III	r0.3	-3.7	r-4.0	r0.5	r-0.4	r0.2
	IV	r9.2	-2.0	r-10.2	r4.4	r5.0	r-4.4
	ANNUAL	r2.5	-3.0	r-5.3	r4.0	r1.2	1.5
-----							
Percent change from corresponding quarter of previous year							
1999	I	r0.5	-1.0	r-1.5	r3.7	r2.1	3.2
	II	-0.2	-1.1	-0.9	2.4	0.4	2.6
	III	r-0.5	-0.8	r-0.3	r1.4	r-0.9	r1.9
	IV	r3.6	1.8	r-1.7	r3.4	r0.8	r-0.1
	ANNUAL	r0.8	-0.3	r-1.1	r2.7	r0.6	1.9
2000	I	r3.5	0.9	r-2.6	r6.8	r3.5	r3.2
	II	r5.2	1.6	r-3.4	r7.1	r3.7	r1.9
	III	r4.0	1.4	r-2.5	r8.1	r4.5	r3.9
	IV	r2.8	-1.1	r-3.7	r8.5	5.0	r5.6
	ANNUAL	r4.0	0.7	r-3.2	r7.8	r4.3	3.6
2001	I	r2.6	-1.8	r-4.3	r6.5	r3.0	3.8
	II	r2.1	-3.3	r-5.3	r5.0	r1.5	r2.8
	III	r2.7	-3.5	r-6.0	r3.2	r0.5	r0.5
	IV	r3.2	-3.4	r-6.3	r2.0	r0.2	r-1.1
	ANNUAL	r2.5	-3.0	r-5.3	r4.0	r1.2	1.5
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See footnotes following Table 6.  
r=revised

August 10, 2004  
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 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	r115.9	140.8	r121.5	r122.6	r106.5	105.8	99.7	104.2	134.1	106.8
	II	r116.4	142.4	r122.3	r122.8	r105.9	105.5	100.3	104.1	134.4	106.8
	III	r116.4	143.5	r123.3	r123.5	r105.7	106.1	101.6	104.9	126.9	106.9
	IV	r117.7	146.0	r124.0	r125.2	r106.4	106.4	102.2	105.2	124.1	106.9
	ANNUAL	r116.6	143.2	r122.8	r123.5	r106.1	106.0	101.0	104.6	129.8	106.9
2000	I	r119.7	149.4	r124.7	r129.7	r109.2	108.3	102.5	106.8	115.3	107.5
	II	r120.4	150.2	r124.8	r130.4	r108.9	108.3	104.1	107.2	116.6	108.0
	III	r121.3	151.5	r125.0	r132.9	r110.0	109.6	105.4	108.5	108.0	108.4
	IV	r121.6	151.5	r124.6	r134.4	r110.5	110.6	107.1	109.7	97.6	108.6
	ANNUAL	r120.8	150.7	r124.7	r132.0	r109.7	109.2	104.8	108.0	109.3	108.1
2001	I	r122.2	r151.3	r123.9	r135.6	r110.4	r111.0	r109.6	r110.6	r87.8	r108.6
	II	r122.8	r150.3	r122.4	r136.7	r110.4	r111.4	r112.2	r111.6	r87.3	r109.4
	III	r123.0	r148.6	r120.8	r137.9	r111.1	r112.1	r114.7	r112.8	r79.4	109.8
	IV	r123.9	r147.6	r119.1	r139.3	r112.5	r112.4	r116.2	r113.4	r75.8	r110.1
	ANNUAL	r123.0	r149.4	r121.5	r137.3	r111.1	r111.7	r113.2	r112.1	r82.6	109.5
Percent change from previous quarter at annual rate(5)											
1999	I	r7.2	8.6	r1.3	r10.2	r8.5	2.8	-5.2	0.7	3.7	1.0
	II	r1.7	4.5	r2.7	r0.6	r-2.2	-1.1	2.5	-0.2	0.9	0.0
	III	r0.0	3.1	r3.1	r2.2	r-0.8	2.3	5.3	3.0	-20.3	0.2
	IV	r4.6	7.2	r2.5	r5.6	r2.6	1.0	2.2	1.3	-8.6	0.2
	ANNUAL	r3.1	5.8	2.6	4.6	r2.4	1.4	1.1	1.3	-5.6	0.5
2000	I	r7.1	9.6	r2.3	r15.1	r11.0	7.5	1.3	5.8	-25.6	2.2
	II	r2.1	2.4	0.2	2.2	-1.0	0.1	6.5	1.7	4.6	2.0
	III	r3.0	3.5	r0.5	r7.9	r4.0	4.8	5.0	4.8	-26.3	1.5
	IV	r1.0	-0.1	r-1.1	r4.7	r1.8	3.7	6.6	4.4	-33.4	0.5
	ANNUAL	3.6	5.2	r1.5	6.8	r3.4	3.1	3.8	3.3	-15.8	1.2
2001	I	r2.0	r-0.5	r-2.4	r3.4	r-0.3	r1.3	r9.8	r3.5	r-34.4	r0.0
	II	r2.0	-2.7	r-4.6	r3.4	r0.2	r1.4	r9.8	r3.6	r-2.0	r3.2
	III	r0.8	r-4.4	r-5.2	r3.5	r2.5	r2.7	r9.0	r4.3	r-31.8	r1.4
	IV	r3.1	r-2.6	r-5.5	r4.3	r4.9	r1.2	r5.4	r2.3	r-16.7	r1.0
	ANNUAL	1.8	r-0.8	r-2.5	r4.1	r1.3	r2.3	r8.0	r3.8	r-24.4	1.2
Percent change from corresponding quarter of previous year											
1999	I	r3.9	6.2	r2.3	r5.6	r4.0	1.7	0.3	1.3	-4.2	0.7
	II	r3.4	6.0	r2.5	4.5	r2.5	1.1	0.9	1.0	-2.0	0.7
	III	r2.0	5.1	r3.1	r3.6	r1.3	1.6	2.1	1.7	-9.5	0.4
	IV	r3.3	5.8	r2.4	r4.6	r1.9	1.2	1.1	1.2	-6.6	0.3
	ANNUAL	r3.1	5.8	2.6	4.6	r2.4	1.4	1.1	1.3	-5.6	0.5
2000	I	r3.3	6.1	r2.7	r5.8	r2.5	2.4	2.8	2.5	-14.0	0.6
	II	3.4	5.5	r2.0	r6.2	2.8	2.7	3.8	3.0	-13.2	1.1
	III	4.2	5.6	r1.4	r7.6	r4.0	3.3	3.7	3.4	-14.9	1.5
	IV	r3.3	3.8	r0.5	7.4	r3.8	4.0	4.8	4.2	-21.4	1.5
	ANNUAL	3.6	5.2	r1.5	6.8	r3.4	3.1	3.8	3.3	-15.8	1.2
2001	I	r2.0	r1.3	-0.7	r4.5	r1.1	r2.4	r7.0	r3.6	r-23.8	r1.0
	II	r2.0	r0.0	r-1.9	r4.8	r1.4	r2.8	r7.8	r4.1	r-25.1	1.3
	III	r1.4	r-1.9	r-3.3	3.7	1.0	r2.3	r8.8	r4.0	r-26.5	r1.3
	IV	r2.0	r-2.6	-4.4	3.6	1.8	r1.7	r8.5	r3.4	r-22.3	r1.4
	ANNUAL	1.8	r-0.8	r-2.5	r4.1	r1.3	r2.3	r8.0	r3.8	r-24.4	1.2

See footnotes following Table 6.  
r=revisedAugust 10, 2004  
Source: Bureau of Labor Statistics

Appendix table 7. Business sector: Productivity, hourly compensation, unit labor costs, and prices  
Indexes 1992=100

Year	Output per hour of all persons	Output	Hours of all persons	Compensa- tion per hour (1)	Real compensa- tion per hour (2)	Unit labor costs	Unit non- labor pay- ments (3)	Implicit price deflator (4)
1947	r32.4	20.4	r63.0	7.0	r40.9	21.7	18.7	20.6
1948	r33.9	21.5	r63.5	7.6	r41.0	22.5	20.7	21.8
1949	r34.7	21.3	r61.4	7.7	r42.1	22.3	20.5	21.6
1950	r37.5	23.4	r62.3	r8.3	r44.5	22.1	21.6	21.9
1951	r38.7	24.9	r64.4	r9.1	r45.2	r23.5	r23.7	23.6
1952	r39.7	25.7	r64.6	9.6	r47.0	24.2	23.2	23.8
1953	r41.1	26.9	r65.4	10.2	r49.6	24.9	22.6	24.0
1954	r42.0	26.6	r63.2	r10.6	r50.8	25.1	22.6	24.2
1955	r43.8	28.7	r65.6	10.8	r52.3	24.8	24.0	24.5
1956	r43.8	29.1	r66.6	11.5	r55.0	26.4	23.5	25.3
1957	r45.1	29.6	r65.7	r12.3	r56.7	27.2	24.2	26.1
1958	r46.4	29.1	r62.7	12.8	r57.5	27.7	24.8	26.6
1959	r48.1	31.4	r65.4	r13.4	r59.5	27.8	25.2	26.8
1960	r48.9	32.0	r65.5	r13.9	r60.9	28.4	24.9	27.1
1961	r50.6	32.7	r64.5	r14.5	r62.6	28.5	25.3	27.3
1962	r52.9	34.8	r65.7	r15.1	r64.7	28.5	26.1	27.6
1963	r55.0	36.4	r66.2	r15.6	r66.1	28.4	26.6	27.7
1964	r56.8	38.7	r68.1	r16.2	r67.7	28.5	27.3	28.1
1965	r58.8	41.4	r70.4	r16.8	r69.1	28.6	28.4	28.5
1966	r61.2	44.2	r72.3	r17.9	r71.7	29.3	29.0	29.2
1967	r62.5	45.1	r72.1	r19.0	r73.5	30.3	29.5	30.0
1968	r64.6	47.3	r73.2	r20.5	r76.3	31.7	30.4	31.2
1969	r64.9	48.8	r75.1	r21.9	r77.4	r33.8	30.8	32.6
1970	r66.2	48.7	r73.6	r23.6	r78.8	35.6	r31.4	34.1
1971	r69.0	50.6	r73.3	r25.1	r80.2	36.3	r34.1	35.5
1972	r71.2	53.9	r75.6	r26.7	r82.6	37.4	35.7	36.8
1973	r73.5	57.6	r78.5	r28.9	r84.4	39.4	r37.5	38.7
1974	r72.3	56.8	r78.6	r31.7	r83.3	r43.9	40.0	42.4
1975	r74.8	56.3	r75.3	r35.0	r84.1	46.7	46.3	46.6
1976	r77.2	60.0	r77.7	r38.0	r86.4	49.2	r48.7	49.0
1977	r78.5	63.3	r80.7	r41.0	r87.6	52.2	r51.5	52.0
1978	r79.3	67.3	r84.8	r44.6	r89.1	r56.2	54.8	55.6
1979	r79.4	69.6	r87.7	r48.9	r89.4	61.6	r58.2	60.4
1980	r79.2	68.8	r86.9	r54.2	r89.2	68.4	61.3	65.8
1981	r80.8	70.7	r87.5	r59.4	r89.3	r73.5	r69.1	71.8
1982	80.2	68.6	85.5	63.6	90.4	79.3	70.2	75.9
1983	83.1	72.3	87.0	r66.3	r90.4	79.7	76.5	78.5
1984	85.3	78.6	92.1	69.1	r90.7	81.0	80.4	80.8
1985	r87.2	82.2	r94.2	r72.4	r91.9	83.0	82.2	82.7
1986	89.9	85.3	r94.9	r76.2	r94.9	84.8	82.8	84.1
1987	r90.4	88.3	97.7	79.0	r95.3	87.5	83.3	85.9
1988	91.7	92.1	r100.3	83.1	96.6	90.6	r85.4	88.6
1989	r92.6	95.4	103.0	r85.3	r95.1	92.1	91.5	91.9
1990	r94.5	96.9	r102.5	r90.6	r96.2	95.9	93.9	95.1
1991	96.0	96.1	r100.2	r95.0	r97.4	99.0	96.8	98.2
1992	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1993	100.3	103.1	102.8	102.2	99.7	101.9	102.5	102.1
1994	r101.5	108.2	106.7	103.8	99.2	102.3	106.6	103.9
1995	r101.6	111.4	r109.6	106.0	98.9	104.3	108.2	105.7
1996	r104.6	116.5	r111.4	r109.6	r99.6	104.8	r111.8	107.4
1997	106.5	122.7	r115.1	r113.1	r100.6	106.1	r113.8	109.0
1998	r109.4	128.6	r117.6	r119.9	r105.1	r109.6	r109.8	109.7
1999	r112.6	135.2	r120.1	r125.6	r107.9	111.6	109.2	110.7
2000	r115.9	140.5	r121.3	r134.5	r111.8	r116.1	107.2	112.7
2001	r118.8	r141.0	r118.7	r140.1	r113.3	r118.0	r109.9	114.9
2002	r123.9	r143.5	r115.8	r144.5	r115.0	r116.6	r114.9	r116.0
2003	r129.5	r149.0	115.1	r150.5	r117.1	r116.2	r119.6	117.4

See footnotes following Table 6.  
r=revised

August 10, 2004  
Source: Bureau of Labor Statistics

Appendix table 8. Nonfarm business sector: Productivity, hourly compensation, unit labor costs, and prices Indexes 1992=100

Year	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)
1947	r37.0	20.1	r54.2	r7.5	r43.3	20.2	17.8	19.3
1948	r38.0	20.9	r55.1	8.1	r43.6	21.3	19.4	20.6
1949	r39.3	20.8	r53.0	8.3	r45.4	21.2	r20.0	20.8
1950	r41.9	22.9	r54.7	8.8	r47.5	21.1	20.8	21.0
1951	r43.0	24.6	r57.3	9.6	r47.8	22.3	22.4	22.4
1952	r43.8	25.3	r57.9	10.1	r49.5	r23.2	22.3	22.8
1953	r44.7	26.6	r59.4	r10.7	r51.9	23.9	22.2	23.3
1954	r45.6	26.1	r57.3	11.0	r53.1	24.2	22.3	23.5
1955	r47.5	28.3	r59.7	11.4	r55.3	24.1	23.6	23.9
1956	r47.1	28.8	r61.1	12.1	r57.8	25.8	23.1	24.8
1957	r48.3	29.4	r60.8	12.8	r59.2	26.6	23.8	25.6
1958	r49.4	28.7	r58.2	r13.4	r59.8	27.1	24.1	26.0
1959	r51.2	31.2	r60.9	r13.9	r61.8	27.1	24.9	26.3
1960	r51.8	31.8	r61.3	r14.5	r63.3	27.9	24.3	26.6
1961	r53.4	32.4	r60.6	r15.0	r64.8	28.0	24.8	26.8
1962	r55.8	34.6	r62.0	r15.6	r66.7	r27.9	r25.8	27.1
1963	r57.8	36.2	r62.7	r16.1	r68.1	27.8	26.3	27.3
1964	r59.5	38.7	r65.0	r16.6	r69.3	27.9	27.1	27.6
1965	r61.3	41.4	r67.5	17.1	r70.5	27.9	28.0	28.0
1966	r63.5	44.4	r69.8	r18.2	r72.6	28.6	28.7	28.6
1967	r64.6	45.1	r69.8	r19.2	r74.5	29.7	29.2	29.5
1968	r66.8	47.5	r71.1	r20.7	r77.1	31.0	30.2	30.7
1969	r66.9	48.9	r73.1	r22.1	r78.1	33.1	30.4	32.1
1970	r67.9	48.9	r72.0	r23.7	r79.1	34.9	31.1	33.5
1971	r70.6	50.7	r71.8	r25.2	r80.7	35.7	r33.7	35.0
1972	r73.0	54.1	r74.1	r26.9	r83.2	36.8	34.9	36.1
1973	r75.3	58.0	r77.1	r29.1	r84.8	38.6	35.3	37.4
1974	r74.2	57.3	r77.2	r31.9	r83.8	43.0	38.1	41.2
1975	r76.2	56.3	r73.9	r35.1	r84.5	46.1	44.8	45.6
1976	r78.7	60.2	r76.5	r38.1	r86.6	48.4	47.8	48.1
1977	r79.9	63.6	r79.6	r41.2	r88.0	51.5	50.7	51.2
1978	r81.0	67.8	r83.7	r44.8	r89.6	55.3	53.4	54.6
1979	r80.7	70.0	r86.6	r49.1	r89.7	60.8	56.5	59.2
1980	r80.6	69.2	r85.9	r54.4	r89.5	67.5	60.4	64.9
1981	r81.7	70.7	r86.5	r59.7	r89.9	73.1	67.8	71.1
1982	80.9	68.4	84.6	64.0	r90.8	79.1	r69.5	75.5
1983	84.6	72.9	86.2	66.6	90.9	78.8	76.2	77.9
1984	r86.3	78.9	91.4	r69.5	91.1	80.5	79.4	80.1
1985	r87.6	82.2	r93.8	r72.6	r92.2	82.9	81.7	82.5
1986	90.3	85.4	r94.6	r76.4	r95.2	84.6	r82.6	83.9
1987	r90.7	88.4	97.5	79.2	95.4	87.3	r83.0	85.7
1988	92.1	92.4	r100.3	83.1	96.6	90.2	85.1	88.3
1989	92.8	95.7	103.1	r85.2	r95.0	91.9	90.9	91.5
1990	r94.6	97.1	r102.7	r90.4	r96.0	95.6	93.6	94.9
1991	r96.1	96.3	r100.2	r95.0	r97.4	98.8	97.0	98.1
1992	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1993	r100.4	103.4	103.0	r102.0	99.5	101.6	102.9	102.1
1994	101.5	108.3	r106.6	r103.8	99.1	102.2	107.1	104.0
1995	r102.0	111.8	109.5	r105.9	r98.8	103.8	109.2	105.8
1996	r104.8	116.8	r111.5	r109.5	r99.5	104.5	r112.0	107.3
1997	r106.5	122.8	115.4	r112.9	r100.4	106.0	r114.5	109.1
1998	r109.3	128.9	r117.9	r119.6	r104.9	r109.4	r110.8	109.9
1999	r112.3	135.6	r120.7	r125.1	r107.5	r111.4	r110.7	111.1
2000	r115.5	140.8	r121.9	r134.0	r111.4	116.0	r108.7	113.3
2001	r118.3	r141.3	r119.4	r139.3	r112.7	r117.7	r111.5	115.4
2002	r123.5	r143.9	r116.5	r143.8	r114.5	r116.5	r116.8	r116.6
2003	r129.0	r149.4	r115.8	r149.7	r116.5	r116.1	r121.1	117.9

See footnotes following Table 6.  
r=revised

August 10, 2004  
Source: Bureau of Labor Statistics

Appendix table 9. Manufacturing sector: Productivity, hourly compensation, and unit labor costs, Indexes 1992=100

Year	Output per hour of all persons	Output	Hours of all persons	Compensation per hour (1)	Real compensation per hour (2)	Unit labor costs
1987	r88.4	91.7	r103.8	r80.7	r97.3	r91.4
1988	r90.0	96.3	r107.0	r83.6	r97.2	92.8
1989	90.3	97.2	r107.6	r86.1	r96.0	95.3
1990	92.9	97.6	105.0	90.1	95.7	97.0
1991	r95.4	96.0	r100.5	r95.4	r97.8	100.0
1992	100.0	100.0	100.0	100.0	100.0	100.0
1993	102.7	104.1	101.4	102.3	99.8	99.6
1994	r106.1	110.0	103.8	105.6	100.9	99.6
1995	r109.9	115.0	r104.6	r107.5	r100.3	97.8
1996	113.9	118.6	r104.2	109.9	99.8	96.5
1997	r118.0	125.1	r106.0	r112.1	99.7	95.0
1998	r123.6	130.7	r105.7	r119.0	r104.4	96.2
1999	r128.1	134.6	r105.1	r123.7	r106.2	96.6
2000	r134.1	138.6	r103.4	135.0	r112.2	r100.7
2001	r136.9	132.3	r96.6	r138.1	r111.7	r100.9
2002	r146.5	131.5	r89.7	r147.3	r117.3	r100.6
2003	r154.0	131.6	r85.5	r159.9	r124.5	r103.8

See footnotes following Table 6.  
r=revised

August 10, 2004  
Source: Bureau of Labor Statistics



Appendix table 10. Durable manufacturing sector: Productivity, hourly compensation, and unit labor costs, Indexes 1992=100

Year	Output per hour of all persons	Output	Hours of all persons	Compensa- tion per hour (1)	Real compensa- tion per hour (2)	Unit labor costs
1987	r89.3	95.1	r106.5	r80.7	r97.2	90.4
1988	r91.2	100.9	r110.6	r83.0	r96.5	90.9
1989	r91.2	101.1	r111.0	r85.5	r95.3	93.8
1990	r93.2	100.1	107.4	89.2	94.8	95.8
1991	r94.5	95.9	r101.4	r94.9	r97.2	100.4
1992	100.0	100.0	100.0	100.0	100.0	100.0
1993	r104.5	106.0	r101.4	r102.0	r99.5	97.6
1994	r109.7	114.8	r104.7	r105.5	r100.8	96.2
1995	r115.2	122.8	r106.6	r106.5	r99.4	92.5
1996	r120.7	129.5	r107.3	r108.1	r98.2	89.5
1997	r126.3	139.5	r110.5	r110.6	r98.4	87.6
1998	r135.4	150.2	r111.0	r118.2	r103.7	r87.4
1999	r143.3	158.5	r110.6	r123.6	r106.2	86.2
2000	r150.9	165.7	109.9	r135.5	r112.6	89.8
2001	153.0	155.9	101.9	137.7	r111.4	90.0
2002	r165.6	154.8	r93.5	r145.3	r115.7	r87.7
2003	r178.3	158.0	r88.6	r159.3	r124.0	r89.3

See footnotes following Table 6.  
r=revised

August 10, 2004  
Source: Bureau of Labor Statistics

Appendix table 11. Nondurable manufacturing sector: Productivity, hourly compensation, and unit labor costs, Indexes 1992=100

Year	Output per hour of all persons	Output	Hours of all persons	Compensation per hour (1)	Real compensation per hour (2)	Unit labor costs
1987	90.5	90.2	r99.7	r80.2	r96.7	88.7
1988	r92.0	93.3	r101.5	r84.0	r97.7	91.3
1989	r92.3	94.7	r102.7	r86.7	r96.7	r93.9
1990	r94.8	96.1	r101.4	r91.2	r96.9	96.2
1991	r97.4	96.6	r99.2	r96.2	r98.6	98.8
1992	100.0	100.0	100.0	100.0	100.0	100.0
1993	r100.5	101.9	r101.4	r102.7	r100.2	102.3
1994	r102.2	104.5	r102.3	r105.7	r101.0	103.5
1995	r104.6	106.3	r101.6	r108.8	r101.5	103.9
1996	r107.1	106.5	r99.5	r112.4	r102.2	105.0
1997	r110.7	110.0	r99.4	r113.6	r101.1	102.7
1998	r113.0	110.6	r97.9	r118.9	r104.3	105.2
1999	r113.9	110.3	r96.9	r122.1	r104.9	107.2
2000	r118.5	111.1	r93.8	r131.7	r109.4	111.1
2001	r121.4	107.8	r88.8	r136.9	r110.7	112.8
2002	r127.3	107.1	r84.1	r149.7	r119.2	r117.6
2003	r129.7	104.8	r80.7	r159.6	r124.2	r123.0

See footnotes following Table 6.  
r=revised

August 10, 2004  
Source: Bureau of Labor Statistics

Appendix table 12. Nonfinancial corporations: Productivity, hourly compensation, unit labor costs, unit profits, and prices, Indexes 1992=100

Year	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)
1958	r53.6	25.7	r48.0	r15.0	r67.2	28.0	23.2	26.7	46.5	28.5
1959	r56.1	28.6	r50.9	r15.6	r69.3	27.7	21.9	26.2	55.0	28.7
1960	r57.0	29.5	r51.8	r16.2	r70.8	28.4	23.0	26.9	49.5	28.9
1961	r58.8	30.1	r51.3	r16.7	r72.4	28.4	23.5	27.1	49.5	29.1
1962	r61.3	32.7	r53.3	r17.4	r74.4	28.3	23.1	26.9	53.7	29.3
1963	r63.5	34.6	r54.5	r17.9	r75.7	28.2	23.1	26.8	56.5	29.5
1964	r64.5	37.0	r57.5	r18.2	r76.2	28.3	22.9	26.8	58.8	29.7
1965	r66.0	40.1	r60.7	r18.8	r77.1	28.4	22.8	26.9	63.2	30.2
1966	r67.1	42.9	r63.9	r19.8	r79.2	29.5	23.0	27.8	62.7	30.9
1967	r68.1	44.0	r64.6	r20.9	r81.1	30.7	24.3	29.0	59.1	31.7
1968	r70.5	46.8	r66.4	r22.5	r83.7	31.9	25.9	30.3	59.1	32.9
1969	r70.5	48.6	r69.0	r24.0	r84.8	34.1	28.1	32.5	53.3	34.4
1970	r70.8	48.1	r67.9	r25.7	r85.9	36.3	31.7	35.1	43.7	35.9
1971	r73.8	50.1	r67.9	r27.3	r87.4	37.0	33.1	36.0	49.8	37.2
1972	r75.2	53.8	r71.6	r28.8	r89.2	38.3	33.4	37.0	53.3	38.4
1973	r75.9	57.1	r75.2	r31.0	r90.4	40.8	35.2	39.3	54.1	40.6
1974	r74.3	56.1	r75.5	r33.9	r89.2	45.7	40.5	44.3	47.7	44.6
1975	r77.3	55.4	r71.7	r37.3	r89.7	48.2	45.9	47.6	62.2	48.9
1976	r79.7	59.8	r75.0	r40.3	r91.8	50.6	45.7	49.3	70.4	51.2
1977	r81.8	64.2	r78.4	r43.5	r93.0	53.2	47.7	51.7	76.2	53.9
1978	r82.8	68.3	r82.5	r47.6	r95.1	57.5	50.5	55.6	78.0	57.6
1979	r82.0	70.4	r85.8	r51.9	r94.9	63.3	55.1	61.1	73.1	62.2
1980	r81.3	69.2	r85.2	r57.2	r94.1	70.4	64.5	68.8	66.5	68.6
1981	r82.7	71.4	r86.4	r62.4	r93.9	75.5	73.6	75.0	81.2	75.5
1982	r83.1	69.9	84.1	66.5	94.4	79.9	81.3	80.3	75.1	79.8
1983	r86.2	73.5	r85.3	68.9	94.0	80.0	81.2	80.3	90.7	81.2
1984	88.4	80.3	r90.8	r71.9	r94.3	81.3	80.7	81.1	106.7	83.4
1985	90.5	84.0	r92.9	75.2	r95.4	83.1	82.8	83.0	101.3	84.7
1986	r92.4	86.1	r93.2	r78.9	r98.3	85.4	85.3	85.4	89.2	85.7
1987	r94.4	90.7	96.1	r81.6	r98.3	86.4	84.9	86.0	99.0	87.2
1988	96.5	95.7	99.1	84.9	98.7	87.9	86.1	87.4	110.6	89.5
1989	r95.1	97.2	r102.2	r87.0	r97.0	91.4	92.8	91.8	100.6	92.6
1990	r95.6	98.1	r102.5	r91.1	r96.8	95.3	97.1	95.8	96.7	95.9
1991	r97.8	97.4	r99.6	r95.5	r97.9	97.6	102.3	98.9	92.8	98.4
1992	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1993	r100.6	103.0	r102.4	101.7	r99.3	101.2	99.7	100.8	113.9	101.9
1994	r102.6	109.5	106.8	r103.6	98.9	101.0	100.5	100.8	131.3	103.6
1995	r103.3	114.3	r110.6	r105.3	98.3	102.0	101.3	101.8	136.9	104.9
1996	r107.2	120.7	r112.6	r108.5	r98.6	101.2	99.9	100.9	149.9	105.3
1997	r109.9	128.4	r116.9	111.7	r99.4	101.7	99.8	101.2	154.4	105.9
1998	r113.0	135.3	r119.7	r118.1	r103.6	104.5	99.9	103.2	137.5	106.3
1999	r116.6	143.2	r122.8	r123.5	r106.1	106.0	101.0	104.6	129.8	106.9
2000	r120.8	150.7	r124.7	r132.0	r109.7	109.2	104.8	108.0	109.3	108.1
2001	r123.0	r149.4	r121.5	r137.3	r111.1	r111.7	r113.2	r112.1	r82.6	109.5
2002	r128.4	r151.6	r118.1	r141.5	r112.7	r110.2	r113.0	r111.0	r95.4	109.6
2003	r135.4	r157.7	r116.5	r147.3	r114.6	r108.8	r111.5	r109.5	r113.2	109.8

See footnotes following Table 6.  
r=revised

August 10, 2004  
Source: Bureau of Labor Statistics