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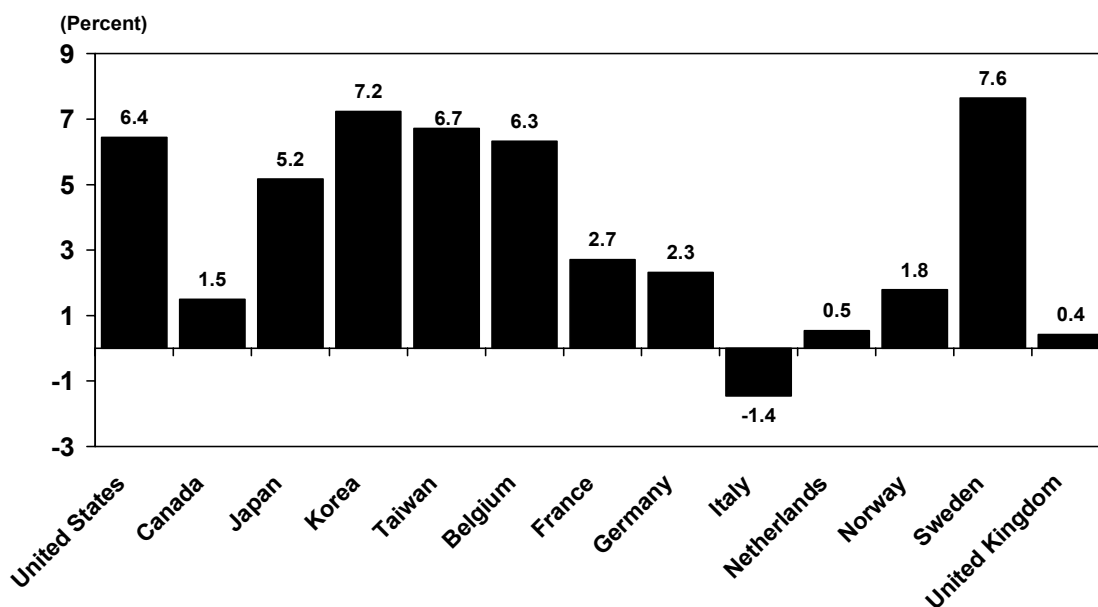
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INTERNATIONAL COMPARISONS OF MANUFACTURING PRODUCTIVITY AND UNIT LABOR COST TRENDS, 2002

In 2002, the increase in manufacturing productivity in the United States, at 6.4 percent, was the fourth largest among 13 economies compared by the U.S. Department of Labor's Bureau of Labor Statistics. (See chart 1.) Korea and Sweden recorded the highest productivity gains, while the Netherlands and the United Kingdom recorded the smallest gains. Of the 13 economies, Italy posted the only productivity decline in manufacturing.

The United States posted its highest annual growth rate in output per hour in 15 years. In 6 of the 13 economies, productivity increases in 2002 were close to or somewhat higher than the average growth rates of the second half of the 1990's, after slowing down in 2001. (Average annual growth rates for selected measures are found in tables A and B. The complete historical index series are shown in tables 1 through 15.)

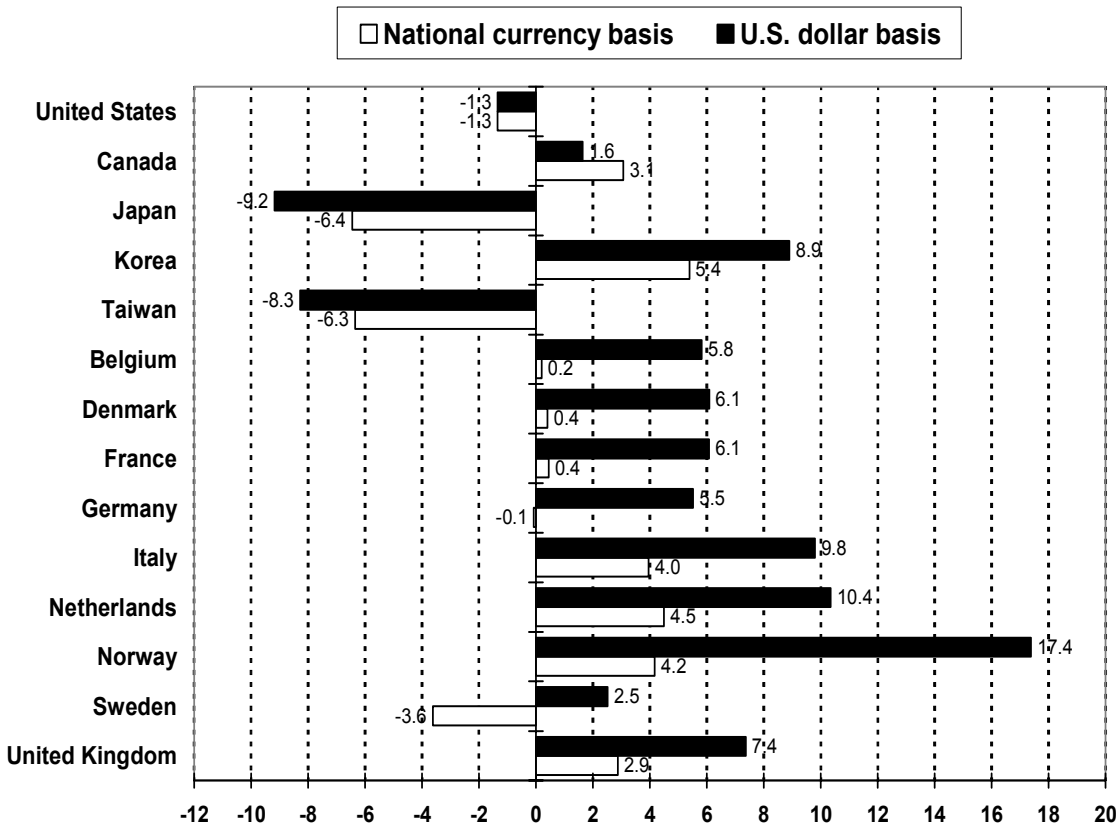
**Chart 1. Percent change in
manufacturing output per hour, 2002**



Unit labor costs in manufacturing, expressed in national currency units, which are available for 14 economies, increased in 9 in 2002. As in 2001, Korea recorded the largest increase in 2002 (5.4 percent), while Japan and Taiwan recorded the largest declines, 6.4 and 6.3 percent, respectively. Unit labor costs decreased as well in the United States (1.3 percent), Sweden (3.6 percent), and Germany (0.1 percent).

Fluctuations in exchange rates must be taken into account in order to assess international competitiveness in manufacturing. The depreciation of the U.S. dollar against most currencies in 2002 increased unit labor costs, expressed in U.S. dollars, in Korea and all nine European countries compared. (See chart 2 and table A.)

Chart 2. Percent change in manufacturing unit labor costs, 2001-2002



**Table A. Output per hour, hourly compensation, unit labor costs, and related measures
Manufacturing, 14 countries or areas, 2001-2002**

Percent change

| Country or area | Output per hour | | Hours | Employment | Average hours | Total compensation | Hourly compensation | Unit labor costs | | |
|-----------------|-----------------|-------|-------|------------|---------------|--------------------|---------------------|-------------------|--------------|-------------------|
| | Output | hour | | | | | | National currency | U.S. dollars | Exchange rate (1) |
| United States | 6.4 | - 1.1 | - 7.0 | - 6.8 | - 0.3 | - 2.4 | 5.0 | - 1.3 | - 1.3 | — |
| Canada | 1.5 | 2.6 | 1.1 | 0.7 | 0.4 | 5.7 | 4.6 | 3.1 | 1.6 | - 1.4 |
| Japan | 5.2 | - 1.5 | - 6.4 | - 6.4 | 0.0 | - 7.9 | - 1.6 | - 6.4 | - 9.2 | - 2.9 |
| Korea | 7.2 | 6.3 | - 0.8 | - 0.2 | - 0.7 | 12.0 | 13.0 | 5.4 | 8.9 | 3.3 |
| Taiwan | 6.7 | 6.6 | - 0.1 | - 1.8 | 1.7 | - 0.2 | - 0.1 | - 6.3 | - 8.3 | - 2.1 |
| Belgium | 6.3 | 0.5 | - 5.5 | - 3.1 | - 2.4 | 0.7 | 6.5 | 0.2 | 5.8 | 5.6 |
| Denmark | NA | 0.4 | NA | - 3.8 | NA | 0.8 | NA | 0.4 | 6.1 | 5.7 |
| France | 2.7 | 0.1 | - 2.6 | - 1.7 | - 0.9 | 0.5 | 3.2 | 0.4 | 6.1 | 5.6 |
| Germany | 2.3 | - 0.3 | - 2.6 | - 2.1 | - 0.6 | - 0.4 | 2.2 | - 0.1 | 5.5 | 5.6 |
| Italy | - 1.4 | - 0.7 | 0.7 | 1.0 | - 0.2 | 3.2 | 2.5 | 4.0 | 9.8 | 5.6 |
| Netherlands | 0.5 | - 1.6 | - 2.2 | - 2.2 | 0.0 | 2.8 | 5.1 | 4.5 | 10.4 | 5.6 |
| Norway | 1.8 | - 0.6 | - 2.4 | - 1.1 | - 1.3 | 3.5 | 6.0 | 4.2 | 17.4 | 12.7 |
| Sweden | 7.6 | 2.9 | - 4.4 | - 2.8 | - 1.6 | - 0.8 | 3.7 | - 3.6 | 2.5 | 6.4 |
| United Kingdom | 0.4 | - 4.0 | - 4.4 | - 5.1 | 0.7 | - 1.2 | 3.3 | 2.9 | 7.4 | 4.4 |

(1) Value of foreign currency relative to the U.S. dollar.

NA=Not Available

Table A summarizes changes in manufacturing productivity, unit labor costs, and related variables between 2001 and 2002. Output and unit labor cost data are presented for 14 economies. Comparable productivity data are not available for Denmark. (See technical notes.)

This release examines comparative trends in manufacturing output per hour, unit labor costs, and related measures in 2002, the most recent year for which comparative data are available, and for certain selected time periods. Annual indexes of these variables also are estimated for the time period 1950-2002. Because the value added output data for U.S. manufacturing industries are not available prior to 1977, the comparative measures of output, output per hour, and unit labor costs for the United States in this report begin with 1977.

Table B (pages 8-12) shows average annual percent changes for selected periods, beginning in 1979. Annual indexes of the data are in tables 1-15 (pages 19-33).

Historical series are available also at the Bureau of Labor Statistics, Division of Foreign Labor Statistics, website at address <http://www.bls.gov/fls/home.htm>.

Notes about the measures

The measures in this release are based on data available to BLS as of August 2003. Revisions for 2001 and earlier years were made to the measures for several countries to incorporate data not available at the time of the February 2003 report.

U.S. manufacturing output measure

The output measure for manufacturing in the United States is the chain-weighted index of real gross domestic product by industry (deflated value added), published by the Bureau of Economic Analysis (BEA), U.S. Department of Commerce. This series is based on annually changing price weights. Because this measure is not available for years prior to 1977, U.S. measures of output, output per hour, and unit labor costs begin with 1977.

The United States real output data through 2001 used in this report were released by the BEA in November 2002 and are described in the *Survey of Current Business*, November 2002. The BLS estimate of real U.S. output for 2002 was derived by extrapolating the 2001 number forward, using the annual growth rate of the Federal Reserve Board's Industrial Production Index for Total Manufacturing.

The U.S. output series used for international comparisons differs from the manufacturing series that BLS publishes as part of its major sector productivity and costs measures for the United States. While both series are based on annually-changing price weights, the international comparisons program uses a value added output concept, while the major sector series is on a sectoral output basis and begins with 1949. The U.S. major sector productivity and costs measures can be found at internet address <http://www.bls.gov/lpc/>. For information on the differences between the value added and the sectoral output measures, see the Technical Notes section of this release.

Germany

From 1991 forward, the estimated growth rates pertain to unified Germany; prior to 1991, the rates pertained to the former West Germany. The two data series were linked in 1991. See technical notes for additional information.

New measures of National Accounts

Member states of the European Union are in the process of implementing the European System of Integrated National Accounts (ESA 95). Some other countries are adopting the System of National Accounts recommended by the United Nations (SNA 93), on which ESA 95 is based. Revisions due to these conversions to new systems are being incorporated into the BLS estimates.

Manufacturing productivity, output, and labor input

Labor productivity (output per hour) in U.S. manufacturing grew 6.4 percent in 2002, the fastest rate of increase since 1987. Labor productivity in 2002 also grew in all other countries compared, except Italy. U.S. growth was surpassed by three economies – Korea (7.2 percent), Sweden (7.6 percent), and Taiwan (6.7 percent). The United Kingdom's productivity gain of 0.4 percent and the Netherlands' 0.5 percent were the weakest gains among the countries compared. The majority of economies compared experienced productivity gains in 2002 after experiencing stagnant or negative growth in 2001. France, Italy, Norway, and the United Kingdom, where labor productivity growth slowed or declined, were exceptions. (See table B.)

Substantial 2002 productivity gains in Belgium, Japan, Sweden, and the United States reflected steep declines in hours worked with moderate to negative output growth. In contrast, productivity gains in Taiwan and Korea reflected steep rises in output and slight declines in hours worked, similar to the productivity growth patterns in both countries and in the United States and Sweden during 1995-2000. (See table B.)

In contrast to the rise in U.S. manufacturing output during 1995-2000, output declined for the second consecutive year in 2002, albeit at a notably slower rate than in 2001. The drop in U.S. output was the fourth largest decline in 2002 among the countries compared. Only Japan, the Netherlands, and the United Kingdom recorded greater declines. Output growth was relatively slow or negative in most European countries compared and in Japan. Korea and Taiwan recorded the highest output growth rates. In all countries except Taiwan and Canada, output growth rates in 2002 were lower than average growth rates during the 1979-2002 period.

Unlike output, total hours worked in manufacturing declined in every country compared, with the exception of Canada and Italy. In the United States, hours worked fell by 7.0 percent in 2002, the largest annual drop in 20 years and the highest among the countries compared. (The 6.4 percent decline in U.S. hours worked in 2001 is a revision from the 5.6 percent decline reported in the February 2003 news release.) Elsewhere, the 2002 declines ranged between 0.1 percent in Taiwan and 6.4 percent in Japan. In six of the countries where labor productivity grew in 2002, both hours worked and manufacturing output declined, but hours declined more.

The reductions in hours worked continued a general trend during the last decades in the manufacturing sectors of these economies. In most of them, hours worked in manufacturing reached their maximum levels in the 1960s and 1970s (the United States in 1979) and have trended downward since then, the decline accelerating in the last few years. In Taiwan and Korea, manufacturing hours have been declining since the late 1980s. The only exception to this general trend is Canada. (See tables B and 4.)

For most countries, reductions in manufacturing hours over the last several decades were the result of declines in both manufacturing employment and average hours worked. The reduction in average hours began earlier, but the decline in employment has been steeper and steadier. In some countries, average hours have risen slightly since 1979. (See tables B, 5, and 6.)

In 2002 in Japan, the United Kingdom, and the United States, the large reductions in total hours worked were due mainly to sharp drops in manufacturing employment, while average hours worked changed little. Canada and Italy were the only countries where there was a slight increase in manufacturing employment in 2002, with Canada recording an increase in average hours as well. Manufacturing employment declined in all the other economies, and, except for Taiwan and the United Kingdom, was accompanied by the same or fewer average hours worked. (See table B.)

Manufacturing hourly compensation and unit labor costs

Hourly compensation in manufacturing increased between 2.2 and 6.5 percent in 2002 in most economies, including the United States (5.0 percent). Only Korea posted a double-digit increase (13.0 percent). By contrast, Japan and Taiwan recorded declines in hourly compensation in 2002. For most economies in 2002, hourly compensation increases lagged behind their average annual growth rates of the 1979–2002 period. (See table B.)

Similarly, the growth of manufacturing unit labor costs for most countries, expressed in national currency, lagged behind the average annual increases of 1979–2002. The United States, Japan, Taiwan, Germany, and Sweden recorded declines in unit labor costs because productivity growth was larger than hourly compensation growth. In the other economies, hourly compensation growth outstripped productivity growth. (See tables B and 9.)

To compare changes in competitiveness across economies, the impact of exchange rate fluctuations have to be taken into account by expressing unit labor costs in a common monetary unit. When a foreign currency appreciates against the U.S. dollar, more dollars must be paid in exchange for each national currency unit, leading to a larger increase or a smaller decline in unit labor costs converted from the foreign currency into U.S. dollars. This effectively makes products from that country more expensive and worsens its competitiveness.

In 2002, the U.S. dollar depreciated against the currencies of most countries compared, particularly against the Norwegian krone (12.7 percent). The decline against the euro was 5.6 percent. This depreciation reversed a seven-year trend when the U.S. dollar recorded annual average appreciation against most other currencies. Only the Japanese yen and Canadian and Taiwanese dollars depreciated against the U.S. dollar in 2002. (See table B.)

As a result of the dollar's fall, most countries showed large increases in unit labor costs expressed in U.S. dollars, in particular Norway, the Netherlands, Italy, and Korea. The annual increase in Korean unit labor costs expressed in U.S. dollars was the largest since the Asian financial crisis in 1997. As in 2001, Japan and Taiwan continue to show the largest unit labor cost declines in 2002. The United States was the only other country with lower unit labor costs.

Thus, for most economies in 2002, increases in unit labor costs expressed in national currencies were below their average annual growth rates of the last 30 years, but the

depreciation of the U.S. dollar in 2002 raised dollar-denominated unit labor cost increases above their historical growth rates. (See table B.)

**Table B. Output per hour, hourly compensation, unit labor costs, and related measures
Manufacturing, 14 countries or areas, 1979-2002**

Average annual rates of change¹

| Country or area | 1979-2002 | 1979-1985 | 1985-1990 | 1990-1995 | 1995-2000 | 2000-2001 | 2001-2002 |
|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Output per hour | | | | | | | |
| United States | 3.4 | 3.5 | 2.4 | 3.3 | 4.5 | Γ 0.4 | 6.4 |
| Canada | 2.1 | 3.6 | 0.5 | 3.8 | 1.1 | -2.0 | 1.5 |
| Japan | 3.6 | 3.5 | 4.3 | 3.3 | 4.1 | -1.6 | 5.2 |
| Korea | NA | NA | 8.2 | 9.7 | Γ 11.0 | Γ -0.8 | 7.2 |
| Taiwan | 6.0 | 5.1 | 7.9 | 5.3 | 5.5 | 6.3 | 6.7 |
| Belgium | 3.8 | 6.0 | 2.2 | 3.2 | 3.3 | 1.2 | 6.3 |
| Denmark | NA | 2.4 | 0.7 | NA | NA | NA | NA |
| France | 4.2 | 5.1 | Γ 3.3 | 4.0 | Γ 4.7 | Γ 4.1 | 2.7 |
| Germany ² | 2.4 | 2.1 | 2.1 | 3.3 | 2.4 | 1.4 | 2.3 |
| Italy | 2.0 | 3.5 | 1.9 | 2.4 | 0.9 | 1.7 | -1.4 |
| Netherlands | 3.0 | Γ 4.6 | Γ 2.2 | Γ 3.5 | Γ 2.5 | Γ -0.3 | 0.5 |
| Norway | 1.5 | 2.4 | 1.4 | Γ 0.5 | Γ 1.1 | Γ 2.2 | 1.8 |
| Sweden | 4.5 | 3.1 | 1.9 | 5.7 | 7.8 | Γ 0.9 | 7.6 |
| United Kingdom | 3.6 | 4.4 | 4.6 | Γ 3.6 | Γ 2.5 | Γ 2.6 | 0.4 |
| Output | | | | | | | |
| United States | 2.4 | 2.2 | 2.5 | 3.1 | 4.3 | -6.0 | -1.1 |
| Canada | 2.4 | 2.0 | 1.8 | 2.4 | 4.5 | -3.3 | 2.6 |
| Japan | 2.5 | 4.7 | 4.8 | 0.4 | 2.0 | -4.9 | -1.5 |
| Korea | 8.8 | 8.3 | 12.2 | 8.4 | 8.1 | Γ 2.1 | 6.3 |
| Taiwan | 6.0 | 8.2 | 7.0 | 5.0 | 5.7 | -5.7 | 6.6 |
| Belgium | 2.1 | 2.6 | 2.5 | 0.6 | 3.2 | 0.3 | 0.5 |
| Denmark | 1.4 | 2.3 | -0.6 | 1.7 | Γ 1.8 | Γ 4.4 | 0.4 |
| France | 2.1 | 1.6 | 2.5 | 1.1 | Γ 3.5 | Γ 3.0 | 0.1 |
| Germany ² | 0.6 | 0.2 | 2.3 | -0.7 | 0.9 | 0.6 | -0.3 |
| Italy | 1.5 | 0.9 | 3.2 | 1.5 | 1.2 | Γ 0.8 | -0.7 |
| Netherlands | 2.0 | Γ 2.0 | Γ 3.1 | Γ 1.8 | Γ 2.6 | Γ -0.9 | -1.6 |
| Norway | 0.3 | 0.6 | -1.6 | Γ 1.1 | Γ 1.0 | Γ 0.5 | -0.6 |
| Sweden | 3.4 | 2.2 | 1.4 | 3.7 | 7.7 | Γ -1.5 | 2.9 |
| United Kingdom | 0.5 | -1.2 | 3.4 | 0.4 | 1.0 | -2.4 | -4.0 |

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**Table B. Output per hour, hourly compensation, unit labor costs, and related measures
Manufacturing, 14 countries or areas, 1979-2002**

Average annual rates of change¹

| Country or area | 1979-2002 | 1979-1985 | 1985-1990 | 1990-1995 | 1995-2000 | 2000-2001 | 2001-2002 |
|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total hours | | | | | | | |
| United States | -1.0 | -1.2 | 0.0 | -0.1 | -0.2 | Γ -6.4 | -7.0 |
| Canada | 0.3 | -1.5 | 1.3 | -1.3 | 3.4 | -1.4 | 1.1 |
| Japan | -1.1 | 1.1 | 0.5 | -2.8 | -2.0 | -3.4 | -6.4 |
| Korea | NA | NA | 3.7 | -1.2 | Γ -2.6 | Γ 2.9 | -0.8 |
| Taiwan | 0.0 | 2.9 | -0.8 | -0.3 | 0.2 | -11.3 | -0.1 |
| Belgium | -1.6 | -3.2 | 0.4 | -2.5 | -0.1 | -1.0 | -5.5 |
| Denmark | NA | -0.1 | -1.3 | NA | NA | NA | NA |
| France | -2.0 | -3.3 | -0.7 | -2.7 | Γ -1.2 | Γ -1.1 | -2.6 |
| Germany ² | -1.8 | -1.9 | 0.2 | -3.9 | -1.5 | -0.8 | -2.6 |
| Italy | -0.5 | -2.5 | 1.3 | -0.9 | 0.3 | Γ -0.9 | 0.7 |
| Netherlands | -1.0 | -2.5 | 0.9 | -1.7 | 0.0 | Γ -0.6 | -2.2 |
| Norway | -1.2 | -1.8 | -2.9 | 0.6 | Γ -0.1 | Γ -1.7 | -2.4 |
| Sweden | -1.0 | -0.8 | -0.5 | -1.9 | -0.1 | -2.4 | -4.4 |
| United Kingdom | -3.0 | -5.3 | -1.2 | Γ -3.0 | Γ -1.4 | Γ -4.8 | -4.4 |
| Employment | | | | | | | |
| United States | -1.1 | -1.4 | -0.1 | -0.6 | -0.1 | Γ -4.7 | -6.8 |
| Canada | 0.2 | -1.3 | 1.2 | -1.5 | 3.0 | -0.4 | 0.7 |
| Japan | -0.7 | 1.2 | 0.8 | -1.6 | -1.9 | -2.6 | -6.4 |
| Korea | NA | NA | 5.4 | -0.9 | -2.5 | Γ 5.2 | -0.2 |
| Taiwan | 0.7 | 4.1 | -0.5 | -0.3 | 0.5 | -4.5 | -1.8 |
| Belgium | -1.5 | -2.6 | -0.3 | -2.2 | -0.7 | 0.1 | -3.1 |
| Denmark | -0.7 | 0.2 | -0.8 | -1.2 | Γ -0.5 | Γ -1.1 | -3.8 |
| France | -1.4 | -2.3 | Γ -0.9 | -2.5 | Γ -0.3 | Γ 1.1 | -1.7 |
| Germany ² | -1.2 | -1.1 | 1.1 | -4.2 | -0.8 | 0.4 | -2.1 |
| Italy | -1.0 | -2.3 | -0.2 | -1.8 | 0.3 | Γ 0.0 | 1.0 |
| Netherlands | -0.8 | Γ -2.3 | 1.0 | -1.6 | 0.2 | Γ -0.5 | -2.2 |
| Norway | -1.1 | -1.8 | -2.7 | 0.3 | 0.1 | Γ -1.4 | -1.1 |
| Sweden | -1.4 | -1.2 | -0.8 | -3.5 | 0.0 | -1.0 | -2.8 |
| United Kingdom | -2.7 | Γ -4.5 | -0.9 | Γ -3.0 | Γ -1.1 | Γ -4.4 | -5.1 |

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**Table B. Output per hour, hourly compensation, unit labor costs, and related measures
Manufacturing, 14 countries or areas, 1979-2002**

Average annual rates of change¹

| Country or area | 1979-2002 | 1979-1985 | 1985-1990 | 1990-1995 | 1995-2000 | 2000-2001 | 2001-2002 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Average hours | | | | | | | |
| United States | 0.1 | 0.2 | 0.1 | 0.4 | -0.1 | Γ -1.8 | -0.3 |
| Canada | 0.1 | -0.2 | 0.1 | 0.3 | 0.4 | -1.0 | 0.4 |
| Japan | -0.4 | 0.0 | -0.3 | -1.3 | -0.1 | -0.8 | 0.0 |
| Korea | NA | NA | -1.6 | -0.2 | -0.1 | Γ -2.1 | -0.7 |
| Taiwan | -0.7 | -1.1 | -0.4 | 0.0 | -0.3 | -7.1 | 1.7 |
| Belgium | -0.1 | -0.6 | 0.7 | -0.3 | 0.7 | -1.1 | -2.4 |
| Denmark | NA | -0.3 | -0.5 | NA | NA | NA | NA |
| France | -0.6 | -1.1 | 0.1 | -0.2 | -0.9 | -2.2 | -0.9 |
| Germany ² | -0.6 | -0.8 | -0.9 | 0.3 | -0.6 | -1.2 | -0.6 |
| Italy | 0.5 | -0.1 | 1.6 | 0.9 | 0.0 | Γ -0.9 | -0.2 |
| Netherlands | -0.2 | -0.3 | -0.2 | 0.0 | -0.2 | -0.1 | 0.0 |
| Norway | -0.1 | 0.0 | -0.2 | 0.3 | Γ -0.2 | Γ -0.3 | -1.3 |
| Sweden | 0.4 | 0.4 | 0.3 | 1.7 | -0.1 | -1.4 | -1.6 |
| United Kingdom | -0.3 | -0.8 | -0.3 | Γ -0.1 | -0.3 | Γ -0.4 | 0.7 |
| Total labor compensation in manufacturing³: National currency basis | | | | | | | |
| United States | 3.6 | 5.8 | 3.9 | 3.4 | 3.7 | Γ -4.1 | -2.4 |
| Canada | 5.1 | 7.5 | 5.6 | 2.4 | 4.9 | 2.1 | 5.7 |
| Japan | 2.0 | 5.9 | 5.1 | 0.7 | -1.1 | -2.6 | -7.9 |
| Korea | NA | NA | 19.9 | 16.8 | 4.1 | Γ 10.2 | 12.0 |
| Taiwan | 8.2 | 15.9 | 10.6 | 6.8 | 4.2 | -9.4 | -0.2 |
| Belgium | 3.0 | 4.7 | 4.0 | 1.3 | 1.9 | 4.1 | 0.7 |
| Denmark | 4.7 | 9.1 | 4.8 | 2.3 | 3.1 | 3.2 | 0.8 |
| France | 3.6 | 9.0 | 3.6 | 1.1 | Γ 0.7 | Γ 3.9 | 0.5 |
| Germany ² | 3.1 | 4.0 | 5.2 | 2.3 | 1.6 | 2.3 | -0.4 |
| Italy | 6.9 | 13.0 | 8.2 | 4.0 | 3.1 | 2.7 | 3.2 |
| Netherlands | 3.1 | Γ 2.4 | Γ 3.9 | 2.8 | 3.4 | Γ 4.6 | 2.8 |
| Norway | 5.4 | 8.0 | 4.7 | 4.0 | Γ 5.0 | Γ 3.7 | 3.5 |
| Sweden | 5.5 | 8.9 | 7.9 | 2.0 | 4.8 | 0.9 | -0.8 |
| United Kingdom | 4.5 | Γ 6.3 | 8.1 | 2.5 | 3.2 | Γ -0.5 | -1.2 |

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**Table B. Output per hour, hourly compensation, unit labor costs, and related measures
Manufacturing, 14 countries or areas, 1979-2002**

Average annual rates of change¹

| Country or area | 1979-2002 | 1979-1985 | 1985-1990 | 1990-1995 | 1995-2000 | 2000-2001 | 2001-2002 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Hourly compensation³: National currency basis | | | | | | | |
| United States | 4.6 | 7.2 | 3.9 | 3.5 | 4.0 | ∩ 2.4 | 5.0 |
| Canada | 4.7 | 9.1 | 4.2 | 3.7 | 1.4 | 3.5 | 4.6 |
| Japan | 3.2 | 4.7 | 4.6 | 3.6 | 1.0 | 0.7 | -1.6 |
| Korea | NA | NA | 15.6 | 18.2 | 6.9 | ∩ 7.0 | 13.0 |
| Taiwan | 8.2 | 12.6 | 11.5 | 7.1 | 4.0 | 2.2 | -0.1 |
| Belgium | 4.7 | 8.1 | 3.7 | 3.9 | 2.0 | 5.2 | 6.5 |
| Denmark | NA | 9.3 | 6.2 | NA | NA | NA | NA |
| France | 5.8 | 12.7 | 4.3 | 3.9 | 1.9 | 5.0 | 3.2 |
| Germany ² | 5.0 | 6.0 | 5.0 | 6.4 | 3.1 | 3.1 | 2.2 |
| Italy | 7.4 | 15.9 | 6.8 | 4.9 | 2.8 | ∩ 3.6 | 2.5 |
| Netherlands | 4.1 | ∩ 5.1 | ∩ 3.0 | 4.5 | 3.3 | ∩ 5.2 | 5.1 |
| Norway | 6.6 | 10.0 | 7.8 | 3.4 | ∩ 5.2 | ∩ 5.5 | 6.0 |
| Sweden | 6.6 | 9.8 | 8.4 | 4.0 | 4.8 | 3.4 | 3.7 |
| United Kingdom | 7.8 | 12.2 | 9.4 | ∩ 5.7 | ∩ 4.7 | ∩ 4.6 | 3.3 |
| Unit labor costs: National currency basis | | | | | | | |
| United States | 1.2 | 3.6 | 1.4 | 0.2 | -0.5 | 2.0 | -1.3 |
| Canada | 2.6 | 5.3 | 3.7 | -0.1 | 0.4 | 5.5 | 3.1 |
| Japan | -0.4 | 1.1 | 0.3 | 0.3 | -3.0 | 2.4 | -6.4 |
| Korea | NA | NA | 6.9 | 7.8 | -3.7 | ∩ 7.9 | 5.4 |
| Taiwan | 2.1 | 7.1 | 3.4 | 1.7 | -1.5 | -3.9 | -6.3 |
| Belgium | 0.9 | 2.0 | 1.5 | 0.7 | -1.3 | 3.9 | 0.2 |
| Denmark | 3.3 | 6.7 | 5.4 | 0.6 | ∩ 1.2 | ∩ -1.1 | 0.4 |
| France | 1.5 | 7.3 | ∩ 1.0 | -0.1 | ∩ -2.7 | ∩ 0.9 | 0.4 |
| Germany ² | 2.5 | 3.8 | 2.8 | 3.1 | 0.7 | 1.7 | -0.1 |
| Italy | 5.3 | 12.0 | 4.8 | 2.4 | 1.9 | ∩ 1.9 | 4.0 |
| Netherlands | 1.1 | 0.5 | ∩ 0.8 | ∩ 1.0 | ∩ 0.8 | ∩ 5.5 | 4.5 |
| Norway | 5.1 | 7.4 | 6.4 | ∩ 2.9 | ∩ 4.0 | ∩ 3.2 | 4.2 |
| Sweden | 2.0 | 6.5 | 6.4 | -1.6 | -2.7 | ∩ 2.5 | -3.6 |
| United Kingdom | 4.0 | 7.5 | 4.5 | 2.1 | 2.2 | ∩ 1.9 | 2.9 |

Continued on next page

**Table B. Output per hour, hourly compensation, unit labor costs, and related measures
Manufacturing, 14 countries or areas, 1979-2002**

Average annual rates of change¹

| Country or area | 1979-2002 | 1979-1985 | 1985-1990 | 1990-1995 | 1995-2000 | 2000-2001 | 2001-2002 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Unit labor costs: U.S. dollar basis | | | | | | | |
| United States | 1.2 | 3.6 | 1.4 | 0.2 | -0.5 | 2.0 | -1.3 |
| Canada | 1.3 | 2.7 | 7.0 | -3.3 | -1.2 | 1.2 | 1.6 |
| Japan | 2.0 | -0.3 | 10.8 | 9.4 | -5.7 | -9.2 | -9.2 |
| Korea | NA | NA | 11.1 | 6.0 | r -10.7 | r -5.6 | 8.9 |
| Taiwan | 2.3 | 5.3 | 11.8 | 2.0 | -4.7 | -11.2 | -8.3 |
| Belgium | -0.7 | -9.3 | 13.8 | 3.3 | -8.8 | 0.7 | 5.8 |
| Denmark | 1.5 | -5.0 | 17.4 | 2.7 | r -6.0 | r -4.0 | 6.1 |
| France | -0.6 | -5.3 | r 11.6 | 1.7 | r -9.4 | r -2.2 | 6.1 |
| Germany ² | 1.9 | -4.1 | 15.9 | 5.6 | -6.9 | -1.4 | 5.5 |
| Italy | 1.2 | -2.5 | 15.1 | -3.7 | -3.1 | r -1.2 | 9.8 |
| Netherlands | 0.4 | -7.6 | r 13.6 | r 3.6 | r -6.9 | r 2.3 | 10.4 |
| Norway | 3.0 | -1.7 | 13.3 | r 2.6 | r -2.7 | r 1.1 | 17.4 |
| Sweden | -1.5 | -5.2 | 14.7 | -5.2 | -7.5 | r -9.1 | 2.5 |
| United Kingdom | 2.5 | -1.0 | 11.4 | -0.4 | 1.3 | r -3.2 | 7.4 |
| Exchange rates⁴ | | | | | | | |
| United States | — | — | — | — | — | — | — |
| Canada | -1.3 | -2.5 | 3.2 | -3.2 | -1.6 | -4.1 | -1.4 |
| Japan | 2.4 | -1.5 | 10.5 | 9.1 | -2.7 | -11.3 | -2.9 |
| Korea | -4.0 | -9.2 | 3.9 | -1.7 | -7.3 | -12.5 | 3.3 |
| Taiwan | 0.2 | -1.7 | 8.2 | 0.3 | -3.3 | -7.6 | -2.1 |
| Belgium | -1.6 | -11.1 | 12.2 | 2.5 | -7.6 | -3.0 | 5.6 |
| Denmark | -1.7 | -11.0 | 11.4 | 2.0 | -7.1 | -2.8 | 5.7 |
| France | -2.1 | -11.7 | 10.5 | 1.8 | -6.8 | -3.0 | 5.6 |
| Germany ² | -0.5 | -7.6 | 12.7 | 2.5 | -7.5 | -3.0 | 5.6 |
| Italy | -3.8 | -12.9 | 9.8 | -6.0 | -4.9 | -3.0 | 5.6 |
| Netherlands | -0.7 | -8.0 | 12.7 | 2.6 | -7.6 | -3.0 | 5.6 |
| Norway | -2.0 | -8.4 | 6.6 | -0.3 | -6.4 | -2.0 | 12.7 |
| Sweden | -3.5 | -11.0 | 7.8 | -3.7 | -4.9 | -11.3 | 6.4 |
| United Kingdom | -1.5 | -7.9 | 6.6 | -2.4 | -0.8 | -5.0 | 4.4 |

r = revised

NA = not available

¹Rates of change based on the compound rate method.

³Adjusted to include employment taxes that are not compensation to employees but are labor costs to employers.

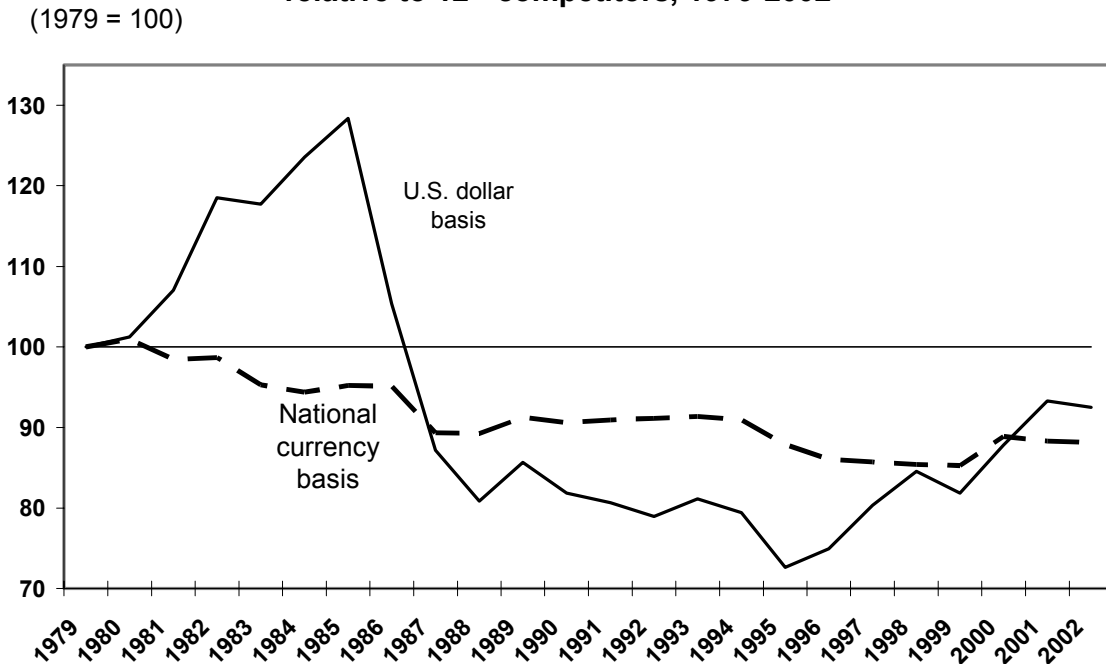
²Data for years before 1991 pertain to the former West Germany.

⁴Value of foreign currency relative to the U.S. dollar.

Trade-weighted unit labor costs

BLS constructs indexes of U.S. unit labor cost trends relative to a trade-weighted average of unit labor cost trends in the other economies to take account of differences in the relative importance of foreign economies to U.S. trade in manufactured goods. Chart 3 begins in 1979, a year in which U.S. manufacturing output reached a business cycle peak.

Chart 3. U.S. manufacturing unit labor costs relative to 12⁽¹⁾ competitors, 1979-2002



(1) Korean data begin with 1985 and have been omitted from this chart.

The construction of the trade-weighted indexes is a three-step process. First, the indexes of unit labor costs for all economies are rebased to a common year (in this case, 1979=100). Second, for each year, a "competitors" index is calculated as the weighted geometric mean of the indexes for all competitor economies; the weights reflect each country's importance in terms of U.S. trade in manufactured goods. Finally, the U.S. index number for each year is divided by the "competitors" index number (and multiplied by 100) to obtain a relative ratio of the United States to the competitors. This process is used to calculate the relative trade-weighted unit labor cost indexes on both a national currency and a U.S. dollar basis. In this release, the relative U.S. trade-weighted indexes are estimated against 12 economies for which comparable data are available over this period; the indexes underlying this chart are shown in table C.

In chart 3, the solid line indicates that U.S. unit labor costs rose faster than "competitors" costs from 1979 to 1986 on a U.S. dollar basis. In most years from 1986 to 1995, U.S. costs either rose at a slower rate than the "competitors" costs or fell at a faster rate. From 1996 to 1998, however, the strength of the U.S. dollar caused relative U.S. unit labor costs to rise. After a dip in 1999, the index of relative U.S. unit labor costs

rose again in 2000 and 2001, only to dip again in 2002 with a weakening of the U.S. dollar.

**Table C. U.S. manufacturing unit labor costs
relative to 12⁽¹⁾ competitors, 1979-2002**

| Year | Unit Labor Costs National Currency Basis | | | Unit Labor Costs U.S. Dollar Basis | | |
|------|---|-----------------------|-------|---------------------------------------|-----------------------|-------|
| | Own Index | Competitors' Index | Ratio | Own Index | Competitors' Index | Ratio |
| 1979 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1980 | 111.4 | 110.3 | 101.0 | 111.4 | 110.0 | 101.2 |
| 1981 | 116.5 | 118.4 | 98.4 | 116.5 | 108.9 | 107.0 |
| 1982 | 124.2 | 125.9 | 98.7 | 124.2 | 104.8 | 118.5 |
| 1983 | 121.6 | 127.5 | 95.3 | 121.6 | 103.3 | 117.7 |
| 1984 | 121.0 | 128.2 | 94.4 | 121.0 | 97.9 | 123.6 |
| 1985 | 123.4 | 129.6 | 95.2 | 123.4 | 96.1 | 128.4 |
| 1986 | 128.9 | 135.5 | 95.1 | 128.9 | 122.3 | 105.4 |
| 1987 | 122.8 | 137.5 | 89.3 | 122.8 | 140.9 | 87.2 |
| 1988 | 122.5 | 137.3 | 89.2 | 122.5 | 151.5 | 80.9 |
| 1989 | 128.0 | 140.2 | 91.3 | 128.0 | 149.4 | 85.7 |
| 1990 | 132.4 | 146.2 | 90.6 | 132.4 | 161.8 | 81.8 |
| 1991 | 138.0 | 151.8 | 90.9 | 138.0 | 171.1 | 80.7 |
| 1992 | 141.3 | 155.1 | 91.1 | 141.3 | 179.0 | 79.0 |
| 1993 | 142.3 | 155.7 | 91.4 | 142.3 | 175.3 | 81.1 |
| 1994 | 139.2 | 153.1 | 90.9 | 139.2 | 175.3 | 79.4 |
| 1995 | 134.0 | 152.5 | 87.9 | 134.0 | 184.5 | 72.6 |
| 1996 | 132.1 | 153.5 | 86.1 | 132.1 | 176.3 | 74.9 |
| 1997 | 129.9 | 151.6 | 85.7 | 129.9 | 161.7 | 80.4 |
| 1998 | 131.2 | 153.6 | 85.4 | 131.2 | 155.2 | 84.5 |
| 1999 | 129.1 | 151.4 | 85.3 | 129.1 | 157.7 | 81.9 |
| 2000 | 130.4 | 146.7 | 88.9 | 130.4 | 148.5 | 87.8 |
| 2001 | 133.0 | 150.6 | 88.3 | 133.0 | 142.5 | 93.3 |
| 2002 | 131.2 | 148.9 | 88.1 | 131.2 | 141.8 | 92.5 |

(1) Korean data begin with 1985, and have been omitted from this table.

Technical Notes

Labor productivity is defined as real output per hour worked. Although the labor productivity measure presented in this release relates output to the hours worked of persons employed in manufacturing, it does not measure the specific contributions of labor as a single factor of production. Rather, it reflects the joint effects of many influences, including new technology, capital investment, capacity utilization, energy use, and managerial skills, as well as the skills and efforts of the workforce.

Unit labor costs are defined as the cost of labor input required to produce one unit of output. They are computed as labor compensation in nominal terms divided by real output.

The Bureau of Labor Statistics constructs trend indexes of manufacturing labor productivity, hourly compensation costs, and unit labor costs from three basic aggregate measures – output, total labor hours, and total compensation. The hours and compensation measures refer to employees (wage and salary earners) in Belgium, Denmark, Italy, and Taiwan. For all other countries, the measures refer to all employed persons, including employees, self-employed persons, and unpaid family workers. For all of the countries, the term “hours” refers to hours worked.

In general, the measures relate to total manufacturing as defined by the International Standard Industrial Classification (ISIC). However, the measures for Denmark include mining and exclude manufacturing handicrafts from 1950 to 1966 and the measures for France include parts of mining.

The comparisons in this release make use of data made available to BLS as of August 2003 by the statistical agencies of the individual countries. For some countries, the data for the most recent years are based on the European System of Integrated National Accounts (ESA 95) or on the United Nations System of National Accounts 1993 (SNA 93). For other countries, data were compiled according to previously used systems.

To obtain historical time series, BLS may link together data series which were compiled according to different accounting systems by the countries' statistical agencies.

Output. For most countries, the output measures are real value added in manufacturing from the national accounts. However, output for Japan prior to 1970 and for the Netherlands prior to 1960 are indexes of industrial production. The manufacturing value added measures for the United Kingdom are essentially identical to their indexes of industrial production.

The output measure for manufacturing in the United States is the chain-weighted index of real gross product originating (deflated value added), introduced by the Bureau of Economic Analysis (BEA) of the U.S. Department of Commerce in August 1996. U.S. gross product originating is a chain-type annual-weighted series. Because these value added output data for U.S. manufacturing industries are not available for years prior to 1977, the comparative U.S. measures of output, output per hour, and unit labor costs begin with 1977. For more information on the U.S. measure, see Sherlene K.S. Lum, Brian C. Moyer, and Robert E. Yuskavage, “Improved Estimates of Gross Product by Industry for 1947-98,” *Survey of Current Business*, June 2000, pp. 24-38.

The U.S. gross product originating series differs from the manufacturing output series that BLS publishes as part of its major sector productivity and costs program. While both series are based on annually-changing price weights, the gross product originating series is on a value added basis rather than the sectoral output basis used in the official U.S. manufacturing productivity series. Sectoral output is gross output less intrasector sales and transfers. For information on sectoral output, see William Gullickson, "Measurement of productivity growth in U.S. manufacturing," *Monthly Labor Review*, July 1995, pp. 13-28.

A value added concept has been used for the international comparisons series because the data are more readily available from the countries' national accounts, whereas sectoral output would require a complex estimation procedure. Also, although BLS has determined that sectoral output is the correct concept for U.S. measures of productivity, there are other considerations that may make value added a better concept for international comparisons of labor productivity, such as differences among countries in the extent of vertical integration of industries.

Estimation of manufacturing real output using changing price weights is becoming prevalent. For example, the output measure for manufacturing in the United States is the chain-weighted index of real gross product originating, based on annually changing price weights. However, many earlier time periods within the historical real output series have been estimated using fixed price weights, with the weights updated periodically (for example, every 5 or 10 years).

Measures of real output also may differ among countries because of different approaches to estimating the prices of high-technology products like computers and, in general, of products that undergo rapid quality change.

Labor Input. For the United States, the hours worked data are taken from the BLS major sector productivity program. The aggregate hours worked series used for France (from 1970 forward), Norway, Sweden, and Canada are series published with the national accounts. For the former West Germany after 1959 and Germany from 1991, BLS uses aggregate hours worked, which were developed by a research institute of the German Ministry of Labor for use with the national accounts employment figures. For the United Kingdom from 1992, an index of total manufacturing hours is used, derived from published quarterly indices of manufacturing hours. For all other countries, the U.K. before 1992, and the former West Germany before 1959, BLS constructs its own estimates of aggregate hours, using employment figures published with the national accounts, or other comprehensive employment series, and estimates of average annual hours worked. Hours measures for Denmark are not available after 1993 due to a lack of comparable data.

Compensation (Labor Cost). The compensation measures are from national accounts data. Compensation includes employer expenditures for legally required insurance programs and contractual and private benefit plans, in addition to all payments made in cash or in kind directly to employees. For Canada, France, and Sweden, compensation is increased to account for important taxes on payroll or employment. For the United Kingdom, compensation is reduced between 1967 and 1991 to account for subsidies. When data for the self-employed are not available, total compensation is estimated by assuming the same hourly compensation for self-employed and employees. Real

compensation for the United States is derived using the Consumer Price Index research series (CPI-U-RS).

Data for Germany. The average annual growth rates for Germany pertain to unified Germany from 1991 forward and to the former West Germany for prior years. The data series are linked in 1991. In the historic data tables, separate index series are shown for unified Germany and for former West Germany. The West German estimates end with 1998, the last year for which the German Statistical Office has published the necessary underlying data. The estimates for West Germany have not been updated or revised by BLS since they were published in the news release USDL 99-235, on Aug. 27, 1999.

Current Indicators. The measures for recent years may be based on current indicators of output (such as industrial production indexes), employment, average hours, and hourly compensation until national accounts and other statistics, normally used for the long-term measures, become available.

Trade-Weighted Measures. The trade weights for Canada, Japan, and the European countries were obtained by re-scaling a series of weights, developed by the International Monetary Fund, based on average trade flows over the 1989-91 period. These weights are based on aggregate trade data for total manufacturing and take account of both bilateral trade and the relative importance of "third country" markets. The 1989-91 weights do not include Taiwan. BLS developed weights for Taiwan by using data from an earlier study from the International Monetary Fund and other sources. The weight used for Germany is based on the trade weight of the former West Germany.

The following weights were used for the entire period for which trade-weighted unit labor cost measures are produced:

| <i>Country</i> | <i>Weight</i> | <i>Country</i> | <i>Weight</i> |
|----------------|---------------|----------------|---------------|
| Canada | 25.31 | Germany | 11.61 |
| Japan | 30.57 | Italy | 4.60 |
| Taiwan | 5.79 | Netherlands | 2.25 |
| Belgium | 2.14 | Norway | 0.48 |
| Denmark | 0.48 | Sweden | 1.89 |
| France | 5.90 | United Kingdom | 8.99 |

Level Comparisons. The BLS measures are limited to trend comparisons. BLS does not prepare level comparisons of manufacturing productivity and unit labor costs because of data limitations and technical problems in comparing the levels of manufacturing output among countries. Each country measures manufacturing output in its own currency units. To compare outputs among countries, a common unit of measure is needed. Market exchange rates are not suitable as a basis for comparing output levels. What is needed are purchasing power parities, which are the number of foreign currency units required to buy goods and services equivalent to what can be bought with one unit of U.S. currency.

Purchasing power parities are available for total gross domestic product (GDP) from the Organization for Economic Cooperation and Development (OECD). However, these parities are derived for expenditures made by consumers, business, and government for goods and services – not for value added by industry. Therefore, they do not provide purchasing power parities by industry. The parities developed for total GDP are not suitable for each component industry, such as manufacturing.

European exchange rates. On Jan. 1, 1999, 11 European countries joined the European Monetary Union (EMU). Greece joined on Jan. 1, 2001. The euro, the official currency of the EMU, was established at fixed conversion rates to the previous national currencies of EMU members. Data on manufacturing value added and labor compensation for euro-area countries are now reported in euros. Exchange rates between the previous national currencies of euro-area countries and the U.S. dollar are no longer reported; only the exchange rate between the euro and the U.S. dollar is available.

In order to maintain historical continuity of data series, data for euro-area countries for years before 1999 have been linked to the euro-denominated series by applying the fixed euro/national currency conversion rates. For countries and years where output, compensation, and exchange rates are converted from national currency units into euros, the following fixed conversion rates are used:

| | | | | |
|----------------|---------|----------------|---------|----------------------|
| 1 euro equals: | 40.3399 | Belgian francs | 1936.27 | Italian lire |
| | 6.55957 | French francs | 2.20371 | Netherlands guilders |
| | 1.95583 | German marks | | |

The currency exchange rates cited in this publication are annual averages of daily buying rates in New York City.

Table 1. Output per hour in manufacturing, 14 countries or areas, 1950-2002
(Indexes: 1992=100)

| Year | United States | Canada | Japan | Korea | Taiwan | Belgium | Denmark | France | Germany** | Former West Germany** | Italy | Netherlands | Norway | Sweden | United Kingdom |
|------|---------------|--------|-------|-------|--------|---------|---------|--------|-----------|-----------------------|-------|-------------|--------|--------|----------------|
| 1950 | NA | 26.0 | NA | NA | NA | NA | 21.2 | 12.1 | NA | 13.2 | 13.5 | 11.4 | 25.1 | 19.5 | 24.5 |
| 1955 | NA | 31.9 | 8.6 | NA | NA | NA | 23.1 | 15.2 | NA | 19.7 | 18.8 | 14.6 | 29.2 | 21.3 | 26.5 |
| 1960 | NA | 37.8 | 13.8 | NA | NA | 18.0 | 28.1 | 19.8 | NA | 29.2 | 23.6 | 18.8 | 37.6 | 27.3 | 30.0 |
| 1961 | NA | 39.8 | 15.6 | NA | NA | 18.2 | 29.7 | 21.1 | NA | 30.6 | 25.5 | 19.8 | 38.9 | 28.7 | 30.1 |
| 1962 | NA | 42.7 | 16.4 | NA | NA | 19.2 | 31.2 | 22.4 | NA | 32.8 | 28.2 | 20.6 | 38.9 | 30.9 | 30.7 |
| 1963 | NA | 44.5 | 17.7 | NA | NA | 19.9 | 32.2 | 23.6 | NA | 34.1 | 29.0 | 21.4 | 40.9 | 32.7 | 32.4 |
| 1964 | NA | 46.3 | 20.1 | NA | NA | 21.2 | 34.9 | 25.5 | NA | 37.1 | 29.3 | 23.4 | 43.2 | 35.5 | 34.5 |
| 1965 | NA | 48.6 | 21.0 | NA | NA | 22.3 | 36.6 | 27.3 | NA | 39.3 | 32.6 | 24.9 | 45.8 | 38.2 | 35.5 |
| 1966 | NA | 49.5 | 23.0 | NA | NA | 23.8 | 38.4 | 29.5 | NA | 40.9 | 35.4 | 26.6 | 47.7 | 39.8 | 36.7 |
| 1967 | NA | 50.0 | 26.0 | NA | NA | 25.1 | 41.4 | 31.3 | NA | 43.4 | 37.2 | 28.6 | 49.5 | 43.2 | 38.4 |
| 1968 | NA | 52.7 | 29.1 | NA | NA | 27.3 | 44.4 | 34.6 | NA | 47.0 | 40.1 | 32.1 | 52.5 | 47.2 | 41.3 |
| 1969 | NA | 55.4 | 33.4 | NA | NA | 29.9 | 46.7 | 36.8 | NA | 50.4 | 41.6 | 35.2 | 57.4 | 50.9 | 42.3 |
| 1970 | NA | 54.9 | 37.5 | NA | NA | 32.9 | 49.4 | 39.0 | NA | 52.0 | 44.3 | 38.5 | 59.1 | 52.2 | 43.2 |
| 1971 | NA | 58.2 | 39.8 | NA | NA | 35.1 | 52.8 | 41.2 | NA | 54.0 | 45.0 | 40.8 | 60.9 | 54.5 | 45.4 |
| 1972 | NA | 61.3 | 43.6 | NA | NA | 39.2 | 57.6 | 43.1 | NA | 57.4 | 47.8 | 44.0 | 64.0 | 57.2 | 47.9 |
| 1973 | NA | 65.2 | 47.6 | NA | 33.1 | 43.5 | 63.5 | 46.1 | NA | 61.1 | 52.1 | 48.8 | 67.9 | 61.4 | 51.4 |
| 1974 | NA | 66.2 | 48.8 | NA | 32.0 | 45.8 | 65.2 | 47.2 | NA | 63.2 | 55.3 | 52.3 | 70.5 | 64.0 | 52.2 |
| 1975 | NA | 63.4 | 50.2 | NA | 33.7 | 47.6 | 70.6 | 48.8 | NA | 65.9 | 52.3 | 51.6 | 69.9 | 65.0 | 51.1 |
| 1976 | NA | 68.8 | 53.2 | NA | 36.7 | 52.4 | 74.4 | 51.8 | NA | 70.6 | 59.8 | 57.2 | 71.5 | 66.0 | 53.3 |
| 1977 | 68.3 | 72.4 | 55.3 | NA | 38.5 | 55.0 | 77.3 | 54.9 | NA | 72.7 | 61.7 | 61.9 | 72.6 | 65.0 | 53.8 |
| 1978 | 69.2 | 73.8 | 57.5 | NA | 43.4 | 58.3 | 79.6 | 57.3 | NA | 75.2 | 64.9 | 64.6 | 73.9 | 66.8 | 54.6 |
| 1979 | 70.1 | 73.9 | 62.2 | NA | 45.1 | 61.4 | 83.3 | 59.4 | NA | 78.4 | 71.1 | 67.4 | 79.3 | 72.0 | 55.0 |
| 1980 | 70.5 | 72.9 | 63.2 | NA | 47.7 | 65.4 | 86.2 | 61.5 | NA | 77.2 | 74.2 | 69.1 | 77.9 | 73.1 | 54.3 |
| 1981 | 74.1 | 76.5 | 65.2 | NA | 52.8 | 70.1 | 87.3 | 65.0 | NA | 78.7 | 73.8 | 71.7 | 77.6 | 72.7 | 57.1 |
| 1982 | 76.2 | 77.1 | 67.9 | NA | 54.1 | 73.5 | 88.4 | 69.7 | NA | 78.8 | 74.0 | 72.3 | 80.9 | 75.4 | 60.2 |
| 1983 | 80.0 | 81.9 | 68.8 | NA | 57.5 | 81.0 | 93.5 | 73.3 | NA | 82.6 | 75.7 | 77.5 | 83.6 | 80.9 | 65.0 |
| 1984 | 83.2 | 88.8 | 71.2 | NA | 59.1 | 85.0 | 94.3 | 75.7 | NA | 85.4 | 81.9 | 85.3 | 88.8 | 85.2 | 68.4 |
| 1985 | 86.0 | 91.1 | 76.5 | 54.9 | 60.9 | 87.0 | 95.8 | 79.8 | NA | 89.1 | 87.4 | 88.5 | 91.6 | 86.2 | 71.1 |
| 1986 | 86.0 | 87.6 | 76.1 | 58.9 | 66.6 | 87.8 | 91.8 | 82.4 | NA | 89.6 | 87.9 | 89.7 | 90.3 | 87.5 | 73.9 |
| 1987 | 92.9 | 87.8 | 80.2 | 63.2 | 72.8 | 88.9 | 91.5 | 83.9 | NA | 88.1 | 89.3 | 90.4 | 94.7 | 89.2 | 78.1 |
| 1988 | 96.9 | 89.6 | 83.9 | 68.7 | 76.4 | 92.0 | 94.1 | 88.4 | NA | 91.5 | 93.9 | 92.3 | 93.5 | 90.5 | 82.6 |
| 1989 | 95.7 | 92.5 | 88.6 | 73.2 | 83.1 | 96.9 | 100.2 | 92.1 | NA | 94.6 | 95.5 | 96.4 | 96.0 | 93.2 | 86.2 |
| 1990 | 96.9 | 93.4 | 94.4 | 81.3 | 88.9 | 96.8 | 99.1 | 93.8 | NA | 99.0 | 95.8 | 98.7 | 98.1 | 94.6 | 89.2 |
| 1991 | 97.9 | 95.3 | 99.0 | 91.4 | 96.6 | 99.1 | 99.5 | 97.0 | 98.3 | 101.9 | 95.9 | 99.0 | 98.2 | 95.5 | 93.8 |
| 1992 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1993 | 102.1 | 105.8 | 101.7 | 108.1 | 102.9 | 102.5 | 99.3 | 100.7 | 101.8 | 100.6 | 101.4 | 102.0 | 99.6 | 107.3 | 104.2 |
| 1994 | 107.3 | 110.8 | 103.3 | 118.0 | 106.7 | 108.4 | NA | 108.2 | 109.6 | 107.9 | 104.9 | 113.1 | 99.6 | 117.8 | 108.4 |
| 1995 | 113.8 | 112.4 | 111.0 | 129.2 | 115.1 | 113.2 | NA | 113.8 | 112.3 | 111.2 | 108.0 | 117.3 | 100.7 | 124.5 | 106.4 |
| 1996 | 117.0 | 109.7 | 116.1 | 142.5 | 123.1 | 117.3 | NA | 114.5 | 114.7 | 115.1 | 108.1 | 119.3 | 102.5 | 129.5 | 105.6 |
| 1997 | 121.3 | 113.5 | 121.0 | 163.3 | 129.2 | 127.0 | NA | 121.8 | 120.4 | 121.8 | 109.9 | 121.4 | 102.0 | 141.0 | 107.0 |
| 1998 | 126.5 | 113.1 | 121.2 | 182.9 | 135.8 | 129.4 | NA | 127.8 | 122.0 | 127.1 | 110.0 | 124.1 | 99.9 | 149.5 | 108.6 |
| 1999 | 133.7 | 116.0 | 126.7 | 202.3 | 143.1 | 128.8 | NA | 133.0 | 121.3 | NA | 109.7 | 127.0 | 103.6 | 162.7 | 113.4 |
| 2000 | 142.1 | 118.4 | 135.9 | 217.8 | 150.6 | 133.2 | NA | 143.4 | 126.7 | NA | 112.7 | 132.7 | 106.6 | 181.0 | 120.1 |
| 2001 | 142.7 | 116.1 | 133.8 | 216.1 | 160.1 | 134.9 | NA | 149.3 | 128.4 | NA | 114.6 | 132.3 | 108.9 | 182.6 | 123.2 |
| 2002 | 151.9 | 117.9 | 140.7 | 231.7 | 170.9 | 143.4 | NA | 153.3 | 131.4 | NA | 113.0 | 133.1 | 110.9 | 196.5 | 123.7 |

NA: Not Available

Note: The data relate to employees (wage and salary earners) in Belgium, Denmark, Italy, and Taiwan and to all employed persons (employees and self-employed workers) in the other countries.

** See note on Germany in box on page 4.

Source: U.S. Department of Labor, Bureau of Labor Statistics, September 2003.

Table 2. Output per employed person in manufacturing, 14 countries or areas, 1950-2002
(Indexes: 1992=100)

| Year | United States | Canada | Japan | Korea | Taiwan | Belgium | Denmark | France | Germany** | Former West Germany** | Italy | Netherlands | Norway | Sweden | United Kingdom |
|------|---------------|--------|-------|-------|--------|---------|---------|--------|-----------|-----------------------|-------|-------------|--------|--------|----------------|
| 1950 | NA | 28.3 | NA | NA | NA | NA | 29.9 | 14.6 | NA | 19.2 | 14.2 | 14.8 | 32.8 | 25.3 | 30.2 |
| 1955 | NA | 33.4 | 10.3 | NA | NA | NA | 31.9 | 18.3 | NA | 28.8 | 20.3 | 19.0 | 38.2 | 27.5 | 33.0 |
| 1960 | NA | 39.3 | 17.1 | NA | NA | 22.6 | 36.9 | 23.9 | NA | 38.4 | 25.7 | 24.7 | 47.3 | 33.3 | 36.6 |
| 1961 | NA | 41.3 | 19.1 | NA | NA | 22.9 | 37.8 | 25.5 | NA | 39.6 | 27.5 | 25.0 | 48.3 | 34.7 | 36.2 |
| 1962 | NA | 44.6 | 19.6 | NA | NA | 24.1 | 40.1 | 27.1 | NA | 41.3 | 29.5 | 25.8 | 48.1 | 37.1 | 36.6 |
| 1963 | NA | 46.6 | 21.0 | NA | NA | 25.0 | 40.7 | 28.6 | NA | 42.4 | 30.4 | 26.7 | 50.4 | 38.9 | 38.6 |
| 1964 | NA | 48.7 | 23.7 | NA | NA | 26.5 | 44.4 | 30.7 | NA | 46.1 | 30.7 | 28.9 | 53.5 | 41.8 | 41.5 |
| 1965 | NA | 51.1 | 24.3 | NA | NA | 27.4 | 46.5 | 32.5 | NA | 48.7 | 33.1 | 30.8 | 55.4 | 44.5 | 42.1 |
| 1966 | NA | 51.6 | 26.8 | NA | NA | 29.1 | 48.0 | 35.3 | NA | 50.0 | 36.4 | 32.6 | 57.9 | 46.4 | 42.7 |
| 1967 | NA | 52.2 | 30.4 | NA | NA | 30.3 | 51.1 | 37.1 | NA | 51.7 | 38.7 | 34.9 | 59.5 | 49.5 | 44.4 |
| 1968 | NA | 55.0 | 33.9 | NA | NA | 33.0 | 53.5 | 39.9 | NA | 56.6 | 41.8 | 38.5 | 61.6 | 52.9 | 48.1 |
| 1969 | NA | 57.5 | 38.3 | NA | NA | 35.7 | 55.7 | 43.4 | NA | 60.7 | 43.0 | 41.7 | 65.8 | 56.1 | 49.3 |
| 1970 | NA | 56.7 | 42.6 | NA | NA | 38.3 | 57.0 | 45.5 | NA | 62.4 | 44.9 | 44.7 | 67.3 | 57.4 | 49.5 |
| 1971 | NA | 59.9 | 44.5 | NA | NA | 40.2 | 60.7 | 47.7 | NA | 63.4 | 44.3 | 46.9 | 68.6 | 59.8 | 50.8 |
| 1972 | NA | 63.1 | 48.5 | NA | NA | 43.9 | 64.7 | 49.4 | NA | 66.6 | 46.8 | 50.0 | 71.1 | 61.1 | 53.1 |
| 1973 | NA | 66.6 | 52.4 | NA | 36.9 | 47.6 | 67.5 | 52.1 | NA | 70.4 | 51.7 | 54.3 | 74.9 | 64.4 | 57.7 |
| 1974 | NA | 67.1 | 51.5 | NA | 34.4 | 48.7 | 70.8 | 52.5 | NA | 71.4 | 52.9 | 56.5 | 76.7 | 66.5 | 56.7 |
| 1975 | NA | 63.5 | 51.8 | NA | 37.1 | 48.0 | 74.2 | 52.8 | NA | 72.5 | 49.1 | 54.7 | 75.6 | 66.2 | 55.3 |
| 1976 | NA | 69.0 | 56.5 | NA | 40.5 | 53.8 | 78.6 | 56.2 | NA | 79.9 | 56.2 | 60.5 | 75.3 | 66.4 | 58.2 |
| 1977 | 67.1 | 72.6 | 58.9 | NA | 42.6 | 56.1 | 80.9 | 59.0 | NA | 81.1 | 57.7 | 65.1 | 75.2 | 64.9 | 59.2 |
| 1978 | 67.9 | 74.5 | 61.5 | NA | 47.5 | 59.4 | 82.3 | 61.1 | NA | 82.8 | 60.6 | 67.3 | 75.0 | 64.9 | 59.8 |
| 1979 | 68.4 | 74.2 | 67.0 | NA | 49.2 | 62.6 | 86.1 | 63.2 | NA | 86.0 | 65.8 | 69.4 | 79.1 | 69.0 | 60.0 |
| 1980 | 67.9 | 72.6 | 68.0 | NA | 52.1 | 65.6 | 89.6 | 65.4 | NA | 83.5 | 68.9 | 71.6 | 78.2 | 69.3 | 57.6 |
| 1981 | 71.4 | 75.4 | 69.7 | NA | 54.9 | 68.7 | 89.6 | 68.2 | NA | 84.1 | 68.4 | 74.6 | 78.0 | 69.3 | 59.3 |
| 1982 | 72.1 | 75.4 | 72.3 | NA | 56.2 | 73.7 | 92.1 | 70.3 | NA | 83.7 | 68.5 | 76.0 | 80.6 | 72.1 | 62.9 |
| 1983 | 77.8 | 81.2 | 73.4 | NA | 59.8 | 79.2 | 98.7 | 73.6 | NA | 87.9 | 70.0 | 81.7 | 83.7 | 78.3 | 67.8 |
| 1984 | 82.0 | 87.9 | 76.6 | NA | 61.9 | 82.5 | 99.3 | 76.0 | NA | 90.9 | 75.9 | 88.6 | 88.6 | 84.0 | 71.4 |
| 1985 | 84.9 | 90.7 | 82.1 | 60.7 | 62.0 | 85.7 | 97.5 | 79.7 | NA | 93.1 | 80.2 | 89.5 | 91.1 | 84.4 | 73.8 |
| 1986 | 84.8 | 87.7 | 81.2 | 66.3 | 69.0 | 86.5 | 95.6 | 82.5 | NA | 93.0 | 83.1 | 90.3 | 89.9 | 85.3 | 76.5 |
| 1987 | 92.1 | 88.6 | 86.0 | 70.0 | 75.4 | 88.4 | 93.2 | 84.5 | NA | 91.3 | 86.9 | 90.6 | 92.0 | 88.0 | 80.9 |
| 1988 | 96.9 | 92.3 | 90.9 | 74.2 | 78.2 | 93.0 | 95.9 | 89.4 | NA | 94.4 | 92.0 | 93.2 | 91.6 | 89.1 | 85.9 |
| 1989 | 95.7 | 93.2 | 94.8 | 76.0 | 83.8 | 97.5 | 100.8 | 93.1 | NA | 96.2 | 94.7 | 96.8 | 94.6 | 91.5 | 89.0 |
| 1990 | 96.3 | 93.6 | 99.7 | 83.2 | 88.8 | 98.5 | 98.5 | 94.2 | NA | 98.8 | 95.0 | 99.0 | 96.4 | 93.9 | 91.3 |
| 1991 | 96.6 | 95.1 | 102.2 | 92.7 | 96.6 | 99.2 | 99.1 | 96.5 | 94.7 | 101.0 | 96.0 | 99.1 | 97.2 | 94.7 | 93.8 |
| 1992 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1993 | 103.4 | 106.9 | 99.6 | 108.3 | 102.9 | 100.9 | 98.5 | 100.6 | 99.4 | 97.6 | 99.8 | 101.9 | 99.9 | 110.0 | 105.1 |
| 1994 | 109.7 | 113.0 | 101.4 | 119.0 | 107.0 | 109.7 | 110.2 | 108.2 | 107.8 | 104.7 | 106.9 | 113.1 | 100.1 | 126.4 | 109.3 |
| 1995 | 115.6 | 114.1 | 109.7 | 130.5 | 114.9 | 113.3 | 113.7 | 113.0 | 110.5 | 107.3 | 112.2 | 117.5 | 100.3 | 134.5 | 108.5 |
| 1996 | 118.7 | 112.2 | 115.4 | 141.7 | 122.7 | 117.9 | 108.6 | 113.8 | 110.3 | 109.3 | 110.9 | 119.5 | 101.5 | 139.6 | 107.9 |
| 1997 | 123.9 | 116.0 | 119.6 | 160.1 | 129.2 | 127.8 | 118.1 | 120.7 | 115.9 | 116.0 | 114.2 | 121.0 | 100.8 | 151.6 | 109.2 |
| 1998 | 128.1 | 116.2 | 117.3 | 172.2 | 133.2 | 130.4 | 117.3 | 126.4 | 117.9 | 122.3 | 113.5 | 123.5 | 99.1 | 160.8 | 110.3 |
| 1999 | 136.3 | 120.4 | 122.5 | 205.7 | 141.2 | 133.1 | 121.2 | 130.8 | 116.7 | NA | 113.7 | 126.4 | 103.1 | 176.0 | 114.3 |
| 2000 | 143.6 | 122.7 | 133.6 | 218.5 | 148.4 | 137.7 | 127.6 | 136.2 | 120.7 | NA | 117.3 | 131.9 | 104.9 | 194.9 | 120.7 |
| 2001 | 141.6 | 119.1 | 130.5 | 212.1 | 146.5 | 137.9 | 134.7 | 138.7 | 120.9 | NA | 118.2 | 131.4 | 107.0 | 193.9 | 123.3 |
| 2002 | 150.3 | 121.4 | 137.2 | 225.9 | 158.9 | 143.1 | 140.5 | 141.2 | 123.1 | NA | 116.2 | 132.1 | 107.5 | 205.4 | 124.7 |

NA: Not Available

Note: The data relate to employees (wage and salary earners) in Belgium, Denmark, Italy, and Taiwan and to all employed persons (employees and self-employed workers) in the other countries.

** See note on Germany in box on page 4.

Source: U.S. Department of Labor, Bureau of Labor Statistics, September 2003.

Table 3. Output in manufacturing, 14 countries or areas, 1950-2002
(Indexes: 1992=100)

| Year | United States | Canada | Japan | Korea | Taiwan | Belgium | Denmark | France | Germany** | Former West Germany** | Italy | Netherlands | Norway | Sweden | United Kingdom |
|------|---------------|--------|-------|-------|--------|---------|---------|--------|-----------|-----------------------|-------|-------------|--------|--------|----------------|
| 1950 | NA | 22.0 | 2.2 | NA | NA | NA | 29.1 | 16.6 | NA | 14.5 | 10.1 | 16.9 | 39.0 | 30.9 | 49.6 |
| 1955 | NA | 28.5 | 4.9 | NA | NA | NA | 32.0 | 20.6 | NA | 27.5 | 15.6 | 23.1 | 47.7 | 35.7 | 58.3 |
| 1960 | NA | 33.4 | 10.7 | NA | NA | 30.7 | 44.4 | 27.9 | NA | 41.5 | 23.0 | 31.9 | 57.7 | 45.9 | 67.3 |
| 1961 | NA | 34.7 | 12.9 | NA | NA | 32.1 | 46.8 | 30.0 | NA | 44.0 | 25.4 | 33.0 | 60.1 | 49.0 | 67.6 |
| 1962 | NA | 38.6 | 14.0 | NA | NA | 34.6 | 50.8 | 32.1 | NA | 46.2 | 28.1 | 34.6 | 60.6 | 52.8 | 67.7 |
| 1963 | NA | 41.2 | 15.6 | NA | NA | 36.2 | 51.4 | 34.6 | NA | 47.1 | 29.9 | 36.1 | 64.2 | 55.4 | 70.2 |
| 1964 | NA | 45.1 | 18.1 | NA | NA | 39.5 | 57.5 | 37.8 | NA | 51.2 | 30.3 | 39.5 | 68.8 | 60.3 | 76.5 |
| 1965 | NA | 49.5 | 18.8 | NA | NA | 40.8 | 61.3 | 39.7 | NA | 55.0 | 31.9 | 42.2 | 72.4 | 64.5 | 78.7 |
| 1966 | NA | 52.9 | 21.3 | NA | NA | 43.2 | 62.6 | 43.3 | NA | 55.9 | 34.8 | 44.5 | 76.7 | 66.3 | 80.1 |
| 1967 | NA | 53.9 | 25.6 | NA | NA | 43.7 | 63.7 | 45.4 | NA | 54.7 | 38.3 | 46.3 | 79.2 | 68.5 | 80.6 |
| 1968 | NA | 57.0 | 29.5 | NA | NA | 46.7 | 67.3 | 47.9 | NA | 60.3 | 41.8 | 50.7 | 81.1 | 72.0 | 86.6 |
| 1969 | NA | 60.7 | 34.4 | NA | NA | 52.2 | 71.8 | 53.7 | NA | 67.4 | 44.5 | 55.5 | 87.0 | 77.7 | 89.9 |
| 1970 | NA | 58.9 | 39.2 | 7.0 | 12.7 | 57.6 | 73.9 | 57.7 | NA | 70.9 | 48.1 | 59.8 | 91.0 | 80.7 | 90.2 |
| 1971 | NA | 62.5 | 41.0 | 8.3 | 15.5 | 60.1 | 75.1 | 61.3 | NA | 71.6 | 48.8 | 61.8 | 93.4 | 81.2 | 89.3 |
| 1972 | NA | 67.9 | 44.7 | 9.5 | 18.9 | 64.7 | 81.5 | 64.2 | NA | 73.8 | 51.5 | 63.4 | 97.7 | 81.7 | 91.2 |
| 1973 | NA | 74.9 | 50.4 | 12.3 | 22.3 | 70.6 | 85.5 | 69.1 | NA | 78.5 | 58.1 | 68.0 | 103.3 | 87.5 | 99.7 |
| 1974 | NA | 76.5 | 49.1 | 14.3 | 21.0 | 73.4 | 85.9 | 70.4 | NA | 77.7 | 61.8 | 70.5 | 106.9 | 92.2 | 98.4 |
| 1975 | NA | 70.4 | 46.6 | 16.2 | 22.0 | 67.9 | 82.1 | 69.0 | NA | 74.1 | 58.3 | 65.9 | 104.5 | 92.5 | 91.6 |
| 1976 | NA | 76.4 | 50.6 | 19.9 | 27.0 | 73.0 | 86.8 | 73.0 | NA | 79.8 | 66.9 | 69.9 | 104.0 | 92.5 | 93.3 |
| 1977 | 72.5 | 78.8 | 52.2 | 22.8 | 30.6 | 73.3 | 88.2 | 76.4 | NA | 81.3 | 69.3 | 73.4 | 104.0 | 87.2 | 95.2 |
| 1978 | 76.5 | 83.2 | 53.7 | 27.5 | 37.1 | 74.3 | 88.8 | 78.1 | NA | 82.8 | 72.7 | 74.1 | 101.9 | 84.9 | 95.7 |
| 1979 | 79.0 | 85.9 | 58.4 | 30.1 | 40.0 | 76.2 | 92.8 | 79.6 | NA | 87.1 | 80.3 | 75.6 | 106.0 | 90.3 | 95.5 |
| 1980 | 75.8 | 83.6 | 60.4 | 29.9 | 44.0 | 78.2 | 94.4 | 81.6 | NA | 85.3 | 84.4 | 76.9 | 104.9 | 90.7 | 87.2 |
| 1981 | 79.2 | 86.6 | 62.6 | 32.7 | 47.3 | 77.2 | 90.4 | 82.2 | NA | 84.4 | 81.8 | 78.0 | 103.0 | 88.0 | 81.8 |
| 1982 | 74.6 | 78.7 | 64.6 | 34.6 | 48.5 | 80.4 | 92.1 | 83.4 | NA | 81.5 | 80.2 | 76.4 | 102.5 | 88.3 | 81.7 |
| 1983 | 79.2 | 82.5 | 66.6 | 39.5 | 54.1 | 84.6 | 98.0 | 85.5 | NA | 82.7 | 79.6 | 78.3 | 101.1 | 93.9 | 83.5 |
| 1984 | 87.6 | 91.8 | 71.0 | 46.0 | 62.2 | 87.2 | 103.0 | 85.7 | NA | 85.2 | 82.2 | 83.0 | 106.0 | 101.3 | 86.5 |
| 1985 | 90.0 | 96.9 | 76.7 | 48.8 | 64.3 | 89.1 | 106.1 | 87.5 | NA | 88.3 | 84.9 | 85.0 | 109.8 | 102.9 | 89.0 |
| 1986 | 88.6 | 96.8 | 75.5 | 57.9 | 74.7 | 89.1 | 106.9 | 89.0 | NA | 89.7 | 86.4 | 86.7 | 109.5 | 104.0 | 90.2 |
| 1987 | 96.4 | 100.7 | 79.0 | 68.5 | 84.3 | 88.8 | 101.8 | 89.1 | NA | 88.0 | 89.0 | 87.9 | 112.0 | 106.6 | 94.5 |
| 1988 | 103.2 | 108.5 | 85.3 | 76.7 | 87.7 | 93.3 | 100.9 | 93.2 | NA | 90.9 | 95.0 | 90.2 | 106.6 | 109.8 | 101.4 |
| 1989 | 102.4 | 111.3 | 90.9 | 79.4 | 90.8 | 99.1 | 105.0 | 97.7 | NA | 94.0 | 98.3 | 94.4 | 102.6 | 110.9 | 105.5 |
| 1990 | 101.6 | 106.0 | 97.1 | 86.7 | 90.0 | 101.0 | 102.8 | 99.1 | NA | 99.1 | 99.4 | 99.0 | 101.4 | 110.1 | 105.4 |
| 1991 | 98.3 | 99.0 | 102.0 | 95.0 | 96.1 | 100.7 | 101.5 | 99.8 | 102.3 | 102.8 | 99.3 | 99.8 | 99.0 | 104.1 | 100.0 |
| 1992 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1993 | 103.5 | 105.9 | 96.3 | 105.4 | 102.4 | 97.0 | 95.6 | 95.7 | 92.4 | 91.8 | 96.5 | 97.7 | 101.7 | 101.9 | 101.4 |
| 1994 | 111.1 | 114.1 | 94.9 | 116.8 | 108.5 | 101.4 | 105.6 | 100.3 | 95.1 | 93.5 | 102.4 | 104.5 | 104.6 | 117.0 | 106.1 |
| 1995 | 118.4 | 119.6 | 98.9 | 129.9 | 114.9 | 104.2 | 111.6 | 104.9 | 95.2 | 93.7 | 107.2 | 108.2 | 107.3 | 131.9 | 107.8 |
| 1996 | 121.3 | 119.6 | 103.0 | 138.7 | 120.3 | 106.7 | 106.7 | 104.6 | 92.5 | 92.5 | 105.4 | 108.9 | 110.3 | 136.4 | 108.5 |
| 1997 | 127.9 | 127.7 | 106.5 | 147.8 | 128.3 | 114.0 | 115.2 | 109.7 | 95.7 | 95.8 | 108.8 | 111.6 | 114.2 | 146.5 | 109.9 |
| 1998 | 133.1 | 132.8 | 100.2 | 136.8 | 132.6 | 116.5 | 115.7 | 115.0 | 97.7 | 100.7 | 110.7 | 114.9 | 113.7 | 158.3 | 110.8 |
| 1999 | 139.5 | 141.0 | 101.9 | 165.6 | 141.5 | 117.3 | 117.7 | 118.7 | 95.7 | NA | 110.3 | 117.6 | 113.6 | 172.5 | 111.1 |
| 2000 | 146.1 | 148.8 | 109.2 | 191.9 | 151.8 | 122.0 | 122.1 | 124.3 | 99.8 | NA | 113.7 | 122.8 | 112.8 | 191.1 | 113.4 |
| 2001 | 137.3 | 143.9 | 103.9 | 195.9 | 143.1 | 122.3 | 127.5 | 128.0 | 100.4 | NA | 114.6 | 121.7 | 113.4 | 188.2 | 110.7 |
| 2002 | 135.9 | 147.6 | 102.3 | 208.3 | 152.5 | 122.9 | 128.0 | 128.1 | 100.0 | NA | 113.8 | 119.7 | 112.6 | 193.7 | 106.3 |

NA: Not Available

** See note on Germany in box on page 4.

Source: U.S. Department of Labor, Bureau of Labor Statistics, September 2003.

Table 4. Total hours in manufacturing, 14 countries or areas, 1950-2002
(Indexes: 1992=100)

| Year | United States | Canada | Japan | Korea | Taiwan | Belgium | Denmark | France | Germany** | Former West Germany** | Italy | Netherlands | Norway | Sweden | United Kingdom |
|------|---------------|--------|-------|-------|--------|---------|---------|--------|-----------|-----------------------|-------|-------------|--------|--------|----------------|
| 1950 | 85.5 | 84.8 | NA | NA | NA | NA | 137.3 | 136.7 | NA | 109.8 | 75.0 | 147.9 | 155.6 | 158.5 | 202.2 |
| 1955 | 94.6 | 89.4 | 57.0 | NA | NA | NA | 138.5 | 135.5 | NA | 139.6 | 83.1 | 158.3 | 163.7 | 167.3 | 220.2 |
| 1960 | 92.1 | 88.3 | 77.8 | NA | NA | 170.7 | 157.8 | 140.5 | NA | 142.3 | 97.6 | 169.8 | 153.6 | 168.3 | 224.6 |
| 1961 | 89.7 | 87.2 | 82.4 | NA | NA | 175.9 | 157.5 | 142.1 | NA | 143.9 | 99.6 | 166.3 | 154.5 | 171.0 | 224.7 |
| 1962 | 93.4 | 90.3 | 85.1 | NA | NA | 180.3 | 162.7 | 143.2 | NA | 140.8 | 99.5 | 168.4 | 155.8 | 170.8 | 220.3 |
| 1963 | 94.4 | 92.6 | 87.9 | NA | NA | 181.8 | 159.6 | 146.5 | NA | 138.1 | 103.2 | 168.7 | 156.9 | 169.1 | 216.6 |
| 1964 | 96.4 | 97.2 | 90.0 | NA | NA | 186.5 | 164.9 | 148.3 | NA | 138.0 | 103.5 | 169.1 | 159.2 | 169.6 | 221.7 |
| 1965 | 102.0 | 101.9 | 89.8 | NA | NA | 183.2 | 167.5 | 145.5 | NA | 140.0 | 97.7 | 169.5 | 158.1 | 168.8 | 221.5 |
| 1966 | 108.6 | 106.8 | 92.8 | NA | NA | 181.5 | 162.8 | 147.0 | NA | 136.7 | 98.2 | 167.5 | 160.8 | 166.5 | 218.2 |
| 1967 | 108.0 | 107.9 | 98.3 | NA | NA | 173.6 | 153.8 | 145.0 | NA | 125.9 | 102.8 | 161.9 | 160.1 | 158.4 | 209.8 |
| 1968 | 109.6 | 108.2 | 101.4 | NA | NA | 170.9 | 151.7 | 138.5 | NA | 128.3 | 104.2 | 158.0 | 154.6 | 152.6 | 209.6 |
| 1969 | 110.9 | 109.7 | 103.0 | NA | NA | 174.9 | 153.6 | 146.0 | NA | 133.8 | 107.0 | 157.7 | 151.7 | 152.5 | 212.4 |
| 1970 | 104.4 | 107.1 | 104.4 | NA | NA | 174.7 | 149.5 | 148.0 | NA | 136.3 | 108.5 | 155.5 | 153.9 | 154.7 | 208.8 |
| 1971 | 100.5 | 107.4 | 103.1 | NA | NA | 171.4 | 142.1 | 148.7 | NA | 132.5 | 108.4 | 151.6 | 153.4 | 149.1 | 196.9 |
| 1972 | 105.1 | 110.8 | 102.6 | NA | NA | 165.2 | 141.4 | 148.9 | NA | 128.7 | 107.7 | 144.2 | 152.6 | 142.9 | 190.5 |
| 1973 | 110.4 | 114.9 | 106.0 | NA | 67.4 | 162.1 | 134.8 | 149.7 | NA | 128.4 | 111.4 | 139.5 | 152.1 | 142.5 | 194.1 |
| 1974 | 107.9 | 115.5 | 100.6 | NA | 65.6 | 160.4 | 131.7 | 149.3 | NA | 122.9 | 111.8 | 134.7 | 151.5 | 144.0 | 188.5 |
| 1975 | 97.2 | 111.1 | 92.8 | NA | 65.1 | 142.6 | 116.3 | 141.3 | NA | 112.5 | 111.4 | 127.6 | 149.6 | 142.3 | 179.3 |
| 1976 | 101.9 | 111.1 | 95.0 | NA | 73.7 | 139.4 | 116.7 | 141.0 | NA | 113.1 | 111.9 | 122.1 | 145.5 | 140.2 | 175.1 |
| 1977 | 106.1 | 108.8 | 94.4 | NA | 79.3 | 133.3 | 114.1 | 139.2 | NA | 111.8 | 112.3 | 118.6 | 143.2 | 134.2 | 176.9 |
| 1978 | 110.6 | 112.8 | 93.3 | NA | 85.5 | 127.4 | 111.5 | 136.3 | NA | 110.1 | 112.0 | 114.7 | 137.9 | 127.1 | 175.4 |
| 1979 | 112.7 | 116.2 | 93.8 | NA | 88.7 | 124.2 | 111.3 | 134.2 | NA | 111.0 | 112.9 | 112.1 | 133.7 | 125.5 | 173.7 |
| 1980 | 107.5 | 114.6 | 95.6 | NA | 92.3 | 119.7 | 109.6 | 132.7 | NA | 110.5 | 113.8 | 111.2 | 134.7 | 124.0 | 160.5 |
| 1981 | 107.0 | 113.2 | 95.9 | NA | 89.7 | 110.2 | 103.6 | 126.4 | NA | 107.1 | 111.0 | 108.9 | 132.7 | 121.0 | 143.3 |
| 1982 | 97.9 | 102.0 | 95.1 | NA | 89.6 | 109.4 | 104.1 | 119.7 | NA | 103.4 | 108.4 | 105.7 | 126.8 | 117.2 | 135.6 |
| 1983 | 98.9 | 100.7 | 96.8 | NA | 94.0 | 104.3 | 104.9 | 116.5 | NA | 100.1 | 105.3 | 101.0 | 120.9 | 116.1 | 128.4 |
| 1984 | 105.3 | 103.4 | 99.8 | NA | 105.2 | 102.6 | 109.2 | 113.2 | NA | 99.7 | 100.3 | 97.3 | 119.4 | 118.9 | 126.4 |
| 1985 | 104.6 | 106.4 | 100.3 | 88.8 | 105.5 | 102.4 | 110.7 | 109.7 | NA | 99.1 | 97.1 | 96.1 | 119.9 | 119.4 | 125.2 |
| 1986 | 103.0 | 110.5 | 99.2 | 98.3 | 112.2 | 101.5 | 116.4 | 108.0 | NA | 100.1 | 98.3 | 96.7 | 121.2 | 118.9 | 122.0 |
| 1987 | 103.8 | 114.7 | 98.5 | 108.3 | 115.8 | 100.0 | 111.2 | 106.1 | NA | 99.9 | 99.7 | 97.2 | 118.3 | 119.5 | 121.0 |
| 1988 | 106.6 | 121.2 | 101.7 | 111.6 | 114.8 | 101.5 | 107.2 | 105.4 | NA | 99.3 | 101.2 | 97.7 | 114.0 | 121.4 | 122.8 |
| 1989 | 107.1 | 120.2 | 102.7 | 108.5 | 109.2 | 102.3 | 104.7 | 106.0 | NA | 99.3 | 103.0 | 97.9 | 106.8 | 119.0 | 122.4 |
| 1990 | 104.8 | 113.5 | 102.9 | 106.6 | 101.3 | 104.3 | 103.7 | 105.7 | NA | 100.1 | 103.7 | 100.3 | 103.4 | 116.4 | 118.1 |
| 1991 | 100.4 | 103.9 | 103.1 | 103.9 | 99.5 | 101.5 | 102.1 | 102.9 | 104.1 | 100.9 | 103.6 | 100.8 | 100.8 | 109.0 | 106.6 |
| 1992 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1993 | 101.4 | 100.1 | 94.7 | 97.5 | 99.6 | 94.7 | 96.2 | 95.0 | 90.8 | 91.3 | 95.2 | 95.8 | 102.1 | 94.9 | 97.3 |
| 1994 | 103.6 | 103.0 | 91.9 | 98.9 | 101.6 | 93.6 | NA | 92.7 | 86.8 | 86.7 | 97.6 | 92.4 | 105.0 | 99.4 | 97.9 |
| 1995 | 104.0 | 106.4 | 89.1 | 100.6 | 99.8 | 92.0 | NA | 92.2 | 84.8 | 84.3 | 99.3 | 92.3 | 106.6 | 105.9 | 101.2 |
| 1996 | 103.6 | 109.0 | 88.7 | 97.3 | 97.7 | 91.0 | NA | 91.3 | 80.6 | 80.4 | 97.5 | 91.2 | 107.6 | 105.3 | 102.8 |
| 1997 | 105.4 | 112.4 | 88.0 | 90.5 | 99.3 | 89.7 | NA | 90.1 | 79.5 | 78.6 | 99.0 | 91.9 | 112.0 | 103.9 | 102.8 |
| 1998 | 105.2 | 117.5 | 82.7 | 74.8 | 97.7 | 90.0 | NA | 90.0 | 80.1 | 79.3 | 100.6 | 92.6 | 113.7 | 105.9 | 102.0 |
| 1999 | 104.4 | 121.5 | 80.4 | 81.9 | 98.9 | 91.0 | NA | 89.2 | 78.9 | NA | 100.5 | 92.6 | 109.6 | 106.0 | 98.0 |
| 2000 | 102.8 | 125.6 | 80.3 | 88.1 | 100.8 | 91.6 | NA | 86.7 | 78.8 | NA | 100.8 | 92.5 | 105.9 | 105.6 | 94.4 |
| 2001 | 96.3 | 123.9 | 77.7 | 90.7 | 89.4 | 90.7 | NA | 85.8 | 78.2 | NA | 100.0 | 91.9 | 104.1 | 103.1 | 89.8 |
| 2002 | 89.5 | 125.2 | 72.7 | 89.9 | 89.3 | 85.7 | NA | 83.6 | 76.1 | NA | 100.7 | 89.9 | 101.6 | 98.6 | 85.9 |

NA: Not Available

Note: The data relate to employees (wage and salary earners) in Belgium, Denmark, Italy, and Taiwan and to all employed persons (employees and self-employed workers) in the other countries.

** See note on Germany in box on page 4.

Source: U.S. Department of Labor, Bureau of Labor Statistics, September 2003.

Table 5. Employment in manufacturing, 14 countries or areas, 1950-2002
(Indexes: 1992=100)

| Year | United States | Canada | Japan | Korea | Taiwan | Belgium | Denmark | France | Germany** | Former West Germany** | Italy | Netherlands | Norway | Sweden | United Kingdom |
|------|---------------|--------|-------|-------|--------|---------|---------|--------|-----------|-----------------------|-------|-------------|--------|--------|----------------|
| 1950 | 84.3 | 77.9 | NA | NA | NA | NA | 97.5 | 113.3 | NA | 75.2 | 71.4 | 113.6 | 119.0 | 122.0 | 164.2 |
| 1955 | 93.1 | 85.3 | 47.8 | NA | NA | NA | 100.2 | 112.9 | NA | 95.5 | 77.1 | 121.3 | 124.9 | 129.7 | 176.6 |
| 1960 | 92.6 | 84.8 | 62.8 | NA | NA | 135.7 | 120.3 | 116.5 | NA | 108.1 | 89.5 | 128.8 | 121.9 | 137.8 | 183.9 |
| 1961 | 90.0 | 84.1 | 67.5 | NA | NA | 140.1 | 123.7 | 117.3 | NA | 111.3 | 92.4 | 131.7 | 124.5 | 141.3 | 186.4 |
| 1962 | 92.8 | 86.5 | 71.3 | NA | NA | 143.3 | 126.8 | 118.5 | NA | 111.8 | 95.3 | 134.2 | 126.0 | 142.2 | 184.7 |
| 1963 | 93.5 | 88.5 | 74.1 | NA | NA | 144.7 | 126.4 | 121.0 | NA | 111.0 | 98.3 | 134.9 | 127.4 | 142.4 | 181.8 |
| 1964 | 94.9 | 92.5 | 76.4 | NA | NA | 148.8 | 129.5 | 123.3 | NA | 111.0 | 98.6 | 136.5 | 128.5 | 144.3 | 184.5 |
| 1965 | 99.3 | 96.9 | 77.4 | NA | NA | 148.7 | 131.7 | 122.1 | NA | 113.0 | 96.3 | 137.3 | 130.6 | 144.8 | 187.0 |
| 1966 | 105.4 | 102.4 | 79.7 | NA | NA | 148.5 | 130.4 | 122.7 | NA | 111.8 | 95.7 | 136.4 | 132.4 | 143.0 | 187.5 |
| 1967 | 106.7 | 103.3 | 84.3 | NA | NA | 143.9 | 124.6 | 122.2 | NA | 105.8 | 98.8 | 132.4 | 133.2 | 138.3 | 181.7 |
| 1968 | 108.5 | 103.8 | 87.2 | NA | NA | 141.5 | 125.7 | 120.1 | NA | 106.6 | 100.2 | 131.5 | 131.7 | 136.0 | 180.0 |
| 1969 | 110.6 | 105.7 | 89.7 | NA | NA | 146.3 | 129.0 | 123.6 | NA | 111.0 | 103.6 | 133.2 | 132.3 | 138.4 | 182.4 |
| 1970 | 106.3 | 103.9 | 91.9 | NA | NA | 150.2 | 129.7 | 126.8 | NA | 113.6 | 107.0 | 133.7 | 135.3 | 140.6 | 182.1 |
| 1971 | 102.2 | 104.4 | 92.3 | NA | NA | 149.6 | 123.6 | 128.4 | NA | 112.9 | 109.9 | 131.7 | 136.1 | 135.9 | 175.9 |
| 1972 | 105.0 | 107.7 | 92.3 | NA | NA | 147.4 | 125.8 | 129.9 | NA | 110.8 | 110.0 | 127.0 | 137.5 | 133.8 | 171.8 |
| 1973 | 110.5 | 112.5 | 96.2 | NA | 60.3 | 148.4 | 126.6 | 132.7 | NA | 111.5 | 112.4 | 125.3 | 137.8 | 135.8 | 172.8 |
| 1974 | 110.1 | 113.9 | 95.3 | NA | 61.2 | 150.7 | 121.4 | 134.1 | NA | 108.9 | 116.9 | 124.9 | 139.3 | 138.7 | 173.4 |
| 1975 | 100.6 | 110.9 | 90.0 | NA | 59.3 | 141.5 | 110.6 | 130.8 | NA | 102.2 | 118.5 | 120.6 | 138.3 | 139.8 | 165.5 |
| 1976 | 104.2 | 110.7 | 89.5 | NA | 66.7 | 135.8 | 110.5 | 130.0 | NA | 99.9 | 119.1 | 115.6 | 138.1 | 139.4 | 160.2 |
| 1977 | 108.2 | 108.5 | 88.6 | NA | 71.9 | 130.5 | 109.1 | 129.5 | NA | 100.3 | 120.1 | 112.7 | 138.3 | 134.5 | 160.8 |
| 1978 | 112.7 | 111.7 | 87.4 | NA | 78.1 | 125.0 | 107.8 | 128.0 | NA | 100.0 | 120.0 | 110.1 | 135.8 | 130.7 | 160.1 |
| 1979 | 115.6 | 115.7 | 87.2 | NA | 81.4 | 121.8 | 107.8 | 126.0 | NA | 101.2 | 121.9 | 108.9 | 134.0 | 131.0 | 159.2 |
| 1980 | 111.6 | 115.1 | 88.9 | NA | 84.4 | 119.3 | 105.4 | 124.7 | NA | 102.2 | 122.6 | 107.4 | 134.2 | 130.9 | 151.4 |
| 1981 | 111.0 | 114.8 | 89.8 | NA | 86.2 | 112.4 | 100.9 | 120.5 | NA | 100.3 | 119.6 | 104.6 | 132.0 | 127.0 | 137.9 |
| 1982 | 103.5 | 104.3 | 89.3 | NA | 86.3 | 109.2 | 99.9 | 118.7 | NA | 97.4 | 117.1 | 100.5 | 127.3 | 122.4 | 129.8 |
| 1983 | 101.8 | 101.6 | 90.8 | NA | 90.5 | 106.8 | 99.3 | 116.2 | NA | 94.1 | 113.7 | 95.9 | 120.8 | 119.9 | 123.1 |
| 1984 | 106.8 | 104.4 | 92.7 | NA | 100.4 | 105.7 | 103.7 | 112.8 | NA | 93.7 | 108.4 | 93.7 | 119.6 | 120.5 | 121.2 |
| 1985 | 106.0 | 106.8 | 93.5 | 80.3 | 103.7 | 104.0 | 108.8 | 109.9 | NA | 94.9 | 105.8 | 94.9 | 120.5 | 122.0 | 120.6 |
| 1986 | 104.5 | 110.4 | 93.0 | 87.3 | 108.4 | 103.0 | 111.8 | 107.9 | NA | 96.4 | 103.9 | 96.0 | 121.7 | 121.9 | 118.0 |
| 1987 | 104.7 | 113.7 | 91.9 | 97.9 | 111.8 | 100.5 | 109.3 | 105.4 | NA | 96.4 | 102.5 | 97.0 | 121.8 | 121.1 | 116.9 |
| 1988 | 106.6 | 117.6 | 93.9 | 103.4 | 112.2 | 100.4 | 105.3 | 104.2 | NA | 96.3 | 103.3 | 96.8 | 116.3 | 123.3 | 118.1 |
| 1989 | 107.0 | 119.4 | 95.9 | 104.4 | 108.3 | 101.7 | 104.1 | 104.9 | NA | 97.6 | 103.8 | 97.5 | 108.4 | 121.2 | 118.5 |
| 1990 | 105.4 | 113.2 | 97.5 | 104.3 | 101.4 | 102.5 | 104.3 | 105.2 | NA | 100.3 | 104.6 | 100.0 | 105.2 | 117.2 | 115.4 |
| 1991 | 101.8 | 104.1 | 99.8 | 102.5 | 99.5 | 101.5 | 102.4 | 103.5 | 108.0 | 101.8 | 103.5 | 100.7 | 101.9 | 109.9 | 106.7 |
| 1992 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1993 | 100.1 | 99.1 | 96.8 | 97.3 | 99.6 | 96.1 | 97.0 | 95.2 | 93.0 | 94.0 | 96.8 | 95.9 | 101.8 | 92.6 | 96.5 |
| 1994 | 101.3 | 100.9 | 93.6 | 98.1 | 101.4 | 92.5 | 95.8 | 92.7 | 88.2 | 89.3 | 95.8 | 92.4 | 104.5 | 92.6 | 97.1 |
| 1995 | 102.5 | 104.8 | 90.1 | 99.6 | 99.9 | 91.9 | 98.1 | 92.8 | 86.2 | 87.3 | 95.6 | 92.1 | 107.0 | 98.0 | 99.3 |
| 1996 | 102.2 | 106.6 | 89.3 | 97.9 | 98.1 | 90.5 | 98.3 | 91.9 | 83.8 | 84.6 | 95.1 | 91.1 | 108.7 | 97.7 | 100.6 |
| 1997 | 103.2 | 110.0 | 89.1 | 92.3 | 99.3 | 89.2 | 97.6 | 90.9 | 82.6 | 82.6 | 95.3 | 92.2 | 113.3 | 96.6 | 100.7 |
| 1998 | 104.0 | 114.3 | 85.5 | 79.5 | 99.6 | 89.3 | 98.6 | 91.0 | 82.9 | 82.4 | 97.5 | 93.1 | 114.7 | 98.4 | 100.4 |
| 1999 | 102.4 | 117.1 | 83.2 | 80.5 | 100.2 | 88.1 | 97.1 | 90.7 | 82.0 | NA | 97.0 | 93.1 | 110.2 | 98.0 | 97.2 |
| 2000 | 101.8 | 121.2 | 81.7 | 87.8 | 102.3 | 88.6 | 95.7 | 91.3 | 82.7 | NA | 96.9 | 93.1 | 107.5 | 98.0 | 93.9 |
| 2001 | 97.0 | 120.7 | 79.6 | 92.4 | 97.7 | 88.7 | 94.7 | 92.3 | 83.0 | NA | 96.9 | 92.6 | 106.0 | 97.0 | 89.8 |
| 2002 | 90.4 | 121.5 | 74.5 | 92.2 | 96.0 | 85.9 | 91.1 | 90.7 | 81.3 | NA | 97.9 | 90.6 | 104.8 | 94.3 | 85.2 |

NA: Not Available

Note: The data relate to employees (wage and salary earners) in Belgium, Denmark, Italy, and Taiwan and to all employed persons (employees and self-employed workers) in the other countries.

** See note on Germany in box on page 4.

Source: U.S. Department of Labor, Bureau of Labor Statistics, September 2003.

Table 6. Average annual hours in manufacturing, 14 countries or areas, 1950-2002
(Indexes: 1992=100)

| Year | United States | Canada | Japan | Korea | Taiwan | Belgium | Denmark | France | Germany** | Former West Germany** | Italy | Netherlands | Norway | Sweden | United Kingdom |
|------|---------------|--------|-------|-------|--------|---------|---------|--------|-----------|-----------------------|-------|-------------|--------|--------|----------------|
| 1950 | 101.4 | 108.8 | NA | NA | NA | NA | 140.7 | 120.7 | NA | 146.0 | 105.1 | 130.2 | 130.8 | 129.9 | 123.1 |
| 1955 | 101.5 | 104.8 | 119.3 | NA | NA | NA | 138.2 | 120.1 | NA | 146.1 | 107.8 | 130.5 | 131.1 | 129.0 | 124.7 |
| 1960 | 99.5 | 104.1 | 123.9 | NA | NA | 125.8 | 131.2 | 120.6 | NA | 131.7 | 109.0 | 131.8 | 126.0 | 122.1 | 122.2 |
| 1961 | 99.6 | 103.6 | 122.0 | NA | NA | 125.5 | 127.3 | 121.1 | NA | 129.4 | 107.8 | 126.3 | 124.1 | 121.1 | 120.5 |
| 1962 | 100.6 | 104.4 | 119.5 | NA | NA | 125.8 | 128.3 | 120.9 | NA | 126.0 | 104.4 | 125.4 | 123.7 | 120.1 | 119.3 |
| 1963 | 100.9 | 104.7 | 118.6 | NA | NA | 125.7 | 126.3 | 121.0 | NA | 124.4 | 104.9 | 125.0 | 123.1 | 118.8 | 119.2 |
| 1964 | 101.6 | 105.1 | 117.9 | NA | NA | 125.3 | 127.4 | 120.3 | NA | 124.3 | 104.9 | 123.9 | 123.9 | 117.5 | 120.1 |
| 1965 | 102.7 | 105.2 | 115.9 | NA | NA | 123.2 | 127.2 | 119.2 | NA | 123.9 | 101.4 | 123.5 | 121.1 | 116.6 | 118.4 |
| 1966 | 103.0 | 104.4 | 116.5 | NA | NA | 122.2 | 124.8 | 119.8 | NA | 122.3 | 102.6 | 122.8 | 121.4 | 116.4 | 116.4 |
| 1967 | 101.2 | 104.5 | 116.7 | NA | NA | 120.7 | 123.4 | 118.6 | NA | 119.0 | 104.0 | 122.3 | 120.2 | 114.5 | 115.5 |
| 1968 | 101.0 | 104.2 | 116.4 | NA | NA | 120.7 | 120.6 | 115.3 | NA | 120.4 | 104.0 | 120.1 | 117.4 | 112.2 | 116.4 |
| 1969 | 100.2 | 103.9 | 114.8 | NA | NA | 119.5 | 119.1 | 118.1 | NA | 120.6 | 103.3 | 118.4 | 114.7 | 110.2 | 116.4 |
| 1970 | 98.2 | 103.2 | 113.6 | NA | NA | 116.3 | 115.3 | 116.7 | NA | 119.9 | 101.4 | 116.2 | 113.8 | 110.0 | 114.7 |
| 1971 | 98.4 | 102.8 | 111.8 | NA | NA | 114.6 | 114.9 | 115.8 | NA | 117.3 | 98.6 | 115.1 | 112.7 | 109.7 | 111.9 |
| 1972 | 100.0 | 102.9 | 111.1 | NA | NA | 112.0 | 112.4 | 114.6 | NA | 116.2 | 97.9 | 113.5 | 111.0 | 106.8 | 110.9 |
| 1973 | 99.9 | 102.1 | 110.1 | NA | 111.7 | 109.3 | 106.4 | 112.8 | NA | 115.2 | 99.1 | 111.3 | 110.3 | 104.9 | 112.3 |
| 1974 | 98.0 | 101.5 | 105.6 | NA | 107.3 | 106.4 | 108.5 | 111.3 | NA | 112.9 | 95.6 | 107.9 | 108.8 | 103.8 | 108.7 |
| 1975 | 96.6 | 100.2 | 103.2 | NA | 109.9 | 100.7 | 105.1 | 108.1 | NA | 110.1 | 94.0 | 105.9 | 108.1 | 101.8 | 108.4 |
| 1976 | 97.7 | 100.3 | 106.2 | NA | 110.5 | 102.6 | 105.6 | 108.4 | NA | 113.2 | 94.0 | 105.7 | 105.3 | 100.6 | 109.3 |
| 1977 | 98.1 | 100.3 | 106.5 | NA | 110.4 | 102.1 | 104.6 | 107.5 | NA | 111.5 | 93.5 | 105.2 | 103.5 | 99.8 | 110.0 |
| 1978 | 98.1 | 101.0 | 106.9 | NA | 109.6 | 101.9 | 103.4 | 106.5 | NA | 110.1 | 93.3 | 104.2 | 101.6 | 97.2 | 109.6 |
| 1979 | 97.5 | 100.5 | 107.6 | NA | 109.0 | 102.0 | 103.3 | 106.5 | NA | 109.7 | 92.6 | 103.0 | 99.8 | 95.8 | 109.1 |
| 1980 | 96.3 | 99.6 | 107.6 | NA | 109.3 | 100.4 | 104.0 | 106.4 | NA | 108.1 | 92.8 | 103.6 | 100.4 | 94.8 | 106.0 |
| 1981 | 96.4 | 98.7 | 106.8 | NA | 104.1 | 98.1 | 102.7 | 104.9 | NA | 106.8 | 92.8 | 104.1 | 100.5 | 95.3 | 103.9 |
| 1982 | 94.6 | 97.8 | 106.5 | NA | 103.9 | 100.2 | 104.2 | 100.8 | NA | 106.2 | 92.6 | 105.2 | 99.6 | 95.7 | 104.5 |
| 1983 | 97.2 | 99.1 | 106.6 | NA | 103.9 | 97.7 | 105.6 | 100.3 | NA | 106.4 | 92.6 | 105.3 | 100.1 | 96.9 | 104.3 |
| 1984 | 98.6 | 99.0 | 107.7 | NA | 104.8 | 97.1 | 105.3 | 100.4 | NA | 106.4 | 92.6 | 103.8 | 99.9 | 98.6 | 104.4 |
| 1985 | 98.7 | 99.6 | 107.3 | 110.6 | 101.7 | 98.5 | 101.8 | 99.8 | NA | 104.5 | 91.8 | 101.2 | 99.5 | 97.9 | 103.8 |
| 1986 | 98.6 | 100.1 | 106.7 | 112.6 | 103.5 | 98.6 | 104.2 | 100.0 | NA | 103.9 | 94.5 | 100.7 | 99.6 | 97.5 | 103.4 |
| 1987 | 99.1 | 100.9 | 107.2 | 110.7 | 103.6 | 99.4 | 101.8 | 100.7 | NA | 103.6 | 97.3 | 100.2 | 97.2 | 98.7 | 103.6 |
| 1988 | 100.0 | 103.0 | 108.3 | 108.0 | 102.3 | 101.1 | 101.8 | 101.2 | NA | 103.2 | 98.0 | 101.0 | 98.0 | 98.5 | 104.0 |
| 1989 | 100.0 | 100.7 | 107.1 | 103.9 | 100.8 | 100.6 | 100.6 | 101.0 | NA | 101.7 | 99.2 | 100.4 | 98.5 | 98.2 | 103.3 |
| 1990 | 99.4 | 100.2 | 105.6 | 102.3 | 99.9 | 101.8 | 99.4 | 100.5 | NA | 99.8 | 99.2 | 100.4 | 98.3 | 99.3 | 102.4 |
| 1991 | 98.7 | 99.8 | 103.2 | 101.4 | 100.0 | 100.0 | 99.7 | 99.5 | 96.3 | 99.1 | 100.1 | 100.1 | 98.9 | 99.2 | 100.0 |
| 1992 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1993 | 101.3 | 101.0 | 97.9 | 100.2 | 100.0 | 98.5 | 99.2 | 99.9 | 97.6 | 97.0 | 98.4 | 99.9 | 100.3 | 102.6 | 100.8 |
| 1994 | 102.2 | 102.0 | 98.1 | 100.8 | 100.2 | 101.2 | NA | 99.9 | 98.4 | 97.1 | 101.9 | 100.0 | 100.5 | 107.3 | 100.8 |
| 1995 | 101.5 | 101.6 | 98.9 | 101.0 | 99.9 | 100.1 | NA | 99.3 | 98.4 | 96.5 | 103.8 | 100.2 | 99.6 | 108.0 | 102.0 |
| 1996 | 101.5 | 102.3 | 99.4 | 99.4 | 99.7 | 100.5 | NA | 99.4 | 96.2 | 95.0 | 102.5 | 100.1 | 99.0 | 107.8 | 102.2 |
| 1997 | 102.2 | 102.2 | 98.8 | 98.0 | 100.0 | 100.6 | NA | 99.1 | 96.3 | 95.2 | 103.9 | 99.7 | 98.9 | 107.5 | 102.1 |
| 1998 | 101.2 | 102.7 | 96.8 | 94.1 | 98.1 | 100.8 | NA | 98.9 | 96.6 | 96.2 | 103.2 | 99.5 | 99.2 | 107.6 | 101.6 |
| 1999 | 102.0 | 103.8 | 96.7 | 101.7 | 98.7 | 103.3 | NA | 98.3 | 96.2 | NA | 103.6 | 99.5 | 99.5 | 108.2 | 100.8 |
| 2000 | 101.0 | 103.6 | 98.3 | 100.3 | 98.5 | 103.4 | NA | 95.0 | 95.3 | NA | 104.1 | 99.4 | 98.5 | 107.7 | 100.4 |
| 2001 | 99.2 | 102.6 | 97.6 | 98.2 | 91.5 | 102.2 | NA | 92.9 | 94.2 | NA | 103.1 | 99.3 | 98.2 | 106.2 | 100.0 |
| 2002 | 98.9 | 103.0 | 97.5 | 97.5 | 93.0 | 99.8 | NA | 92.1 | 93.6 | NA | 102.9 | 99.3 | 97.0 | 104.5 | 100.8 |

NA: Not Available

Note: The data relate to employees (wage and salary earners) in Belgium, Denmark, Italy, and Taiwan and to all employed persons (employees and self-employed workers) in the other countries.

** See note on Germany in box on page 4.

Source: U.S. Department of Labor, Bureau of Labor Statistics, September 2003.

Table 7. Hourly compensation in manufacturing, national currency basis, 14 countries or areas, 1950-2002
(Indexes: 1992=100)

| Year | United States | Canada* | Japan | Korea | Taiwan | Belgium | Denmark | France* | Germany** | Former West Germany** | Italy | Netherlands | Norway | Sweden* | United Kingdom* |
|------|---------------|---------|-------|-------|--------|---------|---------|---------|-----------|-----------------------|-------|-------------|--------|---------|-----------------|
| 1950 | 8.7 | 5.4 | NA | NA | NA | NA | 2.1 | 1.6 | NA | 3.4 | 0.9 | 3.0 | 2.2 | 1.9 | 1.5 |
| 1955 | 11.7 | 7.7 | 3.1 | NA | NA | NA | 2.8 | 2.9 | NA | 5.0 | 1.4 | 4.4 | 3.4 | 2.9 | 2.2 |
| 1960 | 14.9 | 10.0 | 4.3 | NA | NA | 5.4 | 3.8 | 4.3 | NA | 8.1 | 1.8 | 6.2 | 4.7 | 4.1 | 2.9 |
| 1961 | 15.3 | 10.2 | 5.0 | NA | NA | 5.7 | 4.3 | 4.8 | NA | 9.1 | 2.0 | 7.0 | 5.2 | 4.5 | 3.2 |
| 1962 | 15.9 | 10.6 | 5.7 | NA | NA | 6.2 | 4.7 | 5.3 | NA | 10.3 | 2.3 | 7.5 | 5.7 | 5.0 | 3.3 |
| 1963 | 16.4 | 11.1 | 6.4 | NA | NA | 6.8 | 5.1 | 5.8 | NA | 11.0 | 2.8 | 8.3 | 6.1 | 5.5 | 3.5 |
| 1964 | 17.0 | 11.5 | 7.2 | NA | NA | 7.7 | 5.5 | 6.3 | NA | 11.9 | 2.9 | 9.6 | 6.5 | 6.0 | 3.7 |
| 1965 | 17.4 | 12.2 | 8.1 | NA | NA | 8.5 | 6.2 | 6.8 | NA | 13.1 | 3.1 | 10.8 | 7.2 | 6.6 | 4.0 |
| 1966 | 18.2 | 13.1 | 8.9 | NA | NA | 9.4 | 7.0 | 7.2 | NA | 14.2 | 3.3 | 12.1 | 7.8 | 7.3 | 4.4 |
| 1967 | 19.2 | 13.8 | 10.0 | NA | NA | 10.3 | 7.8 | 7.7 | NA | 15.0 | 3.7 | 13.4 | 8.7 | 8.1 | 4.5 |
| 1968 | 20.7 | 14.7 | 11.7 | NA | NA | 11.0 | 8.6 | 8.8 | NA | 16.1 | 3.9 | 14.9 | 9.6 | 8.7 | 4.8 |
| 1969 | 22.2 | 15.9 | 13.8 | NA | NA | 12.1 | 9.7 | 9.3 | NA | 17.6 | 4.3 | 16.9 | 10.6 | 9.6 | 5.3 |
| 1970 | 23.7 | 17.1 | 16.4 | NA | NA | 13.7 | 11.1 | 10.5 | NA | 20.7 | 5.3 | 19.4 | 11.8 | 10.7 | 6.1 |
| 1971 | 25.2 | 18.2 | 19.0 | NA | NA | 15.9 | 12.8 | 11.8 | NA | 23.2 | 6.1 | 22.1 | 13.5 | 12.1 | 6.9 |
| 1972 | 26.5 | 19.5 | 21.9 | NA | NA | 18.8 | 14.3 | 13.0 | NA | 25.6 | 6.7 | 25.4 | 15.2 | 13.5 | 8.0 |
| 1973 | 28.5 | 21.2 | 26.7 | NA | 9.5 | 22.3 | 17.5 | 14.9 | NA | 29.0 | 7.9 | 30.2 | 17.1 | 15.2 | 9.1 |
| 1974 | 31.6 | 24.6 | 35.1 | NA | 13.9 | 27.4 | 21.4 | 17.7 | NA | 33.0 | 10.3 | 36.0 | 20.1 | 17.9 | 11.0 |
| 1975 | 35.5 | 28.3 | 40.8 | NA | 14.9 | 33.1 | 25.7 | 21.6 | NA | 36.4 | 12.7 | 40.9 | 24.0 | 21.9 | 14.6 |
| 1976 | 38.4 | 32.5 | 44.0 | NA | 16.7 | 38.3 | 28.9 | 24.8 | NA | 39.1 | 15.8 | 45.7 | 27.7 | 25.7 | 16.9 |
| 1977 | 41.8 | 36.1 | 48.5 | NA | 18.2 | 41.4 | 32.2 | 28.1 | NA | 42.8 | 18.9 | 49.8 | 31.1 | 28.1 | 19.1 |
| 1978 | 45.2 | 38.8 | 51.7 | NA | 20.5 | 44.4 | 35.8 | 31.7 | NA | 45.9 | 21.5 | 53.7 | 34.1 | 31.1 | 22.3 |
| 1979 | 49.6 | 42.7 | 55.0 | NA | 24.3 | 47.2 | 40.4 | 35.9 | NA | 49.3 | 26.0 | 57.5 | 35.8 | 33.5 | 26.5 |
| 1980 | 55.6 | 47.6 | 58.5 | NA | 29.6 | 52.5 | 45.0 | 41.3 | NA | 53.6 | 30.4 | 60.5 | 39.0 | 37.3 | 32.1 |
| 1981 | 61.1 | 53.8 | 62.7 | NA | 38.0 | 57.3 | 50.0 | 48.0 | NA | 57.0 | 36.2 | 63.4 | 43.3 | 41.2 | 37.4 |
| 1982 | 67.0 | 61.0 | 65.8 | NA | 41.5 | 59.9 | 54.9 | 56.7 | NA | 60.4 | 42.2 | 67.0 | 48.2 | 44.2 | 41.2 |
| 1983 | 68.8 | 65.3 | 67.5 | NA | 43.3 | 65.7 | 59.4 | 62.6 | NA | 63.1 | 48.6 | 70.5 | 52.9 | 49.1 | 44.4 |
| 1984 | 71.2 | 69.0 | 69.6 | NA | 46.2 | 71.4 | 63.6 | 68.0 | NA | 66.0 | 55.7 | 73.5 | 57.9 | 53.2 | 48.2 |
| 1985 | 75.1 | 71.9 | 72.4 | 33.1 | 49.5 | 75.3 | 68.8 | 73.6 | NA | 70.0 | 63.1 | 77.5 | 63.4 | 58.6 | 52.9 |
| 1986 | 78.5 | 73.0 | 76.1 | 35.2 | 55.7 | 77.3 | 71.1 | 76.5 | NA | 72.8 | 65.9 | 80.4 | 69.1 | 63.4 | 57.6 |
| 1987 | 80.7 | 74.7 | 77.8 | 40.3 | 60.9 | 79.7 | 78.4 | 79.3 | NA | 76.0 | 69.4 | 84.7 | 78.4 | 67.7 | 64.3 |
| 1988 | 84.0 | 77.5 | 79.2 | 50.0 | 65.6 | 81.1 | 82.9 | 81.9 | NA | 79.1 | 74.6 | 85.3 | 83.3 | 71.8 | 68.7 |
| 1989 | 86.6 | 82.6 | 84.1 | 57.6 | 74.3 | 85.9 | 87.7 | 86.1 | NA | 83.2 | 80.9 | 86.8 | 87.2 | 79.4 | 73.8 |
| 1990 | 90.8 | 88.3 | 90.6 | 68.5 | 85.3 | 90.1 | 92.7 | 90.9 | NA | 89.4 | 87.6 | 89.8 | 92.3 | 87.8 | 82.9 |
| 1991 | 95.6 | 95.0 | 96.5 | 86.1 | 93.5 | 97.3 | 96.0 | 96.4 | 91.5 | 95.1 | 94.2 | 94.8 | 97.5 | 95.5 | 93.8 |
| 1992 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1993 | 102.7 | 102.0 | 102.7 | 114.0 | 106.0 | 104.8 | 103.0 | 102.6 | 106.4 | 105.9 | 105.7 | 104.5 | 101.5 | 97.4 | 105.0 |
| 1994 | 105.6 | 103.7 | 104.7 | 129.5 | 111.1 | 106.1 | NA | 106.0 | 111.8 | 111.7 | 106.8 | 109.0 | 104.4 | 99.8 | 108.0 |
| 1995 | 107.9 | 106.0 | 108.3 | 158.1 | 120.3 | 109.2 | NA | 110.0 | 117.6 | 117.7 | 111.3 | 112.1 | 109.2 | 106.8 | 109.4 |
| 1996 | 109.4 | 107.0 | 109.1 | 184.1 | 128.2 | 111.0 | NA | 112.1 | 123.3 | 123.7 | 119.0 | 114.4 | 113.6 | 115.2 | 111.4 |
| 1997 | 111.5 | 109.3 | 112.6 | 197.7 | 132.3 | 115.2 | NA | 112.0 | 125.7 | 126.6 | 123.0 | 117.2 | 118.7 | 121.0 | 115.7 |
| 1998 | 117.4 | 110.5 | 115.4 | 214.8 | 140.2 | 116.9 | NA | 112.6 | 127.6 | 127.6 | 122.2 | 122.0 | 125.7 | 125.6 | 122.6 |
| 1999 | 122.1 | 112.3 | 114.8 | 211.1 | 144.0 | 118.4 | NA | 116.4 | 130.6 | NA | 124.2 | 126.0 | 133.0 | 130.3 | 129.7 |
| 2000 | 131.1 | 113.9 | 113.7 | 221.0 | 146.2 | 120.5 | NA | 120.8 | 137.2 | NA | 127.8 | 132.0 | 140.5 | 135.3 | 137.6 |
| 2001 | 134.3 | 117.8 | 114.5 | 236.5 | 149.4 | 126.7 | NA | 126.9 | 141.4 | NA | 132.4 | 138.9 | 148.2 | 139.8 | 143.8 |
| 2002 | 141.0 | 123.2 | 112.7 | 267.3 | 149.3 | 135.0 | NA | 130.9 | 144.5 | NA | 135.6 | 146.0 | 157.2 | 145.1 | 148.6 |

NA: Not Available

Note: The data relate to employees (wage and salary earners) in Belgium, Denmark, Italy, and Taiwan and to all employed persons (employees and self-employed workers) in the other countries.

* Compensation adjusted to include changes in employment taxes that are not compensation to employees, but are labor costs to employers.

** See note on Germany in box on page 4.

Source: U.S. Department of Labor, Bureau of Labor Statistics, September 2003.

Table 8. Hourly compensation in manufacturing, U.S. dollar basis, 14 countries or areas, 1950-2002
(Indexes: 1992=100)

| Year | United States | Canada* | Japan | Korea | Taiwan | Belgium | Denmark | France* | Germany** | Former West Germany** | Italy | Netherlands | Norway | Sweden* | United Kingdom* |
|------|---------------|---------|-------|-------|--------|---------|---------|---------|-----------|-----------------------|-------|-------------|--------|---------|-----------------|
| 1950 | 8.7 | 6.0 | NA | NA | NA | NA | 1.8 | 2.5 | NA | 1.3 | 1.9 | 1.4 | 1.9 | 2.1 | 2.5 |
| 1955 | 11.7 | 9.5 | 1.1 | NA | NA | NA | 2.5 | 4.3 | NA | 1.9 | 2.7 | 2.0 | 2.9 | 3.3 | 3.5 |
| 1960 | 14.9 | 12.4 | 1.5 | NA | NA | 3.5 | 3.4 | 4.7 | NA | 3.0 | 3.5 | 2.9 | 4.1 | 4.6 | 4.7 |
| 1961 | 15.3 | 12.2 | 1.8 | NA | NA | 3.7 | 3.8 | 5.1 | NA | 3.5 | 3.9 | 3.4 | 4.5 | 5.0 | 5.0 |
| 1962 | 15.9 | 12.0 | 2.0 | NA | NA | 4.0 | 4.1 | 5.7 | NA | 4.0 | 4.6 | 3.7 | 5.0 | 5.6 | 5.3 |
| 1963 | 16.4 | 12.4 | 2.2 | NA | NA | 4.4 | 4.5 | 6.2 | NA | 4.3 | 5.5 | 4.0 | 5.3 | 6.2 | 5.5 |
| 1964 | 17.0 | 12.9 | 2.5 | NA | NA | 5.0 | 4.8 | 6.8 | NA | 4.7 | 5.8 | 4.7 | 5.6 | 6.8 | 5.8 |
| 1965 | 17.4 | 13.7 | 2.8 | NA | NA | 5.5 | 5.4 | 7.3 | NA | 5.1 | 6.2 | 5.3 | 6.2 | 7.5 | 6.4 |
| 1966 | 18.2 | 14.7 | 3.1 | NA | NA | 6.1 | 6.1 | 7.7 | NA | 5.5 | 6.6 | 5.9 | 6.8 | 8.2 | 6.9 |
| 1967 | 19.2 | 15.4 | 3.5 | NA | NA | 6.7 | 6.8 | 8.3 | NA | 5.9 | 7.3 | 6.5 | 7.6 | 9.1 | 7.0 |
| 1968 | 20.7 | 16.5 | 4.1 | NA | NA | 7.1 | 7.0 | 9.4 | NA | 6.3 | 7.8 | 7.2 | 8.4 | 9.9 | 6.6 |
| 1969 | 22.2 | 17.9 | 4.9 | NA | NA | 7.7 | 7.8 | 9.5 | NA | 7.0 | 8.5 | 8.2 | 9.3 | 10.8 | 7.1 |
| 1970 | 23.7 | 19.8 | 5.8 | NA | NA | 8.9 | 8.9 | 10.0 | NA | 8.9 | 10.3 | 9.4 | 10.3 | 12.0 | 8.3 |
| 1971 | 25.2 | 21.7 | 6.9 | NA | NA | 10.5 | 10.4 | 11.3 | NA | 10.4 | 12.1 | 11.1 | 11.9 | 13.8 | 9.6 |
| 1972 | 26.5 | 23.8 | 9.2 | NA | NA | 13.7 | 12.4 | 13.6 | NA | 12.6 | 14.1 | 13.9 | 14.3 | 16.5 | 11.3 |
| 1973 | 28.5 | 25.6 | 12.5 | NA | 6.3 | 18.5 | 17.6 | 17.8 | NA | 17.1 | 16.7 | 19.1 | 18.5 | 20.3 | 12.7 |
| 1974 | 31.6 | 30.5 | 15.2 | NA | 9.2 | 22.6 | 21.2 | 19.5 | NA | 19.9 | 19.4 | 23.6 | 22.6 | 23.5 | 14.5 |
| 1975 | 35.5 | 33.7 | 17.5 | NA | 9.9 | 29.0 | 27.0 | 26.7 | NA | 23.1 | 23.9 | 28.5 | 28.6 | 30.8 | 18.4 |
| 1976 | 38.4 | 39.9 | 18.8 | NA | 11.0 | 31.9 | 28.9 | 27.4 | NA | 24.3 | 23.5 | 30.4 | 31.6 | 34.3 | 17.3 |
| 1977 | 41.8 | 41.1 | 23.0 | NA | 12.1 | 37.1 | 32.4 | 30.3 | NA | 28.8 | 26.4 | 35.7 | 36.3 | 36.7 | 18.9 |
| 1978 | 45.2 | 41.2 | 31.5 | NA | 13.9 | 45.4 | 39.3 | 37.3 | NA | 35.8 | 31.2 | 43.7 | 40.4 | 40.2 | 24.2 |
| 1979 | 49.6 | 44.0 | 32.0 | NA | 16.9 | 51.7 | 46.4 | 44.6 | NA | 42.0 | 38.6 | 50.4 | 43.9 | 45.5 | 31.8 |
| 1980 | 55.6 | 49.1 | 32.8 | NA | 20.7 | 57.7 | 48.2 | 51.7 | NA | 46.1 | 43.8 | 53.6 | 49.0 | 51.4 | 42.2 |
| 1981 | 61.1 | 54.2 | 36.0 | NA | 26.0 | 49.5 | 42.3 | 46.7 | NA | 39.3 | 39.1 | 44.6 | 46.9 | 47.3 | 42.8 |
| 1982 | 67.0 | 59.7 | 33.5 | NA | 26.7 | 42.1 | 39.7 | 45.6 | NA | 38.8 | 38.4 | 44.1 | 46.4 | 41.0 | 40.8 |
| 1983 | 68.8 | 64.0 | 36.0 | NA | 27.2 | 41.3 | 39.2 | 43.5 | NA | 38.6 | 39.4 | 43.4 | 45.0 | 37.2 | 38.1 |
| 1984 | 71.2 | 64.4 | 37.1 | NA | 29.3 | 39.7 | 37.1 | 41.2 | NA | 36.3 | 39.1 | 40.3 | 44.1 | 37.5 | 36.5 |
| 1985 | 75.1 | 63.6 | 38.5 | 30.2 | 31.2 | 40.8 | 39.2 | 43.4 | NA | 37.2 | 40.7 | 41.1 | 45.8 | 39.7 | 38.9 |
| 1986 | 78.5 | 63.5 | 57.3 | 31.2 | 37.0 | 55.6 | 53.0 | 58.5 | NA | 52.4 | 54.4 | 57.7 | 58.0 | 51.8 | 47.9 |
| 1987 | 80.7 | 68.1 | 68.2 | 38.3 | 48.3 | 68.6 | 69.2 | 69.8 | NA | 66.0 | 66.0 | 73.6 | 72.3 | 62.1 | 59.7 |
| 1988 | 84.0 | 76.2 | 78.3 | 53.5 | 57.7 | 70.9 | 74.3 | 72.8 | NA | 70.4 | 70.6 | 75.9 | 79.3 | 68.2 | 69.3 |
| 1989 | 86.6 | 84.3 | 77.2 | 67.0 | 70.8 | 70.1 | 72.3 | 71.4 | NA | 69.1 | 72.7 | 71.9 | 78.4 | 71.6 | 68.4 |
| 1990 | 90.8 | 91.5 | 79.2 | 75.6 | 79.7 | 86.6 | 90.4 | 88.3 | NA | 86.4 | 90.1 | 86.7 | 91.7 | 86.4 | 83.7 |
| 1991 | 95.6 | 100.1 | 90.9 | 91.7 | 87.9 | 91.5 | 90.5 | 90.4 | 86.1 | 89.4 | 93.5 | 89.1 | 93.3 | 91.9 | 93.9 |
| 1992 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1993 | 102.7 | 95.5 | 117.2 | 111.0 | 100.9 | 97.4 | 95.9 | 95.8 | 100.4 | 100.0 | 82.8 | 98.9 | 88.8 | 72.8 | 89.3 |
| 1994 | 105.6 | 91.7 | 129.9 | 126.0 | 105.6 | 102.1 | NA | 101.1 | 107.6 | 107.6 | 81.7 | 105.4 | 91.9 | 75.3 | 93.7 |
| 1995 | 107.9 | 93.3 | 146.1 | 160.5 | 114.2 | 119.1 | NA | 116.8 | 128.3 | 128.3 | 84.2 | 122.8 | 107.1 | 87.1 | 97.8 |
| 1996 | 109.4 | 94.8 | 127.2 | 179.4 | 117.4 | 115.3 | NA | 116.0 | 128.0 | 128.4 | 95.0 | 119.3 | 109.3 | 100.1 | 98.4 |
| 1997 | 111.5 | 95.3 | 117.9 | 163.7 | 115.6 | 103.4 | NA | 101.5 | 113.2 | 114.0 | 88.9 | 105.6 | 104.1 | 92.2 | 107.2 |
| 1998 | 117.4 | 90.0 | 111.7 | 120.4 | 105.1 | 103.5 | NA | 101.0 | 113.3 | 113.3 | 86.7 | 108.2 | 103.4 | 92.0 | 115.0 |
| 1999 | 122.1 | 91.4 | 128.0 | 139.2 | 112.1 | 100.5 | NA | 100.0 | 111.1 | NA | 84.2 | 107.1 | 105.9 | 91.7 | 118.7 |
| 2000 | 131.1 | 92.6 | 133.7 | 153.4 | 117.7 | 88.6 | NA | 90.0 | 101.1 | NA | 75.1 | 97.3 | 99.1 | 85.9 | 118.0 |
| 2001 | 134.3 | 91.9 | 119.4 | 143.6 | 111.1 | 90.4 | NA | 91.7 | 101.1 | NA | 75.4 | 99.3 | 102.4 | 78.8 | 117.2 |
| 2002 | 141.0 | 94.8 | 114.1 | 167.7 | 108.8 | 101.7 | NA | 99.9 | 109.1 | NA | 81.6 | 110.1 | 122.3 | 86.9 | 126.4 |

NA: Not Available

Note: The data relate to employees (wage and salary earners) in Belgium, Denmark, Italy, and Taiwan and to all employed persons (employees and self-employed workers) in the other countries.

* Compensation adjusted to include changes in employment taxes that are not compensation to employees, but are labor costs to employers.

** See note on Germany in box on page 4.

Source: U.S. Department of Labor, Bureau of Labor Statistics, September 2003.

Table 9. Unit labor costs in manufacturing, national currency basis, 14 countries or areas, 1950-2002
(Indexes: 1992=100)

| Year | United States | Canada* | Japan | Korea | Taiwan | Belgium | Denmark | France* | Germany** | Former West Germany** | Italy | Netherlands | Norway | Sweden* | United Kingdom* |
|------|---------------|---------|-------|-------|--------|---------|---------|---------|-----------|-----------------------|-------|-------------|--------|---------|-----------------|
| 1950 | NA | 20.9 | NA | NA | NA | NA | 9.8 | 13.4 | NA | 25.5 | 7.0 | 26.3 | 8.8 | 9.5 | 6.3 |
| 1955 | NA | 24.2 | 36.5 | NA | NA | NA | 12.2 | 18.8 | NA | 25.4 | 7.2 | 30.0 | 11.5 | 13.8 | 8.3 |
| 1960 | NA | 26.4 | 31.3 | NA | NA | 30.1 | 13.6 | 21.8 | NA | 27.8 | 7.5 | 32.9 | 12.6 | 15.0 | 9.8 |
| 1961 | NA | 25.7 | 32.1 | NA | NA | 31.5 | 14.5 | 22.6 | NA | 29.7 | 7.7 | 35.5 | 13.3 | 15.6 | 10.5 |
| 1962 | NA | 24.8 | 35.0 | NA | NA | 32.1 | 15.1 | 23.5 | NA | 31.5 | 8.2 | 36.6 | 14.6 | 16.2 | 10.8 |
| 1963 | NA | 24.9 | 36.1 | NA | NA | 34.2 | 15.9 | 24.3 | NA | 32.2 | 9.5 | 38.8 | 14.8 | 16.9 | 10.7 |
| 1964 | NA | 24.9 | 35.8 | NA | NA | 36.3 | 15.9 | 24.5 | NA | 32.1 | 10.0 | 41.1 | 15.0 | 16.9 | 10.7 |
| 1965 | NA | 25.1 | 38.7 | NA | NA | 38.3 | 16.8 | 24.9 | NA | 33.3 | 9.6 | 43.2 | 15.7 | 17.4 | 11.4 |
| 1966 | NA | 26.5 | 38.9 | NA | NA | 39.6 | 18.2 | 24.4 | NA | 34.7 | 9.4 | 45.4 | 16.4 | 18.2 | 11.9 |
| 1967 | NA | 27.6 | 38.5 | NA | NA | 40.9 | 18.9 | 24.7 | NA | 34.5 | 9.9 | 46.8 | 17.7 | 18.6 | 11.7 |
| 1968 | NA | 27.9 | 40.0 | NA | NA | 40.3 | 19.4 | 25.3 | NA | 34.3 | 9.8 | 46.4 | 18.4 | 18.5 | 11.7 |
| 1969 | NA | 28.8 | 41.4 | NA | NA | 40.4 | 20.8 | 25.4 | NA | 35.0 | 10.4 | 47.9 | 18.5 | 18.8 | 12.5 |
| 1970 | NA | 31.1 | 43.8 | NA | 23.8 | 41.7 | 22.4 | 26.9 | NA | 39.8 | 11.9 | 50.4 | 20.0 | 20.6 | 14.1 |
| 1971 | NA | 31.2 | 47.8 | NA | 24.8 | 45.2 | 24.2 | 28.6 | NA | 42.9 | 13.5 | 54.1 | 22.2 | 22.2 | 15.3 |
| 1972 | NA | 31.8 | 50.2 | NA | 24.9 | 47.9 | 24.9 | 30.1 | NA | 44.7 | 13.9 | 57.7 | 23.7 | 23.6 | 16.7 |
| 1973 | NA | 32.6 | 56.2 | NA | 28.8 | 51.2 | 27.6 | 32.3 | NA | 47.5 | 15.1 | 61.9 | 25.2 | 24.8 | 17.8 |
| 1974 | NA | 37.2 | 71.9 | NA | 43.5 | 59.9 | 32.8 | 37.5 | NA | 52.1 | 18.6 | 68.7 | 28.4 | 27.9 | 21.0 |
| 1975 | NA | 44.7 | 81.4 | NA | 44.2 | 69.5 | 36.3 | 44.2 | NA | 55.2 | 24.2 | 79.2 | 34.3 | 33.7 | 28.6 |
| 1976 | NA | 47.3 | 82.7 | NA | 45.5 | 73.1 | 38.8 | 47.8 | NA | 55.4 | 26.4 | 79.9 | 38.8 | 38.9 | 31.7 |
| 1977 | 61.2 | 49.9 | 87.7 | NA | 47.3 | 75.3 | 41.7 | 51.3 | NA | 58.8 | 30.7 | 80.4 | 42.9 | 43.3 | 35.5 |
| 1978 | 65.3 | 52.6 | 89.9 | NA | 47.4 | 76.1 | 45.0 | 55.3 | NA | 61.1 | 33.1 | 83.2 | 46.1 | 46.6 | 40.9 |
| 1979 | 70.7 | 57.8 | 88.4 | NA | 53.8 | 76.8 | 48.5 | 60.4 | NA | 62.9 | 36.6 | 85.3 | 45.1 | 46.6 | 48.2 |
| 1980 | 78.8 | 65.2 | 92.6 | NA | 62.2 | 80.3 | 52.2 | 67.2 | NA | 69.4 | 41.0 | 87.6 | 50.0 | 51.0 | 59.0 |
| 1981 | 82.4 | 70.4 | 96.0 | NA | 72.1 | 81.7 | 57.3 | 73.8 | NA | 72.4 | 49.0 | 88.4 | 55.8 | 56.6 | 65.4 |
| 1982 | 87.9 | 79.1 | 96.8 | NA | 76.8 | 81.5 | 62.1 | 81.4 | NA | 76.7 | 57.0 | 92.7 | 59.6 | 58.7 | 68.5 |
| 1983 | 86.0 | 79.7 | 98.1 | NA | 75.2 | 81.1 | 63.5 | 85.4 | NA | 76.4 | 64.2 | 90.9 | 63.3 | 60.7 | 68.2 |
| 1984 | 85.6 | 77.8 | 97.8 | NA | 78.1 | 84.0 | 67.4 | 89.8 | NA | 77.3 | 67.9 | 86.2 | 65.3 | 62.5 | 70.4 |
| 1985 | 87.3 | 78.9 | 94.7 | 60.4 | 81.3 | 86.5 | 71.7 | 92.2 | NA | 78.6 | 72.2 | 87.6 | 69.2 | 68.0 | 74.4 |
| 1986 | 91.2 | 83.3 | 99.9 | 59.8 | 83.5 | 88.0 | 77.4 | 92.9 | NA | 81.2 | 74.9 | 89.6 | 76.5 | 72.5 | 77.9 |
| 1987 | 86.9 | 85.1 | 97.0 | 63.8 | 83.7 | 89.7 | 85.7 | 94.4 | NA | 86.3 | 77.8 | 93.7 | 82.8 | 75.8 | 82.3 |
| 1988 | 86.7 | 86.6 | 94.3 | 72.8 | 85.9 | 88.1 | 88.1 | 92.7 | NA | 86.5 | 79.4 | 92.4 | 89.0 | 79.4 | 83.3 |
| 1989 | 90.5 | 89.3 | 94.9 | 78.7 | 89.5 | 88.7 | 87.5 | 93.4 | NA | 87.9 | 84.8 | 90.0 | 90.8 | 85.1 | 85.6 |
| 1990 | 93.7 | 94.6 | 95.9 | 84.2 | 95.9 | 93.0 | 93.5 | 96.9 | NA | 90.3 | 91.5 | 91.1 | 94.2 | 92.9 | 92.9 |
| 1991 | 97.6 | 99.6 | 97.4 | 94.1 | 96.8 | 98.1 | 96.5 | 99.4 | 93.1 | 93.3 | 98.2 | 95.7 | 99.2 | 100.0 | 100.0 |
| 1992 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1993 | 100.6 | 96.4 | 101.0 | 105.4 | 103.0 | 102.3 | 103.7 | 101.9 | 104.5 | 105.3 | 104.3 | 102.4 | 101.9 | 90.8 | 100.7 |
| 1994 | 98.5 | 93.6 | 101.4 | 109.8 | 104.1 | 97.9 | 96.2 | 97.9 | 102.0 | 103.6 | 101.9 | 96.4 | 104.8 | 84.7 | 99.6 |
| 1995 | 94.8 | 94.3 | 97.6 | 122.4 | 104.5 | 96.4 | 96.4 | 96.7 | 104.7 | 105.9 | 103.0 | 95.6 | 108.4 | 85.8 | 102.8 |
| 1996 | 93.5 | 97.5 | 94.0 | 129.1 | 104.1 | 94.7 | 103.2 | 97.9 | 107.5 | 107.5 | 110.0 | 95.9 | 110.8 | 89.0 | 105.5 |
| 1997 | 91.9 | 96.2 | 93.0 | 121.0 | 102.3 | 90.7 | 99.4 | 91.9 | 104.5 | 103.9 | 111.9 | 96.5 | 116.4 | 85.8 | 108.2 |
| 1998 | 92.8 | 97.7 | 95.2 | 117.4 | 103.2 | 90.4 | 102.8 | 88.1 | 104.6 | 100.4 | 111.1 | 98.3 | 125.7 | 84.0 | 112.8 |
| 1999 | 91.3 | 96.8 | 90.6 | 104.4 | 100.7 | 91.9 | 103.7 | 87.5 | 107.6 | NA | 113.2 | 99.1 | 128.4 | 80.1 | 114.4 |
| 2000 | 92.3 | 96.1 | 83.6 | 101.5 | 97.1 | 90.4 | 102.5 | 84.3 | 108.3 | NA | 113.4 | 99.5 | 131.9 | 74.7 | 114.5 |
| 2001 | 94.1 | 101.5 | 85.6 | 109.5 | 93.3 | 93.9 | 101.4 | 85.0 | 110.1 | NA | 115.5 | 105.0 | 136.1 | 76.6 | 116.7 |
| 2002 | 92.8 | 104.6 | 80.1 | 115.4 | 87.4 | 94.1 | 101.8 | 85.4 | 110.0 | NA | 120.1 | 109.7 | 141.8 | 73.8 | 120.1 |

NA: Not Available

Note: The data relate to employees (wage and salary earners) in Belgium, Denmark, Italy, and Taiwan and to all employed persons (employees and self-employed workers) in the other countries.

* Compensation adjusted to include changes in employment taxes that are not compensation to employees, but are labor costs to employers.

** See note on Germany in box on page 4.

Source: U.S. Department of Labor, Bureau of Labor Statistics, September 2003.

Table 10. Unit labor costs in manufacturing, U.S. dollar basis, 14 countries or areas, 1950-2002
(Indexes: 1992=100)

| Year | United States | Canada* | Japan | Korea | Taiwan | Belgium | Denmark | France* | Germany* | Former West Germany** | Italy | Netherlands | Norway | Sweden* | United Kingdom* |
|------|---------------|---------|-------|-------|--------|---------|---------|---------|----------|-----------------------|-------|-------------|--------|---------|-----------------|
| 1950 | NA | 23.1 | NA | NA | NA | NA | 8.5 | 20.3 | NA | 9.5 | 13.8 | 12.2 | 7.7 | 10.7 | 10.0 |
| 1955 | NA | 29.7 | 12.8 | NA | NA | NA | 10.7 | 28.5 | NA | 9.4 | 14.1 | 13.9 | 10.0 | 15.5 | 13.2 |
| 1960 | NA | 32.9 | 11.0 | NA | NA | 19.4 | 12.0 | 23.5 | NA | 10.4 | 15.0 | 15.3 | 11.0 | 16.9 | 15.6 |
| 1961 | NA | 30.6 | 11.3 | NA | NA | 20.3 | 12.7 | 24.4 | NA | 11.6 | 15.3 | 17.2 | 11.6 | 17.6 | 16.6 |
| 1962 | NA | 28.1 | 12.3 | NA | NA | 20.7 | 13.2 | 25.4 | NA | 12.3 | 16.3 | 17.9 | 12.7 | 18.3 | 17.1 |
| 1963 | NA | 27.8 | 12.7 | NA | NA | 22.0 | 13.9 | 26.3 | NA | 12.6 | 18.8 | 18.9 | 12.9 | 18.9 | 17.0 |
| 1964 | NA | 27.9 | 12.5 | NA | NA | 23.5 | 13.9 | 26.5 | NA | 12.6 | 19.8 | 20.0 | 13.0 | 19.1 | 16.9 |
| 1965 | NA | 28.2 | 13.6 | NA | NA | 24.8 | 14.7 | 26.9 | NA | 13.0 | 19.0 | 21.1 | 13.6 | 19.6 | 18.0 |
| 1966 | NA | 29.7 | 13.6 | NA | NA | 25.6 | 15.9 | 26.2 | NA | 13.6 | 18.6 | 22.0 | 14.3 | 20.6 | 18.8 |
| 1967 | NA | 30.9 | 13.5 | NA | NA | 26.5 | 16.3 | 26.5 | NA | 13.5 | 19.6 | 22.8 | 15.4 | 21.0 | 18.3 |
| 1968 | NA | 31.3 | 14.1 | NA | NA | 25.9 | 15.7 | 27.1 | NA | 13.4 | 19.4 | 22.5 | 16.0 | 20.9 | 15.9 |
| 1969 | NA | 32.3 | 14.6 | NA | NA | 25.9 | 16.7 | 25.9 | NA | 13.9 | 20.4 | 23.2 | 16.1 | 21.1 | 16.9 |
| 1970 | NA | 36.0 | 15.5 | NA | 14.9 | 27.0 | 18.0 | 25.8 | NA | 17.1 | 23.3 | 24.5 | 17.4 | 23.1 | 19.1 |
| 1971 | NA | 37.3 | 17.4 | NA | 15.6 | 29.9 | 19.8 | 27.4 | NA | 19.3 | 26.9 | 27.3 | 19.6 | 25.3 | 21.2 |
| 1972 | NA | 38.8 | 21.0 | NA | 15.7 | 35.0 | 21.6 | 31.6 | NA | 21.9 | 29.4 | 31.6 | 22.4 | 28.9 | 23.7 |
| 1973 | NA | 39.3 | 26.3 | NA | 18.9 | 42.4 | 27.7 | 38.5 | NA | 28.0 | 32.0 | 39.2 | 27.2 | 33.1 | 24.7 |
| 1974 | NA | 46.0 | 31.3 | NA | 28.8 | 49.5 | 32.5 | 41.3 | NA | 31.5 | 35.2 | 45.0 | 32.0 | 36.7 | 27.9 |
| 1975 | NA | 53.1 | 34.8 | NA | 29.3 | 60.9 | 38.2 | 54.7 | NA | 35.1 | 45.7 | 55.2 | 40.9 | 47.4 | 35.9 |
| 1976 | NA | 58.0 | 35.4 | NA | 30.1 | 60.9 | 38.8 | 53.0 | NA | 34.4 | 39.2 | 53.2 | 44.1 | 52.0 | 32.4 |
| 1977 | 61.2 | 56.7 | 41.5 | NA | 31.3 | 67.6 | 42.0 | 55.2 | NA | 39.6 | 42.8 | 57.7 | 50.0 | 56.4 | 35.1 |
| 1978 | 65.3 | 55.8 | 54.7 | NA | 32.2 | 77.8 | 49.3 | 65.1 | NA | 47.6 | 48.1 | 67.7 | 54.7 | 60.1 | 44.4 |
| 1979 | 70.7 | 59.6 | 51.4 | NA | 37.5 | 84.2 | 55.7 | 75.2 | NA | 53.6 | 54.3 | 74.8 | 55.4 | 63.3 | 57.9 |
| 1980 | 78.8 | 67.4 | 51.8 | NA | 43.4 | 88.3 | 55.9 | 84.2 | NA | 59.6 | 59.0 | 77.5 | 62.9 | 70.2 | 77.7 |
| 1981 | 82.4 | 70.9 | 55.2 | NA | 49.2 | 70.6 | 48.4 | 71.8 | NA | 49.9 | 53.1 | 62.2 | 60.4 | 65.1 | 75.0 |
| 1982 | 87.9 | 77.5 | 49.3 | NA | 49.4 | 57.2 | 44.9 | 65.5 | NA | 49.3 | 51.9 | 61.0 | 57.4 | 54.4 | 67.8 |
| 1983 | 86.0 | 78.1 | 52.4 | NA | 47.2 | 51.0 | 41.9 | 59.3 | NA | 46.7 | 52.1 | 56.0 | 53.8 | 46.1 | 58.6 |
| 1984 | 85.6 | 72.5 | 52.2 | NA | 49.6 | 46.8 | 39.3 | 54.4 | NA | 42.4 | 47.7 | 47.2 | 49.7 | 44.0 | 53.3 |
| 1985 | 87.3 | 69.8 | 50.3 | 55.0 | 51.3 | 46.9 | 40.9 | 54.3 | NA | 41.7 | 46.6 | 46.4 | 50.0 | 46.1 | 54.7 |
| 1986 | 91.2 | 72.4 | 75.3 | 53.0 | 55.6 | 63.4 | 57.7 | 71.0 | NA | 58.5 | 61.9 | 64.4 | 64.3 | 59.2 | 64.7 |
| 1987 | 86.9 | 77.6 | 85.1 | 60.6 | 66.3 | 77.2 | 75.5 | 83.1 | NA | 74.9 | 73.9 | 81.3 | 76.4 | 69.6 | 76.4 |
| 1988 | 86.7 | 85.0 | 93.3 | 77.8 | 75.5 | 77.0 | 78.9 | 82.3 | NA | 76.9 | 75.2 | 82.2 | 84.8 | 75.4 | 84.0 |
| 1989 | 90.5 | 91.1 | 87.2 | 91.6 | 85.2 | 72.3 | 72.1 | 77.5 | NA | 73.0 | 76.1 | 74.6 | 81.7 | 76.8 | 79.4 |
| 1990 | 93.7 | 98.0 | 83.9 | 93.0 | 89.7 | 89.5 | 91.2 | 94.2 | NA | 87.3 | 94.1 | 87.9 | 93.6 | 91.3 | 93.8 |
| 1991 | 97.6 | 105.1 | 91.8 | 100.3 | 91.1 | 92.3 | 91.0 | 93.2 | 87.5 | 87.8 | 97.5 | 90.0 | 95.0 | 96.3 | 100.1 |
| 1992 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1993 | 100.6 | 90.3 | 115.3 | 102.7 | 98.1 | 95.1 | 96.5 | 95.2 | 98.7 | 99.4 | 81.6 | 96.9 | 89.2 | 67.8 | 85.6 |
| 1994 | 98.5 | 82.8 | 125.8 | 106.8 | 99.0 | 94.2 | 91.4 | 93.4 | 98.2 | 99.8 | 77.9 | 93.2 | 92.3 | 64.0 | 86.4 |
| 1995 | 94.8 | 83.0 | 131.6 | 124.3 | 99.2 | 105.2 | 104.0 | 102.6 | 114.2 | 115.5 | 77.9 | 104.8 | 106.4 | 70.0 | 91.9 |
| 1996 | 93.5 | 86.4 | 109.5 | 125.9 | 95.4 | 98.3 | 107.5 | 101.3 | 111.6 | 111.6 | 87.9 | 100.0 | 106.6 | 77.3 | 93.2 |
| 1997 | 91.9 | 84.0 | 97.4 | 100.2 | 89.5 | 81.4 | 90.8 | 83.3 | 94.0 | 93.5 | 80.9 | 87.0 | 102.1 | 65.4 | 100.3 |
| 1998 | 92.8 | 79.6 | 92.2 | 65.8 | 77.4 | 80.0 | 92.6 | 79.1 | 92.9 | 89.1 | 78.8 | 87.2 | 103.5 | 61.5 | 105.9 |
| 1999 | 91.3 | 78.8 | 101.0 | 68.8 | 78.3 | 78.0 | 89.5 | 75.2 | 91.6 | NA | 76.7 | 84.3 | 102.2 | 56.4 | 104.7 |
| 2000 | 92.3 | 78.2 | 98.4 | 70.4 | 78.1 | 66.5 | 76.5 | 62.8 | 79.8 | NA | 66.6 | 73.3 | 93.0 | 47.5 | 98.3 |
| 2001 | 94.1 | 79.2 | 89.3 | 66.5 | 69.4 | 67.0 | 73.4 | 61.4 | 78.7 | NA | 65.8 | 75.0 | 94.0 | 43.1 | 95.1 |
| 2002 | 92.8 | 80.5 | 81.1 | 72.4 | 63.7 | 70.9 | 77.9 | 65.1 | 83.0 | NA | 72.2 | 82.8 | 110.3 | 44.2 | 102.1 |

NA: Not Available

Note: The data relate to employees (wage and salary earners) in Belgium, Denmark, Italy, and Taiwan and to all employed persons (employees and self-employed workers) in the other countries.

* Compensation adjusted to include changes in employment taxes that are not compensation to employees, but are labor costs to employers.

** See note on Germany in box on page 4.

Source: U.S. Department of Labor, Bureau of Labor Statistics, September 2003.

Table 11. Exchange rates, 14 countries or areas, 1950-2002 (Value of foreign currency relative to U.S. dollar)
(Indexes: 1992=100)

| Year | United States | Canada | Japan | Korea | Taiwan | Belgium | Denmark | France | Germany** | Former West Germany** | Italy | Netherlands | Norway | Sweden | United Kingdom |
|------|---------------|--------|-------|-------|--------|---------|---------|--------|-----------|-----------------------|-------|-------------|--------|--------|----------------|
| 1950 | 100.0 | 110.5 | 35.2 | NA | NA | NA | 87.5 | 151.3 | NA | 37.2 | 197.3 | 46.2 | 87.1 | 112.6 | 158.6 |
| 1955 | 100.0 | 122.5 | 35.2 | NA | NA | NA | 87.4 | 151.2 | NA | 37.1 | 197.1 | 46.1 | 87.0 | 112.6 | 158.0 |
| 1960 | 100.0 | 124.6 | 35.2 | NA | NA | 64.5 | 87.6 | 107.9 | NA | 37.4 | 198.4 | 46.6 | 87.1 | 112.7 | 159.0 |
| 1961 | 100.0 | 119.4 | 35.1 | NA | NA | 64.5 | 87.4 | 107.9 | NA | 38.9 | 198.4 | 48.5 | 87.0 | 112.7 | 158.6 |
| 1962 | 100.0 | 113.1 | 35.1 | NA | NA | 64.6 | 87.5 | 108.0 | NA | 39.1 | 198.5 | 48.8 | 87.1 | 113.0 | 159.0 |
| 1963 | 100.0 | 112.0 | 35.1 | NA | NA | 64.5 | 87.4 | 108.0 | NA | 39.2 | 198.2 | 48.8 | 86.9 | 112.3 | 158.5 |
| 1964 | 100.0 | 112.0 | 35.0 | NA | NA | 64.6 | 87.3 | 108.0 | NA | 39.3 | 197.3 | 48.8 | 86.8 | 113.1 | 158.1 |
| 1965 | 100.0 | 112.1 | 35.1 | NA | NA | 64.8 | 87.3 | 108.0 | NA | 39.1 | 197.2 | 48.8 | 86.9 | 112.9 | 158.3 |
| 1966 | 100.0 | 112.2 | 35.0 | NA | NA | 64.5 | 87.4 | 107.7 | NA | 39.1 | 197.3 | 48.6 | 86.9 | 112.8 | 158.1 |
| 1967 | 100.0 | 112.0 | 35.0 | NA | NA | 64.7 | 86.5 | 107.6 | NA | 39.2 | 197.4 | 48.8 | 86.9 | 112.9 | 155.7 |
| 1968 | 100.0 | 112.2 | 35.2 | NA | NA | 64.4 | 80.7 | 106.9 | NA | 39.1 | 197.7 | 48.6 | 87.0 | 112.7 | 135.5 |
| 1969 | 100.0 | 112.2 | 35.4 | NA | NA | 64.1 | 80.3 | 102.2 | NA | 39.8 | 196.4 | 48.5 | 87.0 | 112.7 | 135.3 |
| 1970 | 100.0 | 115.8 | 35.4 | 252.7 | 62.9 | 64.7 | 80.5 | 95.7 | NA | 42.8 | 196.5 | 48.6 | 86.9 | 112.3 | 135.6 |
| 1971 | 100.0 | 119.7 | 36.5 | 226.0 | 62.9 | 66.2 | 81.6 | 96.1 | NA | 44.9 | 199.3 | 50.4 | 88.3 | 114.1 | 138.4 |
| 1972 | 100.0 | 122.0 | 41.8 | 199.7 | 62.9 | 73.0 | 86.8 | 104.9 | NA | 49.0 | 211.1 | 54.8 | 94.3 | 122.5 | 141.6 |
| 1973 | 100.0 | 120.8 | 46.8 | 197.0 | 65.8 | 82.8 | 100.2 | 119.3 | NA | 59.0 | 211.8 | 63.3 | 108.2 | 133.8 | 138.8 |
| 1974 | 100.0 | 123.6 | 43.5 | 194.0 | 66.2 | 82.7 | 99.3 | 110.1 | NA | 60.5 | 189.4 | 65.5 | 112.6 | 131.4 | 132.5 |
| 1975 | 100.0 | 118.8 | 42.7 | 162.1 | 66.2 | 87.6 | 105.3 | 123.6 | NA | 63.6 | 188.9 | 69.7 | 119.2 | 140.6 | 125.8 |
| 1976 | 100.0 | 122.6 | 42.8 | 162.1 | 66.2 | 83.3 | 99.9 | 110.9 | NA | 62.1 | 148.4 | 66.6 | 113.9 | 133.7 | 102.2 |
| 1977 | 100.0 | 113.7 | 47.3 | 162.1 | 66.2 | 89.7 | 100.6 | 107.7 | NA | 67.3 | 139.6 | 71.7 | 116.8 | 130.4 | 98.8 |
| 1978 | 100.0 | 106.0 | 60.8 | 162.1 | 67.9 | 102.3 | 109.6 | 117.6 | NA | 77.9 | 145.2 | 81.4 | 118.6 | 129.0 | 108.6 |
| 1979 | 100.0 | 103.2 | 58.1 | 162.1 | 69.8 | 109.6 | 114.8 | 124.4 | NA | 85.2 | 148.3 | 87.7 | 122.7 | 135.9 | 120.2 |
| 1980 | 100.0 | 103.4 | 55.9 | 129.2 | 69.8 | 110.0 | 107.1 | 125.3 | NA | 85.9 | 143.9 | 88.5 | 125.8 | 137.7 | 131.7 |
| 1981 | 100.0 | 100.8 | 57.5 | 115.2 | 68.3 | 86.4 | 84.6 | 97.3 | NA | 69.0 | 108.2 | 70.4 | 108.2 | 115.0 | 114.6 |
| 1982 | 100.0 | 97.9 | 50.9 | 107.2 | 64.3 | 70.2 | 72.4 | 80.5 | NA | 64.3 | 91.0 | 65.8 | 96.2 | 92.7 | 99.0 |
| 1983 | 100.0 | 98.1 | 53.4 | 101.1 | 62.8 | 62.9 | 66.0 | 69.5 | NA | 61.2 | 81.1 | 61.6 | 85.1 | 75.9 | 85.8 |
| 1984 | 100.0 | 93.3 | 53.4 | 97.1 | 63.5 | 55.7 | 58.3 | 60.6 | NA | 54.9 | 70.2 | 54.8 | 76.2 | 70.4 | 75.7 |
| 1985 | 100.0 | 88.5 | 53.2 | 91.0 | 63.1 | 54.2 | 57.0 | 58.9 | NA | 53.1 | 64.5 | 53.0 | 72.3 | 67.7 | 73.5 |
| 1986 | 100.0 | 87.0 | 75.3 | 88.7 | 66.5 | 72.0 | 74.6 | 76.4 | NA | 72.0 | 82.6 | 71.8 | 84.0 | 81.7 | 83.1 |
| 1987 | 100.0 | 91.1 | 87.7 | 95.0 | 79.2 | 86.1 | 88.2 | 88.0 | NA | 86.9 | 95.0 | 86.8 | 92.2 | 91.8 | 92.8 |
| 1988 | 100.0 | 98.2 | 98.9 | 106.8 | 87.9 | 87.4 | 89.6 | 88.8 | NA | 88.9 | 94.6 | 88.9 | 95.2 | 94.9 | 100.8 |
| 1989 | 100.0 | 102.1 | 91.8 | 116.4 | 95.3 | 81.6 | 82.5 | 83.0 | NA | 83.0 | 89.8 | 82.9 | 89.9 | 90.2 | 92.7 |
| 1990 | 100.0 | 103.6 | 87.4 | 110.4 | 93.5 | 96.2 | 97.5 | 97.2 | NA | 96.6 | 102.8 | 96.6 | 99.4 | 98.4 | 101.0 |
| 1991 | 100.0 | 105.5 | 94.2 | 106.5 | 94.0 | 94.0 | 94.3 | 93.7 | 94.0 | 94.0 | 99.3 | 93.9 | 95.7 | 96.3 | 100.1 |
| 1992 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1993 | 100.0 | 93.7 | 114.1 | 97.4 | 95.2 | 93.0 | 93.1 | 93.4 | 94.4 | 94.4 | 78.3 | 94.6 | 87.5 | 74.7 | 85.0 |
| 1994 | 100.0 | 88.4 | 124.1 | 97.2 | 95.1 | 96.2 | 95.0 | 95.4 | 96.3 | 96.3 | 76.5 | 96.7 | 88.1 | 75.5 | 86.7 |
| 1995 | 100.0 | 88.1 | 134.9 | 101.5 | 95.0 | 109.1 | 107.8 | 106.2 | 109.1 | 109.1 | 75.6 | 109.6 | 98.1 | 81.6 | 89.4 |
| 1996 | 100.0 | 88.6 | 116.5 | 97.5 | 91.6 | 103.8 | 104.1 | 103.5 | 103.8 | 103.8 | 79.9 | 104.3 | 96.2 | 86.8 | 88.4 |
| 1997 | 100.0 | 87.3 | 104.7 | 82.8 | 87.4 | 89.8 | 91.3 | 90.7 | 90.0 | 90.0 | 72.3 | 90.1 | 87.7 | 76.2 | 92.7 |
| 1998 | 100.0 | 81.5 | 96.8 | 56.0 | 75.0 | 88.5 | 90.1 | 89.7 | 88.8 | 88.8 | 70.9 | 88.7 | 82.3 | 73.3 | 93.8 |
| 1999 | 100.0 | 81.3 | 111.5 | 65.9 | 77.8 | 84.9 | 86.4 | 86.0 | 85.1 | 85.1 | 67.8 | 85.0 | 79.6 | 70.4 | 91.6 |
| 2000 | 100.0 | 81.4 | 117.6 | 69.4 | 80.5 | 73.6 | 74.6 | 74.5 | 73.7 | NA | 58.7 | 73.7 | 70.5 | 63.5 | 85.8 |
| 2001 | 100.0 | 78.0 | 104.3 | 60.7 | 74.4 | 71.3 | 72.5 | 72.2 | 71.5 | NA | 57.0 | 71.4 | 69.1 | 56.3 | 81.5 |
| 2002 | 100.0 | 77.0 | 101.2 | 62.8 | 72.9 | 75.3 | 76.6 | 76.3 | 75.5 | NA | 60.2 | 75.4 | 77.8 | 59.9 | 85.1 |

NA: Not Available

** See note on Germany in box on page 4.

Source: U.S. Department of Labor, Bureau of Labor Statistics, September 2003.

Table 12. Average annual compensation in manufacturing, national currency basis, 14 countries or areas, 1950-2002
(Indexes: 1992=100)

| Year | United States | Canada* | Japan | Korea | Taiwan | Belgium | Denmark | France* | Germany** | Former West Germany** | Italy | Netherlands | Norway | Sweden* | United Kingdom* |
|------|---------------|---------|-------|-------|--------|---------|---------|---------|-----------|-----------------------|-------|-------------|--------|---------|-----------------|
| 1950 | 8.8 | 5.9 | NA | NA | NA | NA | 2.9 | 2.0 | NA | 4.9 | 1.0 | 3.9 | 2.9 | 2.4 | 1.9 |
| 1955 | 11.8 | 8.1 | 3.8 | NA | NA | NA | 3.9 | 3.4 | NA | 7.3 | 1.5 | 5.7 | 4.4 | 3.8 | 2.8 |
| 1960 | 14.8 | 10.4 | 5.3 | NA | NA | 6.8 | 5.0 | 5.2 | NA | 10.7 | 1.9 | 8.1 | 6.0 | 5.0 | 3.6 |
| 1961 | 15.2 | 10.6 | 6.1 | NA | NA | 7.2 | 5.5 | 5.8 | NA | 11.8 | 2.1 | 8.9 | 6.4 | 5.4 | 3.8 |
| 1962 | 16.0 | 11.1 | 6.9 | NA | NA | 7.8 | 6.1 | 6.4 | NA | 13.0 | 2.4 | 9.4 | 7.0 | 6.0 | 4.0 |
| 1963 | 16.5 | 11.6 | 7.6 | NA | NA | 8.6 | 6.5 | 7.0 | NA | 13.7 | 2.9 | 10.4 | 7.5 | 6.6 | 4.1 |
| 1964 | 17.3 | 12.1 | 8.5 | NA | NA | 9.6 | 7.1 | 7.5 | NA | 14.8 | 3.1 | 11.9 | 8.0 | 7.1 | 4.4 |
| 1965 | 17.9 | 12.8 | 9.4 | NA | NA | 10.5 | 7.8 | 8.1 | NA | 16.2 | 3.2 | 13.3 | 8.7 | 7.7 | 4.8 |
| 1966 | 18.8 | 13.7 | 10.4 | NA | NA | 11.5 | 8.7 | 8.6 | NA | 17.4 | 3.4 | 14.8 | 9.5 | 8.5 | 5.1 |
| 1967 | 19.4 | 14.4 | 11.7 | NA | NA | 12.4 | 9.7 | 9.2 | NA | 17.8 | 3.8 | 16.3 | 10.5 | 9.2 | 5.2 |
| 1968 | 20.9 | 15.4 | 13.6 | NA | NA | 13.3 | 10.4 | 10.1 | NA | 19.4 | 4.1 | 17.9 | 11.3 | 9.8 | 5.6 |
| 1969 | 22.2 | 16.5 | 15.9 | NA | NA | 14.4 | 11.6 | 11.0 | NA | 21.3 | 4.5 | 20.0 | 12.2 | 10.5 | 6.1 |
| 1970 | 23.3 | 17.6 | 18.7 | NA | NA | 16.0 | 12.7 | 12.2 | NA | 24.8 | 5.3 | 22.5 | 13.4 | 11.8 | 7.0 |
| 1971 | 24.8 | 18.7 | 21.3 | NA | NA | 18.2 | 14.7 | 13.6 | NA | 27.2 | 6.0 | 25.4 | 15.2 | 13.3 | 7.8 |
| 1972 | 26.5 | 20.1 | 24.3 | NA | NA | 21.0 | 16.1 | 14.9 | NA | 29.8 | 6.5 | 28.8 | 16.8 | 14.4 | 8.9 |
| 1973 | 28.5 | 21.7 | 29.5 | NA | 10.6 | 24.3 | 18.7 | 16.8 | NA | 33.4 | 7.8 | 33.6 | 18.9 | 16.0 | 10.3 |
| 1974 | 31.0 | 25.0 | 37.0 | NA | 15.0 | 29.2 | 23.2 | 19.7 | NA | 37.2 | 9.8 | 38.8 | 21.8 | 18.6 | 11.9 |
| 1975 | 34.3 | 28.4 | 42.1 | NA | 16.4 | 33.3 | 27.0 | 23.3 | NA | 40.0 | 11.9 | 43.3 | 25.9 | 22.3 | 15.8 |
| 1976 | 37.6 | 32.7 | 46.7 | NA | 18.4 | 39.3 | 30.5 | 26.8 | NA | 44.3 | 14.9 | 48.3 | 29.2 | 25.8 | 18.5 |
| 1977 | 41.0 | 36.2 | 51.7 | NA | 20.1 | 42.3 | 33.7 | 30.2 | NA | 47.7 | 17.7 | 52.4 | 32.2 | 28.1 | 21.0 |
| 1978 | 44.3 | 39.2 | 55.3 | NA | 22.5 | 45.2 | 37.0 | 33.8 | NA | 50.6 | 20.1 | 56.0 | 34.6 | 30.3 | 24.4 |
| 1979 | 48.4 | 42.9 | 59.2 | NA | 26.5 | 48.1 | 41.8 | 38.2 | NA | 54.1 | 24.1 | 59.2 | 35.7 | 32.1 | 28.9 |
| 1980 | 53.5 | 47.3 | 63.0 | NA | 32.4 | 52.7 | 46.8 | 43.9 | NA | 57.9 | 28.2 | 62.7 | 39.1 | 35.3 | 34.0 |
| 1981 | 58.8 | 53.1 | 66.9 | NA | 39.6 | 56.1 | 51.3 | 50.3 | NA | 60.9 | 33.6 | 66.0 | 43.5 | 39.2 | 38.8 |
| 1982 | 63.3 | 59.7 | 70.0 | NA | 43.1 | 60.0 | 57.2 | 57.2 | NA | 64.1 | 39.0 | 70.5 | 48.0 | 42.3 | 43.1 |
| 1983 | 66.9 | 64.7 | 72.0 | NA | 44.9 | 64.2 | 62.7 | 62.8 | NA | 67.2 | 45.0 | 74.3 | 53.0 | 47.5 | 46.3 |
| 1984 | 70.2 | 68.3 | 74.9 | NA | 48.4 | 69.3 | 67.0 | 68.3 | NA | 70.3 | 51.5 | 76.4 | 57.9 | 52.5 | 50.3 |
| 1985 | 74.1 | 71.6 | 77.7 | 36.7 | 50.4 | 74.1 | 70.0 | 73.4 | NA | 73.1 | 57.9 | 78.5 | 63.1 | 57.4 | 54.9 |
| 1986 | 77.4 | 73.0 | 81.2 | 39.6 | 57.6 | 76.2 | 74.0 | 76.6 | NA | 75.6 | 62.3 | 81.0 | 68.8 | 61.8 | 59.6 |
| 1987 | 80.0 | 75.4 | 83.4 | 44.6 | 63.1 | 79.2 | 79.8 | 79.8 | NA | 78.8 | 67.6 | 84.9 | 76.2 | 66.8 | 66.6 |
| 1988 | 84.0 | 79.9 | 85.7 | 54.0 | 67.1 | 81.9 | 84.4 | 82.9 | NA | 81.7 | 73.1 | 86.1 | 81.6 | 70.7 | 71.5 |
| 1989 | 86.7 | 83.2 | 90.0 | 59.9 | 75.0 | 86.4 | 88.2 | 87.0 | NA | 84.6 | 80.3 | 87.1 | 85.9 | 77.9 | 76.2 |
| 1990 | 90.2 | 88.5 | 95.6 | 70.0 | 85.2 | 91.7 | 92.1 | 91.3 | NA | 89.2 | 86.9 | 90.2 | 90.8 | 87.2 | 84.8 |
| 1991 | 94.3 | 94.8 | 99.6 | 87.3 | 93.5 | 97.3 | 95.6 | 95.9 | 88.2 | 94.3 | 94.3 | 94.9 | 96.4 | 94.7 | 93.8 |
| 1992 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1993 | 104.1 | 103.0 | 100.6 | 114.2 | 106.0 | 103.2 | 102.2 | 102.4 | 103.9 | 102.8 | 104.0 | 104.4 | 101.8 | 99.9 | 105.8 |
| 1994 | 108.0 | 105.8 | 102.8 | 130.6 | 111.4 | 107.4 | 106.0 | 105.9 | 109.9 | 108.5 | 108.8 | 109.0 | 104.9 | 107.1 | 108.9 |
| 1995 | 109.5 | 107.6 | 107.0 | 159.7 | 120.1 | 109.2 | 109.7 | 109.3 | 115.8 | 113.6 | 115.6 | 112.3 | 108.7 | 115.4 | 111.6 |
| 1996 | 111.0 | 109.5 | 108.5 | 182.9 | 127.7 | 111.6 | 112.1 | 111.4 | 118.6 | 117.6 | 122.0 | 114.5 | 112.5 | 124.2 | 113.8 |
| 1997 | 113.9 | 111.7 | 111.3 | 193.8 | 132.3 | 115.8 | 117.3 | 111.0 | 121.0 | 120.5 | 127.7 | 116.8 | 117.3 | 130.1 | 118.1 |
| 1998 | 118.8 | 113.5 | 111.7 | 202.2 | 137.5 | 117.8 | 120.6 | 111.4 | 123.3 | 122.8 | 126.1 | 121.4 | 124.6 | 135.1 | 124.5 |
| 1999 | 124.5 | 116.6 | 111.0 | 214.6 | 142.1 | 122.3 | 125.7 | 114.4 | 125.6 | NA | 128.6 | 125.3 | 132.4 | 140.9 | 130.7 |
| 2000 | 132.5 | 118.0 | 111.7 | 221.7 | 144.1 | 124.6 | 130.8 | 114.8 | 130.7 | NA | 133.0 | 131.2 | 138.4 | 145.7 | 138.2 |
| 2001 | 133.2 | 120.9 | 111.7 | 232.2 | 136.7 | 129.6 | 136.5 | 117.9 | 133.1 | NA | 136.6 | 138.0 | 145.6 | 148.5 | 143.9 |
| 2002 | 139.5 | 127.0 | 109.9 | 260.6 | 138.9 | 134.7 | 143.0 | 120.5 | 135.3 | NA | 139.6 | 144.9 | 152.4 | 151.6 | 149.7 |

NA: Not Available

Note: The data relate to employees (wage and salary earners) in Belgium, Denmark, Italy, and Taiwan and to all employed persons (employees and self-employed workers) in the other countries.

* Compensation adjusted to include changes in employment taxes that are not compensation to employees, but are labor costs to employers.

** See note on Germany in box on page 4.

Source: U.S. Department of Labor, Bureau of Labor Statistics, September 2003.

Table 13. Real hourly compensation in manufacturing, CPI basis, 14 countries or areas, 1950-2002
(Indexes: 1992=100)

| Year | United States | Canada | Japan | Korea | Taiwan | Belgium | Denmark | France | Germany** | Former West Germany** | Italy | Netherlands | Norway | Sweden | United Kingdom |
|------|---------------|--------|-------|-------|--------|---------|---------|--------|-----------|-----------------------|-------|-------------|--------|--------|----------------|
| 1950 | 46.6 | 37.0 | NA | NA | NA | NA | 23.9 | 20.1 | NA | 11.7 | 19.1 | 16.6 | 26.3 | 25.3 | 25.6 |
| 1955 | 56.4 | 46.5 | 18.2 | NA | NA | NA | 26.6 | 27.1 | NA | 15.9 | 22.3 | 20.5 | 29.5 | 30.5 | 28.0 |
| 1960 | 65.0 | 54.6 | 23.1 | NA | NA | 24.5 | 32.3 | 30.6 | NA | 23.6 | 26.8 | 25.5 | 36.4 | 35.4 | 32.8 |
| 1961 | 66.3 | 55.5 | 25.6 | NA | NA | 25.7 | 34.8 | 32.7 | NA | 25.8 | 29.0 | 28.8 | 38.7 | 37.9 | 33.9 |
| 1962 | 68.1 | 56.9 | 27.3 | NA | NA | 27.2 | 35.5 | 34.6 | NA | 28.4 | 32.7 | 30.0 | 40.4 | 40.4 | 34.2 |
| 1963 | 69.3 | 58.3 | 28.4 | NA | NA | 29.4 | 36.6 | 36.0 | NA | 29.4 | 36.1 | 32.0 | 42.0 | 43.4 | 35.0 |
| 1964 | 71.2 | 59.6 | 30.7 | NA | NA | 31.9 | 38.2 | 37.8 | NA | 31.1 | 36.3 | 35.1 | 42.5 | 45.7 | 36.2 |
| 1965 | 71.6 | 61.7 | 32.1 | NA | NA | 34.0 | 39.8 | 40.0 | NA | 33.0 | 37.2 | 37.8 | 45.0 | 48.1 | 37.8 |
| 1966 | 72.8 | 63.8 | 33.7 | NA | NA | 36.0 | 42.4 | 41.2 | NA | 34.7 | 38.7 | 40.0 | 47.6 | 49.5 | 39.3 |
| 1967 | 74.4 | 64.9 | 36.3 | NA | NA | 38.3 | 44.2 | 43.2 | NA | 36.1 | 41.2 | 42.9 | 51.0 | 52.6 | 40.3 |
| 1968 | 76.9 | 66.6 | 40.1 | NA | NA | 39.8 | 45.0 | 47.1 | NA | 38.3 | 43.3 | 46.0 | 54.3 | 56.0 | 41.4 |
| 1969 | 78.2 | 68.9 | 45.2 | NA | NA | 42.0 | 49.0 | 48.3 | NA | 41.0 | 46.3 | 48.6 | 58.1 | 58.9 | 42.6 |
| 1970 | 79.2 | 71.5 | 49.9 | NA | NA | 46.1 | 52.4 | 51.7 | NA | 46.7 | 53.7 | 53.8 | 58.3 | 61.8 | 46.1 |
| 1971 | 80.5 | 73.9 | 54.3 | NA | NA | 51.0 | 57.4 | 55.0 | NA | 49.8 | 59.1 | 57.0 | 62.9 | 64.1 | 47.9 |
| 1972 | 82.0 | 75.7 | 59.6 | NA | NA | 57.2 | 60.2 | 57.2 | NA | 52.3 | 61.5 | 60.7 | 65.8 | 67.5 | 51.6 |
| 1973 | 83.1 | 76.6 | 65.3 | NA | 32.7 | 63.5 | 67.4 | 61.0 | NA | 55.4 | 65.7 | 66.7 | 69.0 | 69.8 | 53.8 |
| 1974 | 83.1 | 80.2 | 69.4 | NA | 32.5 | 69.3 | 71.3 | 63.7 | NA | 58.9 | 71.7 | 72.4 | 74.0 | 74.8 | 55.7 |
| 1975 | 85.4 | 83.2 | 72.4 | NA | 33.0 | 74.3 | 78.1 | 69.5 | NA | 61.2 | 75.7 | 74.9 | 79.1 | 83.6 | 59.8 |
| 1976 | 87.5 | 88.8 | 71.3 | NA | 36.0 | 78.8 | 80.7 | 72.6 | NA | 63.1 | 80.9 | 76.8 | 83.9 | 88.4 | 59.5 |
| 1977 | 89.3 | 91.2 | 72.7 | NA | 36.8 | 79.4 | 81.1 | 75.4 | NA | 66.7 | 82.7 | 78.6 | 86.3 | 86.1 | 57.9 |
| 1978 | 90.3 | 89.9 | 74.4 | NA | 39.2 | 81.5 | 81.8 | 77.8 | NA | 69.9 | 83.9 | 81.4 | 87.4 | 88.9 | 62.1 |
| 1979 | 90.6 | 90.6 | 76.3 | NA | 42.2 | 82.9 | 84.2 | 79.5 | NA | 72.2 | 88.5 | 83.5 | 87.6 | 89.9 | 64.9 |
| 1980 | 91.4 | 91.6 | 75.3 | NA | 43.3 | 86.5 | 83.4 | 80.6 | NA | 74.6 | 85.3 | 82.2 | 86.0 | 87.7 | 66.7 |
| 1981 | 91.9 | 92.0 | 76.8 | NA | 47.8 | 87.7 | 83.0 | 82.6 | NA | 74.6 | 86.1 | 80.6 | 84.1 | 86.3 | 69.8 |
| 1982 | 95.1 | 94.1 | 78.5 | NA | 50.7 | 84.4 | 82.7 | 87.3 | NA | 75.0 | 86.2 | 80.6 | 84.1 | 85.1 | 70.5 |
| 1983 | 93.9 | 95.2 | 79.1 | NA | 52.1 | 86.0 | 83.8 | 88.0 | NA | 76.0 | 86.6 | 82.6 | 85.1 | 84.5 | 72.6 |
| 1984 | 93.4 | 96.4 | 79.7 | NA | 55.6 | 87.8 | 84.4 | 88.9 | NA | 77.6 | 89.6 | 83.4 | 87.7 | 85.2 | 74.9 |
| 1985 | 95.3 | 96.6 | 81.3 | 50.1 | 59.8 | 88.3 | 87.1 | 90.7 | NA | 80.7 | 93.0 | 86.0 | 90.8 | 87.4 | 77.5 |
| 1986 | 97.8 | 94.1 | 84.9 | 51.8 | 66.7 | 89.6 | 86.9 | 91.9 | NA | 84.0 | 91.7 | 89.0 | 92.4 | 90.4 | 81.6 |
| 1987 | 97.3 | 92.3 | 86.8 | 57.5 | 72.6 | 90.9 | 92.2 | 92.3 | NA | 87.7 | 92.2 | 94.2 | 96.4 | 92.4 | 87.4 |
| 1988 | 97.7 | 92.1 | 87.6 | 66.7 | 77.2 | 91.4 | 93.2 | 93.0 | NA | 90.3 | 94.4 | 94.0 | 96.0 | 94.1 | 89.1 |
| 1989 | 96.6 | 93.4 | 91.0 | 72.7 | 83.8 | 94.0 | 94.1 | 94.3 | NA | 92.3 | 96.3 | 94.7 | 96.1 | 98.3 | 88.7 |
| 1990 | 96.4 | 94.7 | 95.1 | 79.6 | 92.3 | 95.2 | 96.9 | 96.3 | NA | 96.6 | 98.0 | 95.6 | 97.7 | 97.6 | 91.0 |
| 1991 | 98.0 | 96.3 | 98.0 | 91.5 | 97.7 | 99.7 | 98.0 | 99.0 | 96.2 | 99.0 | 99.1 | 97.9 | 99.8 | 97.3 | 97.3 |
| 1992 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1993 | 100.3 | 100.2 | 101.4 | 108.7 | 102.9 | 102.0 | 101.7 | 100.5 | 101.9 | 102.1 | 101.2 | 101.8 | 99.2 | 95.3 | 103.3 |
| 1994 | 101.0 | 101.6 | 102.7 | 116.4 | 103.7 | 100.9 | NA | 102.1 | 104.3 | 104.8 | 98.3 | 103.4 | 100.6 | 95.6 | 103.8 |
| 1995 | 100.7 | 101.7 | 106.3 | 136.0 | 108.3 | 102.3 | NA | 104.2 | 107.8 | 108.6 | 97.4 | 104.2 | 102.7 | 97.8 | 101.7 |
| 1996 | 99.4 | 101.1 | 107.0 | 150.8 | 111.9 | 101.9 | NA | 104.1 | 111.4 | 112.7 | 100.1 | 104.3 | 105.6 | 104.4 | 101.0 |
| 1997 | 99.2 | 101.6 | 108.4 | 155.2 | 114.5 | 104.0 | NA | 102.7 | 111.5 | 113.3 | 101.4 | 104.6 | 107.5 | 108.4 | 101.7 |
| 1998 | 103.0 | 101.4 | 110.5 | 156.8 | 119.3 | 104.6 | NA | 102.6 | 112.1 | 113.3 | 98.8 | 106.8 | 111.3 | 111.7 | 104.2 |
| 1999 | 104.9 | 101.3 | 110.3 | 152.8 | 122.3 | 104.7 | NA | 105.5 | 114.0 | NA | 98.8 | 107.9 | 115.2 | 112.1 | 108.6 |
| 2000 | 109.0 | 99.9 | 109.9 | 156.5 | 122.7 | 103.9 | NA | 107.7 | 118.1 | NA | 99.1 | 110.2 | 118.0 | 119.1 | 111.9 |
| 2001 | 108.6 | 100.8 | 111.5 | 160.9 | 125.4 | 106.7 | NA | 111.3 | 119.3 | NA | 99.9 | 111.0 | 120.8 | 120.4 | 115.0 |
| 2002 | 112.3 | 103.3 | 110.7 | 177.0 | 125.6 | 111.8 | NA | 112.6 | 120.4 | NA | 99.9 | 112.6 | 126.5 | 122.2 | 116.8 |

NA: Not Available

Note: The data relate to employees (wage and salary earners) in Belgium, Denmark, Italy, and Taiwan and to all employed persons (employees and self-employed workers) in the other countries.

** See note on Germany in box on page 4.

Source: U.S. Department of Labor, Bureau of Labor Statistics, September 2003.

Table 14. Real average annual compensation in manufacturing, CPI basis, 14 countries or areas, 1950-2002
(Indexes: 1992=100)

| Year | United States | Canada | Japan | Korea | Taiwan | Belgium | Denmark | France | Germany** | Former West Germany** | Italy | Netherlands | Norway | Sweden | United Kingdom |
|------|---------------|--------|-------|-------|--------|---------|---------|--------|-----------|-----------------------|-------|-------------|--------|--------|----------------|
| 1950 | 47.3 | 40.3 | NA | NA | NA | NA | 33.6 | 24.3 | NA | 17.1 | 20.1 | 21.5 | 34.4 | 32.8 | 31.5 |
| 1955 | 57.2 | 48.7 | 21.7 | NA | NA | NA | 36.8 | 32.6 | NA | 23.3 | 24.0 | 26.8 | 38.6 | 39.4 | 34.9 |
| 1960 | 64.7 | 56.8 | 28.6 | NA | NA | 30.8 | 42.4 | 36.9 | NA | 31.0 | 29.2 | 33.7 | 45.8 | 43.2 | 40.1 |
| 1961 | 66.0 | 57.5 | 31.2 | NA | NA | 32.2 | 44.3 | 39.7 | NA | 33.4 | 31.3 | 36.4 | 48.1 | 45.9 | 40.9 |
| 1962 | 68.5 | 59.4 | 32.7 | NA | NA | 34.2 | 45.5 | 41.8 | NA | 35.8 | 34.1 | 37.7 | 49.9 | 48.5 | 40.8 |
| 1963 | 69.9 | 61.0 | 33.6 | NA | NA | 37.0 | 46.3 | 43.5 | NA | 36.5 | 37.8 | 40.1 | 51.8 | 51.5 | 41.8 |
| 1964 | 72.4 | 62.7 | 36.2 | NA | NA | 39.9 | 48.7 | 45.5 | NA | 38.7 | 38.1 | 43.4 | 52.7 | 53.7 | 43.5 |
| 1965 | 73.5 | 64.9 | 37.3 | NA | NA | 41.9 | 50.7 | 47.7 | NA | 40.9 | 37.8 | 46.7 | 54.5 | 56.0 | 44.8 |
| 1966 | 75.0 | 66.6 | 39.3 | NA | NA | 44.0 | 53.0 | 49.4 | NA | 42.4 | 39.7 | 49.2 | 57.8 | 57.6 | 45.8 |
| 1967 | 75.3 | 67.8 | 42.4 | NA | NA | 46.2 | 54.5 | 51.3 | NA | 42.9 | 42.8 | 52.4 | 61.3 | 60.3 | 46.6 |
| 1968 | 77.7 | 69.4 | 46.7 | NA | NA | 48.1 | 54.3 | 54.3 | NA | 46.1 | 45.0 | 55.3 | 63.7 | 62.9 | 48.2 |
| 1969 | 78.4 | 71.5 | 51.9 | NA | NA | 50.2 | 58.4 | 57.1 | NA | 49.5 | 47.9 | 57.5 | 66.6 | 64.9 | 49.6 |
| 1970 | 77.8 | 73.7 | 56.7 | NA | NA | 53.6 | 60.4 | 60.4 | NA | 56.0 | 54.5 | 62.6 | 66.4 | 68.0 | 52.8 |
| 1971 | 79.2 | 76.0 | 60.7 | NA | NA | 58.5 | 65.9 | 63.7 | NA | 58.4 | 58.3 | 65.6 | 70.8 | 70.3 | 53.6 |
| 1972 | 82.1 | 77.9 | 66.2 | NA | NA | 64.1 | 67.7 | 65.5 | NA | 60.7 | 60.2 | 68.9 | 73.0 | 72.1 | 57.2 |
| 1973 | 83.0 | 78.3 | 71.9 | NA | 36.5 | 69.4 | 71.7 | 68.8 | NA | 63.8 | 65.1 | 74.2 | 76.1 | 73.2 | 60.4 |
| 1974 | 81.5 | 81.4 | 73.3 | NA | 34.9 | 73.8 | 77.4 | 71.0 | NA | 66.5 | 68.6 | 78.1 | 80.5 | 77.6 | 60.5 |
| 1975 | 82.5 | 83.4 | 74.7 | NA | 36.3 | 74.8 | 82.1 | 75.1 | NA | 67.4 | 71.1 | 79.3 | 85.6 | 85.1 | 64.8 |
| 1976 | 85.5 | 89.1 | 75.7 | NA | 39.8 | 80.8 | 85.2 | 78.8 | NA | 71.4 | 76.0 | 81.2 | 88.3 | 89.0 | 65.0 |
| 1977 | 87.6 | 91.4 | 77.4 | NA | 40.6 | 81.1 | 84.8 | 81.0 | NA | 74.3 | 77.3 | 82.7 | 89.3 | 86.0 | 63.7 |
| 1978 | 88.6 | 90.8 | 79.5 | NA | 43.0 | 83.1 | 84.6 | 82.9 | NA | 76.9 | 78.3 | 84.8 | 88.7 | 86.5 | 68.0 |
| 1979 | 88.4 | 91.1 | 82.1 | NA | 46.0 | 84.6 | 87.0 | 84.7 | NA | 79.2 | 81.9 | 86.0 | 87.4 | 86.1 | 70.8 |
| 1980 | 88.1 | 91.2 | 81.0 | NA | 47.4 | 86.9 | 86.7 | 85.8 | NA | 80.6 | 79.2 | 85.1 | 86.3 | 83.1 | 70.7 |
| 1981 | 88.5 | 90.8 | 82.1 | NA | 49.8 | 86.0 | 85.2 | 86.7 | NA | 79.7 | 79.9 | 83.9 | 84.6 | 82.2 | 72.5 |
| 1982 | 90.0 | 92.0 | 83.5 | NA | 52.7 | 84.5 | 86.2 | 88.0 | NA | 79.7 | 79.8 | 84.8 | 83.8 | 81.4 | 73.6 |
| 1983 | 91.2 | 94.3 | 84.4 | NA | 54.1 | 84.0 | 88.5 | 88.2 | NA | 80.8 | 80.2 | 87.0 | 85.2 | 81.8 | 75.7 |
| 1984 | 92.1 | 95.4 | 85.8 | NA | 58.3 | 85.3 | 88.9 | 89.2 | NA | 82.6 | 82.9 | 86.6 | 87.6 | 84.0 | 78.1 |
| 1985 | 94.0 | 96.2 | 87.2 | 55.5 | 60.8 | 87.0 | 88.7 | 90.5 | NA | 84.3 | 85.3 | 87.1 | 90.4 | 85.5 | 80.4 |
| 1986 | 96.4 | 94.2 | 90.6 | 58.3 | 69.0 | 88.3 | 90.5 | 92.0 | NA | 87.3 | 86.7 | 89.7 | 92.0 | 88.1 | 84.4 |
| 1987 | 96.5 | 93.2 | 93.0 | 63.7 | 75.2 | 90.4 | 93.8 | 92.9 | NA | 90.9 | 89.8 | 94.4 | 93.7 | 91.2 | 90.5 |
| 1988 | 97.7 | 94.9 | 94.9 | 72.0 | 79.0 | 92.4 | 94.9 | 94.1 | NA | 93.2 | 92.5 | 94.9 | 94.0 | 92.7 | 92.6 |
| 1989 | 96.6 | 94.1 | 97.4 | 75.6 | 84.5 | 94.5 | 94.6 | 95.3 | NA | 93.9 | 95.6 | 95.1 | 94.7 | 96.5 | 91.7 |
| 1990 | 95.9 | 94.9 | 100.4 | 81.4 | 92.2 | 96.9 | 96.3 | 96.8 | NA | 96.4 | 97.2 | 95.9 | 96.1 | 96.9 | 93.2 |
| 1991 | 96.7 | 96.1 | 101.2 | 92.8 | 97.7 | 99.7 | 97.6 | 98.5 | 92.7 | 98.2 | 99.2 | 98.0 | 98.7 | 96.6 | 97.3 |
| 1992 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1993 | 101.6 | 101.2 | 99.3 | 109.0 | 102.9 | 100.5 | 100.9 | 100.4 | 99.5 | 99.1 | 99.6 | 101.7 | 99.5 | 97.7 | 104.2 |
| 1994 | 103.2 | 103.6 | 100.7 | 117.3 | 103.9 | 102.1 | 102.7 | 102.0 | 102.5 | 101.7 | 100.2 | 103.4 | 101.1 | 102.5 | 104.6 |
| 1995 | 102.2 | 103.3 | 105.0 | 137.4 | 108.1 | 102.3 | 104.0 | 103.5 | 106.1 | 104.9 | 101.1 | 104.4 | 102.3 | 105.7 | 103.6 |
| 1996 | 100.8 | 103.4 | 106.3 | 149.9 | 111.5 | 102.4 | 104.1 | 103.4 | 107.2 | 107.1 | 102.6 | 104.4 | 104.6 | 112.6 | 103.2 |
| 1997 | 101.3 | 103.8 | 107.1 | 152.1 | 114.5 | 104.6 | 106.6 | 101.8 | 107.3 | 107.9 | 105.3 | 104.3 | 106.3 | 116.5 | 103.8 |
| 1998 | 104.3 | 104.2 | 106.9 | 147.6 | 117.0 | 105.4 | 107.6 | 101.5 | 108.4 | 109.0 | 101.9 | 106.2 | 110.4 | 120.2 | 105.9 |
| 1999 | 107.0 | 105.1 | 106.6 | 155.4 | 120.7 | 108.2 | 109.5 | 103.7 | 109.7 | NA | 102.3 | 107.3 | 114.6 | 121.3 | 109.4 |
| 2000 | 110.2 | 103.6 | 108.0 | 157.0 | 120.9 | 107.5 | 110.6 | 102.3 | 112.5 | NA | 103.2 | 109.6 | 116.2 | 128.2 | 112.4 |
| 2001 | 107.8 | 103.5 | 108.8 | 157.9 | 114.7 | 109.1 | 112.8 | 103.4 | 112.4 | NA | 103.1 | 110.2 | 118.7 | 127.9 | 115.0 |
| 2002 | 111.1 | 106.4 | 108.0 | 172.6 | 116.8 | 111.6 | 115.5 | 103.7 | 112.7 | NA | 102.8 | 111.8 | 122.7 | 127.8 | 117.7 |

NA: Not Available

Note: The data relate to employees (wage and salary earners) in Belgium, Denmark, Italy, and Taiwan and to all employed persons (employees and self-employed workers) in the other countries.

** See note on Germany in box on page 4.

Source: U.S. Department of Labor, Bureau of Labor Statistics, September 2003.

Table 15. Total labor compensation in manufacturing, 14 countries or areas, 1950-2002
(Indexes: 1992=100)

| Year | United States | Canada* | Japan | Korea | Taiwan | Belgium | Denmark | France* | Germany** | Former West Germany** | Italy | Netherlands | Norway | Sweden* | United Kingdom* |
|------|---------------|---------|-------|-------|--------|---------|---------|---------|-----------|-----------------------|-------|-------------|--------|---------|-----------------|
| 1950 | 7.4 | 4.6 | NA | NA | NA | NA | 2.8 | 2.2 | NA | 3.7 | 0.7 | 4.4 | 3.4 | 2.9 | 3.1 |
| 1955 | 11.0 | 6.9 | 1.8 | NA | NA | NA | 3.9 | 3.9 | NA | 7.0 | 1.1 | 6.9 | 5.5 | 4.9 | 4.9 |
| 1960 | 13.7 | 8.8 | 3.4 | NA | NA | 9.2 | 6.1 | 6.1 | NA | 11.6 | 1.7 | 10.5 | 7.3 | 6.9 | 6.6 |
| 1961 | 13.7 | 8.9 | 4.1 | NA | NA | 10.1 | 6.8 | 6.8 | NA | 13.1 | 2.0 | 11.7 | 8.0 | 7.7 | 7.1 |
| 1962 | 14.8 | 9.6 | 4.9 | NA | NA | 11.1 | 7.7 | 7.6 | NA | 14.5 | 2.3 | 12.7 | 8.9 | 8.5 | 7.3 |
| 1963 | 15.4 | 10.2 | 5.6 | NA | NA | 12.4 | 8.2 | 8.4 | NA | 15.2 | 2.8 | 14.0 | 9.5 | 9.3 | 7.5 |
| 1964 | 16.4 | 11.2 | 6.5 | NA | NA | 14.3 | 9.1 | 9.3 | NA | 16.4 | 3.0 | 16.2 | 10.3 | 10.2 | 8.2 |
| 1965 | 17.8 | 12.4 | 7.3 | NA | NA | 15.6 | 10.3 | 9.9 | NA | 18.3 | 3.1 | 18.3 | 11.3 | 11.2 | 9.0 |
| 1966 | 19.8 | 14.0 | 8.3 | NA | NA | 17.1 | 11.4 | 10.6 | NA | 19.4 | 3.3 | 20.2 | 12.6 | 12.1 | 9.5 |
| 1967 | 20.7 | 14.9 | 9.8 | NA | NA | 17.9 | 12.0 | 11.2 | NA | 18.9 | 3.8 | 21.6 | 14.0 | 12.8 | 9.5 |
| 1968 | 22.6 | 15.9 | 11.8 | NA | NA | 18.8 | 13.1 | 12.1 | NA | 20.7 | 4.1 | 23.5 | 14.9 | 13.4 | 10.1 |
| 1969 | 24.6 | 17.5 | 14.2 | NA | NA | 21.1 | 14.9 | 13.6 | NA | 23.6 | 4.6 | 26.6 | 16.1 | 14.6 | 11.2 |
| 1970 | 24.8 | 18.3 | 17.2 | NA | 3.0 | 24.0 | 16.5 | 15.5 | NA | 28.2 | 5.7 | 30.1 | 18.2 | 16.6 | 12.7 |
| 1971 | 25.3 | 19.5 | 19.6 | NA | 3.9 | 27.2 | 18.2 | 17.5 | NA | 30.7 | 6.6 | 33.5 | 20.8 | 18.0 | 13.7 |
| 1972 | 27.8 | 21.6 | 22.4 | NA | 4.7 | 31.0 | 20.3 | 19.3 | NA | 33.0 | 7.2 | 36.6 | 23.2 | 19.3 | 15.3 |
| 1973 | 31.5 | 24.4 | 28.3 | NA | 6.4 | 36.1 | 23.6 | 22.3 | NA | 37.3 | 8.8 | 42.1 | 26.0 | 21.7 | 17.7 |
| 1974 | 34.2 | 28.5 | 35.3 | NA | 9.1 | 43.9 | 28.2 | 26.4 | NA | 40.5 | 11.5 | 48.4 | 30.4 | 25.7 | 20.7 |
| 1975 | 34.5 | 31.5 | 37.9 | NA | 9.7 | 47.2 | 29.8 | 30.5 | NA | 40.9 | 14.1 | 52.2 | 35.8 | 31.2 | 26.2 |
| 1976 | 39.2 | 36.1 | 41.8 | NA | 12.3 | 53.4 | 33.7 | 34.9 | NA | 44.2 | 17.7 | 55.9 | 40.3 | 36.0 | 29.6 |
| 1977 | 44.4 | 39.3 | 45.8 | NA | 14.5 | 55.2 | 36.8 | 39.2 | NA | 47.8 | 21.2 | 59.0 | 44.6 | 37.8 | 33.8 |
| 1978 | 50.0 | 43.8 | 48.3 | NA | 17.6 | 56.5 | 39.9 | 43.2 | NA | 50.6 | 24.1 | 61.6 | 47.0 | 39.6 | 39.1 |
| 1979 | 55.9 | 49.6 | 51.6 | NA | 21.5 | 58.6 | 45.0 | 48.1 | NA | 54.8 | 29.4 | 64.5 | 47.9 | 42.1 | 46.0 |
| 1980 | 59.7 | 54.5 | 56.0 | NA | 27.4 | 62.8 | 49.3 | 54.8 | NA | 59.2 | 34.6 | 67.4 | 52.5 | 46.3 | 51.4 |
| 1981 | 65.3 | 60.9 | 60.1 | NA | 34.1 | 63.1 | 51.8 | 60.6 | NA | 61.0 | 40.1 | 69.0 | 57.5 | 49.8 | 53.5 |
| 1982 | 65.6 | 62.2 | 62.6 | NA | 37.2 | 65.5 | 57.1 | 67.9 | NA | 62.5 | 45.7 | 70.9 | 61.1 | 51.8 | 55.9 |
| 1983 | 68.1 | 65.7 | 65.4 | NA | 40.7 | 68.6 | 62.3 | 73.0 | NA | 63.2 | 51.1 | 71.2 | 64.0 | 57.0 | 57.0 |
| 1984 | 75.0 | 71.3 | 69.4 | NA | 48.6 | 73.2 | 69.5 | 77.0 | NA | 65.9 | 55.8 | 71.6 | 69.2 | 63.2 | 60.9 |
| 1985 | 78.5 | 76.5 | 72.6 | 29.4 | 52.3 | 77.1 | 76.1 | 80.7 | NA | 69.4 | 61.3 | 74.5 | 76.0 | 70.0 | 66.2 |
| 1986 | 80.8 | 80.6 | 75.5 | 34.6 | 62.5 | 78.5 | 82.7 | 82.6 | NA | 72.9 | 64.7 | 77.8 | 83.8 | 75.4 | 70.3 |
| 1987 | 83.8 | 85.7 | 76.7 | 43.7 | 70.5 | 79.7 | 87.2 | 84.1 | NA | 76.0 | 69.2 | 82.4 | 92.8 | 80.9 | 77.8 |
| 1988 | 89.5 | 94.0 | 80.5 | 55.9 | 75.3 | 82.3 | 88.9 | 86.4 | NA | 78.6 | 75.5 | 83.4 | 94.9 | 87.2 | 84.4 |
| 1989 | 92.8 | 99.3 | 86.3 | 62.5 | 81.2 | 87.9 | 91.8 | 91.2 | NA | 82.6 | 83.3 | 85.0 | 93.2 | 94.5 | 90.3 |
| 1990 | 95.1 | 100.2 | 93.2 | 73.0 | 86.4 | 94.0 | 96.1 | 96.1 | NA | 89.5 | 90.9 | 90.2 | 95.5 | 102.3 | 97.9 |
| 1991 | 96.0 | 98.6 | 99.4 | 89.4 | 93.1 | 98.8 | 98.0 | 99.2 | 95.2 | 96.0 | 97.6 | 95.6 | 98.2 | 104.1 | 100.0 |
| 1992 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1993 | 104.2 | 102.1 | 97.3 | 111.1 | 105.5 | 99.2 | 99.1 | 97.5 | 96.6 | 96.6 | 100.6 | 100.1 | 103.6 | 92.4 | 102.2 |
| 1994 | 109.4 | 106.8 | 96.2 | 128.2 | 112.9 | 99.3 | 101.6 | 98.2 | 97.0 | 96.8 | 104.3 | 100.7 | 109.6 | 99.2 | 105.7 |
| 1995 | 112.2 | 112.8 | 96.4 | 159.0 | 120.0 | 100.4 | 107.6 | 101.4 | 99.7 | 99.2 | 110.5 | 103.4 | 116.3 | 113.1 | 110.8 |
| 1996 | 113.4 | 116.7 | 96.8 | 179.1 | 125.3 | 101.0 | 110.2 | 102.4 | 99.4 | 99.4 | 116.0 | 104.4 | 122.3 | 121.3 | 114.4 |
| 1997 | 117.5 | 122.9 | 99.1 | 178.9 | 131.3 | 103.3 | 114.5 | 100.9 | 99.9 | 99.5 | 121.7 | 107.7 | 132.9 | 125.7 | 118.9 |
| 1998 | 123.5 | 129.8 | 95.4 | 160.7 | 136.9 | 105.3 | 118.9 | 101.3 | 102.2 | 101.2 | 123.0 | 113.0 | 142.9 | 133.0 | 125.0 |
| 1999 | 127.4 | 136.5 | 92.3 | 172.8 | 142.4 | 107.7 | 122.0 | 103.8 | 103.0 | NA | 124.8 | 116.6 | 145.8 | 138.1 | 127.1 |
| 2000 | 134.8 | 143.0 | 91.3 | 194.7 | 147.4 | 110.3 | 125.2 | 104.8 | 108.1 | NA | 128.9 | 122.1 | 148.8 | 142.8 | 129.8 |
| 2001 | 129.2 | 146.0 | 88.9 | 214.5 | 133.5 | 114.9 | 129.3 | 108.8 | 110.5 | NA | 132.4 | 127.7 | 154.3 | 144.1 | 129.2 |
| 2002 | 126.1 | 154.3 | 81.9 | 240.3 | 133.3 | 115.7 | 130.3 | 109.4 | 110.0 | NA | 136.6 | 131.3 | 159.7 | 143.0 | 127.6 |

NA: Not Available

Note: The data relate to employees (wage and salary earners) in Belgium, Denmark, Italy, and Taiwan and to all employed persons (employees and self-employed workers) in the other countries.

* Compensation adjusted to include changes in employment taxes that are not compensation to employees, but are labor costs to employers.

** See note on Germany in box on page 4.

Source: U.S. Department of Labor, Bureau of Labor Statistics, September 2003.