

News

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PRODUCTIVITY AND COSTS

Preliminary Fourth Quarter and
Annual Averages for 2004

The Bureau of Labor Statistics of the U.S. Department of Labor today reported preliminary productivity data—as measured by output per hour of all persons—for the fourth quarter and for the full year 2004. The seasonally adjusted annual rates of productivity change in the fourth quarter and the annual average changes were:

	Fourth quarter	Annual averages 2003-2004
Business sector	2.5	4.0
Nonfarm business sector	0.8	4.1

In the fourth quarter, productivity increased 2.5 percent in the business sector—about the same as in the third quarter, when it increased 2.4 percent (seasonally adjusted annual rates). In nonfarm businesses, productivity grew more slowly in the fourth quarter, 0.8 percent, than in the third quarter, when it rose 1.8 percent. On an annual average basis, productivity rose 4.0 percent in the business sector and 4.1 percent in the nonfarm business sector.

In the manufacturing sector, increases in productivity were:

	Fourth quarter	Annual averages 2003-2004
Manufacturing sector	5.6	4.9
Durable goods manufacturing	7.3	6.1
Nondurable goods manufacturing	3.7	3.9

Manufacturing productivity grew 5.6 percent in the fourth quarter. On an annual average basis, output per hour in the manufacturing sector posted a 4.9-percent increase in 2004. 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. Fourth-quarter productivity and related measures are summarized in table A, and annual average data in table B. Detailed information is presented in tables 1 through 5.

Sector	Productivity	Output	Hours	Hourly compensation	Real hourly compensation	Unit labor costs
Percent change from preceding quarter						
Business	2.5	3.3	0.8	4.2	0.8	1.7
Nonfarm business	0.8	2.8	1.9	3.1	-0.3	2.3
Manufacturing	5.6	4.5	-1.0	6.0	2.5	0.4
Durable	7.3	6.6	-0.6	6.1	2.6	-1.1
Nondurable	3.7	2.0	-1.7	5.7	2.2	2.0
Percent change from same quarter a year ago						
Business	2.9	4.2	1.3	4.0	0.6	1.1
Nonfarm business	2.5	4.2	1.6	3.6	0.2	1.0
Manufacturing	4.8	5.0	0.2	3.2	-0.2	-1.5
Durable	5.4	6.7	1.2	2.4	-0.9	-2.8
Nondurable	4.4	2.9	-1.4	4.4	1.0	0.1

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 prepared by the Board of Governors of the Federal Reserve System. See Technical Notes (page 9) for further information on data sources.

THIRD-TO-FOURTH QUARTER CHANGES, 2004

Business

Productivity in the business sector increased by 2.5 percent in the fourth quarter of 2004, reflecting increases of 3.3 percent in output and 0.8 percent in hours of all persons (seasonally

adjusted annual rates). Output per hour had increased 2.4 percent in the third quarter, as output and hours increased 4.5 percent and 2.0 percent, respectively.

Hourly compensation grew 4.2 percent in the fourth quarter of 2004, following a 3.8-percent increase one quarter earlier. This measure includes wages and salaries, supplements, employer contributions to employee-benefit plans, and taxes. Real hourly compensation, which takes into account changes in consumer prices, rose 0.8 percent in the fourth quarter, and 1.9 percent in the third quarter, of 2004.

Unit labor costs, which relate hourly compensation to output per hour, increased 1.7 percent in the fourth quarter. Business sector unit labor costs had increased 1.3 percent in the third quarter of 2004.

Nonfarm business

In the nonfarm business sector, productivity increased 0.8 percent in the fourth quarter of 2004, as output grew 2.8 percent and hours of all persons grew 1.9 percent (seasonally adjusted annual rates). Productivity had increased 1.8 percent in the third quarter of 2004, reflecting a 4.2-percent rise in output and 2.4-percent growth in hours of all persons (table 2). The fourth-quarter 0.8-percent increase in productivity was the smallest since the first quarter of 2001, when nonfarm business output per hour declined 0.4 percent.

Hourly compensation in the nonfarm business sector rose 3.1 percent in the fourth quarter of 2004, following a 3.5-percent increase in the third quarter. When changes in consumer prices were taken into account, real hourly compensation declined 0.3 percent during the fourth quarter of 2004 and increased 1.6 percent in the third quarter.

Unit labor costs increased 2.3 percent in the fourth quarter, after rising 1.6 percent in the third quarter of 2004. The implicit price deflator for nonfarm business output increased 2.0 percent in the fourth quarter of 2004, after increasing 1.8 percent one quarter earlier.

Manufacturing

Manufacturing productivity grew 5.6 percent (seasonally adjusted annual rate) in the fourth quarter of 2004 as output increased 4.5 percent and hours decreased 1.0 percent (table 3). In the third quarter, manufacturing productivity increased 4.2 percent, reflecting a 4.0-percent rise in output and a 0.1-percent decline in hours. In durable goods manufacturing, productivity rose 7.3 percent in the fourth quarter as output grew 6.6 percent and hours decreased 0.6 percent (table 4). Among nondurable goods manufacturers, productivity increased 3.7 percent in the fourth quarter as output rose 2.0 percent and hours at work in the sector fell 1.7 percent (table 5).

Average hourly compensation of manufacturing workers increased 6.0 percent in the fourth quarter of 2004, reflecting increases in hourly compensation of 6.1 percent in durable goods manufacturing and 5.7 percent in nondurable goods manufacturing. When the increase in consumer prices was taken into account, real hourly compensation in total manufacturing rose 2.5 percent.

Unit labor costs for the manufacturing sector rose 0.4 percent in fourth-quarter 2004. In durable goods manufacturing, unit labor costs fell 1.1 percent, and in nondurable goods manufacturing unit labor costs increased 2.0 percent.

ANNUAL AVERAGE CHANGES, 2003-2004

Business

Business sector productivity increased 4.0 percent when the annual average for 2004 was compared with the annual average for 2003 (table B). Output increased 5.1 percent and hours of all persons engaged in the sector rose 1.0 percent. Productivity had increased 4.5 percent in 2003, when output rose 3.8 percent and hours fell 0.7 percent. The 4.5-percent productivity increase in 2003 was the largest in the sector since a 4.6-percent rise in 1962.

Table B. Annual average changes in productivity and related measures, 1995-2004										
Measure	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Business:										
Productivity	0.2	2.9	1.9	2.7	2.9	2.9	2.5	4.3	4.5	4.0
Output	2.9	4.6	5.3	4.8	5.1	3.9	0.3	1.8	3.8	5.1
Hours	2.7	1.6	3.4	2.1	2.2	1.0	-2.1	-2.4	-0.7	1.0
Hourly compensation.....	2.0	3.4	3.2	6.0	4.8	7.1	4.2	3.2	4.1	4.3
Real hourly compensation	-0.4	0.7	1.0	4.6	2.6	3.6	1.3	1.5	1.8	1.6
.....										
Unit labor costs	1.9	0.5	1.3	3.3	1.8	4.0	1.6	-1.1	-0.4	0.3
Nonfarm Business:										
Productivity	0.5	2.7	1.6	2.7	2.8	2.8	2.5	4.4	4.4	4.1
Output	3.2	4.5	5.2	5.0	5.2	3.8	0.4	1.8	3.8	5.3
Hours	2.7	1.8	3.5	2.2	2.3	1.0	-2.0	-2.5	-0.6	1.1
Hourly compensation.....	2.1	3.4	3.1	5.9	4.6	7.1	4.0	3.3	4.1	4.2
Real hourly compensation	-0.3	0.7	0.9	4.5	2.5	3.6	1.1	1.6	1.7	1.5
.....										
Unit labor costs	1.6	0.7	1.4	3.2	1.8	4.2	1.5	-1.1	-0.4	0.1
Manufacturing:										
Productivity	3.6	3.6	3.6	4.8	3.6	4.7	2.1	7.6	5.0	4.9
Output	4.5	3.2	5.5	4.5	2.9	3.0	-4.6	-0.1	0.0	4.8
Hours	0.8	-0.4	1.8	-0.3	-0.6	-1.6	-6.5	-7.1	-4.8	-0.1
Hourly compensation.....	1.9	1.9	2.6	5.8	3.9	9.1	2.3	6.7	8.5	3.6
Real hourly compensation	-0.5	-0.8	0.5	4.3	1.8	5.6	-0.4	5.0	6.1	0.9
.....										
Unit labor costs	-1.7	-1.6	-0.9	1.0	0.3	4.2	0.2	-0.8	3.3	-1.3

Hourly compensation in the business sector increased 4.3 percent in 2004, following a 4.1-percent increase in 2003. Real hourly compensation increased 1.6 percent in 2004 and 1.8 percent one year earlier. Unit labor costs in the business sector rose 0.3 percent in 2004 and fell 0.4 percent in 2003. The implicit price deflator for the business sector rose 1.7 percent in 2004 and 1.3 percent in 2003.

Nonfarm business

Productivity increased 4.1 percent in the nonfarm business sector in 2004, reflecting increases of 5.3 percent in output and 1.1 percent in hours. During 2003, output per hour increased 4.4 percent in nonfarm business, as output rose 3.8 percent and hours of all persons fell 0.6 percent. Nonfarm productivity also had increased 4.4 percent in 2002. When the productivity increases for 2002, 2003, and 2004 are combined, productivity for the 2001-2004 period rose 4.3 percent in nonfarm businesses. The last comparable three-year rise occurred over the 1948-1951 period, when productivity increased at a 4.2 percent annual rate, incorporating gains of 3.3 percent in 1949, 6.6 percent in 1950, and 2.7 percent in 1951.

In 2004, hourly compensation increased 4.2 percent, similar to the 4.1-percent rise in 2003. When the increase in consumer prices was taken into account, real hourly compensation rose 1.5 percent in 2004 and 1.7 percent in 2003.

Unit labor costs in the nonfarm business sector edged up 0.1 percent in 2004, following a 0.4-percent decline in 2003. The implicit price deflator for nonfarm business rose 1.6 percent in 2004 and 1.1 percent in 2003.

Manufacturing

In manufacturing, labor productivity rose 4.9 percent in 2004, as output grew 4.8 percent and hours of all persons declined 0.1 percent (table B). Although productivity had increased at a similar rate in 2003, 5.0 percent, that productivity gain was due almost entirely to falling hours, as output was unchanged. There was a 6.1-percent increase in durable goods manufacturing productivity in 2004, as output rose 7.1 percent and hours rose 0.9 percent. Nondurable goods manufacturing posted a more modest increase in productivity, 3.9 percent, reflecting an increase in output of 2.1 percent and a decrease in hours of 1.8 percent.

Hourly compensation of manufacturing workers increased 3.6 percent in 2004, down from the 8.5-percent growth rate in 2003. In 2004, hourly compensation rose 2.9 percent in durable goods manufacturing and 4.8 percent in nondurable good manufacturing. Taking into account the rise in consumer prices, real hourly compensation in manufacturing rose 0.9 percent in 2004 and 6.1 percent one year earlier.

Unit labor costs in manufacturing fell 1.3 percent in 2004. These costs had increased 3.3 percent in calendar year 2003. Unit labor costs in durable goods manufacturing fell 3.0 percent in 2004, compared with a 0.8-percent rise in unit labor costs in nondurable goods manufacturing.

Revised Measures

Current and previous measures for the third quarter of 2004 for the business and nonfarm business sectors are compared in table C. In the business and nonfarm business sectors, productivity, output, and hours growth in the third quarter were the same as reported on Dec. 7. Also in both of these sectors, hourly compensation and real hourly compensation grew less than reported in December. Because hourly compensation was revised down while productivity was unchanged, unit labor costs in the third quarter increased less than previously reported.

Table C. Previous and revised productivity and related measures Quarterly percent change at seasonally adjusted annual rate						
Sector	Productivity	Output	Hours	Hourly compensation	Real hourly compensation	Unit labor costs
Third quarter 2004						
Business:						
Previous	2.4	4.5	2.0	4.0	2.1	1.5
Current	2.4	4.5	2.0	3.8	1.9	1.3
Nonfarm business:						
Previous	1.8	4.2	2.4	3.6	1.8	1.8
Current	1.8	4.2	2.4	3.5	1.6	1.6
Manufacturing:						
Previous	4.6	4.5	-0.1	4.6	2.7	0.0
Current	4.2	4.0	-0.1	4.5	2.6	0.3

In the manufacturing sector, output and productivity were revised down in the third quarter, and hours of all persons were unchanged. Growth in hourly compensation and real hourly compensation were also revised down. Because the downward revision to productivity was greater than that to hourly compensation, unit labor costs were revised up.

Manufacturing sector productivity and costs measures reflect revised source data. Revised indexes of industrial production were published by the Board of Governors of the Federal Reserve System on Dec. 22. Incorporating the revised data impacted quarterly measures of output, productivity, and unit labor costs back to 1987 and annual measures for 2002 and 2003. Also, revised data on manufacturing compensation for 1987-1997 were provided by the U.S. Department of Commerce on a NAICS rather than SIC basis for the first time. Annual and quarterly measures of hourly compensation, real hourly compensation, and unit labor costs were subject to revision from this source back to 1987. Annual historical data for manufacturing, durable manufacturing, and nondurable manufacturing are presented in appendix tables 1-3. Tables showing the quarterly and annual data for all years, 1987-2004, will be posted on the BLS website later today.

Revised measures: Nonfinancial Corporations

Revised third-quarter productivity and output measures for nonfinancial corporations also were announced today. In the third quarter, output and productivity increased less, and hours increased more, than reported on Dec. 7. Hourly compensation was revised down less than was productivity, resulting in a smaller decline in unit labor costs than previously reported (table D).

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
Third quarter 2004								
Previous	4.2	5.6	1.3	4.0	2.1	-0.3	0.9	0.3
Current	3.9	5.4	1.4	3.8	1.9	-0.1	0.6	0.2

The measure of output for the nonfinancial corporate sector has been revised by the Bureau of Economic Analysis (BEA), U.S. Department of Commerce. As a result, several measures for this sector were revised back to 1958. Recent quarterly and annual data for nonfinancial corporations are shown in table 6. Appendix table 4 provides complete annual measures. And full quarterly and annual historical series will be posted on the BLS website later today.

Upcoming changes to productivity and cost data

Later this year, BLS will improve the way it uses data for farm workers, the nonfarm self-employed, and nonfarm unpaid family workers in the productivity program by accounting for the effects of multiple jobholding. Current measures treat all hours worked by individuals whose primary job is in these groups as being on the primary job. This may overstate the hours of some workers while omitting the hours of others. The revised measures will be adjusted in two ways. First, hours worked by these workers in their primary jobs will be used in each measure. Secondly, the hours of all persons who hold more than one job will be examined. Hours worked in secondary jobs by the self-employed, unpaid family workers, and farm wage and salary workers will be included in the hours used for the productivity and cost measures. The aggregate effect of these changes is small.

Next release date

The next release of **Productivity and Costs** is scheduled for **8:30 A.M. EST, Thursday, March 3, 2005**. Revised fourth-quarter and annual average measures for business, nonfarm business, and manufacturing will be released at that time.

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 2001. 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	122.7	142.2	115.9	143.2	115.2	116.7	113.4	115.5
	II	123.2	142.9	116.0	144.4	115.2	117.2	113.6	115.9
	III	124.7	144.3	115.7	145.0	115.0	116.3	115.7	116.1
	IV	125.0	144.7	115.7	145.5	114.8	116.3	116.8	116.5
	ANNUAL	123.9	143.5	115.8	144.5	115.0	116.6	114.9	116.0
2003	I	126.2	145.5	115.3	147.4	115.3	116.8	117.7	117.1
	II	128.6	147.5	114.7	149.6	116.8	116.4	119.0	117.3
	III	131.2	150.8	114.9	151.7	117.7	115.6	120.8	117.5
	IV	132.0	152.3	115.4	153.2	118.7	116.0	120.7	117.8
	ANNUAL	129.5	149.0	115.1	150.5	117.1	116.2	119.6	117.4
2004	I	133.3	154.3	115.8	154.2	118.4	115.7	122.9	118.4
	II	134.2	155.8	116.1	156.2	118.6	116.4	124.4	119.4
	III	135.0	157.5	116.6	157.7	r119.1	116.8	r124.6	r119.7
	IV	135.8	158.8	116.9	159.3	119.3	117.3	125.3	120.3
	ANNUAL	134.7	156.6	116.3	156.9	118.9	116.5	124.3	119.4

Percent change from previous quarter at annual rate(5)									
2002	I	5.9	3.5	-2.3	4.9	3.5	-1.0	1.0	-0.3
	II	1.7	2.1	0.4	3.4	-0.1	1.7	1.0	1.4
	III	4.8	3.8	-1.0	1.6	-0.7	-3.1	7.3	0.7
	IV	1.2	1.2	0.0	1.3	-0.6	0.0	3.8	1.4
	ANNUAL	4.3	1.8	-2.4	3.2	1.5	-1.1	4.5	0.9
2003	I	3.9	2.2	-1.6	5.5	1.7	1.6	3.1	2.1
	II	7.6	5.6	-1.9	6.1	5.4	-1.4	4.5	0.8
	III	8.5	9.3	0.7	5.6	3.1	-2.6	6.3	0.7
	IV	2.4	4.2	1.7	4.0	3.3	1.6	-0.4	0.8
	ANNUAL	4.5	3.8	-0.7	4.1	1.8	-0.4	4.1	1.3
2004	I	3.9	5.3	1.3	2.8	-0.8	-1.1	7.4	2.1
	II	2.9	3.9	1.0	5.2	0.5	2.3	5.0	3.3
	III	2.4	4.5	2.0	r3.8	r1.9	r1.3	r0.7	r1.1
	IV	2.5	3.3	0.8	4.2	0.8	1.7	2.4	2.0
	ANNUAL	4.0	5.1	1.0	4.3	1.6	0.3	4.0	1.7

Percent change from corresponding quarter of previous year									
2002	I	4.9	0.8	-3.9	3.2	1.9	-1.6	6.6	1.2
	II	4.0	1.1	-2.8	3.4	2.1	-0.6	3.5	0.9
	III	4.9	2.8	-2.0	3.3	1.6	-1.6	5.0	0.8
	IV	3.4	2.7	-0.7	2.8	0.5	-0.6	3.2	0.8
	ANNUAL	4.3	1.8	-2.4	3.2	1.5	-1.1	4.5	0.9
2003	I	2.9	2.3	-0.6	2.9	0.1	0.0	3.8	1.4
	II	4.4	3.2	-1.1	3.6	1.4	-0.7	4.7	1.3
	III	5.3	4.5	-0.7	4.6	2.4	-0.6	4.4	1.3
	IV	5.6	5.3	-0.3	5.3	3.4	-0.3	3.4	1.1
	ANNUAL	4.5	3.8	-0.7	4.1	1.8	-0.4	4.1	1.3
2004	I	5.6	6.1	0.5	4.6	2.7	-0.9	4.4	1.1
	II	4.4	5.6	1.2	4.4	1.5	0.0	4.5	1.7
	III	2.9	4.4	1.5	4.0	1.2	r1.0	r3.1	1.8
	IV	2.9	4.2	1.3	4.0	0.6	1.1	3.8	2.1
	ANNUAL	4.0	5.1	1.0	4.3	1.6	0.3	4.0	1.7

See footnotes following Table 6.
r=revisedFebruary 3, 2005
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	122.4	142.6	116.5	142.6	114.7	116.4	115.1	116.0
	II	122.8	143.2	116.7	143.8	114.7	117.1	115.4	116.5
	III	124.1	144.5	116.4	144.3	114.4	116.2	117.7	116.8
	IV	124.6	145.0	116.4	144.7	114.3	116.1	118.9	117.2
	ANNUAL	123.5	143.9	116.5	143.8	114.5	116.5	116.8	116.6
2003	I	125.8	145.9	116.0	146.6	114.7	116.6	119.6	117.7
	II	127.8	147.8	115.6	148.7	116.1	116.3	120.4	117.8
	III	130.6	151.1	115.7	150.9	117.1	115.5	122.3	118.0
	IV	131.7	152.8	116.1	152.5	118.2	115.9	121.9	118.1
	ANNUAL	129.0	149.4	115.8	149.7	116.5	116.1	121.1	117.9
2004	I	132.8	155.0	116.7	153.3	117.7	115.4	124.3	118.7
	II	134.1	156.5	116.7	155.5	118.0	115.9	125.7	119.6
	III	134.7	158.2	117.4	r156.8	118.5	r116.4	r126.3	r120.1
	IV	135.0	159.3	118.0	158.0	118.4	117.1	126.8	120.7
	ANNUAL	134.2	157.2	117.1	156.0	118.2	116.2	125.8	119.8

Percent change from previous quarter at annual rate(5)									
2002	I	6.9	4.0	-2.7	5.5	4.1	-1.4	1.6	-0.3
	II	1.1	1.7	0.6	3.4	-0.1	2.3	1.0	1.8
	III	4.5	3.6	-0.9	1.5	-0.8	-2.9	8.0	1.0
	IV	1.6	1.4	-0.2	1.2	-0.6	-0.3	4.2	1.3
	ANNUAL	4.4	1.8	-2.5	3.3	1.6	-1.1	4.7	1.0
2003	I	3.7	2.4	-1.3	5.3	1.5	1.6	2.4	1.9
	II	6.7	5.3	-1.4	5.7	5.0	-1.0	2.9	0.5
	III	9.0	9.3	0.3	6.1	3.6	-2.7	6.3	0.6
	IV	3.1	4.6	1.4	4.4	3.6	1.2	-1.2	0.3
	ANNUAL	4.4	3.8	-0.6	4.1	1.7	-0.4	3.7	1.1
2004	I	3.7	5.7	2.0	2.0	-1.6	-1.6	8.0	2.0
	II	3.9	4.2	0.3	5.9	1.1	1.9	4.6	2.9
	III	1.8	4.2	2.4	r3.5	r1.6	r1.6	r2.1	r1.8
	IV	0.8	2.8	1.9	3.1	-0.3	2.3	1.6	2.0
	ANNUAL	4.1	5.3	1.1	4.2	1.5	0.1	3.9	1.6

Percent change from corresponding quarter of previous year									
2002	I	5.1	0.9	-4.0	3.2	2.0	-1.8	6.7	1.2
	II	4.0	1.0	-2.9	3.5	2.2	-0.5	3.4	0.9
	III	4.8	2.6	-2.1	3.4	1.7	-1.3	5.2	1.0
	IV	3.5	2.7	-0.8	2.9	0.6	-0.6	3.7	1.0
	ANNUAL	4.4	1.8	-2.5	3.3	1.6	-1.1	4.7	1.0
2003	I	2.7	2.3	-0.5	2.9	0.0	0.1	3.9	1.5
	II	4.1	3.2	-0.9	3.4	1.2	-0.7	4.4	1.2
	III	5.2	4.6	-0.7	4.6	2.4	-0.6	3.9	1.1
	IV	5.6	5.4	-0.2	5.4	3.4	-0.2	2.5	0.8
	ANNUAL	4.4	3.8	-0.6	4.1	1.7	-0.4	3.7	1.1
2004	I	5.6	6.2	0.6	4.5	2.6	-1.0	3.9	0.8
	II	4.9	6.0	1.0	4.6	1.7	-0.3	4.4	1.5
	III	3.1	4.7	1.5	r3.9	1.2	0.8	r3.3	r1.8
	IV	2.5	4.2	1.6	3.6	0.2	1.0	4.1	2.2
	ANNUAL	4.1	5.3	1.1	4.2	1.5	0.1	3.9	1.6

See footnotes following Table 6.
r=revisedFebruary 3, 2005
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	r144.5	r131.1	90.7	r143.8	r115.7	r99.6
	II	r146.4	r132.4	90.4	r146.7	r117.0	r100.2
	III	r148.7	r133.2	89.5	r148.3	r117.6	r99.7
	IV	r149.7	r132.1	88.2	r149.6	r118.1	r99.9
	ANNUAL	r147.3	r132.2	89.7	r147.1	r117.1	r99.8
2003	I	r151.6	r131.8	87.0	r155.4	r121.6	r102.6
	II	r152.7	r130.7	85.6	r158.2	r123.5	r103.6
	III	r156.7	r132.1	84.3	r161.3	r125.2	r103.0
	IV	r158.1	r134.2	84.9	r163.6	r126.7	r103.5
	ANNUAL	r154.7	r132.2	85.4	r159.6	r124.2	r103.2
2004	I	r158.8	r136.0	85.6	r161.9	r124.3	r101.9
	II	r161.7	r138.0	85.3	r164.6	r124.9	r101.8
	III	r163.4	r139.4	85.3	r166.4	r125.7	r101.8
	IV	165.6	140.9	85.1	168.8	126.5	101.9
	ANNUAL	162.4	138.6	85.3	165.4	125.4	101.9

Percent change from previous quarter at annual rate(5)							
2002	I	r10.9	r3.2	-6.9	14.2	12.7	r3.0
	II	r5.5	r4.1	-1.3	8.2	4.5	r2.5
	III	r6.6	r2.4	-3.9	4.5	2.1	r-1.9
	IV	r2.7	r-3.2	-5.7	3.5	1.6	r0.8
	ANNUAL	r7.6	r-0.1	-7.1	6.7	5.0	r-0.8
2003	I	r5.0	r-0.9	-5.6	16.6	12.3	r11.0
	II	r3.0	r-3.4	-6.3	7.4	6.7	r4.2
	III	r10.8	r4.5	-5.7	8.1	5.6	r-2.4
	IV	r3.7	r6.6	2.8	5.7	4.9	r2.0
	ANNUAL	r5.0	r0.0	-4.8	8.5	6.1	r3.3
2004	I	r1.9	r5.4	3.4	-4.1	-7.4	r-5.9
	II	r7.5	r5.9	-1.4	6.8	2.0	r-0.6
	III	r4.2	r4.0	-0.1	r4.5	r2.6	r0.3
	IV	5.6	4.5	-1.0	6.0	2.5	0.4
	ANNUAL	4.9	4.8	-0.1	3.6	0.9	-1.3

Percent change from corresponding quarter of previous year							
2002	I	r7.3	r-2.8	-9.4	4.1	2.8	r-3.0
	II	r8.0	r-0.5	-7.9	7.0	5.6	r-0.9
	III	r8.6	r1.5	-6.6	8.2	6.5	r-0.3
	IV	r6.3	r1.6	-4.5	7.5	5.1	r1.1
	ANNUAL	r7.6	r-0.1	-7.1	6.7	5.0	r-0.8
2003	I	r4.9	0.6	-4.2	8.1	5.1	r3.0
	II	r4.3	-1.3	-5.4	7.9	5.6	r3.4
	III	r5.3	r-0.8	-5.8	8.8	6.5	r3.3
	IV	5.6	r1.6	-3.8	9.4	7.3	r3.6
	ANNUAL	r5.0	r0.0	-4.8	8.5	6.1	r3.3
2004	I	4.8	3.2	-1.5	4.2	2.3	-0.6
	II	r5.9	r5.6	-0.3	4.0	1.1	r-1.8
	III	r4.3	r5.5	1.2	r3.1	0.4	r-1.1
	IV	4.8	5.0	0.2	3.2	-0.2	-1.5
	ANNUAL	4.9	4.8	-0.1	3.6	0.9	-1.3

See footnotes following Table 6.
r=revisedFebruary 3, 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	r161.8	r153.1	94.6	r140.8	r113.3	r87.0
	II	r164.5	r155.3	94.4	r143.8	r114.7	r87.4
	III	r167.7	r156.6	93.4	r145.0	r115.0	r86.5
	IV	r170.8	r156.3	91.5	r146.3	r115.5	r85.7
	ANNUAL	r166.2	r155.3	93.5	r144.0	r114.6	r86.6
2003	I	r172.5	r155.7	90.2	r153.4	r120.0	r88.9
	II	r174.1	r154.3	88.7	r156.4	r122.1	r89.8
	III	r180.7	r157.6	87.2	r159.6	r123.9	r88.3
	IV	r182.8	r161.5	88.3	r161.8	r125.3	r88.5
	ANNUAL	r177.5	r157.3	88.6	r157.8	r122.8	r88.9
2004	I	r184.0	r164.6	89.5	r158.8	r121.9	r86.3
	II	r187.3	r167.1	89.2	r161.7	r122.7	r86.3
	III	r189.4	r169.5	89.5	r163.3	r123.4	r86.2
	IV	192.8	172.3	89.3	165.7	124.2	86.0
	ANNUAL	188.4	168.4	89.4	162.4	123.0	86.2
Percent change from previous quarter at annual rate(5)							
2002	I	r13.1	r4.1	-8.0	8.4	7.0	r-4.1
	II	r6.7	r6.0	-0.7	8.6	5.0	r1.8
	III	r8.0	3.3	-4.3	3.5	1.1	r-4.2
	IV	r7.5	r-0.7	-7.6	3.6	1.7	r-3.6
	ANNUAL	r8.6	r-0.4	-8.3	5.6	3.9	r-2.8
2003	I	r4.2	r-1.6	-5.6	20.8	16.4	r15.9
	II	r3.7	r-3.4	-6.8	8.0	7.3	r4.2
	III	r16.1	r8.7	-6.3	8.7	6.1	r-6.4
	IV	r4.8	r10.1	5.1	5.5	4.7	r0.6
	ANNUAL	r6.8	r1.3	-5.2	9.6	7.1	r2.6
2004	I	r2.6	r8.1	5.4	-7.1	-10.4	r-9.5
	II	r7.4	r6.0	-1.3	7.4	2.5	r0.0
	III	r4.6	r6.0	r1.3	r4.1	r2.2	r-0.5
	IV	7.3	6.6	-0.6	6.1	2.6	-1.1
	ANNUAL	6.1	7.1	0.9	2.9	0.2	-3.0
Percent change from corresponding quarter of previous year							
2002	I	r7.7	r-4.4	-11.2	3.3	2.0	r-4.1
	II	r8.6	r-1.5	-9.3	6.0	4.7	r-2.4
	III	r9.3	r1.4	-7.3	7.0	5.2	r-2.2
	IV	r8.8	r3.2	-5.2	6.0	3.7	r-2.6
	ANNUAL	r8.6	r-0.4	-8.3	5.6	3.9	r-2.8
2003	I	r6.6	r1.7	-4.6	8.9	5.9	r2.2
	II	r5.8	r-0.6	-6.1	8.7	6.5	r2.8
	III	r7.8	r0.7	-6.6	10.1	7.7	r2.2
	IV	r7.1	r3.3	-3.5	10.6	8.5	r3.3
	ANNUAL	r6.8	r1.3	-5.2	9.6	7.1	r2.6
2004	I	6.7	5.8	-0.8	3.5	1.7	r-2.9
	II	r7.6	r8.3	0.6	3.4	0.5	r-3.9
	III	r4.8	r7.6	r2.6	2.3	r-0.4	r-2.4
	IV	5.4	6.7	1.2	2.4	-0.9	-2.8
	ANNUAL	6.1	7.1	0.9	2.9	0.2	-3.0

See footnotes following Table 6.
r=revised

February 3, 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	r127.0	r107.9	85.0	r147.9	r119.0	r116.5
	II	r128.3	r108.4	84.5	r150.5	r120.1	r117.4
	III	r129.7	r108.7	83.8	r152.9	r121.3	r117.9
	IV	r128.4	r106.9	83.3	r154.3	r121.8	120.2
	ANNUAL	r128.3	r108.0	84.2	r151.4	r120.5	r118.0
2003	I	r130.3	r106.9	82.1	r157.7	r123.4	r121.1
	II	r130.9	r106.0	81.0	r160.2	r125.1	r122.3
	III	r132.3	r105.9	80.0	r163.0	r126.5	r123.2
	IV	r133.4	r106.5	79.9	r165.2	r128.0	r123.9
	ANNUAL	r131.7	r106.3	80.7	r161.5	r125.7	r122.6
2004	I	r134.0	r107.1	79.9	r165.9	r127.4	r123.8
	II	r136.5	r108.6	79.6	r168.1	r127.6	r123.2
	III	r137.9	r109.0	r79.1	r170.2	r128.6	r123.4
	IV	139.2	109.6	78.7	172.6	129.3	124.0
	ANNUAL	136.9	108.6	79.3	169.2	128.2	123.6
Percent change from previous quarter at annual rate(5)							
2002	I	r7.7	r2.2	-5.1	26.5	24.9	r17.4
	II	r4.2	r1.8	-2.3	7.2	3.6	r2.9
	III	r4.6	r1.1	-3.3	6.6	4.1	r1.9
	IV	r-4.0	r-6.4	-2.5	3.7	1.8	r8.0
	ANNUAL	r5.6	r0.2	-5.2	9.3	7.5	r3.4
2003	I	r5.9	r0.1	-5.5	9.1	5.1	r3.0
	II	r2.1	r-3.5	-5.5	6.3	5.7	r4.2
	III	r4.2	r-0.6	-4.6	7.2	4.7	r2.9
	IV	r3.2	r2.4	-0.7	5.6	4.8	r2.4
	ANNUAL	r2.6	r-1.5	-4.1	6.7	4.3	r3.9
2004	I	r1.9	r2.1	0.2	1.5	-2.0	r-0.4
	II	r7.6	r5.7	-1.7	5.6	0.8	r-1.9
	III	r4.3	r1.7	r-2.5	r5.0	r3.0	r0.6
	IV	3.7	2.0	-1.7	5.7	2.2	2.0
	ANNUAL	3.9	2.1	-1.8	4.8	2.0	0.8
Percent change from corresponding quarter of previous year							
2002	I	r5.9	r-0.9	-6.4	6.2	5.0	r0.3
	II	r6.4	r0.6	-5.4	9.2	7.9	r2.7
	III	r7.3	r1.5	-5.4	10.9	9.2	r3.4
	IV	r3.0	r-0.4	-3.3	10.6	8.2	r7.4
	ANNUAL	r5.6	r0.2	-5.2	9.3	7.5	r3.4
2003	I	r2.6	r-0.9	-3.4	6.6	3.6	r3.9
	II	r2.1	r-2.2	-4.2	6.4	4.2	r4.2
	III	r2.0	r-2.6	-4.5	6.6	4.3	r4.5
	IV	r3.9	r-0.4	-4.1	7.1	5.1	r3.1
	ANNUAL	r2.6	r-1.5	-4.1	6.7	4.3	r3.9
2004	I	2.9	r0.1	-2.7	5.2	3.3	2.2
	II	r4.2	r2.4	-1.7	5.0	2.1	r0.7
	III	r4.2	r3.0	r-1.2	r4.4	r1.6	r0.2
	IV	4.4	2.9	-1.4	4.4	1.0	0.1
	ANNUAL	3.9	2.1	-1.8	4.8	2.0	0.8

See footnotes following Table 6.
r=revised

February 3, 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	r126.8	r150.2	118.5	139.9	112.6	r110.4	r113.6	r111.3	r88.8	r109.3
	II	r128.1	r151.7	118.4	141.3	112.7	r110.3	r112.7	r111.0	r94.5	r109.5
	III	r129.0	r152.2	117.9	142.1	112.7	r110.1	r112.8	r110.9	r95.8	r109.5
	IV	r129.6	r152.4	117.6	142.9	112.8	r110.2	r112.8	r110.9	r102.3	r110.1
	ANNUAL	128.4	151.6	118.1	141.5	112.7	r110.3	113.0	111.0	95.4	109.6
2003	I	r130.2	r152.2	116.8	144.1	112.7	r110.7	r114.0	r111.6	r100.0	r110.5
	II	r132.7	r154.4	116.4	146.3	114.2	r110.3	r112.6	r110.9	r112.2	r111.0
	III	r135.3	r157.3	116.2	148.5	115.3	r109.8	r112.6	r110.5	r120.3	r111.4
	IV	r136.8	r159.6	116.7	150.0	116.2	r109.7	r112.2	r110.4	r125.1	r111.7
	ANNUAL	r133.7	r155.9	116.5	147.3	114.6	r110.1	r112.9	r110.8	r114.6	r111.2
2004	I	r137.0	r160.9	117.5	150.9	115.9	r110.2	r111.1	r110.4	r129.9	r112.2
	II	r138.1	r162.6	117.7	152.9	116.1	r110.7	r111.4	r110.9	r136.3	r113.2
	III	r139.4	r164.7	r118.2	r154.3	r116.6	r110.7	r111.7	r111.0	r136.5	r113.2
Percent change from previous quarter at annual rate(5)											
2002	I	r7.5	r5.4	-2.0	1.7	0.4	r-5.4	r-7.0	r-5.9	r91.5	r-1.3
	II	r4.3	r4.2	-0.1	4.0	0.4	r-0.3	r-3.1	r-1.1	r28.2	r0.8
	III	r2.9	r1.1	-1.7	2.3	0.0	r-0.6	r0.3	r-0.3	r5.8	r0.1
	IV	r1.9	r0.7	-1.2	2.2	0.3	r0.3	r0.0	r0.2	r29.9	r2.3
	ANNUAL	r3.9	r1.0	-2.8	3.1	1.4	r-0.8	r0.3	r-0.5	r16.0	r0.6
2003	I	r1.9	r-0.7	-2.5	3.6	-0.2	r1.6	r4.4	r2.4	r-8.8	r1.4
	II	r7.7	r6.0	-1.5	6.2	5.5	r-1.4	r-4.9	r-2.4	r58.5	r1.8
	III	r8.2	r7.6	-0.6	6.2	3.6	r-1.9	r0.1	r-1.4	r32.3	r1.4
	IV	r4.3	r6.0	1.6	4.2	3.4	r-0.1	r-1.5	r-0.5	r16.8	r1.1
	ANNUAL	r4.2	r2.8	-1.3	4.0	1.7	r-0.1	r-0.1	r-0.1	r20.1	r1.4
2004	I	r0.6	r3.4	2.8	2.3	-1.3	r1.6	r-4.0	r0.1	r16.3	r1.6
	II	3.3	r4.3	0.9	5.5	0.7	r2.1	1.3	1.9	r21.0	3.8
	III	r3.9	r5.4	r1.4	r3.8	r1.9	r-0.1	r0.9	r0.1	r0.6	r0.2
Percent change from corresponding quarter of previous year											
2002	I	3.4	-1.1	-4.3	3.2	2.0	r-0.1	4.0	r1.0	r1.6	1.0
	II	r3.8	r0.4	-3.2	3.4	2.1	r-0.4	r1.0	r0.0	r8.8	r0.6
	III	r4.3	r1.9	-2.4	3.1	1.4	r-1.2	r-1.1	r-1.2	r21.4	r0.3
	IV	r4.1	r2.8	-1.3	2.5	0.3	r-1.5	r-2.5	r-1.8	r35.5	r0.5
	ANNUAL	r3.9	r1.0	-2.8	3.1	1.4	r-0.8	r0.3	r-0.5	r16.0	r0.6
2003	I	r2.7	r1.3	-1.4	3.0	0.1	r0.3	r0.4	r0.3	r12.6	r1.2
	II	r3.6	r1.8	-1.7	3.6	1.4	r0.0	r-0.1	r0.0	r18.7	r1.4
	III	r4.9	r3.3	-1.5	4.5	2.3	r-0.4	r-0.2	r-0.3	r25.5	r1.7
	IV	r5.5	r4.7	-0.8	5.0	3.1	r-0.5	r-0.5	r-0.5	r22.3	r1.4
	ANNUAL	r4.2	r2.8	-1.3	4.0	1.7	r-0.1	r-0.1	r-0.1	r20.1	r1.4
2004	I	r5.2	r5.7	0.5	4.7	2.8	r-0.5	r-2.6	r-1.0	r29.9	r1.5
	II	r4.1	r5.3	1.2	4.5	1.6	r0.4	r-1.0	r0.0	r21.5	r2.0
	III	r3.0	r4.7	1.7	r3.9	1.2	r0.9	r-0.8	0.4	r13.4	r1.7

See footnotes following Table 6.
r=revisedFebruary 3, 2005
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 third 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. 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	88.4	91.7	103.8	r81.3	r98.0	r92.0
1988	90.0	96.3	107.0	r84.1	r97.8	r93.4
1989	90.3	97.2	107.6	r86.6	r96.6	r95.9
1990	92.9	97.6	105.0	r90.5	r96.1	r97.3
1991	95.4	96.0	100.5	r95.6	r98.0	r100.1
1992	100.0	100.0	100.0	100.0	100.0	100.0
1993	102.7	104.1	101.4	r102.0	r99.5	r99.3
1994	106.1	110.0	103.8	r105.3	r100.6	r99.3
1995	109.9	115.0	104.6	r107.3	r100.1	r97.6
1996	113.9	118.6	104.2	r109.3	r99.3	r96.0
1997	118.0	125.1	106.0	r112.2	r99.8	r95.1
1998	123.6	130.7	105.7	r118.7	r104.2	r96.0
1999	128.1	134.6	105.1	r123.4	r106.0	r96.4
2000	134.1	138.6	103.4	r134.7	r112.0	r100.5
2001	136.9	132.3	96.6	r137.8	r111.5	r100.7
2002	r147.3	r132.2	89.7	r147.1	r117.1	r99.8
2003	r154.7	r132.2	85.4	r159.6	r124.2	r103.2
2004	r162.4	r138.6	r85.3	r165.4	r125.4	r101.9

See footnotes following Table 6.
r=revised

February 3, 2004
Source: Bureau of Labor Statistics

Appendix table 2. 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	Compensation per hour (1)	Real compensation per hour (2)	Unit labor costs
1987	89.3	95.1	106.5	r81.3	r97.9	r91.0
1988	91.2	100.9	110.6	r83.6	r97.2	r91.6
1989	91.1	101.1	111.0	r85.9	r95.8	r94.3
1990	93.2	100.1	107.4	r89.5	r95.0	r96.0
1991	94.5	95.9	101.4	94.9	r97.3	100.4
1992	100.0	100.0	100.0	100.0	100.0	100.0
1993	104.5	106.0	101.4	r101.9	r99.4	r97.4
1994	109.7	114.8	104.7	r105.4	r100.7	r96.1
1995	115.2	122.8	106.6	r106.7	r99.5	r92.6
1996	120.7	129.5	107.3	108.1	98.2	89.5
1997	126.3	139.5	110.5	110.6	98.4	87.6
1998	135.4	150.2	111.0	r117.1	r102.7	r86.5
1999	143.3	158.5	110.6	r122.4	r105.2	r85.4
2000	150.9	165.7	109.8	r134.2	r111.6	r89.0
2001	152.9	155.9	101.9	r136.4	r110.3	r89.2
2002	r166.2	r155.3	93.5	r144.0	r114.6	r86.6
2003	r177.5	r157.3	88.6	r157.8	r122.8	r88.9
2004	r188.4	r168.4	r89.4	r162.4	r123.0	r86.2

See footnotes following Table 6.
r=revised

February 3, 2004
Source: Bureau of Labor Statistics

Appendix table 3. 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	99.7	r80.8	r97.4	r89.3
1988	92.0	93.3	101.5	r84.2	r98.0	r91.6
1989	92.3	94.7	102.7	r87.1	r97.2	r94.4
1990	94.8	96.1	101.4	r91.7	r97.4	r96.8
1991	97.4	96.6	99.2	r96.5	r98.9	r99.1
1992	100.0	100.0	100.0	100.0	100.0	100.0
1993	100.5	101.9	101.4	r102.3	r99.8	r101.8
1994	102.2	104.5	102.3	r104.7	r100.1	r102.5
1995	104.6	106.3	101.6	r107.8	r100.6	r103.0
1996	107.1	106.5	99.5	r110.8	r100.7	r103.5
1997	110.7	110.0	99.4	r114.1	r101.5	r103.1
1998	113.0	110.6	97.9	r120.3	r105.5	r106.5
1999	113.9	110.3	96.9	r123.6	r106.2	r108.5
2000	118.5	111.1	93.8	r133.2	r110.7	r112.4
2001	121.5	107.8	88.7	r138.6	r112.1	r114.1
2002	r128.3	r108.0	84.2	r151.4	r120.5	r118.0
2003	r131.7	r106.3	80.7	r161.5	r125.7	r122.6
2004	r136.9	r108.6	r79.3	r169.2	r128.2	r123.6

See footnotes following Table 6.
r=revised

February 3, 2004
Source: Bureau of Labor Statistics

Appendix table 4. 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	r52.8	r25.4	48.0	15.0	67.2	r28.4	r23.5	r27.1	r47.2	r28.9
1959	r55.3	r28.2	50.9	15.6	69.3	r28.1	r22.3	r26.6	r55.8	r29.2
1960	r56.2	r29.1	51.8	16.2	70.8	r28.8	r23.3	r27.3	r50.2	r29.4
1961	r57.9	r29.7	51.3	16.7	72.4	r28.8	r23.8	r27.5	r50.3	r29.5
1962	r60.4	r32.2	53.3	17.4	74.4	r28.7	r23.4	r27.3	r54.5	r29.7
1963	r62.5	r34.1	54.5	17.9	75.7	r28.6	r23.4	r27.2	r57.3	r29.9
1964	r63.5	r36.5	57.5	18.2	76.2	r28.7	r23.3	r27.2	r59.7	r30.1
1965	r65.1	r39.5	60.7	18.8	77.1	r28.8	r23.1	r27.3	r64.1	r30.6
1966	r66.2	r42.3	63.9	19.8	79.2	r29.9	r23.3	r28.2	r63.6	r31.3
1967	r67.1	r43.4	64.6	20.9	81.1	r31.2	r24.7	r29.4	r59.9	r32.2
1968	r69.5	r46.1	66.4	22.5	83.7	r32.4	r26.2	r30.7	r60.0	r33.4
1969	r69.5	r47.9	69.0	24.0	84.8	r34.6	r28.6	r33.0	r54.0	r34.8
1970	r69.8	r47.4	67.9	25.7	85.9	r36.9	r32.2	r35.6	r44.4	r36.4
1971	r72.7	r49.3	67.9	27.3	87.4	r37.6	r33.6	r36.5	r50.5	r37.8
1972	r74.2	r53.1	71.6	28.8	89.2	r38.8	r33.9	r37.5	r54.1	r39.0
1973	r74.8	r56.3	75.2	31.0	90.4	r41.4	r35.7	r39.9	r54.9	r41.2
1974	r73.3	r55.3	75.5	33.9	89.2	r46.3	r41.1	r44.9	r48.4	r45.2
1975	r76.1	r54.6	71.7	37.3	89.7	r49.0	r46.6	r48.3	r63.1	r49.6
1976	r78.5	r58.9	75.0	40.3	91.8	r51.3	r46.4	r50.0	r71.4	r51.9
1977	r80.6	r63.2	78.4	43.5	93.0	r54.0	r48.4	r52.5	r77.3	r54.7
1978	r81.7	r67.4	82.5	47.6	95.1	r58.2	r51.2	r56.4	r79.1	r58.4
1979	r81.0	r69.5	85.8	51.9	94.9	r64.1	r55.8	r61.9	r74.0	r62.9
1980	r80.8	r68.8	85.2	57.2	94.1	r70.8	r64.9	r69.2	r66.9	r69.0
1981	r82.9	r71.6	86.4	62.4	93.9	r75.3	r73.4	r74.8	r81.0	r75.4
1982	r83.1	r69.9	84.1	66.5	94.4	r80.0	r81.3	r80.4	r75.2	r79.9
1983	r85.7	r73.1	85.3	68.9	94.0	r80.4	r81.6	r80.7	r91.2	r81.7
1984	r87.8	r79.7	90.8	71.9	94.3	r81.9	r81.3	r81.7	r107.6	r84.1
1985	r89.6	r83.2	92.9	75.2	95.4	r83.9	r83.6	r83.8	r102.3	r85.5
1986	r91.4	r85.2	93.2	78.9	98.3	r86.3	r86.3	r86.3	r90.2	r86.6
1987	r93.3	r89.7	96.1	81.6	98.3	r87.4	r85.8	r87.0	r100.1	r88.1
1988	r95.7	r94.9	99.1	84.9	98.7	r88.7	r86.8	r88.2	r111.6	r90.3
1989	r94.6	r96.6	102.2	87.0	97.0	r92.0	r93.3	r92.4	r101.2	r93.2
1990	r95.4	r97.8	102.5	91.1	96.8	r95.5	r97.3	r96.0	r96.9	r96.1
1991	r97.4	r97.0	99.6	95.5	97.9	r98.0	r102.7	r99.3	r93.2	r98.7
1992	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1993	r100.3	r102.8	102.4	101.8	99.3	r101.4	r99.9	r101.0	r114.1	r102.2
1994	r102.2	r109.2	106.8	103.6	98.9	r101.3	r100.8	r101.2	r131.7	r103.9
1995	103.3	114.3	110.6	105.3	98.3	r101.9	r101.2	r101.7	136.9	104.9
1996	r107.1	r120.6	112.6	108.5	98.6	r101.3	r100.0	100.9	r150.0	105.3
1997	109.9	128.4	116.9	111.7	99.4	101.7	r99.7	r101.1	r154.3	105.9
1998	r113.5	r135.8	119.7	118.1	103.6	r104.1	r99.5	r102.9	r137.0	r105.9
1999	r117.3	r144.0	122.8	123.5	106.1	r105.3	r100.4	r104.0	r129.1	r106.2
2000	r121.5	r151.5	124.7	132.0	109.7	r108.6	r104.2	r107.4	r108.7	r107.5
2001	r123.5	r150.2	121.5	137.3	111.1	r111.2	r112.6	r111.6	r82.2	r108.9
2002	128.4	151.6	118.1	141.5	112.7	r110.3	113.0	111.0	95.4	109.6
2003	r133.7	r155.9	116.5	147.3	114.6	r110.1	r112.9	r110.8	r114.6	r111.2

See footnotes following Table 6.
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