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PRODUCTIVITY AND COSTS

Second Quarter 2013, Preliminary

Nonfarm business sector labor productivity increased at a 0.9 percent annual rate during the second quarter of 2013, the U.S. Bureau of Labor Statistics reported today. The increase in productivity reflects increases of 2.6 percent in output and 1.7 percent in hours worked. (All quarterly percent changes in this release are seasonally adjusted annual rates.) From the second quarter of 2012 to the second quarter of 2013, productivity was unchanged as output and hours worked both increased 1.8 percent. (See chart 1 and table A.)

Labor productivity, or output per hour, is calculated by dividing an index of real output by an index of hours worked of all persons, including employees, proprietors, and unpaid family workers.

Chart 1. Output per hour, nonfarm business, all persons, 2009Q1 – 2013Q2

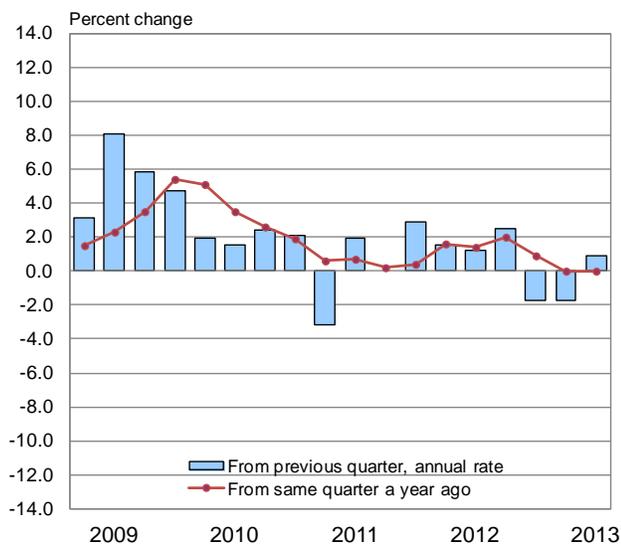
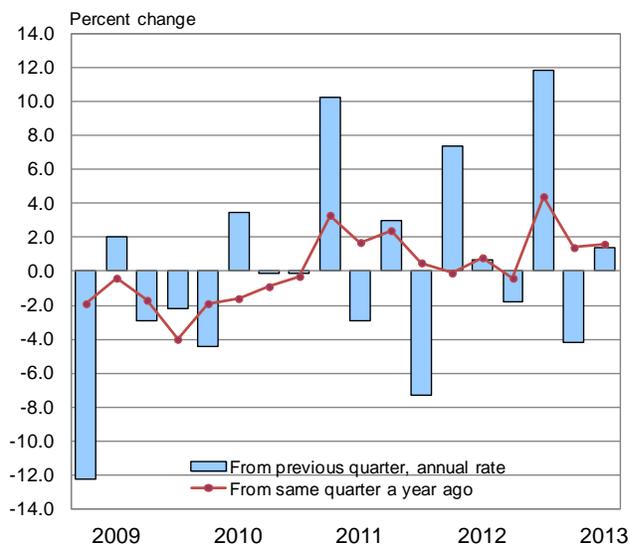


Chart 2. Unit labor costs, nonfarm business, all persons, 2009Q1 – 2013Q2



Historical Revisions to Productivity and Costs Data

Data in this release reflect the comprehensive revision to the National Income and Product Accounts (NIPA) released by the Bureau of Economic Analysis of the U.S. Department of Commerce on July 31, 2013. All index series have been rebased from 2005=100 to 2009=100. See "Revised measures" section (page 2).

Unit labor costs in nonfarm businesses increased 1.4 percent in the second quarter of 2013, the combined effect of a 2.3 percent increase in hourly compensation and the 0.9 percent increase in productivity. Over the last four quarters hourly compensation and unit labor costs both increased 1.6 percent. (See chart 2 and table A.)

BLS defines unit labor costs as the ratio of hourly compensation to labor productivity; increases in hourly compensation tend to increase unit labor costs and increases in output per hour tend to reduce them.

Manufacturing sector productivity rose 2.7 percent in the second quarter of 2013, as output grew 0.1 percent and hours worked fell 2.6 percent. Over the last four quarters, manufacturing productivity increased 2.2 percent, as output increased 2.1 percent and hours decreased 0.1 percent. **Unit labor costs in manufacturing** increased 1.4 percent in the second quarter of 2013 and decreased 0.4 percent from the same quarter a year ago. (See tables A and 3.)

The concepts, sources, and methods used for the manufacturing output series differ from those used in the business and nonfarm business output series; these output measures are not directly comparable. See Technical Notes for a more detailed explanation. (See page 5.)

Revised measures

Productivity, unit labor costs, and hourly compensation were subject to revisions for the full period of these series, which begin in 1947 for the business and nonfarm business sectors and in 1987 for the manufacturing sectors. Measures of output for the business and nonfarm business sectors and measures of compensation for all sectors incorporate the revised National Income and Product Accounts (NIPA) data released on July 31 by the Bureau of Economic Analysis, U.S. Department of Commerce. Output data for manufacturing incorporates revised output indexes constructed by BLS using data from the U.S. Department of Commerce. Hours were revised for the business and nonfarm business sectors for 1990 forward to include revised NIPA data on government enterprises and for 2001 forward to include revised NIPA data on the proportion of sector compensation paid to employees of nonprofit institutions.

Table B presents revised and previous productivity and related measures for the nonfarm business, business, and manufacturing sectors for the first quarter of 2013 and table C presents annual data for nonfarm business and total manufacturing from 2010 to 2012. All index measures show historical revisions because the base year was updated to 2009. A new base generally has little or no effect on percent changes. Revised quarterly and annual series for recent years appear in tables 1-5 and annual indexes for all years appear in appendix tables 1-5. Full historical annual and quarterly measures can be found on the productivity and costs home page <http://www.bls.gov/lpc/#data>.

In the **first quarter of 2013**, nonfarm business productivity declined 1.7 percent—rather than increasing 0.5 percent as reported June 5—as a downward revision to output was larger than a downward revision to hours. Unit labor costs fell 4.2 percent in the first quarter—about the same as previously reported—as the downward revision to productivity was offset by a downward revision to hourly compensation. In the manufacturing sector, productivity growth in the first quarter was 3.9 percent, as output growth was revised up and hours were revised down. Unit labor costs declined 3.2 percent, rather than decreasing 10.0 percent, reflecting a large upward revision to hourly compensation.

Annual Average productivity growth for 2012 in the **nonfarm business sector** was revised to 1.5 percent from 0.7 percent due to an upward revision to output. (See table C). Unit labor costs increased 1.2 percent, the same as reported June 5. Revisions to annual average changes in 2011 and 2010 were

small. Upward revisions to productivity—resulting from the NIPA benchmark revision to output—raised the annual average rate of growth in nonfarm business productivity during the 2000 to 2012 period from 2.2 percent to 2.4 percent. Growth in unit labor costs was revised down from 1.1 percent per year to 0.8 percent per year over the same period. The long-term productivity growth rate over the 66 years of the series is 2.3 percent, rather than the previously-published rate of 2.2 percent.

In the **manufacturing sector**, small downward revisions to annual average productivity growth in 2010, 2011, and 2012 were due to downward revisions to output. For the period 2000-2012, manufacturing productivity grew 2.9 percent per year on average, lower than the previous estimate of 3.0 percent. Unit labor costs had smaller increases in 2011 and 2012—and a smaller decline in 2010—than previously reported. For the period 2000-2012, unit labor costs growth was 0.2 percent per year, lower than the previous estimate of 0.5 percent per year.

Nonfinancial Corporate Sector Data Not Available

Data for the nonfinancial corporate sector are not available due to corrections to source data from the Bureau of Economic Analysis received August 15, as noted at http://www.bea.gov/newsreleases/national/gdp/2013/gdp2q13_adv.htm. These corrections could not be included in time for this news release. Measures for all other sectors are correct. BLS nonfinancial corporate sector data will be published with the next regularly scheduled Productivity and Costs news release on September 5, 2013, at 8:30 a.m.

The revised Productivity and Costs press release for second-quarter 2013 is scheduled to be released on Thursday, September 5, 2013 at 8:30 a.m. (EDT).

Table A. Preliminary second-quarter 2013 measures: percent change from previous quarter at annual rate (Q to Q) and from same quarter a year ago (Y to Y)

Sector	Nonfarm Business		Business		Manufacturing		Durable Manufacturing		Nondurable Manufacturing	
	Q to Q	Y to Y	Q to Q	Y to Y	Q to Q	Y to Y	Q to Q	Y to Y	Q to Q	Y to Y
Productivity	0.9	0.0	0.7	0.3	2.7	2.2	4.5	2.9	0.7	1.3
Output	2.6	1.8	2.3	1.9	0.1	2.1	1.5	2.9	-1.5	1.1
Hours	1.7	1.8	1.6	1.5	-2.6	-0.1	-2.9	0.0	-2.1	-0.1
Hourly compensation	2.3	1.6	2.4	1.9	4.2	1.7	4.6	1.8	3.5	1.7
Real hourly compensation	2.3	0.1	2.4	0.4	4.2	0.3	4.6	0.3	3.5	0.2
Unit labor costs	1.4	1.6	1.7	1.6	1.4	-0.4	0.1	-1.1	2.8	0.4

Table B. Revised and previous measures: first quarter 2013

Sector	Nonfarm Business		Business		Manufacturing		Durable Manufacturing		Nondurable Manufacturing	
	Revised	Previous	Revised	Previous	Revised	Previous	Revised	Previous	Revised	Previous
Percent change, annual rate, first quarter 2013										
Productivity	-1.7	0.5	0.4	2.0	3.9	3.5	3.8	3.5	4.7	3.9
Output	-0.3	2.1	1.4	3.1	5.6	5.3	6.5	6.4	4.5	4.2
Hours	1.5	1.6	1.0	1.1	1.6	1.8	2.6	2.8	-0.2	0.2
Hourly compensation	-5.9	-3.8	-5.3	-3.1	0.6	-6.9	0.9	-8.1	-0.4	-4.9
Real hourly compensation	-7.3	-5.2	-6.7	-4.6	-0.9	-8.3	-0.6	-9.4	-1.8	-6.4
Unit labor costs	-4.2	-4.3	-5.6	-5.0	-3.2	-10.0	-2.8	-11.2	-4.8	-8.5

Table C. Revised and previous annual average measures: 2010-2012

Sector	Nonfarm Business						Manufacturing					
	2012		2011		2010		2012		2011		2010	
	Revised	Previous	Revised	Previous	Revised	Previous	Revised	Previous	Revised	Previous	Revised	Previous
Percent change												
Productivity	1.5	0.7	0.5	0.6	3.3	3.1	1.8	1.9	1.0	1.4	6.3	6.5
Output	3.7	2.9	2.5	2.6	3.2	3.1	4.1	4.2	3.1	3.5	6.3	6.4
Hours	2.2	2.2	2.0	2.0	-0.1	-0.1	2.3	2.3	2.1	2.1	-0.1	-0.1
Hourly compensation	2.6	1.9	2.5	2.6	2.1	2.1	1.9	3.2	1.3	2.8	2.4	1.2
Real hourly compensation	0.5	-0.2	-0.7	-0.6	0.4	0.4	-0.2	1.1	-1.8	-0.4	0.7	-0.5
Unit labor costs	1.2	1.2	2.0	2.0	-1.2	-1.0	0.1	1.3	0.4	1.4	-3.7	-5.0

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 earlier years. 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.

The CES measures jobs, counting a person who is employed by two or more establishments at each place of employment. In contrast, the CPS features measures of employment that count each person only once and classify each person according to his or her primary job; hours worked at all jobs by that person accrue to his or her primary job. However, the CPS also collects more detailed information on employment and hours worked at primary jobs and all other jobs, separately. The BLS productivity measures use the more detailed information on employment and hours to assign all hours worked to the correct industrial sector and avoid duplicating hours data from the CES.

Output: Business sector output is a chain-type, current-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 75 percent of the value of GDP in 2012. Nonfarm business, which excludes farming, accounted for about 74 percent of GDP in 2012.

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 BLS. 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 a chain-type, current-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 49 percent of the value of GDP in 2012.

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.

Labor Compensation: The measure includes accrued wages and salaries, supplements, employer contributions to employee benefit plans, and taxes. Estimates of labor compensation by major sector, required for measures of hourly compensation and unit labor costs, are based primarily on employee compensation data from the NIPA, prepared by the BEA. The compensation of employees in general government, nonprofit institutions and private households are subtracted from compensation of domestic employees to derive employee compensation for the business sector. The labor compensation of proprietors cannot be explicitly identified and must be estimated. This is done by assuming that proprietors have the same hourly compensation as employees in the same sector. The quarterly labor productivity and cost measures do not contain estimates of compensation for unpaid family workers.

Unit Labor Costs: The measures of unit labor costs in this release describe the relationship between compensation per hour and productivity, or real output per hour, and can be used as an indicator of inflationary pressure on producers. Increases in hourly compensation increase unit labor costs; labor productivity increases offset compensation increases and lower unit labor costs.

Presentation of the data: The quarterly data in this release are presented in three ways: as percent changes from the previous quarter presented at a compound annual rate, as percent changes from the corresponding quarter of the previous year, and as index number series where 2009=100. Annual data are presented both as index number series and percent changes from the previous year.

The index numbers and rates of change reported in the productivity and costs news release are rounded to one decimal place. All percent changes in this release and on the BLS web site are calculated using index numbers to three decimal places. These index numbers are available at the BLS web site, www.bls.gov/data/home.htm, or by contacting the BLS Division of Major Sector Productivity. (Telephone 202-691-5606 or email DPRWEB@BLS.GOV)

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 nonlabor payments (3)	Implicit price deflator (4)
Percent change from previous quarter at annual rate(5)								
2013 II	0.7	2.3	1.6	2.4	2.4	1.7	-0.9	0.5
I	0.4 r	1.4 r	1.0 r	-5.3 r	-6.7 r	-5.6 r	12.4 r	1.8 r
2012 ANNUAL	1.4 r	3.6 r	2.2	2.6 r	0.5 r	1.2	2.6 r	1.8 r
2012 IV	-1.9 r	0.2 r	2.1	10.2	7.8	12.2 r	-11.5 r	1.2 r
III	2.1 r	3.6 r	1.4	0.8 r	-1.2 r	-1.3 r	7.4 r	2.5 r
II	1.3 r	1.6 r	0.3	1.9 r	0.9 r	0.6 r	3.9 r	2.0 r
I	1.3 r	4.9 r	3.5	8.8 r	6.3 r	7.4 r	-5.4 r	1.6 r
2011 ANNUAL	0.4 r	2.4	2.0	2.4 r	-0.7 r	2.0 r	2.3	2.1 r
2011 IV	3.3 r	6.4 r	2.9 r	-4.5 r	-5.9 r	-7.6 r	12.4 r	0.7 r
III	-0.1 r	1.8 r	1.9	2.6 r	-0.3 r	2.8 r	3.0 r	2.9 r
II	1.6 r	4.1 r	2.4	-0.7 r	-5.1 r	-2.3 r	9.8 r	2.7 r
I	-3.3 r	-1.9 r	1.4	6.3 r	1.8 r	10.0 r	-8.4 r	1.7 r
Percent change from corresponding quarter of previous year								
2013 II	0.3	1.9	1.5	1.9	0.4	1.6	1.4	1.5
I	0.5 r	1.7 r	1.2	1.8 r	0.1 r	1.3 r	2.7 r	1.9 r
2012 ANNUAL	1.4 r	3.6 r	2.2	2.6 r	0.5 r	1.2	2.6 r	1.8 r
2012 IV	0.7 r	2.6 r	1.8	5.3 r	3.4 r	4.6 r	-1.7 r	1.8 r
III	2.0 r	4.1 r	2.0	1.6 r	-0.1 r	-0.4 r	4.4 r	1.7 r
II	1.4 r	3.6 r	2.2	2.1 r	0.2 r	0.6 r	3.3 r	1.8 r
I	1.5 r	4.3 r	2.7	1.4 r	-1.4 r	-0.1 r	4.7 r	2.0
2011 ANNUAL	0.4 r	2.4	2.0	2.4 r	-0.7 r	2.0 r	2.3	2.1 r
2011 IV	0.3 r	2.5 r	2.2	0.8 r	-2.4 r	0.5 r	3.9 r	2.0 r
III	-0.1	1.9	1.9	2.5 r	-1.2 r	2.5 r	2.3 r	2.4 r
II	0.6 r	2.5 r	1.9	2.5 r	-0.9 r	1.8 r	2.6	2.2 r
I	0.6 r	2.7 r	2.1	3.8 r	1.7 r	3.2 r	0.1 r	1.9
Indexes 2009=100								
2013 II	105.4	111.1	105.4	108.5	100.3	103.0	111.3	106.5
I	105.2 r	110.5 r	105.0 r	107.9 r	99.7 r	102.6 r	111.5 r	106.3 r
2012 ANNUAL	105.1 r	109.4 r	104.1 r	107.2 r	100.1 r	102.0 r	109.6 r	105.2 r
2012 IV	105.1 r	110.1 r	104.7 r	109.4 r	101.4 r	104.1 r	108.3 r	105.8 r
III	105.6 r	110.0 r	104.2 r	106.7 r	99.5 r	101.1 r	111.7 r	105.5 r
II	105.0 r	109.1 r	103.8 r	106.5 r	99.9 r	101.4 r	109.7 r	104.9 r
I	104.7 r	108.6 r	103.7 r	106.0 r	99.6 r	101.3 r	108.6 r	104.4 r
2011 ANNUAL	103.6 r	105.6 r	101.9 r	104.4 r	99.6 r	100.8 r	106.8 r	103.3 r
2011 IV	104.4 r	107.3 r	102.9 r	103.8 r	98.1 r	99.5 r	110.2 r	104.0 r
III	103.5 r	105.7 r	102.1 r	105.0 r	99.6 r	101.5 r	107.0 r	103.8 r
II	103.5 r	105.2 r	101.6 r	104.4 r	99.7 r	100.8 r	106.2 r	103.0 r
I	103.1 r	104.2 r	101.0 r	104.5 r	101.0 r	101.4 r	103.7 r	102.4 r

See footnotes following Table 5.
r=revised

August 16, 2013
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 nonlabor payments (3)	Implicit price deflator (4)
Percent change from previous quarter at annual rate(5)								
2013 II	0.9	2.6	1.7	2.3	2.3	1.4	0.4	1.0
I	-1.7 r	-0.3 r	1.5 r	-5.9 r	-7.3 r	-4.2 r	7.8 r	0.7 r
2012 ANNUAL	1.5 r	3.7 r	2.2	2.6 r	0.5 r	1.2	2.7 r	1.8 r
2012 IV	-1.7	0.7	2.4	9.9	7.5	11.8	-12.0 r	0.8 r
III	2.5 r	4.1 r	1.6	0.7 r	-1.3 r	-1.8 r	7.7 r	2.2 r
II	1.2 r	1.6 r	0.4	1.9 r	0.9 r	0.7 r	4.0 r	2.1 r
I	1.5 r	5.0 r	3.4	9.0 r	6.5 r	7.4 r	-5.5 r	1.6 r
2011 ANNUAL	0.5 r	2.5 r	2.0	2.5 r	-0.7 r	2.0	1.4 r	1.7 r
2011 IV	2.9 r	5.9 r	2.9	-4.6 r	-5.9 r	-7.3 r	13.3 r	1.1 r
III	0.0 r	1.7 r	1.7	3.0 r	0.0 r	3.0 r	2.3 r	2.7 r
II	1.9 r	4.7 r	2.8	-1.1 r	-5.4 r	-2.9 r	10.1 r	2.4 r
I	-3.2 r	-2.1 r	1.2 r	6.6 r	2.1 r	10.2 r	-10.3 r	0.9 r
Percent change from corresponding quarter of previous year								
2013 II	0.0	1.8	1.8	1.6	0.1	1.6	0.6	1.2
I	0.0 r	1.5 r	1.5	1.5 r	-0.2 r	1.4 r	1.5	1.5 r
2012 ANNUAL	1.5 r	3.7 r	2.2	2.6 r	0.5 r	1.2	2.7 r	1.8 r
2012 IV	0.9 r	2.8 r	1.9	5.3 r	3.3 r	4.4 r	-1.8 r	1.7 r
III	2.0 r	4.1 r	2.1	1.6 r	0.0	-0.4 r	4.6 r	1.8 r
II	1.4 r	3.5 r	2.1	2.2 r	0.3 r	0.8 r	3.3 r	1.9 r
I	1.6 r	4.3 r	2.7	1.5 r	-1.3 r	-0.1 r	4.8	1.9 r
2011 ANNUAL	0.5 r	2.5 r	2.0	2.5 r	-0.7 r	2.0	1.4 r	1.7 r
2011 IV	0.4	2.5	2.1	0.9 r	-2.4 r	0.5 r	3.4 r	1.8 r
III	0.2	2.1 r	1.9	2.6 r	-1.1 r	2.4 r	1.4 r	2.0 r
II	0.7 r	2.7 r	1.9 r	2.4 r	-0.9 r	1.7 r	1.7 r	1.7 r
I	0.6 r	2.7 r	2.1	4.0 r	1.8 r	3.3 r	-0.9 r	1.5 r
Indexes 2009=100								
2013 II	105.1	111.1	105.7	108.4	100.2	103.2	109.1	105.6
I	104.9 r	110.4 r	105.2 r	107.8 r	99.6 r	102.8 r	109.0 r	105.4 r
2012 ANNUAL	105.3 r	109.7 r	104.1 r	107.4 r	100.3 r	102.0 r	108.3 r	104.6 r
2012 IV	105.4 r	110.5 r	104.8 r	109.5 r	101.5 r	103.9 r	107.0 r	105.2 r
III	105.8 r	110.3 r	104.2 r	106.9 r	99.7 r	101.1 r	110.4 r	105.0 r
II	105.2 r	109.2 r	103.8 r	106.8 r	100.1 r	101.5 r	108.4 r	104.4 r
I	104.8 r	108.7 r	103.7 r	106.3 r	99.8 r	101.3 r	107.4 r	103.8 r
2011 ANNUAL	103.8 r	105.7 r	101.9 r	104.6 r	99.7 r	100.8 r	105.5 r	102.7 r
2011 IV	104.4 r	107.4 r	102.8 r	104.0 r	98.3 r	99.6 r	108.9 r	103.4 r
III	103.7 r	105.9 r	102.1 r	105.2 r	99.8 r	101.5 r	105.5 r	103.2 r
II	103.7 r	105.4 r	101.7 r	104.4 r	99.8 r	100.7 r	105.0 r	102.5 r
I	103.2 r	104.2 r	101.0 r	104.7 r	101.2 r	101.5 r	102.5 r	101.9 r

See footnotes following Table 5.
r=revised

August 16, 2013
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

Percent change from previous quarter at annual rate(5)						
2013 II	2.7	0.1	-2.6	4.2	4.2	1.4
I	3.9 r	5.6 r	1.6 r	0.6 r	-0.9 r	-3.2 r
2012 ANNUAL	1.8 r	4.1 r	2.3	1.9 r	-0.2 r	0.1 r
2012 IV	2.3 r	2.7	0.4	4.1 r	1.9 r	1.8 r
III	-0.3	0.1	0.4	-1.8 r	-3.8 r	-1.5 r
II	1.0	2.1	1.1	0.8 r	-0.1 r	-0.2 r
I	4.3	8.4	3.9	10.4 r	7.9 r	5.9 r
2011 ANNUAL	1.0 r	3.1 r	2.1	1.3 r	-1.8 r	0.4 r
2011 IV	0.2 r	5.2 r	4.9	-4.8 r	-6.1 r	-5.0 r
III	5.0 r	4.7 r	-0.3	2.2 r	-0.7 r	-2.7 r
II	-3.5 r	-0.7 r	2.9	-2.3 r	-6.6 r	1.3 r
I	0.7 r	3.0 r	2.4	1.2 r	-3.0 r	0.6 r

Percent change from corresponding quarter of previous year						
2013 II	2.2	2.1	-0.1	1.7	0.3	-0.4
I	1.7 r	2.6 r	0.9	0.9 r	-0.8 r	-0.8 r
2012 ANNUAL	1.8 r	4.1 r	2.3	1.9 r	-0.2 r	0.1 r
2012 IV	1.8	3.3	1.4	3.3 r	1.4 r	1.5 r
III	1.3	3.9	2.6	1.0 r	-0.7 r	-0.3 r
II	2.6 r	5.1 r	2.4	2.0 r	0.1 r	-0.6 r
I	1.4 r	4.3 r	2.8	1.2 r	-1.6 r	-0.2 r
2011 ANNUAL	1.0 r	3.1 r	2.1	1.3 r	-1.8 r	0.4 r
2011 IV	0.6 r	3.0 r	2.5	-0.9 r	-4.1 r	-1.5 r
III	0.8 r	2.1 r	1.2	1.4 r	-2.3 r	0.6 r
II	-0.2 r	2.1 r	2.3	1.3 r	-2.0 r	1.4 r
I	2.6 r	5.1 r	2.4	3.6 r	1.5 r	1.0 r

Indexes 2009=100						
2013 II	111.6	116.4	104.3	107.6	99.4	96.4
I	110.8 r	116.4 r	105.0 r	106.5 r	98.4 r	96.1 r
2012 ANNUAL	109.2 r	114.1 r	104.4 r	105.7 r	98.7 r	96.8 r
2012 IV	109.7 r	114.8 r	104.6 r	106.3 r	98.6 r	96.9 r
III	109.1 r	114.0 r	104.5 r	105.3 r	98.2 r	96.5 r
II	109.2 r	114.0 r	104.4 r	105.7 r	99.1 r	96.8 r
I	108.9 r	113.4 r	104.1 r	105.5 r	99.1 r	96.9 r
2011 ANNUAL	107.3 r	109.5 r	102.1 r	103.8 r	98.9 r	96.7 r
2011 IV	107.8 r	111.2 r	103.1 r	102.9 r	97.3 r	95.5 r
III	107.7 r	109.8 r	101.9 r	104.2 r	98.8 r	96.7 r
II	106.4 r	108.5 r	102.0 r	103.6 r	99.0 r	97.4 r
I	107.4 r	108.7 r	101.2 r	104.2 r	100.7 r	97.1 r

See footnotes following Table 5.
r=revised

August 16, 2013
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
Percent change from previous quarter at annual rate(5)						
2013 II	4.5	1.5	-2.9	4.6	4.6	0.1
I	3.8 r	6.5 r	2.6 r	0.9 r	-0.6 r	-2.8 r
2012 ANNUAL	4.0 r	7.0 r	2.9	1.5 r	-0.5 r	-2.3 r
2012 IV	3.2 r	3.8	0.5	4.1 r	1.9 r	0.9 r
III	0.3	0.0	-0.3	-2.4 r	-4.4 r	-2.7 r
II	3.7	5.0	1.3	-0.6 r	-1.5 r	-4.1 r
I	8.5	13.0	4.2	11.6 r	9.1 r	2.9 r
2011 ANNUAL	2.4 r	6.3 r	3.8	0.9 r	-2.2 r	-1.5 r
2011 IV	1.6 r	9.5 r	7.8	-6.3 r	-7.6 r	-7.8 r
III	8.1 r	7.5 r	-0.6	3.5 r	0.5 r	-4.3 r
II	-4.9 r	-0.2 r	5.0	-4.2 r	-8.4 r	0.8 r
I	2.0 r	6.9 r	4.9	0.7 r	-3.6 r	-1.3 r
Percent change from corresponding quarter of previous year						
2013 II	2.9	2.9	0.0	1.8	0.3	-1.1
I	2.8 r	3.8	1.0	0.5 r	-1.2 r	-2.2 r
2012 ANNUAL	4.0 r	7.0 r	2.9	1.5 r	-0.5 r	-2.3 r
2012 IV	3.9	5.3 r	1.4	3.0 r	1.1 r	-0.8 r
III	3.5	6.8	3.2	0.4 r	-1.3 r	-3.0 r
II	5.4 r	8.7 r	3.1	1.8 r	-0.1 r	-3.4 r
I	3.2 r	7.3 r	4.1	0.9 r	-1.9 r	-2.2 r
2011 ANNUAL	2.4 r	6.3 r	3.8	0.9 r	-2.2 r	-1.5 r
2011 IV	1.6 r	5.9 r	4.2	-1.7 r	-4.8 r	-3.2 r
III	1.8 r	4.5 r	2.6	1.2 r	-2.5 r	-0.6 r
II	0.5 r	5.1 r	4.5	0.1 r	-3.2 r	-0.5 r
I	5.7 r	9.9 r	3.9	4.1 r	1.9 r	-1.6 r
Indexes 2009=100						
2013 II	120.8	128.9	106.7	106.8	98.7	88.5
I	119.5 r	128.4 r	107.5 r	105.7 r	97.6 r	88.5 r
2012 ANNUAL	117.3 r	125.1 r	106.7 r	105.0 r	98.1 r	89.5 r
2012 IV	118.3 r	126.4 r	106.8 r	105.4 r	97.8 r	89.1 r
III	117.4 r	125.2 r	106.7 r	104.3 r	97.3 r	88.9 r
II	117.3 r	125.2 r	106.7 r	105.0 r	98.4 r	89.5 r
I	116.3 r	123.7 r	106.4 r	105.1 r	98.8 r	90.4 r
2011 ANNUAL	112.8 r	116.9 r	103.6 r	103.4 r	98.6 r	91.6 r
2011 IV	113.9 r	120.0 r	105.3 r	102.3 r	96.7 r	89.8 r
III	113.5 r	117.3 r	103.4 r	104.0 r	98.6 r	91.6 r
II	111.3 r	115.2 r	103.5 r	103.1 r	98.5 r	92.6 r
I	112.7 r	115.2 r	102.3 r	104.2 r	100.7 r	92.5 r

See footnotes following Table 5.
r=revised

August 16, 2013
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

Percent change from previous quarter at annual rate(5)						
2013 II	0.7	-1.5	-2.1	3.5	3.5	2.8
I	4.7 r	4.5 r	-0.2 r	-0.4 r	-1.8 r	-4.8 r
2012 ANNUAL	-0.1	1.1	1.3	2.4 r	0.3 r	2.5 r
2012 IV	1.4	1.5	0.2	4.1 r	1.8 r	2.7 r
III	-1.4	0.2	1.6	-0.4 r	-2.4 r	1.0 r
II	-1.9	-1.1	0.8	3.6 r	2.6 r	5.5 r
I	0.0	3.4	3.4	8.1 r	5.6 r	8.1 r
2011 ANNUAL	1.2 r	0.5	-0.6	1.7 r	-1.4 r	0.6 r
2011 IV	0.5	0.8	0.3	-2.4 r	-3.8	-2.9 r
III	2.0	2.2	0.2	-0.1 r	-2.9 r	-2.1 r
II	-0.4	-0.8	-0.4	0.9 r	-3.6 r	1.3 r
I	1.4 r	-0.2 r	-1.6	1.8 r	-2.5 r	0.4 r

Percent change from corresponding quarter of previous year						
2013 II	1.3	1.1	-0.1	1.7	0.2	0.4
I	0.7 r	1.3 r	0.6 r	1.7 r	0.0 r	1.0 r
2012 ANNUAL	-0.1	1.1	1.3	2.4 r	0.3 r	2.5 r
2012 IV	-0.5	1.0	1.5	3.8 r	1.8 r	4.3 r
III	-0.7	0.8	1.5	2.1 r	0.4 r	2.8 r
II	0.2	1.3	1.2	2.2 r	0.3 r	2.0 r
I	0.6 r	1.4	0.9	1.5 r	-1.2 r	1.0 r
2011 ANNUAL	1.2 r	0.5	-0.6	1.7 r	-1.4 r	0.6 r
2011 IV	0.9 r	0.5	-0.4	0.0 r	-3.2 r	-0.8 r
III	1.3 r	0.2	-1.0	1.5 r	-2.2 r	0.3 r
II	1.1	-0.1 r	-1.2	3.0 r	-0.4 r	1.8 r
I	1.4 r	1.4	0.1	2.5 r	0.3 r	1.1 r

Indexes 2009=100						
2013 II	105.5	106.0	100.5	108.4	100.2	102.8
I	105.3 r	106.4 r	101.0 r	107.5 r	99.3 r	102.1 r
2012 ANNUAL	104.2 r	105.0 r	100.8 r	106.6 r	99.6 r	102.3 r
2012 IV	104.1 r	105.2 r	101.1 r	107.6 r	99.8 r	103.3 r
III	103.8 r	104.8 r	101.0 r	106.5 r	99.3 r	102.6 r
II	104.1 r	104.8 r	100.6 r	106.6 r	99.9 r	102.4 r
I	104.6 r	105.1 r	100.4 r	105.7 r	99.3 r	101.0 r
2011 ANNUAL	104.3 r	103.8 r	99.6 r	104.1 r	99.3 r	99.8 r
2011 IV	104.6 r	104.2 r	99.6 r	103.7 r	98.0 r	99.1 r
III	104.5 r	104.0 r	99.5 r	104.3 r	98.9 r	99.8 r
II	103.9 r	103.4 r	99.5 r	104.3 r	99.6 r	100.4 r
I	104.0 r	103.6 r	99.6 r	104.1 r	100.6 r	100.0 r

See footnotes following Table 5.
r=revised

August 16, 2013
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. Hours and compensation 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 -1.7 and 1.5 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 2013.

Table Footnotes

- (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 1978-2012 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 is calculated using index numbers to three decimal places. Indexes published in the news release are rounded to one decimal place for convenience. Annual changes: Percent change is calculated using annual indexes to three decimal places.

Appendix table 1.

Business sector: Productivity, hourly compensation, unit labor costs, and prices.

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 nonlabor payments (3)	Implicit price deflator (4)
Indexes 2009=100								
2012	105.1 r	109.4 r	104.1 r	107.2 r	100.1 r	102.0 r	109.6 r	105.2 r
2011	103.6 r	105.6 r	101.9 r	104.4 r	99.6 r	100.8 r	106.8 r	103.3 r
2010	103.3 r	103.1 r	99.9 r	102.0 r	100.3 r	98.8 r	104.4 r	101.1 r
2009	100.0 r	100.0 r	100.0 r	100.0 r	100.0 r	100.0 r	100.0 r	100.0 r
2008	96.8 r	104.3 r	107.7 r	99.0 r	98.6 r	102.2 r	96.3 r	99.7 r
2007	95.8 r	105.3 r	109.9 r	96.4 r	99.7 r	100.6 r	95.5 r	98.5 r
2006	94.6 r	103.3 r	109.2 r	92.3 r	98.2 r	97.5 r	94.0 r	96.1 r
2005	93.9 r	100.4 r	106.9 r	88.8 r	97.6 r	94.6 r	91.5 r	93.3 r
2004	92.0 r	96.7 r	105.2 r	85.7 r	97.3 r	93.2 r	86.7 r	90.5 r
2003	89.1 r	92.5 r	103.9 r	81.9 r	95.5 r	91.9 r	83.6 r	88.4 r
2002	85.0 r	88.9 r	104.5 r	78.9 r	94.1 r	92.8 r	81.4 r	88.0 r
2001	81.5 r	87.3 r	107.1 r	77.2 r	93.5 r	94.7 r	77.3 r	87.4 r
2000	79.4 r	86.8 r	109.4 r	73.8 r	91.9 r	93.0 r	75.9 r	85.9 r
1999	76.7 r	83.1 r	108.2 r	68.8 r	88.5 r	89.6 r	76.9 r	84.3 r
1998	74.0 r	78.5 r	106.1 r	65.9 r	86.6 r	89.0 r	76.5 r	83.8 r
1997	71.8 r	74.7 r	104.0 r	62.2 r	82.9 r	86.6 r	78.8 r	83.3 r
1996	70.5 r	70.9 r	100.7 r	60.0 r	81.7 r	85.2 r	78.0 r	82.2 r
1995	68.4 r	67.8 r	99.1 r	57.6 r	80.5 r	84.2 r	76.3 r	80.9 r
1994	68.2 r	65.7 r	96.4 r	56.5 r	80.9 r	82.9 r	74.8 r	79.5 r
1993	67.6 r	62.7 r	92.7 r	56.0 r	81.8 r	82.8 r	71.6 r	78.1 r
1992	67.5 r	60.9 r	90.2 r	55.1 r	82.6 r	81.6 r	69.0 r	76.3 r
1991	64.6 r	58.5 r	90.4 r	52.1 r	79.9 r	80.5 r	67.7 r	75.1 r
1990	63.5 r	58.8 r	92.6 r	49.6 r	79.0 r	78.2 r	65.9 r	73.1 r
1989	62.1 r	57.9 r	93.1 r	46.6 r	77.9 r	75.0 r	64.7 r	70.7 r
1988	61.4 r	55.7 r	90.8 r	45.2 r	78.8 r	73.7 r	60.7 r	68.2 r
1987	60.5 r	53.4 r	88.3 r	43.0 r	77.6 r	71.0 r	59.4 r	66.1 r
1986	60.2 r	51.6 r	85.8 r	41.4 r	77.3 r	68.8 r	59.4 r	64.9 r
1985	58.5 r	49.8 r	85.1 r	39.2 r	74.5 r	67.0 r	59.8 r	64.0 r
1984	57.2 r	47.6 r	83.2 r	37.3 r	73.3 r	65.2 r	58.2 r	62.2 r
1983	55.7 r	43.7 r	78.6 r	35.7 r	73.1 r	64.1 r	55.4 r	60.5 r
1982	53.7 r	41.5 r	77.2 r	34.2 r	72.9 r	63.6 r	51.3 r	58.5 r
1981	54.1 r	42.7 r	79.0 r	31.8 r	72.0 r	58.8 r	50.3 r	55.3 r
1980	52.9 r	41.5 r	78.5 r	29.1 r	72.1 r	54.9 r	44.6 r	50.6 r
1979	53.0 r	41.9 r	79.1 r	26.3 r	72.3 r	49.6 r	42.1 r	46.5 r
1978	52.9 r	40.5 r	76.6 r	23.9 r	72.2 r	45.2 r	39.5 r	42.9 r
1977	52.3 r	38.1 r	72.8 r	22.1 r	71.3 r	42.2 r	37.1 r	40.1 r
1976	51.4 r	36.0 r	70.1 r	20.4 r	70.3 r	39.8 r	35.1 r	37.8 r
1975	49.8 r	33.8 r	67.9 r	18.9 r	68.9 r	38.1 r	33.0 r	35.9 r
1974	48.1 r	34.1 r	71.0 r	17.1 r	67.9 r	35.6 r	28.8 r	32.7 r
1973	48.9 r	34.6 r	70.8 r	15.6 r	68.9 r	32.0 r	26.8 r	29.8 r
1972	47.5 r	32.4 r	68.2 r	14.5 r	67.9 r	30.5 r	25.3 r	28.3 r
1971	46.0 r	30.4 r	66.2 r	13.6 r	65.9 r	29.7 r	24.2 r	27.4 r
1970	44.2 r	29.3 r	66.3 r	12.9 r	64.9 r	29.1 r	22.3 r	26.3 r
1969	43.3 r	29.3 r	67.7 r	12.0 r	63.8 r	27.6 r	21.8 r	25.2 r
1968	43.1 r	28.5 r	66.0 r	11.2 r	62.9 r	25.9 r	21.5 r	24.1 r
1967	41.7 r	27.1 r	65.0 r	10.4 r	60.8 r	24.9 r	20.8 r	23.2 r
1966	40.7 r	26.5 r	65.2 r	9.8 r	59.3 r	24.1 r	20.5 r	22.6 r
1965	39.1 r	24.8 r	63.5 r	9.2 r	57.1 r	23.5 r	20.0 r	22.0 r
1964	37.7 r	23.2 r	61.5 r	8.9 r	56.0 r	23.5 r	19.2 r	21.7 r
1963	36.5 r	21.8 r	59.7 r	8.5 r	54.6 r	23.4 r	18.8 r	21.5 r
1962	35.2 r	20.9 r	59.3 r	8.3 r	53.5 r	23.5 r	18.4 r	21.3 r
1961	33.6 r	19.6 r	58.3 r	7.9 r	51.7 r	23.5 r	17.8 r	21.1 r
1960	32.4 r	19.2 r	59.2 r	7.6 r	50.3 r	23.5 r	17.5 r	21.0 r
1959	31.9 r	18.8 r	59.1 r	7.3 r	49.1 r	22.9 r	17.7 r	20.7 r
1958	30.8 r	17.4 r	56.7 r	7.0 r	47.5 r	22.8 r	17.3 r	20.5 r
1957	29.9 r	17.8 r	59.4 r	6.7 r	46.8 r	22.5 r	17.0 r	20.2 r
1956	29.0 r	17.4 r	60.2 r	6.3 r	45.4 r	21.8 r	16.4 r	19.5 r
1955	28.9 r	17.1 r	59.3 r	5.9 r	43.2 r	20.5 r	16.7 r	18.9 r
1954	27.7 r	15.9 r	57.2 r	5.8 r	42.0 r	20.8 r	15.7 r	18.7 r
1953	27.1 r	16.0 r	59.2 r	5.6 r	41.0 r	20.6 r	15.8 r	18.6 r

Appendix table 1. cont.

Business sector: Productivity, hourly compensation, unit labor costs, and prices.

1952	26.1 r	15.3 r	58.4 r	5.3 r	38.8 r	20.1 r	16.1 r	18.4 r
1951	25.4 r	14.8 r	58.3 r	5.0 r	37.3 r	19.5 r	16.4 r	18.2 r
1950	24.6 r	13.9 r	56.5 r	4.5 r	36.7 r	18.4 r	14.9 r	16.9 r
1949	22.8 r	12.7 r	55.7 r	4.2 r	34.7 r	18.6 r	14.2 r	16.7 r
1948	22.3 r	12.8 r	57.6 r	4.2 r	33.8 r	18.7 r	14.4 r	16.9 r
1947	21.3 r	12.2 r	57.2 r	3.8 r	33.7 r	18.0 r	13.0 r	15.9 r

See footnotes following Table 5.
r=revised

August 16, 2013
Source: Bureau of Labor Statistics

Appendix table 2.

Nonfarm business sector: Productivity, hourly compensation, unit labor costs, and prices.

Year	Output per hour of all persons	Output	Hours of all persons	Compen- sation per hour (1)	Real compen- sation per hour (2)	Unit labor costs	Unit nonlabor payments (3)	Implicit price deflator (4)
Indexes 2009=100								
2012	105.3 r	109.7 r	104.1 r	107.4 r	100.3 r	102.0 r	108.3 r	104.6 r
2011	103.8 r	105.7 r	101.9 r	104.6 r	99.7 r	100.8 r	105.5 r	102.7 r
2010	103.3 r	103.2 r	99.9 r	102.1 r	100.4 r	98.8 r	104.0 r	101.0 r
2009	100.0 r	100.0 r	100.0 r	100.0 r	100.0 r	100.0 r	100.0 r	100.0 r
2008	96.9 r	104.5 r	107.8 r	98.9 r	98.5 r	102.0 r	95.8 r	99.4 r
2007	96.0 r	105.6 r	110.0 r	96.3 r	99.6 r	100.3 r	95.1 r	98.2 r
2006	94.6 r	103.4 r	109.3 r	92.3 r	98.2 r	97.5 r	93.9 r	96.0 r
2005	94.0 r	100.5 r	106.9 r	88.8 r	97.6 r	94.5 r	91.3 r	93.2 r
2004	92.1 r	96.8 r	105.2 r	85.7 r	97.3 r	93.0 r	86.0 r	90.1 r
2003	89.3 r	92.7 r	103.8 r	81.9 r	95.6 r	91.8 r	83.4 r	88.3 r
2002	85.4 r	89.1 r	104.4 r	79.0 r	94.2 r	92.5 r	81.5 r	87.9 r
2001	81.8 r	87.5 r	107.0 r	77.2 r	93.5 r	94.4 r	77.2 r	87.2 r
2000	79.7 r	86.9 r	109.1 r	74.0 r	92.1 r	92.9 r	75.9 r	85.8 r
1999	77.1 r	83.3 r	108.0 r	68.9 r	88.7 r	89.3 r	76.9 r	84.1 r
1998	74.5 r	78.7 r	105.7 r	66.1 r	86.9 r	88.7 r	76.2 r	83.5 r
1997	72.3 r	74.8 r	103.4 r	62.5 r	83.3 r	86.4 r	78.2 r	83.0 r
1996	71.2 r	71.1 r	99.9 r	60.4 r	82.2 r	84.8 r	77.0 r	81.6 r
1995	69.3 r	68.0 r	98.2 r	58.0 r	81.1 r	83.7 r	76.0 r	80.5 r
1994	68.8 r	65.7 r	95.5 r	56.9 r	81.4 r	82.6 r	74.1 r	79.1 r
1993	68.2 r	62.8 r	92.2 r	56.2 r	82.1 r	82.4 r	71.0 r	77.7 r
1992	68.1 r	60.9 r	89.5 r	55.5 r	83.1 r	81.5 r	68.0 r	75.9 r
1991	65.3 r	58.6 r	89.7 r	52.3 r	80.4 r	80.2 r	66.9 r	74.7 r
1990	64.1 r	58.9 r	91.9 r	49.9 r	79.3 r	77.8 r	64.9 r	72.4 r
1989	62.9 r	58.0 r	92.3 r	46.9 r	78.4 r	74.7 r	63.6 r	70.1 r
1988	62.3 r	56.0 r	89.8 r	45.6 r	79.5 r	73.2 r	59.8 r	67.6 r
1987	61.3 r	53.5 r	87.3 r	43.4 r	78.4 r	70.8 r	58.4 r	65.6 r
1986	61.0 r	51.7 r	84.8 r	41.8 r	78.0 r	68.6 r	58.5 r	64.4 r
1985	59.2 r	49.8 r	84.1 r	39.5 r	75.1 r	66.8 r	58.8 r	63.4 r
1984	58.2 r	47.7 r	82.0 r	37.7 r	74.1 r	64.7 r	56.8 r	61.4 r
1983	57.0 r	44.1 r	77.3 r	36.1 r	74.0 r	63.4 r	54.6 r	59.7 r
1982	54.6 r	41.4 r	75.8 r	34.6 r	73.7 r	63.3 r	50.2 r	57.8 r
1981	55.2 r	42.7 r	77.5 r	32.2 r	72.9 r	58.4 r	48.8 r	54.4 r
1980	54.3 r	41.8 r	76.9 r	29.4 r	72.8 r	54.1 r	43.5 r	49.7 r
1979	54.3 r	42.1 r	77.6 r	26.5 r	73.1 r	48.8 r	40.5 r	45.4 r
1978	54.5 r	40.8 r	74.9 r	24.2 r	73.1 r	44.5 r	38.2 r	41.8 r
1977	53.7 r	38.2 r	71.2 r	22.3 r	72.0 r	41.5 r	36.1 r	39.2 r
1976	52.9 r	36.2 r	68.5 r	20.6 r	70.9 r	39.0 r	34.0 r	36.9 r
1975	51.1 r	33.8 r	66.1 r	19.1 r	69.6 r	37.4 r	31.6 r	35.0 r
1974	49.7 r	34.4 r	69.1 r	17.3 r	68.7 r	34.8 r	27.2 r	31.6 r
1973	50.6 r	34.9 r	69.0 r	15.8 r	69.7 r	31.3 r	25.0 r	28.7 r
1972	49.1 r	32.5 r	66.3 r	14.7 r	68.8 r	29.9 r	24.5 r	27.7 r
1971	47.5 r	30.5 r	64.2 r	13.8 r	66.7 r	29.1 r	23.7 r	26.8 r
1970	45.7 r	29.4 r	64.3 r	13.0 r	65.6 r	28.5 r	21.9 r	25.7 r
1969	45.0 r	29.4 r	65.4 r	12.2 r	64.8 r	27.0 r	21.3 r	24.6 r
1968	44.9 r	28.5 r	63.5 r	11.4 r	64.0 r	25.3 r	21.1 r	23.6 r
1967	43.4 r	27.1 r	62.4 r	10.6 r	62.0 r	24.4 r	20.4 r	22.7 r
1966	42.6 r	26.6 r	62.4 r	10.0 r	60.4 r	23.5 r	20.0 r	22.0 r
1965	41.1 r	24.8 r	60.4 r	9.4 r	58.7 r	23.0 r	19.5 r	21.5 r
1964	39.9 r	23.2 r	58.1 r	9.1 r	57.7 r	22.9 r	18.9 r	21.2 r
1963	38.7 r	21.7 r	56.0 r	8.9 r	56.7 r	22.9 r	18.3 r	21.0 r
1962	37.4 r	20.8 r	55.4 r	8.6 r	55.5 r	22.9 r	17.9 r	20.8 r
1961	35.8 r	19.4 r	54.2 r	8.2 r	53.9 r	23.0 r	17.3 r	20.6 r
1960	34.7 r	19.0 r	54.8 r	8.0 r	52.7 r	23.0 r	17.0 r	20.5 r
1959	34.3 r	18.7 r	54.5 r	7.6 r	51.4 r	22.3 r	17.3 r	20.2 r
1958	33.1 r	17.3 r	52.1 r	7.4 r	49.8 r	22.2 r	16.7 r	19.9 r
1957	32.4 r	17.6 r	54.4 r	7.1 r	49.3 r	21.9 r	16.5 r	19.6 r
1956	31.5 r	17.2 r	54.7 r	6.7 r	48.1 r	21.2 r	16.0 r	19.0 r
1955	31.7 r	16.9 r	53.4 r	6.3 r	46.0 r	19.9 r	16.3 r	18.4 r
1954	30.4 r	15.6 r	51.3 r	6.1 r	44.3 r	20.0 r	15.3 r	18.1 r
1953	29.8 r	15.8 r	53.1 r	5.9 r	43.2 r	19.8 r	15.3 r	17.9 r

Appendix table 2. cont.

Nonfarm business sector: Productivity, hourly compensation, unit labor costs, and prices.

1952	29.1 r	15.1 r	51.8 r	5.6 r	41.2 r	19.2 r	15.3 r	17.6 r
1951	28.6 r	14.6 r	51.2 r	5.3 r	39.8 r	18.5 r	15.4 r	17.2 r
1950	27.9 r	13.6 r	48.9 r	4.9 r	39.5 r	17.5 r	14.3 r	16.1 r
1949	26.1 r	12.4 r	47.4 r	4.6 r	37.8 r	17.6 r	13.7 r	16.0 r
1948	25.3 r	12.5 r	49.3 r	4.5 r	36.3 r	17.6 r	13.3 r	15.8 r
1947	24.7 r	12.0 r	48.5 r	4.1 r	36.1 r	16.6 r	12.3 r	14.8 r

See footnotes following Table 5.

r=revised

August 16, 2013

Source: Bureau of Labor Statistics

Appendix table 3.

Manufacturing sector: Productivity, hourly compensation, and unit labor costs.

Year	Output per hour of all persons	Output	Hours of all persons	Compen- sation per hour (1)	Real compen- sation per hour (2)	Unit labor costs
Indexes 2009=100						
2012	109.2 r	114.1 r	104.4 r	105.7 r	98.7 r	96.8 r
2011	107.3 r	109.5 r	102.1 r	103.8 r	98.9 r	96.7 r
2010	106.3 r	106.3 r	99.9 r	102.4 r	100.7 r	96.3 r
2009	100.0 r	100.0 r	100.0 r	100.0 r	100.0 r	100.0 r
2008	99.9 r	114.8 r	114.9 r	96.7 r	96.3 r	96.7 r
2007	100.5 r	120.3 r	119.7 r	94.1 r	97.4 r	93.6 r
2006	96.8 r	117.8 r	121.7 r	90.6 r	96.3 r	93.6 r
2005	95.9 r	115.9 r	120.8 r	88.4 r	97.1 r	92.1 r
2004	91.5 r	111.9 r	122.2 r	85.2 r	96.7 r	93.1 r
2003	89.5 r	109.9 r	122.9 r	82.2 r	95.8 r	91.8 r
2002	84.2 r	108.8 r	129.2 r	78.0 r	93.0 r	92.6 r
2001	78.6 r	109.2 r	139.0 r	75.5 r	91.5 r	96.1 r
2000	77.1 r	114.7 r	148.7 r	73.3 r	91.3 r	95.0 r
1999	73.9 r	111.3 r	150.6 r	68.2 r	87.7 r	92.2 r
1998	70.5 r	106.9 r	151.7 r	65.2 r	85.7 r	92.5 r
1997	66.8 r	101.6 r	152.0 r	62.1 r	82.8 r	93.0 r
1996	63.4 r	94.7 r	149.4 r	60.0 r	81.7 r	94.8 r
1995	61.2 r	91.5 r	149.7 r	58.3 r	81.5 r	95.3 r
1994	58.5 r	87.0 r	148.7 r	57.2 r	81.9 r	97.8 r
1993	56.5 r	82.1 r	145.3 r	56.3 r	82.3 r	99.7 r
1992	55.1 r	79.0 r	143.3 r	55.6 r	83.3 r	100.9 r
1991	53.1 r	76.5 r	144.1 r	52.8 r	81.2 r	99.6 r
1990	51.7 r	77.8 r	150.4 r	50.1 r	79.7 r	96.8 r
1989	50.6 r	78.1 r	154.3 r	47.7 r	79.7 r	94.3 r
1988	50.1 r	76.8 r	153.3 r	46.2 r	80.4 r	92.1 r
1987	49.1 r	73.1 r	148.8 r	44.4 r	80.3 r	90.5 r

See footnotes following Table 5.
r=revisedAugust 16, 2013
Source: Bureau of Labor Statistics

Appendix table 4.

Durable manufacturing sector: Productivity, hourly compensation, and unit labor costs.

Year	Output per hour of all persons	Output	Hours of all persons	Compen- sation per hour (1)	Real compen- sation per hour (2)	Unit labor costs
Indexes 2009=100						
2012	117.3 r	125.1 r	106.7 r	105.0 r	98.1 r	89.5 r
2011	112.8 r	116.9 r	103.6 r	103.4 r	98.6 r	91.6 r
2010	110.2 r	110.0 r	99.8 r	102.5 r	100.8 r	93.0 r
2009	100.0 r	100.0 r	100.0 r	100.0 r	100.0 r	100.0 r
2008	106.1 r	125.5 r	118.2 r	96.1 r	95.8 r	90.6 r
2007	107.9 r	133.2 r	123.4 r	93.9 r	97.2 r	87.0 r
2006	102.5 r	129.1 r	125.9 r	90.3 r	96.0 r	88.1 r
2005	100.3 r	125.0 r	124.6 r	87.6 r	96.2 r	87.3 r
2004	95.3 r	118.9 r	124.8 r	84.8 r	96.3 r	89.0 r
2003	93.6 r	116.2 r	124.1 r	81.7 r	95.3 r	87.3 r
2002	87.3 r	114.4 r	131.1 r	77.7 r	92.7 r	89.0 r
2001	81.0 r	115.6 r	142.7 r	75.3 r	91.2 r	92.9 r
2000	80.2 r	123.4 r	153.9 r	73.6 r	91.7 r	91.8 r
1999	76.2 r	117.9 r	154.8 r	68.3 r	87.9 r	89.7 r
1998	70.7 r	110.0 r	155.5 r	65.1 r	85.5 r	92.0 r
1997	65.6 r	101.4 r	154.6 r	62.2 r	82.8 r	94.8 r
1996	61.3 r	92.2 r	150.3 r	60.4 r	82.2 r	98.5 r
1995	58.3 r	86.8 r	148.9 r	58.9 r	82.4 r	101.1 r
1994	54.8 r	80.4 r	146.7 r	58.0 r	83.1 r	105.9 r
1993	52.2 r	74.2 r	142.0 r	57.4 r	83.9 r	109.9 r
1992	50.2 r	70.4 r	140.0 r	56.7 r	85.0 r	112.9 r
1991	47.5 r	67.6 r	142.1 r	53.7 r	82.5 r	112.9 r
1990	46.7 r	70.2 r	150.4 r	50.8 r	80.8 r	108.8 r
1989	45.8 r	71.2 r	155.4 r	48.6 r	81.1 r	106.0 r
1988	45.4 r	70.4 r	154.9 r	47.0 r	81.9 r	103.5 r
1987	44.5 r	66.3 r	149.1 r	45.6 r	82.3 r	102.5 r

See footnotes following Table 5.
r=revisedAugust 16, 2013
Source: Bureau of Labor Statistics

Appendix table 5.

Nondurable manufacturing sector: Productivity, hourly compensation, and unit labor costs.

Year	Output per hour of all persons	Output	Hours of all persons	Compen- sation per hour (1)	Real compen- sation per hour (2)	Unit labor costs
Indexes 2009=100						
2012	104.2 r	105.0 r	100.8 r	106.6 r	99.6 r	102.3 r
2011	104.3 r	103.8 r	99.6 r	104.1 r	99.3 r	99.8 r
2010	103.1 r	103.3 r	100.2 r	102.3 r	100.7 r	99.3 r
2009	100.0 r	100.0 r	100.0 r	100.0 r	100.0 r	100.0 r
2008	97.6 r	106.9 r	109.5 r	97.1 r	96.7 r	99.5 r
2007	97.6 r	110.8 r	113.6 r	93.8 r	97.0 r	96.1 r
2006	95.5 r	109.7 r	114.9 r	90.4 r	96.2 r	94.7 r
2005	95.7 r	109.8 r	114.7 r	89.4 r	98.2 r	93.4 r
2004	91.3 r	107.7 r	118.0 r	85.6 r	97.2 r	93.8 r
2003	88.1 r	106.5 r	120.9 r	82.8 r	96.6 r	94.0 r
2002	84.0 r	106.0 r	126.1 r	78.2 r	93.3 r	93.1 r
2001	79.4 r	105.5 r	132.9 r	75.6 r	91.6 r	95.2 r
2000	77.5 r	108.9 r	140.5 r	72.1 r	89.8 r	93.0 r
1999	74.9 r	107.9 r	144.0 r	67.4 r	86.8 r	90.0 r
1998	74.0 r	107.8 r	145.5 r	65.0 r	85.4 r	87.8 r
1997	72.2 r	106.8 r	147.9 r	61.8 r	82.4 r	85.6 r
1996	69.4 r	102.5 r	147.9 r	59.3 r	80.7 r	85.5 r
1995	68.0 r	102.5 r	150.8 r	57.2 r	80.0 r	84.2 r
1994	66.3 r	100.6 r	151.8 r	55.9 r	80.0 r	84.4 r
1993	64.8 r	97.4 r	150.4 r	54.8 r	80.1 r	84.6 r
1992	64.0 r	95.2 r	148.7 r	53.9 r	80.7 r	84.2 r
1991	62.9 r	92.7 r	147.3 r	51.5 r	79.1 r	81.9 r
1990	61.4 r	92.4 r	150.4 r	48.8 r	77.7 r	79.5 r
1989	60.2 r	91.8 r	152.4 r	46.1 r	77.0 r	76.6 r
1988	59.7 r	90.0 r	150.7 r	44.4 r	77.4 r	74.4 r
1987	58.5 r	86.8 r	148.2 r	42.3 r	76.5 r	72.4 r

See footnotes following Table 5.
r=revisedAugust 16, 2013
Source: Bureau of Labor Statistics