

News

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PRODUCTIVITY AND COSTS

Third Quarter 2004, preliminary

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 third quarter of 2004. The preliminary seasonally-adjusted annual rates of productivity growth in the third quarter were:

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

Productivity increased 2.3 percent in the business sector, as output grew 4.2 percent and hours increased 1.9 percent. The 1.9-percent rise in nonfarm business productivity occurred as output rose 4.1 percent and hours rose 2.1 percent (table A).

In manufacturing, productivity increases in the third quarter were:

4.3 percent in manufacturing,
5.0 percent in durable goods manufacturing, and
4.3 percent in nondurable goods manufacturing.

The third-quarter increase in manufacturing productivity is much lower than the 8.3-percent rise reported for the previous quarter (as revised). 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. Third-quarter measures are summarized in table A and appear in detail in tables 1 through 5.

The data sources and methods used in the preparation of the manufacturing series differ from those used in preparing the business and nonfarm business series, and these measures are not directly comparable. Output measures for business and nonfarm business are based on measures of gross domestic product prepared by the Bureau of Economic Analysis of the U.S. Department of Commerce. Quarterly output measures for manufacturing reflect indexes of industrial production independently prepared by the Board of Governors of the Federal Reserve System. See Technical Notes for further information on data sources (page 6).

Sector	Productivity	Output	Hours	Hourly compensation	Real hourly compensation	Unit labor costs
Percent change from preceding quarter						
Business	2.3	4.2	1.9	3.8	2.0	1.5
Nonfarm business	1.9	4.1	2.1	3.6	1.7	1.6
Manufacturing	4.3	4.0	-0.3	4.4	2.5	0.1
Durable	5.0	6.3	1.3	3.9	2.0	-1.0
Nondurable	4.3	1.3	-2.8	5.1	3.2	0.8
Percent change from same quarter a year ago						
Business	2.9	4.4	1.5	3.7	1.0	0.9
Nonfarm business	3.1	4.7	1.5	3.7	1.0	0.6
Manufacturing	4.6	5.8	1.1	2.4	-0.3	-2.1
Durable	5.2	8.0	2.6	1.5	-1.2	-3.5
Nondurable	4.5	3.1	-1.3	3.7	1.0	-0.7

Business

From the second quarter to the third quarter of 2004, productivity in the business sector grew at a 2.3 percent seasonally adjusted annual rate. Output increased 4.2 percent, while hours of all persons engaged in the sector increased 1.9 percent. After revisions, productivity in the business sector rose 2.9 percent in the second quarter of 2004, reflecting a 3.9-percent rise in output and a 1.0-percent rise in hours (tables B and 1).

Hourly compensation in the business sector increased at an annual rate of 3.8 percent during the third quarter of 2004, more slowly than the 4.3-percent rise one quarter earlier (revised). This measure includes wages and salaries, supplements, employer contributions to employee benefit plans, and taxes. Real hourly compensation, which takes into account changes in consumer prices, grew by 2.0 percent in the third quarter of 2004 after falling by 0.4 percent in the second quarter and 0.8 percent in the first quarter of the year.

Unit labor costs, which reflect changes in both hourly compensation and productivity, rose 1.5 percent during the third quarter, about the same rate of increase as the 1.4-percent growth in the second quarter. The implicit price deflator for the business sector increased 0.9 percent during the third quarter of 2004, following a 3.3 percent increase in the previous quarter.

Nonfarm business

Productivity in the nonfarm business sector grew at a 1.9-percent annual rate during the third quarter of 2004. Output grew 4.1 percent in the third quarter and hours worked in the nonfarm business sector rose 2.1 percent, reflecting a 1.7-percent gain in employment and a 0.4-percent increase in average weekly hours at work. Nonfarm business productivity increased 3.9 percent in the second quarter of 2004 (revised), as output grew 4.2 percent and hours rose by 0.3 percent (table 2).

Hourly compensation increased at a 3.6 percent annual rate in the third quarter of 2004. When the rise in consumer prices is taken into account, real hourly compensation rose 1.7 percent during the July-September period. During the second quarter of 2004, real hourly compensation had risen 0.2 percent.

Unit labor costs grew 1.6 percent during the third quarter of 2004. In the second quarter, unit labor costs in the nonfarm business sector had risen 1.0 percent. The implicit price deflator for nonfarm business output rose 1.6 percent in the third quarter of 2004.

Manufacturing

Productivity increased 4.3 percent in manufacturing in the third quarter of 2004, as output grew 4.0 percent and hours of all persons fell 0.3 percent (seasonally adjusted annual rates). In durable goods, productivity grew 5.0 percent in the third quarter as output increased 6.3 percent and hours of all persons rose 1.3 percent. Productivity increased 4.3 percent in nondurable goods, as a modest output increase of 1.3 percent was combined with a decline of 2.8 percent in hours of all persons (tables 3, 4, and 5).

The hourly compensation of manufacturing workers increased an average of 4.4 percent during the third quarter of 2004, reflecting increases of 3.9 percent in durable goods and 5.1 percent in nondurable goods. When the increase in consumer prices is taken into account, real hourly compensation in total manufacturing rose 2.5 percent in the third quarter. Real hourly compensation had fallen in both of the previous quarters, 0.9 percent in the second quarter (as revised) and 7.4 percent in the first quarter.

Unit labor costs in manufacturing edged up by 0.1 percent in the third quarter of 2004, after falling in three of the previous four quarters. In the durable goods sector, unit labor costs in the third quarter fell 1.0 percent in the third quarter and in the nondurable goods sector, these costs rose 0.8 percent.

Revised Measures

Current and previous measures for the first and second quarters of 2004 for the business, nonfarm business, and manufacturing sectors are compared in table B. Hours data for the second quarter now reflect more current data on the ratio of hours worked to hours paid and updated information on the relative average weekly hours of supervisory (nonproduction) workers to nonsupervisory (production) workers in private nonfarm businesses.

Table B. 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
Second quarter 2004						
Business:						
Previous	1.5	3.2	1.6	3.7	-1.0	2.1
Current	2.9	3.9	1.0	4.3	-0.4	1.4
Nonfarm business:						
Previous	2.5	3.5	1.0	4.3	-0.4	1.8
Current	3.9	4.2	0.3	4.9	0.2	1.0
Manufacturing:						
Previous	6.9	6.2	-0.6	3.2	-1.5	-3.5
Current	8.3	6.7	-1.4	3.8	-0.9	-4.2

In the business and nonfarm business sectors, productivity grew more rapidly than reported on Sept. 2, based on information then available. In both sectors, the growth in output was revised up and the growth in hours was revised down. Hourly compensation was revised up in both sectors. Unit labor costs rose much less than reported earlier. Productivity also was revised up in the manufacturing sector, reflecting faster growth in output and a larger decline in hours than previously reported. Hourly compensation rose more rapidly in the second quarter than reported earlier. Because productivity was revised up more than hourly compensation, unit labor costs in manufacturing show more of a decline in the second quarter than reported on Sept. 2.

On Oct. 13, 2004, a notice regarding corrections to the data released on Sept. 2 was posted on the BLS web site. Data for the second quarter 2004 for business, nonfarm business, manufacturing, and nonfinancial corporations were not affected. The Productivity and Costs news release of Aug. 10, 2004, which included revisions to historical measures, also contained some incorrect data. For more information, see www.bls.gov/lpc/note09022004.htm

Revised measures: Nonfinancial Corporations

Productivity and cost measures for nonfinancial corporations for the second quarter of 2004 also were revised to incorporate more recent information than was available on Sept. 2.

Table C. Nonfinancial corporations: Previous and revised productivity and cost measures Quarterly percent changes at seasonally adjusted annual rates								
	Produc- tivity	Output	Hours	Hourly compen- sation	Real hourly compen- sation	Unit labor costs	Unit profits	Implicit price deflator
Second quarter 2004								
Previous	1.4	3.2	1.8	4.0	-0.7	2.6	16.6	3.7
Current	2.7	3.7	0.9	4.7	0.0	1.9	21.7	3.8

Productivity grew at an annual rate of 2.7 percent in second-quarter 2004, compared with the increase of 1.4 percent published Sept. 2. This was the combined result of both an upward revision in output growth, from 3.2 percent to 3.7 percent, and a downward revision to hours growth, from 1.8 to 0.9 percent. Hourly compensation was revised up. However, the upward revision to productivity more than offset the upward revision to hourly compensation, and unit labor costs grew more slowly than reported previously. Unit profits also grew more rapidly than reported on Sept. 2. (tables C and 6).

Upcoming change

Early in 2005, 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.

Next release date

The next release of **Productivity and Costs** is scheduled for **8:30 AM EST, Tuesday, Dec. 7, 2004**. It will present third-quarter measures for nonfinancial corporations and revised third-quarter measures for business, nonfarm business, and manufacturing.

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	r134.2	r155.8	r116.1	r155.9	r118.3	r116.1	r124.8	119.4
	III	135.0	157.4	116.6	157.3	118.9	116.6	124.8	119.6

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	r2.9	r3.9	r1.0	r4.3	r-0.4	r1.4	r6.4	3.3
	III	2.3	4.2	1.9	3.8	2.0	1.5	0.0	0.9

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	r4.4	r5.6	r1.2	r4.2	r1.3	r-0.2	r4.9	1.7
	III	2.9	4.4	1.5	3.7	1.0	0.9	3.3	1.8

See footnotes following Table 6.
r=revisedNovember 4, 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	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	r134.1	r156.5	r116.7	r155.2	r117.8	r115.7	r126.1	r119.6
	III	134.7	158.1	117.4	156.5	118.3	116.2	126.6	120.0
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	r3.9	r4.2	r0.3	r4.9	r0.2	r1.0	r6.0	2.9
	III	1.9	4.1	2.1	3.6	1.7	1.6	1.6	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	r4.9	r6.0	r1.0	r4.4	r1.4	r-0.5	r4.7	1.5
	III	3.1	4.7	1.5	3.7	1.0	0.6	3.5	1.7

See footnotes following Table 6.
r=revisedNovember 4, 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	143.8	130.5	90.7	144.1	115.9	100.2
	II	145.7	131.8	90.4	147.0	117.2	100.8
	III	147.8	132.4	89.5	148.6	117.8	100.5
	IV	148.8	131.3	88.2	149.9	118.3	100.7
	ANNUAL	146.5	131.5	89.7	147.4	117.3	100.6
2003	I	151.0	131.3	87.0	155.7	121.8	103.1
	II	152.1	130.1	85.6	158.5	123.8	104.2
	III	156.0	131.5	84.3	161.6	125.5	103.6
	IV	157.2	133.5	84.9	163.9	127.0	104.2
	ANNUAL	154.1	131.6	85.4	159.9	124.5	103.8
2004	I	158.3	135.5	85.6	162.2	124.5	102.5
	II	r161.5	r137.8	r85.3	r163.7	r124.3	r101.4
	III	163.2	139.1	85.3	165.5	125.0	101.4

Percent change from previous quarter at annual rate(5)							
2002	I	10.0	2.5	-6.9	14.2	12.7	3.8
	II	5.4	4.0	-1.3	8.2	4.5	2.6
	III	5.9	1.7	-3.9	4.5	2.1	-1.3
	IV	2.8	-3.1	-5.7	3.5	1.6	0.7
	ANNUAL	7.0	-0.6	-7.1	6.7	5.0	-0.3
2003	I	6.0	0.1	-5.6	16.6	12.3	10.0
	II	2.9	-3.6	-6.3	7.4	6.7	4.4
	III	10.6	4.3	-5.7	8.1	5.6	-2.2
	IV	3.3	6.2	2.8	5.7	4.9	2.3
	ANNUAL	5.1	0.1	-4.8	8.5	6.1	3.2
2004	I	2.7	6.2	3.4	-4.1	-7.4	-6.6
	II	r8.3	r6.7	r-1.4	r3.8	r-0.9	r-4.2
	III	4.3	4.0	-0.3	4.4	2.5	0.1

Percent change from corresponding quarter of previous year							
2002	I	6.6	-3.4	-9.4	4.1	2.8	-2.4
	II	7.3	-1.1	-7.9	7.0	5.6	-0.3
	III	8.0	0.9	-6.6	8.2	6.5	0.2
	IV	6.0	1.2	-4.5	7.5	5.1	1.4
	ANNUAL	7.0	-0.6	-7.1	6.7	5.0	-0.3
2003	I	5.0	0.6	-4.2	8.1	5.1	2.9
	II	4.4	-1.3	-5.4	7.9	5.6	3.3
	III	5.5	-0.6	-5.8	8.8	6.5	3.1
	IV	5.6	1.7	-3.8	9.4	7.3	3.5
	ANNUAL	5.1	0.1	-4.8	8.5	6.1	3.2
2004	I	4.8	3.2	-1.5	4.2	2.3	-0.6
	II	r6.2	r5.9	r-0.3	r3.3	r0.4	r-2.7
	III	4.6	5.8	1.1	2.4	-0.3	-2.1

See footnotes following Table 6.
r=revised

November 4, 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	161.4	152.6	94.6	142.2	114.4	88.1
	II	163.9	154.7	94.4	145.2	115.8	88.6
	III	167.0	155.9	93.4	146.4	116.1	87.7
	IV	170.5	156.1	91.5	147.7	116.6	86.6
	ANNUAL	165.7	154.8	93.5	145.4	115.7	87.7
2003	I	173.6	156.6	90.2	154.9	121.1	89.2
	II	175.0	155.1	88.7	157.9	123.3	90.2
	III	181.5	158.3	87.2	161.2	125.1	88.8
	IV	183.3	161.9	88.3	163.4	126.5	89.1
	ANNUAL	178.3	158.0	88.6	159.3	124.0	89.3
2004	I	185.2	165.7	89.5	160.4	123.1	86.6
	II	r188.7	r168.3	r89.2	r162.1	r123.0	r85.9
	III	191.0	170.9	89.5	163.6	123.6	85.7

Percent change from previous quarter at annual rate(5)							
2002	I	11.7	2.8	-8.0	8.4	7.0	-2.9
	II	6.3	5.5	-0.7	8.6	5.0	2.2
	III	7.9	3.3	-4.3	3.5	1.1	-4.1
	IV	8.7	0.4	-7.6	3.6	1.7	-4.7
	ANNUAL	8.3	-0.7	-8.3	5.6	3.9	-2.5
2003	I	7.4	1.4	-5.6	20.8	16.4	12.5
	II	3.1	-3.9	-6.8	8.0	7.3	4.7
	III	15.8	8.4	-6.3	8.7	6.1	-6.1
	IV	4.1	9.4	5.1	5.5	4.7	1.3
	ANNUAL	7.6	2.0	-5.2	9.6	7.1	1.8
2004	I	4.3	9.9	5.4	-7.1	-10.4	-10.9
	II	r7.7	r6.3	r-1.3	r4.4	r-0.4	r-3.1
	III	5.0	6.3	1.3	3.9	2.0	-1.0

Percent change from corresponding quarter of previous year							
2002	I	7.1	-4.9	-11.2	3.3	2.0	-3.6
	II	8.3	-1.8	-9.3	6.0	4.7	-2.0
	III	9.2	1.2	-7.3	7.0	5.2	-2.0
	IV	8.6	3.0	-5.2	6.0	3.7	-2.4
	ANNUAL	8.3	-0.7	-8.3	5.6	3.9	-2.5
2003	I	7.6	2.6	-4.6	8.9	5.9	1.2
	II	6.8	0.3	-6.1	8.7	6.5	1.9
	III	8.7	1.5	-6.6	10.1	7.7	1.3
	IV	7.5	3.7	-3.5	10.6	8.5	2.9
	ANNUAL	7.6	2.0	-5.2	9.6	7.1	1.8
2004	I	6.7	5.8	-0.8	3.5	1.7	-3.0
	II	r7.9	r8.5	r0.6	r2.7	r-0.2	r-4.8
	III	5.2	8.0	2.6	1.5	-1.2	-3.5

See footnotes following Table 6.
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November 4, 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	126.1	107.2	85.0	146.2	117.6
	II	127.5	107.8	84.5	148.8	118.7
	III	128.5	107.7	83.8	151.2	119.9
	IV	126.9	105.7	83.3	152.5	120.4
	ANNUAL	127.3	107.1	84.2	149.6	119.1
2003	I	128.2	105.3	82.1	155.9	121.9
	II	129.0	104.4	81.0	158.3	123.6
	III	130.4	104.3	80.0	161.1	125.0
	IV	131.5	105.0	79.9	163.3	126.5
	ANNUAL	129.8	104.8	80.7	159.6	124.2
2004	I	132.0	105.5	79.9	163.9	125.9
	II	r134.8	r107.2	r79.6	r165.0	r125.2
	III	136.2	107.6	79.0	167.1	126.2
----- Percent change from previous quarter at annual rate(5)						
2002	I	7.4	2.0	-5.1	26.5	24.9
	II	4.6	2.2	-2.3	7.2	3.6
	III	3.2	-0.2	-3.3	6.6	4.1
	IV	-4.9	-7.3	-2.5	3.7	1.8
	ANNUAL	4.8	-0.6	-5.2	9.3	7.5
2003	I	4.2	-1.5	-5.5	9.1	5.1
	II	2.3	-3.2	-5.5	6.3	5.7
	III	4.4	-0.4	-4.6	7.2	4.7
	IV	3.4	2.6	-0.7	5.6	4.8
	ANNUAL	2.0	-2.2	-4.1	6.7	4.3
2004	I	1.6	1.8	0.2	1.5	-2.0
	II	r8.7	r6.9	r-1.7	r2.6	r-2.1
	III	4.3	1.3	-2.8	5.1	3.2
----- Percent change from corresponding quarter of previous year						
2002	I	5.0	-1.7	-6.4	6.2	5.0
	II	5.3	-0.4	-5.4	9.2	7.9
	III	6.2	0.5	-5.4	10.9	9.2
	IV	2.5	-0.9	-3.3	10.6	8.2
	ANNUAL	4.8	-0.6	-5.2	9.3	7.5
2003	I	1.7	-1.8	-3.4	6.6	3.6
	II	1.2	-3.1	-4.2	6.4	4.2
	III	1.5	-3.1	-4.5	6.6	4.3
	IV	3.6	-0.7	-4.1	7.1	5.1
	ANNUAL	2.0	-2.2	-4.1	6.7	4.3
2004	I	2.9	0.2	-2.7	5.2	3.3
	II	r4.5	r2.7	r-1.7	r4.2	r1.3
	III	4.5	3.1	-1.3	3.7	1.0

See footnotes following Table 6.
r=revised

November 4, 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	126.3	149.7	118.5	139.9	112.6	110.8	114.0	111.6	89.1	109.6
	II	127.9	151.4	118.4	141.3	112.7	110.5	112.9	111.2	94.7	109.7
	III	129.2	152.3	117.9	142.1	112.7	110.0	112.7	110.7	95.7	109.4
	IV	130.2	153.1	117.6	142.9	112.8	109.7	112.3	110.4	101.8	109.6
	ANNUAL	128.4	151.6	118.1	141.5	112.7	110.2	113.0	111.0	95.4	109.6
2003	I	131.3	153.4	116.8	144.1	112.7	109.8	113.2	110.7	99.2	109.7
	II	134.1	156.1	116.4	146.3	114.2	109.1	111.4	109.7	111.0	109.8
	III	137.2	159.4	116.2	148.5	115.3	108.2	111.1	109.0	118.7	109.9
	IV	138.9	162.0	116.7	150.0	116.2	108.0	110.5	108.7	123.2	110.0
	ANNUAL	135.4	157.7	116.5	147.3	114.6	108.8	111.5	109.5	113.2	109.8
2004	I	138.9	163.2	117.5	150.9	115.9	108.6	109.5	108.8	128.1	110.6
	II	r139.9	r164.7	r117.7	r152.6	r115.8	r109.1	r110.0	r109.4	r134.5	111.6

Percent change from previous quarter at annual rate(5)											
2002	I	7.9	5.7	-2.0	1.7	0.4	-5.8	-7.3	-6.2	90.8	-1.6
	II	4.9	4.8	-0.1	4.0	0.4	-0.9	-3.7	-1.7	27.4	0.2
	III	4.1	2.3	-1.7	2.3	0.0	-1.7	-0.9	-1.5	4.5	-1.0
	IV	3.4	2.1	-1.2	2.2	0.3	-1.1	-1.4	-1.2	28.1	0.9
	ANNUAL	4.4	1.5	-2.8	3.1	1.4	-1.3	-0.2	-1.0	15.4	0.1
2003	I	3.2	0.6	-2.5	3.6	-0.2	0.4	3.0	1.1	-10.0	0.1
	II	9.1	7.4	-1.5	6.2	5.5	-2.6	-6.2	-3.6	56.4	0.5
	III	9.4	8.8	-0.6	6.2	3.6	-3.0	-1.0	-2.5	30.8	0.2
	IV	5.0	6.7	1.6	4.2	3.4	-0.8	-2.1	-1.2	16.1	0.4
	ANNUAL	5.4	4.0	-1.3	4.0	1.7	-1.3	-1.3	-1.3	18.7	0.2
2004	I	0.1	2.9	2.8	2.3	-1.3	2.1	-3.5	0.6	16.9	2.1
	II	r2.7	r3.7	r0.9	r4.7	r0.0	r1.9	r1.8	r1.9	r21.7	r3.8

Percent change from corresponding quarter of previous year											
2002	I	3.4	-1.1	-4.3	3.2	2.0	-0.2	4.0	0.9	1.5	1.0
	II	4.2	0.8	-3.2	3.4	2.1	-0.8	0.6	-0.4	8.4	0.2
	III	5.0	2.5	-2.4	3.1	1.4	-1.8	-1.7	-1.8	20.6	-0.4
	IV	5.1	3.7	-1.3	2.5	0.3	-2.4	-3.3	-2.7	34.3	-0.4
	ANNUAL	4.4	1.5	-2.8	3.1	1.4	-1.3	-0.2	-1.0	15.4	0.1
2003	I	3.9	2.5	-1.4	3.0	0.1	-0.9	-0.8	-0.8	11.3	0.1
	II	4.9	3.1	-1.7	3.6	1.4	-1.3	-1.4	-1.3	17.2	0.1
	III	6.2	4.7	-1.5	4.5	2.3	-1.6	-1.4	-1.6	23.9	0.4
	IV	6.6	5.8	-0.8	5.0	3.1	-1.5	-1.6	-1.6	20.9	0.3
	ANNUAL	5.4	4.0	-1.3	4.0	1.7	-1.3	-1.3	-1.3	18.7	0.2
2004	I	5.9	6.4	0.5	4.7	2.8	-1.1	-3.2	-1.7	29.1	0.8
	II	r4.3	r5.5	r1.2	r4.3	r1.4	r0.0	r-1.2	r-0.3	r21.2	1.6

See footnotes following Table 6.
r=revised

November 4, 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 second 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.