

News

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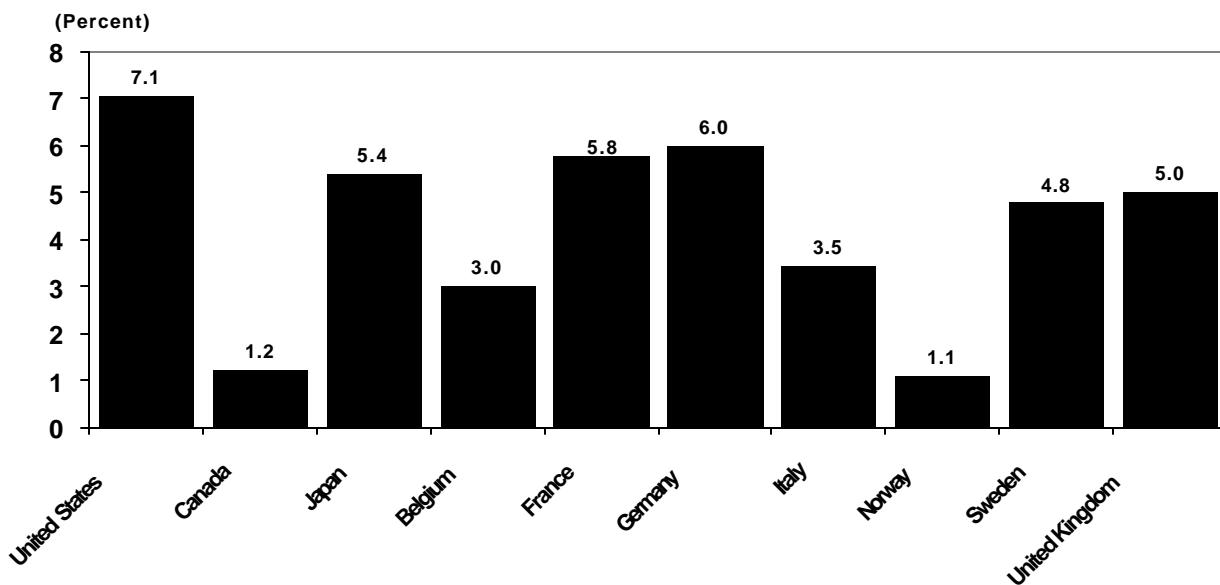
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INTERNATIONAL COMPARISONS OF MANUFACTURING PRODUCTIVITY AND UNIT LABOR COST TRENDS, 2000

In 2000, the labor productivity growth rate for manufacturing was the highest in the United States among the 10 countries for which comparable data were available, according to preliminary data from the Bureau of Labor Statistics, U.S. Department of Labor. The labor productivity increase in the United States was 7.1 percent, followed by 6.0 and 5.8 percent in Germany and France, respectively. The productivity growth rates in Canada and Norway were the lowest among the countries compared. (See chart 1.)

These preliminary estimates for 2000, as well as revisions to the estimates through 1999, are based on data available in June 2001. The output series for U.S. manufacturing used for international comparisons differs from the manufacturing series that BLS publishes quarterly on U.S. productivity and costs. Labor productivity for this release is computed as value added output per hour worked. (See technical notes.)

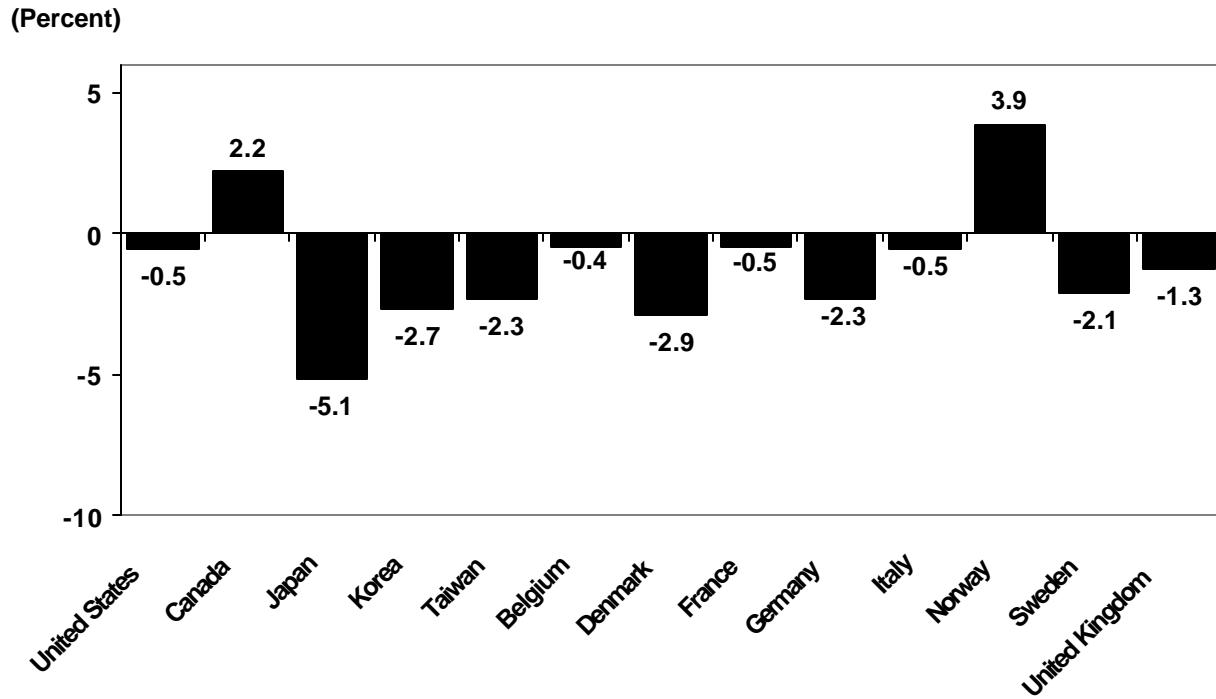
**Chart 1. Percent change in
manufacturing output per hour, 2000**



Unit labor costs – the cost of labor input required to produce one unit of output – are computed as labor costs in nominal terms divided by real output. Unit labor costs also can be expressed as the ratio of hourly compensation to labor productivity. An increase in productivity represents a decrease in the amount of labor input used to produce a unit of output; thus, an increase in productivity can offset an increase in compensation per hour in its effect on unit labor costs.

Unit labor costs in manufacturing, expressed in *national currency units*, declined in 11 of the 13 countries for which comparable data on unit labor costs were available in 2000. The United States had a decline of 0.5 percent. The largest declines occurred in Japan (5.1 percent) and Denmark (2.9 percent). Norway and Canada were the only two countries where unit labor costs increased. (See table A and chart 2.)

Chart 2. Percent change in manufacturing unit labor costs (national currency basis), 2000



Changes in exchange rates must be taken into account in order to assess international competitiveness in manufacturing. The weakening of the euro against the dollar in 2000 deepened the unit labor cost declines in the European countries, when measured in U.S. dollars. The stronger currencies in Japan, Korea, and Taiwan, however, resulted in increased U.S. dollar-based unit labor costs in these three countries. (See table A and chart 3.)

Chart 3. Percent change in manufacturing unit labor costs (U.S. dollar basis), 2000

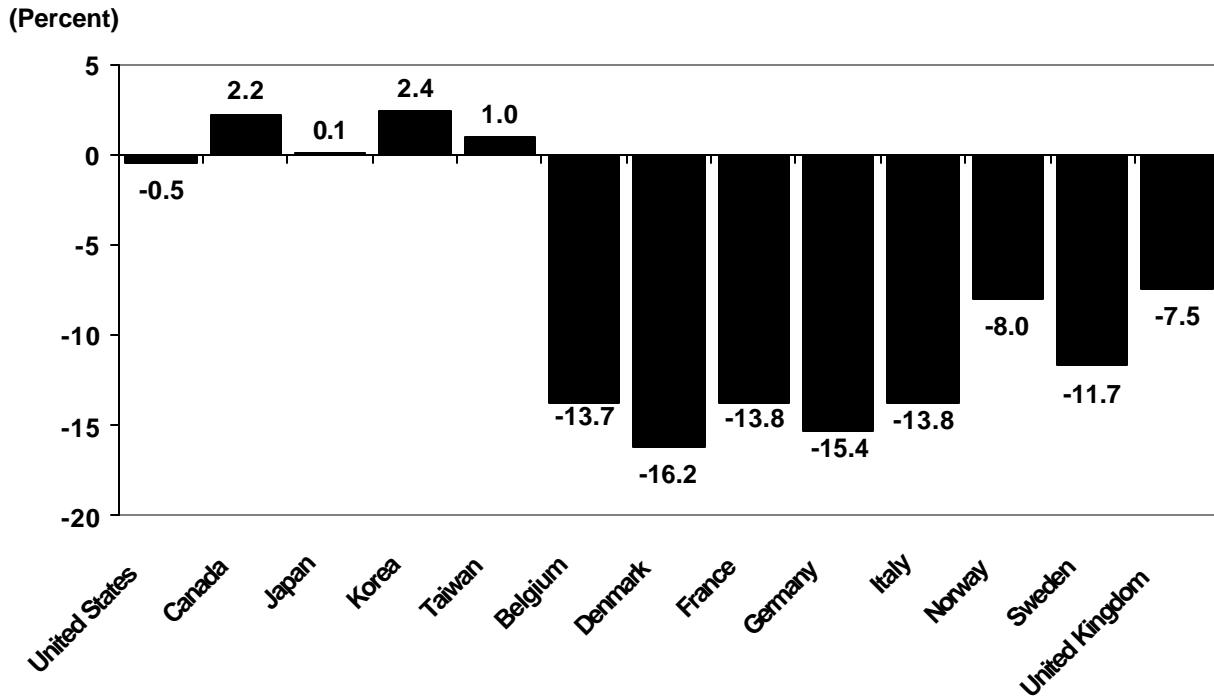


Table A summarizes changes in manufacturing productivity, unit labor costs, and related variables between 1999 and 2000. Output and unit labor cost data are presented for 13 economies. Comparable productivity data are not shown for Korea, Taiwan, and Denmark. (See technical notes.) No 2000 data are available for the Netherlands. Labor productivity rose in all 10 countries compared. In the United States, France, Germany, Italy, and the United Kingdom, output per hour rose because output increased while hours decreased. In Canada, Japan, Belgium, and Sweden, output per hour rose because output increased more than hours. Except for Norway, every country experienced an increase in output. Norway's growth in productivity was the result of a smaller decline in output than in hours worked.

Unit labor costs measured in national currencies are affected by the degree and direction of change in both hourly compensation and productivity. Of the 10 countries for which hours worked series are available, all, except Japan, showed an increase in both hourly compensation and labor productivity in 2000. In Canada and Norway, hourly compensation grew more than productivity, resulting in increases in unit labor costs in national currency units. In the remaining eight countries, productivity growth was greater than the rise in hourly compensation, causing unit labor costs to decline.

Table A. Manufacturing productivity and unit labor costs in 14 countries or areas
Percent change, 1999-2000

Country or area	Output per hour	Output		Employ- ment	Average hours	Total compen- sation	Hourly compen- sation	Unit labor costs		
		Output	Hours					National currency	U.S. dollars	Exchange rate (1)
United States	7.1	6.1	- 0.9	- 0.6	- 0.3	5.5	6.5	- 0.5	- 0.5	---
Canada	1.2	5.7	4.4	4.4	0.0	8.0	3.5	2.2	2.2	0.0
Japan	5.4	5.8	0.4	- 1.8	2.2	0.4	0.0	- 5.1	0.1	5.5
Korea (2)	NA	15.4	NA	NA	NA	12.3	NA	- 2.7	2.4	5.2
Taiwan (2)	NA	7.5	NA	NA	NA	5.0	NA	- 2.3	1.0	3.4
Belgium	3.0	3.6	0.6	1.8	- 1.2	3.2	2.6	- 0.4	-13.7	-13.3
Denmark	NA	6.3	NA	- 0.8	NA	3.3	NA	- 2.9	-16.2	-13.7
France	5.8	3.3	- 2.3	1.2	- 3.4	2.8	5.2	- 0.5	-13.8	-13.3
Germany	6.0	5.7	- 0.3	0.7	- 1.0	3.2	3.5	- 2.3	-15.4	-13.3
Italy	3.5	3.4	- 0.1	0.1	- 0.2	2.8	2.9	- 0.5	-13.8	-13.3
Netherlands	NA	NA	NA	NA	NA	NA	NA	NA	NA	-13.3
Norway	1.1	- 2.7	- 3.8	- 2.7	- 1.1	1.1	5.0	3.9	- 8.0	-11.4
Sweden	4.8	6.3	1.5	1.3	0.2	4.1	2.6	- 2.1	-11.7	- 9.8
United Kingdom	5.0	1.6	- 3.3	- 3.7	0.4	0.3	3.7	- 1.3	- 7.5	- 6.3

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

(2) Productivity not available because suitable labor input measures have not been developed by BLS.

NA=Not Available

Although the productivity measure 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 work force.

Table B (pages 9-13) shows average annual percent changes for selected periods, beginning in 1979. Annual indexes of the data are in tables 1-15 (pages 19-33).

Notes about the measures

The measures in this news release are based on data available to BLS as of June 2001. Revisions for 1999 and earlier years were made to the measures for several countries to incorporate data not available at the time of the April 2001 news release.

U.S. manufacturing output measure

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), U.S. Department of Commerce, in August 1996. This series is based on annually changing price weights.

The United States real output data through 1999 used in this report were released by the BEA in December 2000. The estimates are described in the *Survey of Current Business*, Vol. 80, No. 11, December 2000. The BLS estimate of real U.S. output for 2000 was derived by extrapolating the 1999 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 on quarterly measures of U.S. productivity and costs. While both series are based on annually-changing price weights, the international comparisons program uses a value added output concept, while the quarterly U.S. manufacturing series is on a sectoral output basis. For information on the differences between the value added and the sectoral output measures, see technical notes.

Germany

Time series data for the whole of Germany, termed Germany (unified) in previous BLS releases, are published by the German Federal Statistical Office, beginning with 1991. For years prior to 1991, only data for the former West Germany are available. Comparative indexes for the former West Germany also are included in this report for historical comparison purposes, although the data for West Germany end with 1998 and have not been updated or revised by BLS since they were published in the news release USDL 99-235, on Aug. 27, 1999.

Italy

Data for this release have been revised from 1980, to correspond to the *General industrial classification of economic activities within the European communities* (NACE), by including industry 23 (manufacture of coke, refined petroleum products, and nuclear fuel). Also, value added output was revalued at basic prices.

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.

(continued on next page)

Notes about the measures (continued)

European exchange rates

On Jan. 1, 1999, 11 European countries joined the European Monetary Union (EMU). Greece joined on Jan. 1, 2001. Currencies of EMU members are established at fixed conversion rates to the euro, the official currency of the EMU. Exchange rates between the national currencies of EMU 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 this news release, 2000 exchange rates in national currencies for Belgium, France, Germany, Italy, and the Netherlands are calculated by taking the number of euros per U.S. dollar and then converting euros into national currencies at fixed conversion rates.

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

In 2000, 1 euro was equal to 0.9232 U.S. dollars. The currency exchange rates cited in this publication are annual averages of daily buying rates in New York City.

Manufacturing productivity, output, and labor input

The 7.1 percent increase in U.S. output per hour in manufacturing in 2000 was the largest increase among all countries compared and 3 percentage points above the nation's average annual increase between 1990 and 2000. In 2000, U.S. output grew 6.1 percent and hours worked fell 0.9 percent, the third year in a row that U.S. manufacturing hours declined. (See table B.)

Of the 10 countries for which output per hour data are available, 9 experienced higher productivity growth in 2000 than in 1999. Only Canada experienced lower productivity growth. (See table B.)

For the 1990-2000 period, productivity grew in all nine countries for which these data are available. The rate of increase ranged from 4.7 percent per year for Sweden to 0.8 percent per year for Norway. The United States and France were the only countries other than Sweden that experienced productivity growth above 4 percent per year. (See table B.)

In 2000, manufacturing output increased in all of the countries, except Norway. Korean output grew by 15.4 percent in 2000. Increases in other countries in 2000 ranged from 7.5 percent (Taiwan) to 1.6 percent (the United Kingdom). Manufacturing output in Norway has declined for 2 consecutive years. (See table B.)

During 1990-2000, manufacturing output increased in all the countries compared; the lowest gain was 0.6 percent per year in the United Kingdom, and the highest was 8.2 percent per year in Korea. In 2000, all countries except Norway had higher output growth than the 1990-2000 average per year. (See table B.)

In 2000, total hours worked in manufacturing declined in 6 of the 10 countries for which comparable data were available and rose in 4. The largest declines were in Norway (3.8 percent) and the United Kingdom (3.3 percent). U.S. hours fell 0.9 percent, the third consecutive year that U.S. manufacturing hours declined. Hours worked in Canada increased 4.4 percent in 2000. Hours also rose in Japan, Belgium, and Sweden. (See table B.)

Total hours worked in manufacturing declined between 1990 and 2000 in all countries for which hours data are available, except Canada and Norway. Canadian hours worked rose at an average rate of 1.2 percent per year during the 1990-2000 period, while Norwegian hours worked rose 0.3 percent per year. For the other countries, the average 1990-2000 decline in hours ranged from 2.4 percent per year in Japan to 0.1 percent per year in the U.S. (See table B.)

Manufacturing hourly compensation and unit labor costs

Hourly compensation in manufacturing increased in 2000 in all the countries for which hours worked data were available, except Japan. The largest increases occurred in the United States (6.5 percent), France (5.2 percent), and Norway (5.0 percent). Hourly compensation in Japan was unchanged in 2000. (See table B.)

A percent change in unit labor costs can be expressed approximately as a percent change in hourly compensation minus a percent change in labor productivity. Therefore, an increase in unit labor costs indicates that labor compensation is rising faster than productivity, while the reverse is true for declining unit labor costs. Based on this relationship, table B shows that, for the pre-1990 periods of comparison for all countries except the Netherlands, average annual increases in hourly compensation in national currency surpassed average annual increases in labor productivity. (See table B.)

In 2000, unit labor costs, expressed in national currency units, declined in 11 of the countries compared and increased in 2. The largest declines occurred in Japan (5.1 percent), Denmark (2.9 percent), and Korea (2.7 percent). Only Canada (2.2 percent) and Norway (3.9 percent) experienced a rise in unit labor costs in 2000. In the U.S., unit labor costs decreased 0.5 percent in 2000, as productivity increased 7.1 percent and hourly compensation increased 6.5 percent.

From 1990 to 2000, U.S. unit labor costs decreased 0.4 percent per year. In addition to the U.S., four other countries—Japan, Belgium, France, and Sweden—experienced declines in unit labor costs over this time period, measured in their own currencies. (See tables B and 9.)

In 2000, the euro lost value against the U.S. dollar, from an average of \$1.0653 per euro in 1999 to \$0.9232 per euro in 2000, a drop of 13.3 percent. Consequently, the currencies of countries in the euro zone (Belgium, France, Germany, Italy, and the Netherlands) declined at the same rate. The currencies of all the other European countries (those not in the euro zone) also declined, by 6.3 to 13.7 percent. However, the currencies of Japan, Korea, and Taiwan appreciated in value against the U.S. dollar during 2000. The Japanese yen rose by 5.5 percent, the Korean won by 5.2 percent, and the Taiwanese dollar by 3.4 percent. The Canadian to U.S. dollar exchange rate was stable between 1999 and 2000. (See tables B and 11.)

Movements in the currency markets had a noticeable effect on comparative unit labor costs expressed in U.S. dollars. The strengthening of currencies in Japan, Korea, and Taiwan against the dollar in 2000 caused unit labor costs in these countries to rise when expressed in U.S. dollars, although they decreased in terms of their own currencies. The increases were 2.4 percent in Korea, 1.0 percent in Taiwan, and 0.1 percent in Japan. The weakening of European currencies against the dollar deepened the declines in their unit labor costs when valued in U.S. dollars, from 7.5 percent in the United Kingdom to 16.2 percent in Denmark. Unit labor costs declined also in Norway (8 percent), when expressed in dollars, while increasing in terms of its national currency. (See table B.)

Table B. Output per hour, hourly compensation, unit labor costs, and related measures
Manufacturing, 14 countries or areas, 1979-2000

Average annual rates of change¹

Country or area	1979-2000	1979-85	1985-90	1990-2000	1997	1998	1999	2000
Output per hour								
United States	3.5	3.5	2.4	4.1	3.6	4.5	6.6	7.1
Canada	2.1	3.4	0.5	2.1	2.8	-0.1	1.6	1.2
Japan	3.7	3.5	4.3	3.5	4.2	0.2	3.8	5.4
Korea	NA	NA	NA	NA	NA	NA	NA	NA
Taiwan	NA	NA	NA	NA	NA	NA	NA	NA
Belgium	3.7	6.0	2.2	3.2	8.3	1.6	0.1	3.0
Denmark	NA	2.1	0.5	NA	NA	NA	NA	NA
France	3.6	3.0	3.4	4.1	7.4	4.6	2.6	5.8
Germany	NA	NA	NA	NA	4.9	0.0	1.2	6.0
Italy	2.7	4.0	1.9	2.3	2.1	-0.4	0.7	3.5
Netherlands	NA	4.4	2.2	NA	1.8	2.2	2.2	NA
Norway	1.4	2.4	1.4	0.8	0.9	0.6	-0.5	1.1
Sweden	3.6	3.1	1.9	4.7	6.3	5.4	2.9	4.8
United Kingdom	3.6	4.4	4.6	2.7	1.4	1.3	4.2	5.0
Output								
United States	3.1	2.2	2.5	3.9	5.4	4.3	5.7	6.1
Canada	2.6	1.9	1.8	3.3	6.1	4.1	6.3	5.7
Japan	2.9	4.7	4.8	1.0	3.4	-5.9	0.8	5.8
Korea	9.2	8.3	12.2	8.2	6.6	-7.4	21.0	15.4
Taiwan	6.6	8.2	7.0	5.4	6.7	3.3	6.7	7.5
Belgium	2.3	2.6	2.5	1.9	6.7	2.2	1.2	3.6
Denmark	1.8	2.9	-0.2	2.2	8.0	2.0	-0.8	6.3
France	1.5	-0.4	2.6	2.0	4.9	4.8	2.0	3.3
Germany	NA	NA	NA	NA	3.4	1.5	0.4	5.7
Italy	1.7	0.9	3.2	1.4	3.2	1.5	-0.2	3.4
Netherlands	2.3	1.8	3.2	2.1	2.6	3.3	3.1	NA
Norway	0.3	0.6	-1.6	1.0	5.1	1.8	-3.2	-2.7
Sweden	2.9	2.2	1.4	4.0	5.3	6.9	4.1	6.3
United Kingdom	0.8	-1.2	3.4	0.6	1.3	0.5	0.0	1.6

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Table B. Output per hour, hourly compensation, unit labor costs, and related measures
Manufacturing, 14 countries or areas, 1979-2000

Average annual rates of change¹

Country or area	1979-2000	1979-85	1985-90	1990-2000	1997	1998	1999	2000
Total hours								
United States	-0.4	-1.2	0.0	-0.1	1.8	-0.2	-0.8	-0.9
Canada	0.5	-1.5	1.3	1.2	3.1	4.2	4.6	4.4
Japan	-0.7	1.1	0.5	-2.4	-0.8	-6.1	-2.9	0.4
Korea	NA	NA	NA	NA	NA	NA	NA	NA
Taiwan	NA	NA	NA	NA	NA	NA	NA	NA
Belgium	-1.4	-3.2	0.4	-1.3	-1.5	0.6	1.1	0.6
Denmark	NA	0.8	-0.6	NA	NA	NA	NA	NA
France	-2.1	-3.3	-0.8	-2.0	-2.3	0.2	-0.6	-2.3
Germany	NA	NA	NA	NA	-1.5	1.4	-0.8	-0.3
Italy	-1.0	-2.9	1.3	-0.9	1.0	2.0	-0.8	-0.1
Netherlands	NA	-2.5	1.0	NA	0.8	1.1	0.8	NA
Norway	-1.1	-1.8	-2.9	0.3	4.1	1.2	-2.7	-3.8
Sweden	-0.7	-0.8	-0.5	-0.7	-1.0	1.4	1.2	1.5
United Kingdom	-2.8	-5.3	-1.2	-2.0	-0.1	-0.8	-4.0	-3.3
Employment								
United States	-0.6	-1.4	-0.1	-0.4	1.0	0.7	-1.5	-0.6
Canada	0.3	-1.3	1.2	0.9	3.2	3.8	3.7	4.4
Japan	-0.3	1.2	0.8	-1.8	-0.2	-4.1	-2.7	-1.8
Korea	NA	NA	NA	NA	NA	NA	NA	NA
Taiwan	NA	NA	NA	NA	NA	NA	NA	NA
Belgium	-1.4	-2.6	-0.3	-1.3	-1.5	0.4	-1.0	1.8
Denmark	-0.2	1.0	-0.2	-0.9	-0.8	0.8	-2.1	-0.8
France	-1.6	-2.3	-0.9	-1.5	-2.1	0.4	-0.1	1.2
Germany	NA	NA	NA	NA	-1.5	0.4	-0.4	0.7
Italy	-1.1	-2.8	0.3	-0.7	0.6	2.2	-0.4	0.1
Netherlands	NA	-2.2	1.2	NA	1.2	1.3	0.8	NA
Norway	-1.0	-1.8	-2.7	0.3	4.3	1.0	-2.7	-2.7
Sweden	-1.3	-1.2	-0.8	-1.6	-1.1	1.2	1.0	1.3
United Kingdom	-2.5	-4.6	-0.9	-2.1	0.4	-0.1	-3.6	-3.7

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Table B. Output per hour, hourly compensation, unit labor costs, and related measures
Manufacturing, 14 countries or areas, 1979-2000

Average annual rates of change¹

Country or area	1979-2000	1979-85	1985-90	1990-2000	1997	1998	1999	2000
Average hours								
United States	0.2	0.2	0.1	0.2	0.7	-1.0	0.7	-0.3
Canada	0.1	-0.2	0.1	0.3	-0.1	0.3	0.9	0.0
Japan	-0.4	0.0	-0.3	-0.7	-0.6	-2.1	-0.2	2.2
Korea	NA	NA	NA	NA	NA	NA	NA	NA
Taiwan	NA	NA	NA	NA	NA	NA	NA	NA
Belgium	0.0	-0.6	0.7	0.0	0.1	0.2	2.1	-1.2
Denmark	NA	-0.3	-0.5	NA	NA	NA	NA	NA
France	-0.5	-1.0	0.1	-0.6	-0.3	-0.2	-0.5	-3.4
Germany	NA	NA	NA	NA	0.0	1.0	-0.4	-1.0
Italy	0.1	-0.1	1.0	-0.2	0.4	-0.2	-0.4	-0.2
Netherlands	NA	-0.3	-0.2	NA	-0.4	-0.2	0.0	NA
Norway	-0.1	0.0	-0.2	0.0	-0.2	0.1	0.0	-1.1
Sweden	0.6	0.4	0.3	0.9	0.1	0.2	0.2	0.2
United Kingdom	-0.3	-0.8	-0.3	0.1	-0.6	-0.6	-0.4	0.4
Total labor compensation in manufacturing²: National currency basis								
United States	4.3	5.8	3.9	3.5	3.7	5.1	3.1	5.5
Canada	5.4	7.5	5.6	4.1	5.3	6.4	6.0	8.0
Japan	2.9	5.9	5.1	0.0	2.6	-3.7	-3.0	0.4
Korea	14.5	18.7	19.7	9.5	-2.2	-9.4	5.7	12.3
Taiwan	9.7	15.9	10.7	5.5	5.0	4.8	4.0	5.0
Belgium	3.0	4.7	4.0	1.6	1.9	2.1	1.5	3.2
Denmark	4.9	9.0	4.6	2.8	3.7	3.8	2.5	3.3
France	4.0	9.1	3.6	1.2	0.1	2.5	2.0	2.8
Germany	NA	NA	NA	NA	0.5	2.3	0.9	3.2
Italy	7.3	13.1	8.2	3.6	4.9	0.8	2.5	2.8
Netherlands	NA	2.3	3.1	NA	3.4	4.2	4.0	NA
Norway	5.5	8.0	4.7	4.5	8.7	7.5	3.0	1.1
Sweden	6.0	8.9	7.9	3.3	3.4	5.7	3.7	4.1
United Kingdom	4.8	5.9	8.0	2.6	3.5	4.4	0.5	0.3

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Table B. Output per hour, hourly compensation, unit labor costs, and related measures
Manufacturing, 14 countries or areas, 1979-2000

Average annual rates of change¹

Country or area	1979-2000	1979-85	1985-90	1990-2000	1997	1998	1999	2000
Hourly compensation²: National currency basis								
United States	4.7	7.2	3.9	3.7	1.9	5.4	4.0	6.5
Canada	4.9	9.1	4.2	2.9	2.1	2.1	1.3	3.5
Japan	3.6	4.7	4.6	2.5	3.4	2.5	-0.2	0.0
Korea	NA	NA	NA	NA	NA	NA	NA	NA
Taiwan	NA	NA	NA	NA	NA	NA	NA	NA
Belgium	4.5	8.1	3.7	2.9	3.4	1.4	0.4	2.6
Denmark	NA	8.1	5.3	NA	NA	NA	NA	NA
France	6.2	12.8	4.5	3.3	2.5	2.3	2.6	5.2
Germany	NA	NA	NA	NA	2.0	0.9	1.7	3.5
Italy	8.4	16.5	6.8	4.5	3.8	-1.2	3.3	2.9
Netherlands	NA	5.0	2.1	NA	2.6	3.1	3.1	NA
Norway	6.7	10.0	7.8	4.3	4.4	6.3	5.8	5.0
Sweden	6.7	9.8	8.4	4.1	4.4	4.2	2.5	2.6
United Kingdom	7.8	11.8	9.3	4.7	3.7	5.3	4.7	3.7
Unit labor costs: National currency basis								
United States	1.1	3.6	1.4	-0.4	-1.7	0.8	-2.5	-0.5
Canada	2.8	5.5	3.7	0.8	-0.7	2.2	-0.2	2.2
Japan	-0.1	1.1	0.3	-1.0	-0.8	2.3	-3.8	-5.1
Korea	4.8	9.6	6.7	1.2	-8.3	-2.1	-12.7	-2.7
Taiwan	2.9	7.2	3.5	0.2	-1.6	1.4	-2.5	-2.3
Belgium	0.8	2.0	1.5	-0.3	-4.5	-0.2	0.3	-0.4
Denmark	3.1	5.9	4.8	0.6	-3.9	1.8	3.3	-2.9
France	2.5	9.5	1.0	-0.9	-4.5	-2.2	0.0	-0.5
Germany	NA	NA	NA	NA	-2.8	0.9	0.5	-2.3
Italy	5.5	12.0	4.8	2.2	1.7	-0.7	2.6	-0.5
Netherlands	NA	0.5	-0.1	NA	0.9	0.9	0.8	NA
Norway	5.3	7.4	6.4	3.5	3.5	5.6	6.4	3.9
Sweden	3.0	6.5	6.4	-0.7	-1.8	-1.2	-0.4	-2.1
United Kingdom	4.0	7.1	4.5	1.9	2.2	3.9	0.5	-1.3

Continued on next page

Table B. Output per hour, hourly compensation, unit labor costs, and related measures
Manufacturing, 14 countries or areas, 1979-2000

Average annual rates of change¹

Country or area	1979-2000	1979-85	1985-90	1990-2000	1997	1998	1999	2000
Unit labor costs: U.S. dollar basis								
United States	1.1	3.6	1.4	-0.4	-1.7	0.8	-2.5	-0.5
Canada	1.6	2.8	7.0	-1.6	-2.2	-4.6	-0.4	2.2
Japan	3.3	-0.3	10.8	2.0	-10.8	-5.4	10.8	0.1
Korea	0.7	-0.5	10.9	-3.4	-22.3	-33.5	2.8	2.4
Taiwan	3.6	5.4	12.0	-1.3	-6.0	-13.0	1.2	1.0
Belgium	-1.1	-9.3	13.8	-2.9	-17.4	-1.5	-3.8	-13.7
Denmark	1.0	-5.8	16.7	-2.1	-15.7	0.4	-0.9	-16.2
France	0.0	-3.3	11.6	-3.5	-16.4	-3.2	-4.2	-13.8
Germany	NA	NA	NA	NA	-15.7	-0.6	-3.7	-15.4
Italy	1.0	-2.5	15.1	-3.4	-7.9	-2.6	-1.9	-13.8
Netherlands	NA	-7.6	12.7	NA	-12.9	-0.7	-3.3	NA
Norway	2.5	-1.7	13.3	0.0	-5.7	-0.9	2.9	-8.0
Sweden	-0.6	-5.2	14.7	-4.9	-13.8	-5.0	-4.3	-11.7
United Kingdom	2.3	-1.3	11.3	0.3	7.2	5.2	-2.0	-7.5
Exchange rates³								
United States	---	---	---	---	---	---	---	---
Canada	-1.1	-2.5	3.2	-2.4	-1.5	-6.7	-0.1	0.0
Japan	3.4	-1.5	10.5	3.0	-10.1	-7.6	15.2	5.5
Korea	-4.0	-9.2	3.9	-4.5	-15.3	-32.1	17.7	5.2
Taiwan	0.7	-1.7	8.2	-1.5	-4.5	-14.2	3.8	3.4
Belgium	-1.9	-11.1	12.2	-2.6	-13.5	-1.4	-4.1	-13.3
Denmark	-2.0	-11.0	11.4	-2.6	-12.2	-1.4	-4.1	-13.7
France	-2.4	-11.7	10.5	-2.6	-12.4	-1.0	-4.2	-13.3
Germany	NA	NA	NA	NA	-13.3	-1.4	-4.2	-13.3
Italy	-4.3	-12.9	9.8	-5.4	-9.5	-1.9	-4.4	-13.3
Netherlands	-0.8	-8.0	12.7	-2.7	-13.6	-1.6	-4.1	-13.3
Norway	-2.6	-8.4	6.6	-3.4	-8.8	-6.2	-3.3	-11.4
Sweden	-3.6	-11.0	7.8	-4.3	-12.2	-3.9	-3.9	-9.8
United Kingdom	-1.6	-7.9	6.6	-1.6	4.9	1.2	-2.4	-6.3

¹Rates of change based on the compound rate method.

²Adjusted to include employment taxes that are not compensation to employees but are labor costs to employers.

³Value of foreign currency relative to the U.S. dollar.

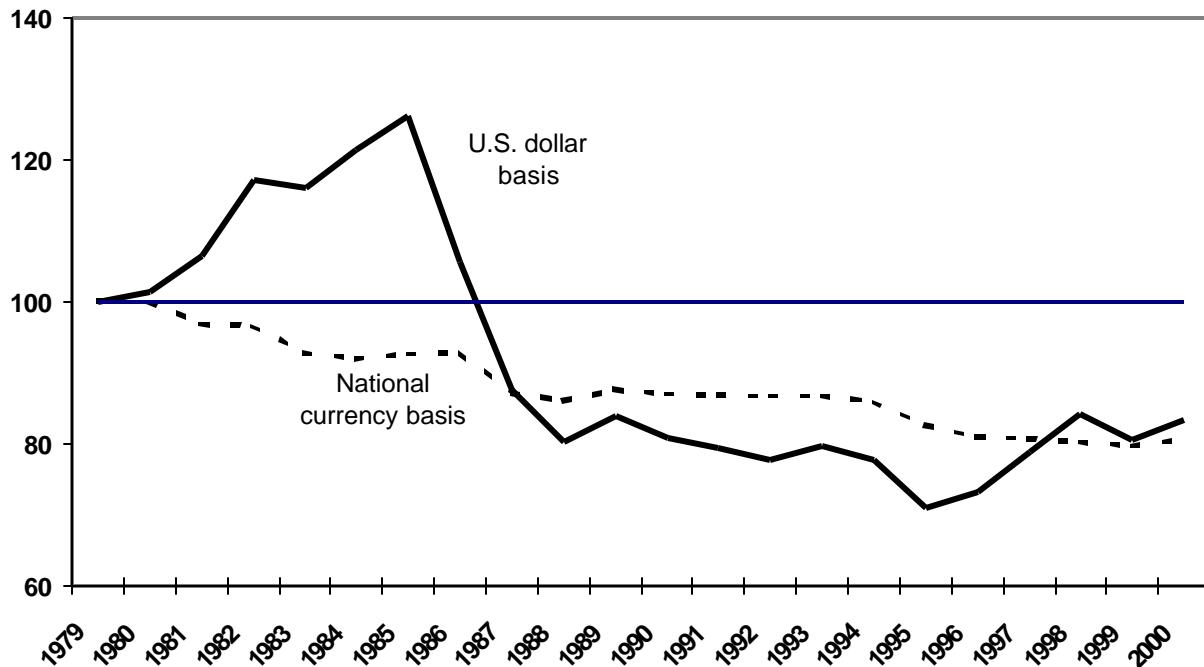
NA = Not available.

Trade-weighted unit labor costs

Because the economies covered differ greatly in their relative importance to U.S. trade in manufactured goods, 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. (See chart 4.)

Chart 4. U.S. manufacturing unit labor costs relative to 12 competitors, 1979-2000

(1979 = 100)



The construction of the indexes shown in chart 4 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 chart 4, 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 1995 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. The data underlying this chart are shown in table C.

Table C. U.S. manufacturing unit labor costs relative to 12 competitors, 1979-2000

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	111.5	99.9	111.4	109.8	101.5
1981	116.5	120.4	96.8	116.5	109.5	106.4
1982	124.2	128.6	96.6	124.2	105.9	117.3
1983	121.6	131.0	92.8	121.6	104.8	116.0
1984	121.0	131.7	91.9	121.0	99.7	121.4
1985	123.4	133.2	92.6	123.4	97.7	126.2
1986	128.9	138.8	92.8	128.9	122.2	105.5
1987	122.8	141.0	87.1	122.8	140.2	87.6
1988	122.5	142.4	86.1	122.5	153.0	80.1
1989	128.0	146.1	87.6	128.0	152.7	83.8
1990	132.4	152.2	87.0	132.4	164.1	80.7
1991	138.0	159.0	86.8	138.0	174.2	79.3
1992	141.3	163.1	86.7	141.3	181.9	77.7
1993	142.3	164.1	86.7	142.3	178.6	79.6
1994	139.2	162.0	85.9	139.2	179.1	77.7
1995	134.0	162.3	82.6	134.0	189.2	70.8
1996	132.1	163.3	80.9	132.1	180.8	73.1
1997	129.9	161.0	80.7	129.9	165.0	78.8
1998	131.0	163.3	80.2	131.0	155.5	84.2
1999	127.8	160.3	79.7	127.8	158.8	80.5
2000	127.1	157.5	80.7	127.1	152.6	83.3

TECHNICAL NOTES

The Bureau of Labor Statistics constructs trend indexes of manufacturing labor productivity (output per hour), 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 Korea, Taiwan, Belgium, Denmark, and Italy. 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 1960 to 1966.

The comparisons in this news release make use of data made available to BLS as of June 2001 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 compiled according to different accounting systems.

Output. For most countries, the output measures are 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 national accounts measures for the United Kingdom are essentially identical to their indexes of industrial production.

In this release, manufacturing output data for the United States from 1977 forward are the gross product originating (value added) measures prepared by the Bureau of Economic Analysis (BEA) of the U.S. Department of Commerce. U. S. gross product originating is a chain-type annual-weighted series.¹ Comparable manufacturing output data are not available prior to 1977.

The gross product originating series differs from the manufacturing output series that BLS publishes on quarterly measures of U.S. productivity and costs. The quarterly measures are on a sectoral output basis rather than a value added basis. Sectoral output is gross output less intra-sector sales and transfers.²

A value added concept has been used for the international comparisons series because the data are more readily available in 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 single factor productivity (output per hour), there are other considerations that may make value added a better concept for international comparisons, such as differences among countries in the extent of vertical integration.

Estimation of manufacturing real output using moving weights is becoming prevalent. However, many 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. 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; earlier figures are BLS estimates. For the United Kingdom from 1992, an index of total manufacturing hours is used, derived from published quarterly indices of manufacturing hours. For other countries, the United Kingdom before 1992, and the former West Germany before 1959, BLS constructs its own estimates of average hours, using employment figures published with the national accounts, or other comprehensive employment series, and estimates of average annual hours worked. BLS is in the process of assessing the comparability of the employment and hours time series data available from statistical sources in Denmark, Korea, and Taiwan.

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).

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 Korea and Taiwan. BLS developed weights for Korea and 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	24.46	Italy	4.44
Japan	29.54	Norway	0.46
Belgium	2.06	Sweden	1.83
Denmark	0.46	United Kingdom	8.68
France	5.70	Korea	5.55
Germany	11.22	Taiwan	5.60

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 for total GDP are not suitable for each component industry, such as manufacturing.

¹ For more information on the U. S. measure, see Sherlene K.S. Lum, Brian C. Moyer, and Robert E. Yuskaage, "Improved Estimates of Gross Product by Industry for 1947-98," *Survey of Current Business*, June 2000, pp. 24-38.

² For information on sectoral output, see William Gullickson, "Measurement of productivity growth in U.S. manufacturing," *Monthly Labor Review*, July 1995, pp. 13-28.

Table 1. Output per hour in manufacturing, 14 countries or areas, 1950-2000
 (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	26.5	NA	NA	NA	NA	22.6	13.4	NA	13.2	12.2	11.2	24.7	19.5	24.5
1955	NA	32.5	8.6	NA	NA	NA	24.6	16.8	NA	19.7	17.0	14.3	28.7	21.3	26.5
1960	NA	38.5	13.8	NA	NA	18.0	29.9	21.9	NA	29.2	21.3	18.5	37.0	27.3	30.0
1961	NA	40.6	15.6	NA	NA	18.2	31.6	23.3	NA	30.6	23.0	19.5	38.3	28.7	30.1
1962	NA	43.6	16.4	NA	NA	19.2	33.2	24.8	NA	32.8	25.5	20.2	38.3	30.9	30.7
1963	NA	45.4	17.7	NA	NA	19.9	34.3	26.1	NA	34.1	26.2	21.0	40.3	32.7	32.4
1964	NA	47.2	20.1	NA	NA	21.2	37.1	28.1	NA	37.1	26.4	23.0	42.6	35.5	34.5
1965	NA	49.5	21.0	NA	NA	22.3	38.9	30.1	NA	39.3	29.5	24.5	45.1	38.2	35.5
1966	NA	50.4	23.0	NA	NA	23.8	40.8	32.5	NA	40.9	32.0	26.1	47.0	39.8	36.7
1967	NA	50.9	26.0	NA	NA	25.1	43.8	34.6	NA	43.4	33.6	28.1	48.7	43.2	38.4
1968	NA	53.8	29.1	NA	NA	27.3	47.8	38.2	NA	47.0	36.3	31.5	51.7	47.2	41.3
1969	NA	56.4	33.4	NA	NA	29.9	49.8	40.6	NA	50.4	37.6	34.6	56.5	50.9	42.3
1970	NA	56.0	37.5	NA	NA	32.9	52.7	43.0	NA	52.0	40.0	37.8	58.3	52.2	43.2
1971	NA	59.4	39.8	NA	NA	35.1	56.3	45.5	NA	54.0	40.6	40.1	60.0	54.5	45.4
1972	NA	62.5	43.6	NA	NA	39.2	60.8	47.6	NA	57.4	44.1	43.3	63.1	57.2	47.9
1973	NA	66.5	47.6	NA	NA	43.5	66.9	50.9	NA	61.1	47.7	47.9	66.9	61.4	51.4
1974	NA	67.5	48.8	NA	NA	45.8	69.1	52.1	NA	63.2	50.8	51.5	69.5	64.0	52.2
1975	NA	64.7	50.2	NA	NA	47.6	76.1	53.9	NA	65.9	49.1	50.8	68.8	65.0	51.1
1976	NA	70.1	53.2	NA	NA	52.4	78.8	57.2	NA	70.6	55.9	56.3	70.5	66.0	53.3
1977	68.3	73.9	55.3	NA	NA	55.0	80.4	60.6	NA	72.7	57.0	60.9	71.5	65.0	53.8
1978	69.2	75.2	57.5	NA	NA	58.3	81.6	63.3	NA	75.2	60.7	64.9	72.8	66.8	54.6
1979	70.1	75.3	62.2	NA	NA	61.4	85.6	66.2	NA	78.4	66.5	68.1	78.1	72.0	55.0
1980	70.5	74.4	63.2	NA	NA	65.4	90.3	66.6	NA	77.2	69.6	68.7	76.7	73.1	54.3
1981	74.1	78.0	65.2	NA	NA	70.1	91.8	68.5	NA	78.7	70.3	70.3	76.5	72.7	57.1
1982	76.2	77.3	67.9	NA	NA	73.5	92.1	73.3	NA	78.8	71.0	71.6	79.7	75.4	60.2
1983	80.0	82.2	68.8	NA	NA	81.0	96.6	75.0	NA	82.6	73.4	77.3	82.4	80.9	65.0
1984	83.2	90.2	71.1	NA	NA	85.0	96.1	76.2	NA	85.4	79.6	84.8	87.4	85.2	68.4
1985	86.0	92.2	76.5	NA	NA	87.0	96.7	79.1	NA	89.1	84.1	88.4	90.2	86.2	71.1
1986	86.0	89.6	76.1	NA	NA	87.8	91.1	80.4	NA	89.6	84.5	90.1	89.0	87.5	73.9
1987	92.9	90.3	80.2	NA	NA	88.9	90.6	81.9	NA	88.1	86.0	90.9	93.3	89.2	78.1
1988	96.9	90.7	83.9	NA	NA	92.0	94.1	87.5	NA	91.5	87.2	93.0	92.2	90.5	82.6
1989	95.7	93.2	88.5	NA	NA	96.9	99.6	91.9	NA	94.6	89.6	96.8	94.6	93.2	86.2
1990	96.9	94.7	94.4	NA	NA	96.8	99.1	93.6	NA	99.0	92.2	98.4	96.6	94.6	89.1
1991	97.9	95.5	99.0	NA	NA	99.1	99.6	96.9	99.0	101.9	95.4	99.5	97.5	95.5	93.8
1992	100.0	100.0	100.0	NA	NA	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1993	102.1	104.9	101.7	NA	NA	102.5	104.5	100.6	101.8	100.6	103.1	101.5	100.6	107.3	103.9
1994	107.3	109.7	103.3	NA	NA	108.4	NA	108.6	109.9	107.9	105.8	113.2	101.4	119.4	107.1
1995	113.8	111.3	111.0	NA	NA	113.2	NA	114.7	112.8	111.2	109.4	118.0	102.0	121.9	104.8
1996	117.0	110.1	116.1	NA	NA	117.1	NA	115.3	115.3	115.1	109.3	120.1	102.0	124.5	103.5
1997	121.2	113.2	121.0	NA	NA	126.8	NA	123.8	121.0	121.8	111.6	122.2	103.0	132.3	105.0
1998	126.7	113.1	121.2	NA	NA	128.8	NA	129.5	121.0	127.1	111.1	124.9	103.6	139.5	106.3
1999	135.1	114.9	125.8	NA	NA	128.9	NA	132.9	122.4	NA	111.8	127.7	103.1	143.5	110.8
2000	144.7	116.3	132.6	NA	NA	132.8	NA	140.5	129.8	NA	115.7	NA	104.2	150.4	116.4

NA: Not Available

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

** See note on Germany in box on page 5.

Source: U.S. Department of Labor, Bureau of Labor Statistics, August 2001.

Table 2. Output per employed person in manufacturing, 14 countries or areas, 1950-2000
 (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	28.8	NA	NA	NA	NA	31.8	16.2	NA	19.2	13.4	14.6	32.3	25.3	30.1
1955	NA	34.1	10.3	NA	NA	NA	34.0	20.2	NA	28.8	19.2	18.7	37.7	27.5	32.9
1960	NA	40.1	17.1	NA	NA	22.6	39.2	26.5	NA	38.4	24.3	24.4	46.7	33.3	36.5
1961	NA	42.1	19.1	NA	NA	22.9	40.2	28.3	NA	39.6	26.0	24.7	47.6	34.7	36.1
1962	NA	45.5	19.6	NA	NA	24.1	42.6	30.0	NA	41.3	27.9	25.4	47.4	37.1	36.5
1963	NA	47.5	21.0	NA	NA	25.0	43.3	31.7	NA	42.4	28.8	26.3	49.7	38.9	38.5
1964	NA	49.7	23.7	NA	NA	26.5	47.2	33.9	NA	46.1	29.1	28.5	52.8	41.8	41.3
1965	NA	52.1	24.3	NA	NA	27.4	49.5	35.9	NA	48.7	31.3	30.3	54.6	44.5	42.0
1966	NA	52.6	26.8	NA	NA	29.1	51.0	39.1	NA	50.0	34.4	32.1	57.1	46.4	42.6
1967	NA	53.2	30.4	NA	NA	30.3	54.1	41.1	NA	51.7	36.6	34.4	58.6	49.5	44.2
1968	NA	56.0	33.9	NA	NA	33.0	57.7	44.1	NA	56.6	39.5	37.9	60.7	52.9	48.0
1969	NA	58.6	38.3	NA	NA	35.7	59.3	48.1	NA	60.7	40.7	41.1	64.9	56.1	49.1
1970	NA	57.8	42.6	NA	NA	38.3	60.8	50.3	NA	62.4	42.5	44.0	66.3	57.4	49.4
1971	NA	61.0	44.5	NA	NA	40.2	64.6	52.8	NA	63.4	42.0	46.2	67.6	59.8	50.6
1972	NA	64.3	48.5	NA	NA	43.9	68.4	54.7	NA	66.6	45.3	49.2	70.0	61.1	52.9
1973	NA	67.9	52.4	NA	NA	47.6	71.2	57.6	NA	70.4	49.6	53.4	73.9	64.4	57.5
1974	NA	68.5	51.5	NA	NA	48.7	75.0	58.1	NA	71.4	50.9	55.6	75.6	66.5	56.6
1975	NA	64.8	51.8	NA	NA	48.0	79.9	58.4	NA	72.5	48.4	53.8	74.5	66.2	55.2
1976	NA	70.3	56.5	NA	NA	53.8	83.2	62.1	NA	79.9	55.0	59.6	74.2	66.4	58.1
1977	67.1	74.0	58.9	NA	NA	56.1	84.1	65.2	NA	81.1	55.9	64.2	74.1	64.9	59.0
1978	67.9	76.0	61.5	NA	NA	59.4	84.3	67.6	NA	82.8	59.4	67.7	73.9	64.9	59.6
1979	68.4	75.7	67.0	NA	NA	62.6	88.4	70.6	NA	86.0	64.6	70.2	78.0	69.0	59.8
1980	67.9	74.0	68.0	NA	NA	65.6	93.9	71.0	NA	83.5	67.7	71.3	77.0	69.3	57.4
1981	71.4	76.9	69.7	NA	NA	68.7	94.3	72.1	NA	84.1	68.4	73.3	76.9	69.3	59.2
1982	72.1	75.7	72.3	NA	NA	73.7	96.0	74.0	NA	83.7	68.9	75.4	79.4	72.1	62.9
1983	77.8	81.5	73.4	NA	NA	79.2	102.1	75.4	NA	87.9	71.3	81.5	82.5	78.3	67.8
1984	82.0	89.3	76.6	NA	NA	82.5	101.2	76.7	NA	90.9	77.3	88.1	87.4	84.0	71.4
1985	84.9	91.9	82.1	NA	NA	85.7	98.4	79.2	NA	93.1	81.0	89.5	89.8	84.4	73.8
1986	84.8	89.6	81.2	NA	NA	86.5	94.9	80.6	NA	93.0	83.4	90.9	88.7	85.3	76.4
1987	92.1	91.1	86.0	NA	NA	88.4	92.2	82.6	NA	91.3	86.4	91.2	90.7	88.0	80.9
1988	96.9	93.4	90.9	NA	NA	93.0	95.8	88.6	NA	94.4	90.6	94.0	90.3	89.1	85.7
1989	95.7	93.9	94.8	NA	NA	97.5	100.2	92.9	NA	96.2	92.9	97.3	93.3	91.5	89.0
1990	96.3	94.9	99.7	NA	NA	98.5	98.4	94.1	NA	98.8	93.4	98.8	95.1	94.0	91.2
1991	96.6	95.3	102.2	NA	NA	99.2	99.3	96.4	94.7	101.0	95.5	99.7	96.4	94.7	93.9
1992	100.0	100.0	100.0	NA	NA	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1993	103.4	106.0	99.6	NA	NA	100.9	103.6	100.5	99.4	97.6	101.1	101.5	100.9	110.0	104.9
1994	109.7	111.9	101.4	NA	NA	109.7	114.0	108.5	107.9	104.7	106.6	113.2	101.9	127.3	109.5
1995	115.6	113.1	109.7	NA	NA	113.3	116.9	113.9	110.6	107.3	110.3	118.4	101.6	131.2	109.1
1996	118.7	112.6	115.4	NA	NA	117.6	111.6	114.5	110.4	109.3	109.3	120.3	101.1	134.2	108.0
1997	123.9	115.7	119.6	NA	NA	127.5	121.4	122.7	115.9	116.0	112.1	122.0	101.9	142.9	109.0
1998	128.2	116.0	117.3	NA	NA	129.8	122.9	128.0	117.1	122.3	111.3	124.4	102.6	150.9	109.6
1999	137.7	118.9	121.5	NA	NA	132.7	124.5	130.7	118.0	NA	111.6	127.2	102.1	155.7	113.8
2000	147.0	120.3	130.9	NA	NA	135.1	133.4	133.5	123.8	NA	115.3	NA	102.0	163.5	120.0

NA: Not Available

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

** See note on Germany in box on page 5.

Source: U.S. Department of Labor, Bureau of Labor Statistics, August 2001.

Table 3. Output in manufacturing, 14 countries or areas, 1950-2000
 (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	22.5	2.2	NA	NA	NA	26.8	18.4	NA	14.5	10.1	16.7	38.5	30.9	49.6
1955	NA	29.1	4.9	NA	NA	NA	29.4	22.9	NA	27.5	15.6	22.8	47.2	35.7	58.3
1960	NA	34.0	10.7	NA	NA	30.7	40.8	31.0	NA	41.5	23.0	31.5	57.0	45.9	67.3
1961	NA	35.4	12.9	NA	NA	32.1	43.0	33.3	NA	44.0	25.4	32.6	59.4	49.0	67.6
1962	NA	39.3	14.0	NA	NA	34.6	46.7	35.7	NA	46.2	28.1	34.2	59.8	52.8	67.7
1963	NA	42.0	15.6	NA	NA	36.2	47.3	38.4	NA	47.1	29.9	35.7	63.4	55.4	70.2
1964	NA	45.9	18.1	NA	NA	39.5	52.9	42.0	NA	51.2	30.3	39.0	67.9	60.3	76.5
1965	NA	50.5	18.8	NA	NA	40.8	56.3	44.1	NA	55.0	31.9	41.7	71.5	64.5	78.7
1966	NA	53.9	21.3	NA	NA	43.2	57.5	48.1	NA	55.9	34.8	44.0	75.8	66.3	80.1
1967	NA	55.0	25.6	NA	NA	43.7	58.1	50.4	NA	54.7	38.3	45.7	78.2	68.5	80.6
1968	NA	58.1	29.5	NA	NA	46.7	62.6	53.2	NA	60.3	41.8	50.1	80.1	72.0	86.6
1969	NA	61.9	34.4	NA	NA	52.2	66.0	59.6	NA	67.4	44.5	54.9	86.0	77.7	89.9
1970	NA	60.0	39.2	7.0	12.7	57.6	68.0	64.1	NA	70.9	48.1	59.1	89.9	80.7	90.2
1971	NA	63.7	41.0	8.3	15.5	60.1	69.4	68.1	NA	71.6	48.8	61.1	92.3	81.2	89.3
1972	NA	69.2	44.7	9.5	18.9	64.7	75.3	71.3	NA	73.8	51.5	62.7	96.5	81.7	91.2
1973	NA	76.4	50.4	12.3	22.3	70.6	79.5	76.7	NA	78.5	58.1	67.2	102.0	87.5	99.7
1974	NA	77.9	49.1	14.3	21.0	73.4	80.7	78.2	NA	77.7	61.8	69.7	105.6	92.2	98.4
1975	NA	71.8	46.6	16.2	22.0	67.9	78.7	76.6	NA	74.1	58.3	65.1	103.2	92.5	91.6
1976	NA	77.9	50.6	19.9	27.0	73.0	82.5	81.1	NA	79.8	66.9	69.1	102.8	92.5	93.3
1977	72.5	80.3	52.2	22.8	30.6	73.3	82.9	84.8	NA	81.3	69.3	72.5	102.7	87.2	95.2
1978	76.5	84.9	53.7	27.5	37.1	74.3	82.7	86.8	NA	82.8	72.7	74.8	100.6	84.9	95.7
1979	79.0	87.6	58.4	30.1	40.0	76.2	87.4	89.3	NA	87.1	80.3	76.7	104.7	90.3	95.5
1980	75.8	85.2	60.4	29.9	44.0	78.2	91.3	88.7	NA	85.3	84.4	76.8	103.6	90.7	87.2
1981	79.2	88.3	62.6	32.7	47.3	77.2	88.4	87.3	NA	84.4	81.8	77.0	101.7	88.0	81.8
1982	74.6	78.9	64.6	34.6	48.5	80.4	89.8	88.2	NA	81.5	80.2	76.1	101.3	88.3	81.7
1983	79.2	82.7	66.6	39.5	54.1	84.6	95.8	88.0	NA	82.7	79.6	78.5	99.9	93.9	83.5
1984	87.6	93.2	71.0	46.0	62.2	87.2	100.3	87.0	NA	85.2	82.2	83.0	104.7	101.3	86.5
1985	90.0	98.1	76.7	48.8	64.3	89.1	103.5	87.3	NA	88.3	84.9	85.4	108.5	102.9	89.0
1986	88.6	98.9	75.5	57.9	74.7	89.1	103.5	87.3	NA	89.7	86.4	87.6	108.1	104.0	90.2
1987	96.4	103.6	79.0	68.5	84.3	88.8	99.3	87.2	NA	88.0	89.0	88.8	110.7	106.6	94.5
1988	103.2	109.9	85.3	76.7	87.7	93.3	100.8	92.2	NA	90.9	95.0	92.1	105.3	109.8	101.4
1989	102.4	112.1	90.9	79.4	90.8	99.1	104.3	97.2	NA	94.0	98.3	96.6	101.3	110.9	105.5
1990	101.6	107.5	97.1	86.7	90.0	101.0	102.7	99.1	NA	99.1	99.4	99.9	100.2	110.1	105.3
1991	98.3	99.2	102.0	95.0	96.1	100.7	101.7	99.8	102.3	102.8	99.3	100.4	98.3	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	105.0	96.3	105.4	102.4	97.0	99.0	95.7	92.5	91.8	96.5	98.4	102.7	101.9	101.4
1994	111.1	113.0	94.9	116.8	108.5	101.4	109.3	100.3	95.2	93.5	102.4	104.6	106.7	117.1	106.1
1995	118.4	118.5	98.9	129.9	114.9	104.2	114.7	104.9	95.3	93.7	107.2	108.1	109.0	128.4	107.8
1996	121.3	120.0	103.0	138.7	120.3	106.6	109.7	104.6	92.6	92.5	105.4	108.7	110.1	131.1	108.2
1997	127.9	127.3	106.5	147.8	128.3	113.8	118.5	109.7	95.7	95.8	108.8	111.5	115.7	138.0	109.6
1998	133.3	132.5	100.2	136.8	132.6	116.3	120.8	115.0	97.1	100.7	110.5	115.2	117.7	147.6	110.1
1999	141.0	140.8	101.0	165.6	141.5	117.7	119.8	117.3	97.5	NA	110.2	118.7	114.0	153.6	110.1
2000	149.5	148.8	106.9	191.1	152.0	122.0	127.4	121.2	103.0	NA	113.9	NA	110.9	163.4	111.9

NA: Not Available

** See note on Germany in box on page 5.

Source: U.S. Department of Labor, Bureau of Labor Statistics, August 2001.

Table 4. Total hours in manufacturing, 14 countries or areas, 1950-2000
 (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	118.7	137.1	NA	109.8	83.1	148.6	156.1	158.5	202.2
1955	94.6	89.4	57.0	NA	NA	NA	119.8	136.1	NA	139.6	92.0	159.1	164.2	167.3	220.2
1960	92.1	88.3	77.8	NA	NA	170.7	136.5	141.2	NA	142.3	108.1	170.6	154.1	168.3	224.6
1961	89.7	87.2	82.4	NA	NA	175.9	136.2	142.8	NA	143.9	110.3	167.1	154.9	171.0	224.7
1962	93.4	90.3	85.2	NA	NA	180.3	140.7	144.0	NA	140.8	110.2	169.2	156.3	170.8	220.3
1963	94.4	92.6	87.9	NA	NA	181.8	138.0	147.3	NA	138.1	114.3	169.5	157.3	169.1	216.6
1964	96.4	97.2	90.0	NA	NA	186.5	142.6	149.1	NA	138.0	114.6	170.0	159.6	169.6	221.7
1965	102.0	101.9	89.8	NA	NA	183.2	144.9	146.4	NA	140.0	108.2	170.4	158.5	168.8	221.5
1966	108.6	106.8	92.8	NA	NA	181.5	140.8	147.8	NA	136.7	108.8	168.3	161.2	166.5	218.2
1967	108.0	107.9	98.3	NA	NA	173.6	132.7	145.8	NA	125.9	113.8	162.7	160.5	158.4	209.8
1968	109.6	108.2	101.4	NA	NA	170.9	130.9	139.3	NA	128.3	115.4	158.8	155.0	152.6	209.6
1969	110.9	109.7	103.0	NA	NA	174.9	132.7	146.9	NA	133.8	118.5	158.5	152.1	152.5	212.4
1970	104.4	107.1	104.4	NA	NA	174.7	129.0	148.9	NA	136.3	120.2	156.2	154.3	154.7	208.8
1971	100.5	107.4	103.1	NA	NA	171.4	123.3	149.6	NA	132.5	120.0	152.4	153.8	149.1	196.9
1972	105.1	110.8	102.6	NA	NA	165.2	123.8	149.8	NA	128.7	116.8	144.9	153.0	142.9	190.5
1973	110.4	114.9	106.0	NA	NA	162.1	118.8	150.6	NA	128.4	121.7	140.2	152.5	142.5	194.1
1974	107.9	115.5	100.6	NA	NA	160.4	116.7	150.2	NA	122.9	121.7	135.4	151.9	144.0	188.5
1975	97.2	111.1	92.8	NA	NA	142.6	103.5	142.2	NA	112.5	118.6	128.2	150.0	142.3	179.3
1976	101.9	111.1	95.1	NA	NA	139.4	104.7	141.8	NA	113.1	119.8	122.7	145.8	140.2	175.1
1977	106.1	108.8	94.4	NA	NA	133.3	103.1	140.0	NA	111.8	121.5	119.1	143.6	134.2	176.9
1978	110.6	112.8	93.4	NA	NA	127.4	101.4	137.2	NA	110.1	119.7	115.2	138.3	127.1	175.4
1979	112.7	116.2	93.8	NA	NA	124.2	102.1	134.8	NA	111.0	120.7	112.7	134.0	125.5	173.7
1980	107.5	114.6	95.6	NA	NA	119.7	101.1	133.2	NA	110.5	121.3	111.8	135.0	124.0	160.5
1981	107.0	113.2	95.9	NA	NA	110.2	96.3	127.4	NA	107.1	116.4	109.4	133.0	121.0	143.3
1982	97.9	102.0	95.1	NA	NA	109.4	97.5	120.2	NA	103.4	113.0	106.3	127.1	117.2	135.6
1983	98.9	100.7	96.8	NA	NA	104.3	99.2	117.4	NA	100.1	108.4	101.6	121.2	116.1	128.4
1984	105.3	103.4	99.8	NA	NA	102.6	104.4	114.2	NA	99.7	103.2	97.9	119.7	118.9	126.4
1985	104.6	106.4	100.3	NA	NA	102.4	107.0	110.4	NA	99.1	100.8	96.7	120.2	119.4	125.2
1986	103.0	110.5	99.2	NA	NA	101.5	113.7	108.6	NA	100.1	102.2	97.3	121.6	118.9	122.0
1987	103.8	114.7	98.5	NA	NA	100.0	109.6	106.5	NA	99.9	103.5	97.7	118.6	119.5	121.0
1988	106.6	121.2	101.7	NA	NA	101.5	107.2	105.4	NA	99.3	109.0	99.0	114.3	121.4	122.8
1989	107.1	120.2	102.7	NA	NA	102.3	104.7	105.8	NA	99.3	109.8	99.8	107.1	119.0	122.4
1990	104.8	113.5	102.9	NA	NA	104.3	103.7	105.9	NA	100.1	107.8	101.5	103.7	116.4	118.1
1991	100.4	103.9	103.1	NA	NA	101.5	102.1	103.1	103.3	100.9	104.2	101.0	100.8	109.0	106.6
1992	100.0	100.0	100.0	NA	NA	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	NA	NA	94.7	94.8	95.1	90.8	91.3	93.6	96.9	102.1	94.9	97.6
1994	103.6	103.0	91.9	NA	NA	93.6	NA	92.4	86.6	86.7	96.8	92.4	105.2	98.1	99.1
1995	104.0	106.4	89.1	NA	NA	92.0	NA	91.5	84.5	84.3	98.0	91.6	106.8	105.3	102.8
1996	103.6	109.0	88.7	NA	NA	91.1	NA	90.7	80.3	80.4	96.5	90.5	107.9	105.3	104.6
1997	105.5	112.4	88.0	NA	NA	89.7	NA	88.6	79.1	78.6	97.5	91.2	112.3	104.3	104.4
1998	105.2	117.1	82.7	NA	NA	90.3	NA	88.8	80.2	79.3	99.4	92.2	113.6	105.8	103.6
1999	104.3	122.6	80.3	NA	NA	91.3	NA	88.3	79.6	NA	98.6	93.0	110.6	107.1	99.4
2000	103.4	128.0	80.6	NA	NA	91.8	NA	86.2	79.4	NA	98.5	NA	106.4	108.6	96.1

NA: Not Available

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

** See note on Germany in box on page 5.

Source: U.S. Department of Labor, Bureau of Labor Statistics, August 2001.

Table 5. Employment in manufacturing, 14 countries or areas, 1950-2000
 (Indexes: 1992=100)

Year	United States	Canada	Japan	Korea	Taiwan	Belgium	Denmark	France	Germany	Former West Germany**	Italy	Nether-lands	Norway	Sweden	United Kingdom
1950	84.3	77.9	NA	NA	NA	NA	84.4	113.7	NA	75.2	75.4	114.1	119.2	122.0	164.7
1955	93.1	85.3	47.8	NA	NA	NA	86.7	113.3	NA	95.5	81.4	121.8	125.1	129.7	177.1
1960	92.6	84.8	62.8	NA	NA	135.7	104.1	116.9	NA	108.1	94.6	129.4	122.2	137.8	184.4
1961	90.0	84.1	67.5	NA	NA	140.1	107.0	117.7	NA	111.3	97.5	132.2	124.8	141.3	186.9
1962	92.8	86.5	71.3	NA	NA	143.3	109.7	118.9	NA	111.8	100.6	134.7	126.2	142.2	185.2
1963	93.5	88.5	74.1	NA	NA	144.7	109.3	121.5	NA	111.0	103.8	135.4	127.7	142.4	182.3
1964	94.9	92.5	76.4	NA	NA	148.8	112.0	123.7	NA	111.0	104.1	137.1	128.8	144.3	185.1
1965	99.3	96.9	77.4	NA	NA	148.7	113.9	122.5	NA	113.0	101.7	137.9	130.8	144.8	187.5
1966	105.4	102.4	79.7	NA	NA	148.5	112.8	123.2	NA	111.8	101.1	137.0	132.7	143.0	188.0
1967	106.7	103.3	84.3	NA	NA	143.9	107.5	122.7	NA	105.8	104.4	132.9	133.5	138.3	182.2
1968	108.5	103.8	87.2	NA	NA	141.5	108.5	120.6	NA	106.6	105.8	132.1	132.0	136.0	180.5
1969	110.6	105.7	89.7	NA	NA	146.3	111.4	124.1	NA	111.0	109.4	133.7	132.6	138.4	183.0
1970	106.3	103.9	91.9	NA	NA	150.2	111.9	127.3	NA	113.6	113.0	134.3	135.5	140.6	182.6
1971	102.2	104.4	92.3	NA	NA	149.6	107.3	128.9	NA	112.9	116.0	132.2	136.4	135.9	176.4
1972	105.0	107.7	92.3	NA	NA	147.4	110.1	130.4	NA	110.8	113.8	127.5	137.8	133.8	172.3
1973	110.5	112.5	96.2	NA	NA	148.4	111.6	133.2	NA	111.5	117.1	125.8	138.1	135.8	173.3
1974	110.1	113.9	95.3	NA	NA	150.7	107.6	134.6	NA	108.9	121.4	125.4	139.6	138.7	173.9
1975	100.6	110.9	90.0	NA	NA	141.5	98.5	131.2	NA	102.2	120.4	121.0	138.6	139.8	166.0
1976	104.2	110.7	89.5	NA	NA	135.8	99.2	130.5	NA	99.9	121.6	116.0	138.4	139.4	160.7
1977	108.2	108.5	88.6	NA	NA	130.5	98.5	130.0	NA	100.3	123.9	113.1	138.6	134.5	161.2
1978	112.7	111.7	87.4	NA	NA	125.0	98.0	128.4	NA	100.0	122.4	110.5	136.1	130.7	160.6
1979	115.6	115.7	87.2	NA	NA	121.8	98.8	126.5	NA	101.2	124.3	109.3	134.2	131.0	159.6
1980	111.6	115.1	88.9	NA	NA	119.3	97.2	125.0	NA	102.2	124.7	107.8	134.5	130.9	151.8
1981	111.0	114.8	89.8	NA	NA	112.4	93.8	121.0	NA	100.3	119.7	105.0	132.3	127.0	138.1
1982	103.5	104.3	89.3	NA	NA	109.2	93.6	119.1	NA	97.4	116.4	101.0	127.6	122.4	129.9
1983	101.8	101.6	90.8	NA	NA	106.8	93.9	116.7	NA	94.1	111.7	96.4	121.0	119.9	123.3
1984	106.8	104.4	92.7	NA	NA	105.7	99.1	113.4	NA	93.7	106.4	94.2	119.8	120.5	121.2
1985	106.0	106.8	93.5	NA	NA	104.0	105.2	110.3	NA	94.9	104.8	95.4	120.7	122.0	120.6
1986	104.5	110.4	93.0	NA	NA	103.0	109.1	108.3	NA	96.4	103.6	96.5	122.0	121.9	118.0
1987	104.7	113.7	91.9	NA	NA	100.5	107.7	105.6	NA	96.4	103.1	97.4	122.0	121.1	116.9
1988	106.6	117.6	93.9	NA	NA	100.4	105.3	104.1	NA	96.3	104.9	98.0	116.6	123.3	118.3
1989	107.0	119.4	95.9	NA	NA	101.7	104.1	104.7	NA	97.6	105.8	99.3	108.7	121.2	118.6
1990	105.4	113.2	97.5	NA	NA	102.5	104.3	105.4	NA	100.3	106.4	101.1	105.4	117.2	115.5
1991	101.8	104.1	99.8	NA	NA	101.5	102.4	103.6	108.0	101.8	104.1	100.7	101.9	109.9	106.6
1992	100.0	100.0	100.0	NA	NA	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	NA	NA	96.1	95.5	95.2	93.0	94.0	95.5	96.9	101.8	92.6	96.7
1994	101.3	100.9	93.6	NA	NA	92.5	95.8	92.4	88.2	89.3	96.1	92.4	104.7	92.0	97.0
1995	102.5	104.8	90.1	NA	NA	91.9	98.1	92.1	86.2	87.3	97.2	91.3	107.2	97.9	98.8
1996	102.2	106.6	89.3	NA	NA	90.6	98.3	91.3	83.8	84.6	96.4	90.3	108.9	97.6	100.1
1997	103.2	110.0	89.1	NA	NA	89.2	97.5	89.4	82.6	82.6	97.1	91.4	113.6	96.6	100.6
1998	104.0	114.2	85.5	NA	NA	89.6	98.3	89.8	82.9	82.4	99.2	92.6	114.7	97.8	100.4
1999	102.4	118.5	83.2	NA	NA	88.7	96.3	89.7	82.6	NA	98.8	93.4	111.6	98.7	96.8
2000	101.7	123.7	81.7	NA	NA	90.3	95.5	90.8	83.2	NA	98.9	NA	108.7	100.0	93.2

NA: Not Available

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

** See note on Germany in box on page 5.

Source: U.S. Department of Labor, Bureau of Labor Statistics, August 2001.

Table 6. Annual hours per employed person in manufacturing, 14 countries or areas, 1950-2000
 (Indexes: 1992=100)

Year	United States	Canada	Japan	Korea	Taiwan	Belgium	Denmark	France	Germany	Former West Germany**	Italy	Nether-lands	Norway	Sweden	United Kingdom
1950	101.4	108.8	NA	NA	NA	NA	140.7	120.6	NA	146.0	110.2	130.3	130.9	129.9	122.8
1955	101.5	104.8	119.3	NA	NA	NA	138.2	120.1	NA	146.1	113.0	130.6	131.2	129.0	124.3
1960	99.5	104.1	123.9	NA	NA	125.8	131.2	120.8	NA	131.7	114.3	131.9	126.1	122.1	121.8
1961	99.6	103.6	122.0	NA	NA	125.5	127.3	121.3	NA	129.4	113.1	126.5	124.2	121.1	120.2
1962	100.6	104.4	119.5	NA	NA	125.8	128.3	121.1	NA	126.0	109.5	125.6	123.8	120.1	119.0
1963	100.9	104.7	118.6	NA	NA	125.7	126.3	121.2	NA	124.4	110.0	125.2	123.2	118.8	118.8
1964	101.6	105.1	117.9	NA	NA	125.3	127.4	120.5	NA	124.3	110.0	124.0	124.0	117.5	119.8
1965	102.7	105.2	115.9	NA	NA	123.2	127.2	119.4	NA	123.9	106.4	123.6	121.1	116.6	118.1
1966	103.0	104.4	116.5	NA	NA	122.2	124.8	120.0	NA	122.3	107.6	122.9	121.4	116.4	116.1
1967	101.2	104.5	116.7	NA	NA	120.7	123.4	118.9	NA	119.0	109.1	122.4	120.3	114.5	115.2
1968	101.0	104.2	116.4	NA	NA	120.7	120.6	115.5	NA	120.4	109.1	120.2	117.4	112.2	116.1
1969	100.2	103.9	114.8	NA	NA	119.5	119.1	118.4	NA	120.6	108.3	118.5	114.7	110.2	116.1
1970	98.2	103.2	113.6	NA	NA	116.3	115.3	117.0	NA	119.9	106.4	116.4	113.9	110.0	114.3
1971	98.4	102.8	111.8	NA	NA	114.6	114.9	116.1	NA	117.3	103.4	115.3	112.7	109.7	111.6
1972	100.0	102.9	111.1	NA	NA	112.0	112.4	114.9	NA	116.2	102.7	113.6	111.0	106.8	110.6
1973	99.9	102.1	110.2	NA	NA	109.3	106.4	113.1	NA	115.2	103.9	111.4	110.4	104.9	112.0
1974	98.0	101.5	105.6	NA	NA	106.4	108.5	111.6	NA	112.9	100.3	108.0	108.9	103.8	108.4
1975	96.6	100.2	103.2	NA	NA	100.7	105.1	108.3	NA	110.1	98.5	106.0	108.2	101.8	108.0
1976	97.7	100.3	106.2	NA	NA	102.6	105.6	108.7	NA	113.2	98.5	105.8	105.4	100.6	109.0
1977	98.1	100.3	106.5	NA	NA	102.1	104.6	107.7	NA	111.5	98.0	105.3	103.6	99.8	109.7
1978	98.1	101.0	106.9	NA	NA	101.9	103.4	106.8	NA	110.1	97.8	104.3	101.6	97.2	109.3
1979	97.5	100.5	107.6	NA	NA	102.0	103.3	106.6	NA	109.7	97.1	103.1	99.9	95.8	108.8
1980	96.3	99.6	107.6	NA	NA	100.4	104.0	106.6	NA	108.1	97.3	103.7	100.4	94.8	105.7
1981	96.4	98.7	106.8	NA	NA	98.1	102.7	105.3	NA	106.8	97.3	104.2	100.6	95.3	103.7
1982	94.6	97.8	106.5	NA	NA	100.2	104.2	100.9	NA	106.2	97.1	105.3	99.7	95.7	104.4
1983	97.2	99.1	106.6	NA	NA	97.7	105.6	100.6	NA	106.4	97.1	105.4	100.1	96.9	104.2
1984	98.6	99.0	107.7	NA	NA	97.1	105.3	100.7	NA	106.4	97.1	104.0	99.9	98.6	104.3
1985	98.7	99.6	107.3	NA	NA	98.5	101.8	100.1	NA	104.5	96.2	101.3	99.6	97.9	103.8
1986	98.6	100.1	106.7	NA	NA	98.6	104.2	100.3	NA	103.9	98.6	100.8	99.7	97.5	103.4
1987	99.1	100.9	107.2	NA	NA	99.4	101.8	100.9	NA	103.6	100.4	100.3	97.2	98.7	103.6
1988	100.0	103.0	108.3	NA	NA	101.1	101.8	101.2	NA	103.2	104.0	101.1	98.0	98.5	103.8
1989	100.0	100.7	107.1	NA	NA	100.6	100.6	101.0	NA	101.7	103.7	100.5	98.6	98.2	103.3
1990	99.4	100.2	105.6	NA	NA	101.8	99.4	100.5	NA	99.8	101.2	100.5	98.4	99.3	102.3
1991	98.7	99.8	103.2	NA	NA	100.0	99.7	99.5	95.6	99.1	100.1	100.2	98.9	99.2	100.1
1992	100.0	100.0	100.0	NA	NA	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	NA	NA	98.5	99.2	99.9	97.6	97.0	98.0	100.0	100.3	102.6	100.9
1994	102.2	102.0	98.1	NA	NA	101.2	NA	99.9	98.2	97.1	100.7	100.0	100.5	106.6	102.2
1995	101.5	101.6	98.8	NA	NA	100.1	NA	99.3	98.0	96.5	100.8	100.3	99.6	107.6	104.0
1996	101.5	102.3	99.4	NA	NA	100.5	NA	99.4	95.8	95.0	100.0	100.2	99.1	107.9	104.4
1997	102.2	102.2	98.8	NA	NA	100.6	NA	99.1	95.8	95.2	100.4	99.8	98.9	108.0	103.8
1998	101.2	102.6	96.7	NA	NA	100.8	NA	98.9	96.8	96.2	100.2	99.6	99.1	108.2	103.1
1999	101.9	103.5	96.6	NA	NA	102.9	NA	98.4	96.4	NA	99.8	99.6	99.0	108.5	102.7
2000	101.6	103.4	98.7	NA	NA	101.7	NA	95.0	95.4	NA	99.6	NA	97.9	108.7	103.1

NA: Not Available

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

** See note on Germany in box on page 5.

Source: U.S. Department of Labor, Bureau of Labor Statistics, August 2001.

Table 7. Hourly compensation in manufacturing, national currency basis, 14 countries or areas, 1950-2000
 (Indexes: 1992=100)

Year	United States	Canada*	Japan	Korea	Taiwan	Belgium	Denmark	France*	Germany	Former West Germany**	Italy	Nether-lands	Norway	Sweden*	United Kingdom*
1950	8.7	5.4	NA	NA	NA	NA	2.5	1.6	NA	3.4	0.8	3.1	2.2	1.9	1.6
1955	11.7	7.7	3.1	NA	NA	NA	3.4	2.8	NA	5.0	1.2	4.5	3.4	2.9	2.2
1960	14.9	10.0	4.3	NA	NA	5.4	4.6	4.3	NA	8.1	1.6	6.4	4.7	4.1	3.0
1961	15.3	10.2	5.0	NA	NA	5.7	5.2	4.7	NA	9.1	1.8	7.3	5.2	4.5	3.2
1962	15.9	10.6	5.7	NA	NA	6.2	5.6	5.2	NA	10.3	2.1	7.8	5.7	5.0	3.3
1963	16.4	11.1	6.4	NA	NA	6.8	6.1	5.7	NA	11.0	2.5	8.6	6.1	5.5	3.5
1964	17.0	11.5	7.2	NA	NA	7.7	6.6	6.2	NA	11.9	2.6	9.9	6.5	6.0	3.7
1965	17.4	12.2	8.1	NA	NA	8.5	7.4	6.7	NA	13.1	2.8	11.1	7.2	6.6	4.1
1966	18.2	13.1	8.9	NA	NA	9.4	8.4	7.1	NA	14.2	3.0	12.5	7.8	7.3	4.4
1967	19.2	13.8	10.0	NA	NA	10.3	9.4	7.6	NA	15.0	3.3	13.8	8.8	8.1	4.6
1968	20.7	14.7	11.6	NA	NA	11.0	10.3	8.6	NA	16.1	3.5	15.4	9.6	8.8	4.9
1969	22.2	15.9	13.8	NA	NA	12.1	11.6	9.2	NA	17.6	3.9	17.4	10.6	9.6	5.3
1970	23.7	17.1	16.4	NA	NA	13.7	13.3	10.3	NA	20.7	4.7	20.2	11.8	10.7	6.1
1971	25.2	18.2	19.0	NA	NA	15.9	15.2	11.6	NA	23.2	5.5	23.1	13.5	12.1	7.0
1972	26.5	19.5	21.9	NA	NA	18.8	16.9	12.8	NA	25.6	6.1	26.5	15.2	13.5	8.1
1973	28.5	21.2	26.7	NA	NA	22.3	20.5	14.7	NA	29.0	7.2	31.6	17.1	15.2	9.2
1974	31.6	24.6	35.0	NA	NA	27.4	24.8	17.4	NA	33.0	9.4	37.7	20.1	17.9	11.1
1975	35.5	28.3	40.8	NA	NA	33.1	29.6	21.3	NA	36.4	11.9	43.1	24.0	21.9	14.7
1976	38.4	32.5	43.9	NA	NA	38.3	33.0	24.4	NA	39.1	14.7	48.1	27.7	25.7	17.1
1977	41.8	36.1	48.5	NA	NA	41.4	36.5	27.7	NA	42.8	17.4	52.5	31.1	28.1	19.3
1978	45.2	38.8	51.7	NA	NA	44.4	40.2	31.2	NA	45.9	20.1	56.8	34.1	31.1	22.5
1979	49.6	42.7	55.0	NA	NA	47.2	45.0	35.4	NA	49.3	24.3	61.1	35.8	33.5	26.8
1980	55.6	47.6	58.5	NA	NA	52.5	49.6	40.8	NA	53.6	28.5	64.4	39.0	37.3	32.3
1981	61.1	53.8	62.6	NA	NA	57.3	54.6	47.2	NA	57.0	34.5	67.4	43.3	41.2	37.5
1982	67.0	61.0	65.7	NA	NA	59.9	59.5	56.1	NA	60.4	40.5	71.5	48.2	44.2	41.3
1983	68.8	65.3	67.5	NA	NA	65.7	63.6	61.9	NA	63.1	47.2	74.9	52.9	49.0	44.3
1984	71.2	69.0	69.5	NA	NA	71.4	67.2	67.2	NA	66.0	54.1	77.7	57.9	53.2	47.8
1985	75.1	71.9	72.4	NA	NA	75.3	71.7	72.8	NA	70.0	60.8	81.8	63.4	58.6	52.3
1986	78.5	73.0	76.0	NA	NA	77.3	73.2	75.8	NA	72.8	63.3	85.0	69.1	63.4	57.0
1987	80.7	74.7	77.8	NA	NA	79.7	80.1	78.6	NA	76.0	66.9	87.8	78.4	67.6	63.6
1988	84.0	77.5	79.1	NA	NA	81.1	82.9	81.6	NA	79.1	69.3	87.7	83.3	71.8	68.0
1989	86.6	82.6	84.0	NA	NA	85.9	87.7	86.0	NA	83.2	75.9	88.5	87.2	79.4	73.0
1990	90.8	88.3	90.5	NA	NA	90.1	92.7	90.6	NA	89.4	84.4	90.8	92.3	87.8	81.6
1991	95.6	95.0	96.4	NA	NA	97.3	95.9	96.2	92.2	95.1	93.7	95.2	97.5	95.5	92.0
1992	100.0	100.0	100.0	NA	NA	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	102.8	NA	NA	104.8	104.6	103.0	106.4	105.9	107.5	103.7	101.5	97.4	104.5
1994	105.6	103.7	104.9	NA	NA	106.1	NA	105.6	112.0	111.7	107.8	108.2	104.4	100.0	107.2
1995	107.9	106.0	108.3	NA	NA	109.2	NA	108.5	118.2	117.7	112.7	110.6	109.2	106.5	107.8
1996	109.4	107.0	109.2	NA	NA	110.9	NA	110.3	123.8	123.7	120.3	113.2	113.6	114.4	108.9
1997	111.4	109.3	112.9	NA	NA	114.7	NA	113.0	126.3	126.6	124.9	116.2	118.7	119.4	112.9
1998	117.4	111.6	115.8	NA	NA	116.4	NA	115.6	127.5	127.6	123.4	119.8	126.1	124.4	118.9
1999	122.1	113.1	115.5	NA	NA	116.8	NA	118.6	129.6	NA	127.5	123.5	133.4	127.5	124.5
2000	130.1	117.0	115.5	NA	NA	119.8	NA	124.9	134.2	NA	131.2	NA	140.1	130.7	129.1

NA: Not Available

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

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

** See note on Germany in box on page 5.

Source: U.S. Department of Labor, Bureau of Labor Statistics, August 2001.

Table 8. Hourly compensation in manufacturing, U.S. dollar basis, 14 countries or areas, 1950-2000
 (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	2.2	2.4	NA	1.3	1.7	1.4	1.9	2.1	2.5
1955	11.7	9.5	1.1	NA	NA	NA	3.0	4.3	NA	1.9	2.4	2.1	2.9	3.3	3.5
1960	14.9	12.4	1.5	NA	NA	3.5	4.0	4.6	NA	3.0	3.2	3.0	4.1	4.6	4.7
1961	15.3	12.2	1.8	NA	NA	3.7	4.5	5.1	NA	3.5	3.5	3.5	4.5	5.0	5.1
1962	15.9	12.0	2.0	NA	NA	4.0	4.9	5.6	NA	4.0	4.1	3.8	5.0	5.6	5.3
1963	16.4	12.4	2.2	NA	NA	4.4	5.4	6.1	NA	4.3	4.9	4.2	5.3	6.2	5.5
1964	17.0	12.9	2.5	NA	NA	5.0	5.8	6.7	NA	4.7	5.2	4.8	5.6	6.8	5.9
1965	17.4	13.7	2.8	NA	NA	5.5	6.4	7.2	NA	5.1	5.6	5.4	6.2	7.5	6.5
1966	18.2	14.7	3.1	NA	NA	6.1	7.3	7.6	NA	5.5	5.9	6.1	6.8	8.2	7.0
1967	19.2	15.4	3.5	NA	NA	6.7	8.1	8.2	NA	5.9	6.5	6.7	7.6	9.1	7.1
1968	20.7	16.5	4.1	NA	NA	7.1	8.3	9.2	NA	6.3	7.0	7.5	8.4	9.9	6.6
1969	22.2	17.9	4.9	NA	NA	7.7	9.3	9.4	NA	7.0	7.6	8.5	9.3	10.8	7.2
1970	23.7	19.8	5.8	NA	NA	8.9	10.7	9.9	NA	8.9	9.3	9.8	10.3	12.0	8.3
1971	25.2	21.7	6.9	NA	NA	10.5	12.4	11.1	NA	10.4	10.9	11.6	11.9	13.8	9.7
1972	26.5	23.8	9.1	NA	NA	13.7	14.7	13.4	NA	12.6	12.9	14.5	14.3	16.5	11.5
1973	28.5	25.6	12.5	NA	NA	18.5	20.5	17.5	NA	17.1	15.2	20.0	18.5	20.3	12.8
1974	31.6	30.5	15.2	NA	NA	22.6	24.6	19.2	NA	19.9	17.8	24.7	22.6	23.5	14.7
1975	35.5	33.7	17.4	NA	NA	29.0	31.1	26.3	NA	23.1	22.4	30.1	28.6	30.8	18.5
1976	38.4	39.9	18.8	NA	NA	31.9	32.9	27.0	NA	24.3	21.9	32.0	31.6	34.3	17.5
1977	41.8	41.1	22.9	NA	NA	37.1	36.7	29.8	NA	28.8	24.3	37.6	36.3	36.7	19.1
1978	45.2	41.2	31.4	NA	NA	45.4	44.1	36.7	NA	35.8	29.2	46.2	40.4	40.2	24.5
1979	49.6	44.0	32.0	NA	NA	51.7	51.6	44.0	NA	42.0	36.1	53.5	43.9	45.6	32.2
1980	55.6	49.1	32.7	NA	NA	57.7	53.2	51.1	NA	46.1	41.1	57.0	49.0	51.4	42.5
1981	61.1	54.2	36.0	NA	NA	49.5	46.2	46.0	NA	39.3	37.3	47.4	46.9	47.4	43.0
1982	67.0	59.7	33.4	NA	NA	42.1	43.0	45.1	NA	38.8	36.8	47.1	46.4	41.0	40.9
1983	68.8	64.0	36.0	NA	NA	41.3	42.0	43.0	NA	38.6	38.2	46.1	45.0	37.2	38.0
1984	71.2	64.4	37.1	NA	NA	39.7	39.2	40.7	NA	36.3	38.0	42.6	44.1	37.5	36.2
1985	75.1	63.6	38.5	NA	NA	40.8	40.9	42.9	NA	37.2	39.2	43.3	45.8	39.7	38.4
1986	78.5	63.5	57.2	NA	NA	55.6	54.6	57.9	NA	52.4	52.3	61.1	58.0	51.8	47.3
1987	80.7	68.1	68.2	NA	NA	68.6	70.6	69.2	NA	66.0	63.5	76.2	72.3	62.1	59.0
1988	84.0	76.2	78.2	NA	NA	70.9	74.3	72.5	NA	70.4	65.5	78.0	79.3	68.2	68.6
1989	86.6	84.3	77.1	NA	NA	70.1	72.3	71.4	NA	69.1	68.2	73.4	78.4	71.6	67.7
1990	90.8	91.5	79.1	NA	NA	86.6	90.4	88.0	NA	86.4	86.8	87.7	91.7	86.4	82.5
1991	95.6	100.1	90.8	NA	NA	91.5	90.5	90.2	86.7	89.4	93.0	89.4	93.3	91.9	92.0
1992	100.0	100.0	100.0	NA	NA	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	117.3	NA	NA	97.4	97.4	96.2	100.4	100.0	84.2	98.1	88.8	72.8	88.9
1994	105.6	91.7	130.1	NA	NA	102.1	NA	100.8	107.8	107.6	82.4	104.6	91.9	75.5	92.9
1995	107.9	93.3	146.2	NA	NA	119.1	NA	115.1	128.9	128.3	85.2	121.2	107.1	86.9	96.4
1996	109.4	94.8	127.2	NA	NA	115.1	NA	114.1	128.5	128.4	96.0	118.0	109.3	99.3	96.3
1997	111.4	95.3	118.3	NA	NA	103.0	NA	102.5	113.7	114.0	90.3	104.6	104.1	91.0	104.7
1998	117.4	90.9	112.0	NA	NA	103.0	NA	103.8	113.1	113.3	87.5	106.2	103.8	91.1	111.5
1999	122.1	92.0	128.8	NA	NA	99.2	NA	102.0	110.3	NA	86.4	105.0	106.2	89.8	114.0
2000	130.1	95.2	135.9	NA	NA	88.1	NA	93.0	99.0	NA	77.1	NA	98.8	83.0	110.7

NA: Not Available

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

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

** See note on Germany in box on page 5.

Source: U.S. Department of Labor, Bureau of Labor Statistics, August 2001.

Table 9. Unit labor costs in manufacturing, national currency basis, 14 countries or areas, 1950-2000
 (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	20.5	NA	NA	NA	NA	11.0	12.0	NA	25.5	7.0	27.7	8.9	9.5	6.4
1955	NA	23.7	36.4	NA	NA	NA	13.8	16.8	NA	25.4	7.1	31.6	11.7	13.8	8.4
1960	NA	25.9	31.3	NA	NA	30.1	15.4	19.4	NA	27.8	7.5	34.6	12.8	15.0	9.9
1961	NA	25.2	32.1	NA	NA	31.5	16.3	20.2	NA	29.7	7.7	37.4	13.5	15.6	10.6
1962	NA	24.4	34.9	NA	NA	32.1	17.0	21.0	NA	31.5	8.2	38.5	14.9	16.2	10.9
1963	NA	24.4	36.1	NA	NA	34.2	17.9	21.7	NA	32.2	9.4	40.7	15.1	16.9	10.8
1964	NA	24.4	35.8	NA	NA	36.3	17.9	21.9	NA	32.1	10.0	43.2	15.2	16.9	10.8
1965	NA	24.6	38.7	NA	NA	38.3	18.9	22.2	NA	33.3	9.6	45.4	15.9	17.4	11.5
1966	NA	26.0	38.9	NA	NA	39.6	20.5	21.7	NA	34.7	9.4	47.7	16.7	18.2	12.0
1967	NA	27.1	38.5	NA	NA	40.9	21.4	22.0	NA	34.5	9.9	49.2	18.0	18.7	11.9
1968	NA	27.4	40.0	NA	NA	40.3	21.6	22.6	NA	34.3	9.8	48.8	18.7	18.5	11.8
1969	NA	28.2	41.4	NA	NA	40.4	23.4	22.6	NA	35.0	10.3	50.4	18.8	18.8	12.6
1970	NA	30.5	43.8	8.3	23.3	41.7	25.2	24.0	NA	39.8	11.8	53.3	20.3	20.6	14.2
1971	NA	30.6	47.8	8.8	24.4	45.2	27.1	25.5	NA	42.9	13.4	57.6	22.5	22.2	15.4
1972	NA	31.2	50.1	9.7	24.4	47.9	27.8	26.9	NA	44.7	13.9	61.2	24.1	23.6	16.9
1973	NA	31.9	56.2	11.6	28.2	51.2	30.6	28.8	NA	47.5	15.1	65.8	25.5	24.8	18.0
1974	NA	36.5	71.8	14.2	42.7	59.9	35.9	33.5	NA	52.1	18.5	73.2	28.9	27.9	21.2
1975	NA	43.8	81.3	16.3	43.4	69.5	38.9	39.5	NA	55.2	24.2	84.9	34.8	33.7	28.9
1976	NA	46.4	82.6	20.7	44.6	73.1	41.8	42.6	NA	55.4	26.4	85.5	39.3	38.9	32.1
1977	61.2	48.9	87.6	24.4	46.4	75.3	45.4	45.7	NA	58.8	30.6	86.2	43.5	43.3	35.9
1978	65.3	51.6	89.8	29.3	46.5	76.1	49.3	49.4	NA	61.1	33.1	87.5	46.8	46.6	41.3
1979	70.7	56.7	88.4	35.9	52.8	76.8	52.5	53.4	NA	62.9	36.6	89.7	45.8	46.6	48.7
1980	78.8	63.9	92.5	45.1	61.1	80.3	55.0	61.3	NA	69.4	41.0	93.7	50.8	51.0	59.4
1981	82.4	69.0	96.0	52.1	70.9	81.7	59.5	68.9	NA	72.4	49.0	95.8	56.6	56.6	65.7
1982	87.9	78.9	96.7	55.6	75.5	81.5	64.6	76.5	NA	76.7	57.0	100.0	60.5	58.7	68.5
1983	86.0	79.4	98.0	59.6	73.9	81.1	65.8	82.5	NA	76.4	64.2	96.9	64.2	60.7	68.1
1984	85.6	76.5	97.7	61.9	76.8	84.0	69.9	88.2	NA	77.3	67.9	91.6	66.3	62.5	69.8
1985	87.3	78.0	94.6	62.1	80.0	86.5	74.2	92.0	NA	78.6	72.2	92.5	70.2	68.0	73.6
1986	91.2	81.5	99.9	62.1	82.1	88.0	80.4	94.3	NA	81.2	74.9	94.4	77.7	72.4	77.1
1987	86.9	82.8	97.0	66.9	82.1	89.7	88.4	96.1	NA	86.3	77.8	96.6	84.1	75.8	81.5
1988	86.7	85.5	94.3	76.1	84.4	88.1	88.2	93.3	NA	86.5	79.4	94.2	90.4	79.4	82.3
1989	90.5	88.6	94.9	81.5	88.3	88.7	88.1	93.5	NA	87.9	84.8	91.4	92.2	85.1	84.7
1990	93.7	93.3	95.9	85.9	95.1	93.0	93.6	96.8	NA	90.3	91.5	92.3	95.6	92.9	91.6
1991	97.6	99.5	97.4	95.0	96.4	98.1	96.3	99.3	93.1	93.3	98.2	95.6	100.0	100.0	98.1
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	97.2	101.1	103.8	100.9	102.3	100.1	102.4	104.5	105.3	104.3	102.1	100.9	90.8	100.6
1994	98.5	94.5	101.5	108.2	101.9	97.9	93.0	97.2	101.9	103.6	101.9	95.6	102.9	83.8	100.0
1995	94.8	95.2	97.6	120.4	102.1	96.4	93.8	94.6	104.7	105.9	103.0	93.7	107.0	87.4	102.9
1996	93.5	97.2	94.0	126.5	101.6	94.7	100.9	95.7	107.4	107.5	110.0	94.2	111.4	91.9	105.3
1997	91.9	96.5	93.3	116.1	100.0	90.5	96.9	91.3	104.4	103.9	111.9	95.1	115.2	90.2	107.6
1998	92.7	98.6	95.5	113.6	101.4	90.3	98.7	89.3	105.3	100.4	111.1	95.9	121.7	89.2	111.8
1999	90.4	98.4	91.8	99.2	98.9	90.6	101.9	89.3	105.9	NA	114.0	96.7	129.5	88.8	112.4
2000	89.9	100.6	87.1	96.6	96.6	90.2	99.0	88.9	103.4	NA	113.4	NA	134.5	86.9	110.9

NA: Not Available

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

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

** See note on Germany in box on page 5.

Source: U.S. Department of Labor, Bureau of Labor Statistics, August 2001.

Table 10. Unit labor costs in manufacturing, U.S. dollar basis, 14 countries or areas, 1950-2000
 (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	22.7	NA	NA	NA	NA	9.6	18.1	NA	9.5	13.8	12.8	7.8	10.7	10.1
1955	NA	29.1	12.8	NA	NA	NA	12.0	25.3	NA	9.4	14.1	14.6	10.2	15.5	13.3
1960	NA	32.2	11.0	NA	NA	19.4	13.5	20.9	NA	10.4	14.9	16.1	11.2	16.9	15.8
1961	NA	30.1	11.3	NA	NA	20.3	14.3	21.8	NA	11.6	15.3	18.1	11.8	17.6	16.8
1962	NA	27.6	12.3	NA	NA	20.7	14.9	22.7	NA	12.3	16.2	18.8	12.9	18.3	17.3
1963	NA	27.3	12.7	NA	NA	22.0	15.7	23.4	NA	12.6	18.7	19.9	13.1	18.9	17.1
1964	NA	27.3	12.5	NA	NA	23.5	15.6	23.6	NA	12.6	19.7	21.1	13.2	19.1	17.1
1965	NA	27.6	13.6	NA	NA	24.8	16.5	24.0	NA	13.0	18.9	22.2	13.8	19.6	18.2
1966	NA	29.1	13.6	NA	NA	25.6	17.9	23.4	NA	13.6	18.5	23.2	14.5	20.6	19.0
1967	NA	30.3	13.5	NA	NA	26.5	18.5	23.7	NA	13.5	19.5	24.0	15.6	21.1	18.5
1968	NA	30.7	14.1	NA	NA	25.9	17.4	24.1	NA	13.4	19.3	23.7	16.2	20.9	16.0
1969	NA	31.7	14.6	NA	NA	25.9	18.8	23.1	NA	13.9	20.3	24.4	16.4	21.1	17.1
1970	NA	35.3	15.5	21.0	14.7	27.0	20.3	23.0	NA	17.1	23.2	25.9	17.6	23.1	19.3
1971	NA	36.6	17.4	19.9	15.3	29.9	22.1	24.5	NA	19.3	26.8	29.0	19.9	25.3	21.4
1972	NA	38.1	21.0	19.5	15.4	35.0	24.1	28.2	NA	21.9	29.3	33.5	22.7	28.9	23.9
1973	NA	38.6	26.3	22.8	18.6	42.4	30.7	34.3	NA	28.0	31.9	41.6	27.6	33.1	24.9
1974	NA	45.1	31.2	27.6	28.3	49.5	35.6	36.9	NA	31.5	35.1	48.0	32.5	36.7	28.1
1975	NA	52.0	34.8	26.4	28.7	60.9	40.9	48.8	NA	35.1	45.6	59.2	41.5	47.4	36.3
1976	NA	56.9	35.3	33.6	29.6	60.9	41.8	47.3	NA	34.4	39.1	56.9	44.8	52.0	32.8
1977	61.2	55.6	41.5	39.5	30.8	67.6	45.7	49.3	NA	39.6	42.7	61.8	50.8	56.4	35.5
1978	65.3	54.7	54.6	47.5	31.6	77.8	54.1	58.0	NA	47.6	48.0	71.2	55.5	60.1	44.8
1979	70.7	58.5	51.3	58.2	36.9	84.2	60.3	66.5	NA	53.6	54.2	78.6	56.2	63.3	58.5
1980	78.8	66.1	51.8	58.3	42.7	88.3	58.9	76.7	NA	59.6	59.0	82.9	63.9	70.2	78.3
1981	82.4	69.6	55.2	60.0	48.4	70.6	50.4	67.1	NA	49.9	53.1	67.4	61.3	65.1	75.2
1982	87.9	77.2	49.2	59.6	48.5	57.2	46.7	61.5	NA	49.3	51.9	65.8	58.2	54.4	67.8
1983	86.0	77.9	52.3	60.3	46.4	51.0	43.4	57.3	NA	46.7	52.1	59.7	54.7	46.1	58.4
1984	85.6	71.4	52.2	60.1	48.8	46.8	40.8	53.4	NA	42.4	47.7	50.2	50.5	44.0	52.8
1985	87.3	69.0	50.3	56.5	50.4	46.9	42.3	54.2	NA	41.7	46.6	49.0	50.8	46.1	54.1
1986	91.2	70.9	75.2	55.1	54.6	63.4	60.0	72.0	NA	58.5	61.9	67.8	65.3	59.2	64.0
1987	86.9	75.4	85.0	63.5	65.1	77.2	77.9	84.6	NA	74.9	73.9	83.8	77.5	69.6	75.6
1988	86.7	84.0	93.2	81.3	74.2	77.0	79.0	82.8	NA	76.9	75.2	83.8	86.1	75.4	83.0
1989	90.5	90.4	87.1	94.8	84.1	72.3	72.6	77.6	NA	73.0	76.1	75.8	82.9	76.8	78.5
1990	93.7	96.6	83.8	94.9	88.9	89.5	91.3	94.0	NA	87.3	94.1	89.1	95.0	91.3	92.5
1991	97.6	104.9	91.7	101.1	90.6	92.3	90.8	93.1	87.6	87.8	97.5	89.9	95.7	96.3	98.2
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	91.0	115.4	101.1	96.1	95.1	93.2	95.6	98.6	99.4	81.6	96.6	88.3	67.8	85.5
1994	98.5	83.6	125.9	105.2	96.9	94.2	88.3	92.8	98.2	99.8	77.9	92.4	90.7	63.2	86.8
1995	94.8	83.8	131.7	122.3	96.9	105.2	101.1	100.4	114.2	115.5	77.9	102.7	105.0	71.3	91.9
1996	93.5	86.1	109.6	123.3	93.0	98.3	105.0	99.0	111.5	111.6	87.9	98.3	107.1	79.8	93.0
1997	91.9	84.2	97.7	95.8	87.4	81.2	88.6	82.8	94.0	93.5	80.9	85.6	101.0	68.8	99.8
1998	92.7	80.4	92.4	63.7	76.0	80.0	88.9	80.1	93.5	89.1	78.8	85.0	100.2	65.3	104.9
1999	90.4	80.0	102.4	65.4	76.9	76.9	88.0	76.8	90.1	NA	77.3	82.2	103.1	62.5	102.9
2000	89.9	81.8	102.5	67.0	77.7	66.4	73.8	66.2	76.2	NA	66.6	NA	94.8	55.2	95.2

NA: Not Available

Note: The data relate to employees (wage and salary earners) in Korea, Taiwan, Belgium, Denmark, and Italy 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 5.

Source: U.S. Department of Labor, Bureau of Labor Statistics, August 2001.

Table 11. Exchange rates, 14 countries or areas, 1950-2000 (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	82.5	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

NA: Not Available

** See note on Germany in box on page 5.

Source: U.S. Department of Labor, Bureau of Labor Statistics, August 2001.

Table 12. Annual compensation per employed person in manufacturing, national currency basis, 14 countries or areas, 1950-2000
 (Indexes: 1992=100)

Year	United States	Canada*	Japan	Korea	Taiwan	Belgium	Denmark	France*	Germany	Former West Germany**	Italy	Nether-lands	Norway	Sweden*	United Kingdom*
1950	8.8	5.9	NA	NA	NA	NA	3.5	1.9	NA	4.9	0.9	4.0	2.9	2.4	1.9
1955	11.8	8.1	3.7	NA	NA	NA	4.7	3.4	NA	7.3	1.4	5.9	4.4	3.8	2.8
1960	14.8	10.4	5.3	NA	NA	6.8	6.0	5.1	NA	10.7	1.8	8.4	6.0	5.0	3.6
1961	15.2	10.6	6.1	NA	NA	7.2	6.6	5.7	NA	11.8	2.0	9.2	6.4	5.4	3.8
1962	16.0	11.1	6.9	NA	NA	7.8	7.2	6.3	NA	13.0	2.3	9.8	7.0	6.0	4.0
1963	16.5	11.6	7.6	NA	NA	8.6	7.8	6.9	NA	13.7	2.7	10.7	7.5	6.6	4.2
1964	17.3	12.1	8.5	NA	NA	9.6	8.5	7.4	NA	14.8	2.9	12.3	8.0	7.1	4.5
1965	17.9	12.8	9.4	NA	NA	10.5	9.4	8.0	NA	16.2	3.0	13.8	8.7	7.7	4.8
1966	18.8	13.7	10.4	NA	NA	11.5	10.4	8.5	NA	17.4	3.2	15.3	9.5	8.5	5.1
1967	19.4	14.4	11.7	NA	NA	12.4	11.6	9.0	NA	17.8	3.6	16.9	10.5	9.2	5.2
1968	20.9	15.4	13.6	NA	NA	13.3	12.5	10.0	NA	19.4	3.9	18.5	11.3	9.8	5.7
1969	22.2	16.5	15.8	NA	NA	14.4	13.8	10.9	NA	21.3	4.2	20.7	12.2	10.5	6.2
1970	23.3	17.6	18.7	NA	NA	16.0	15.3	12.1	NA	24.8	5.0	23.5	13.5	11.8	7.0
1971	24.8	18.7	21.2	NA	NA	18.2	17.5	13.5	NA	27.2	5.6	26.6	15.3	13.3	7.8
1972	26.5	20.1	24.3	NA	NA	21.0	19.0	14.7	NA	29.8	6.3	30.1	16.8	14.4	9.0
1973	28.5	21.7	29.4	NA	NA	24.3	21.8	16.6	NA	33.4	7.5	35.2	18.9	16.0	10.3
1974	31.0	25.0	37.0	NA	NA	29.2	26.9	19.5	NA	37.2	9.4	40.7	21.8	18.6	12.0
1975	34.3	28.4	42.1	NA	NA	33.3	31.1	23.0	NA	40.0	11.7	45.7	25.9	22.3	15.9
1976	37.6	32.7	46.7	NA	NA	39.3	34.8	26.5	NA	44.3	14.5	50.9	29.2	25.8	18.6
1977	41.0	36.2	51.6	NA	NA	42.3	38.2	29.8	NA	47.7	17.1	55.3	32.2	28.1	21.2
1978	44.3	39.2	55.2	NA	NA	45.2	41.6	33.4	NA	50.6	19.6	59.2	34.6	30.3	24.6
1979	48.4	42.9	59.2	NA	NA	48.1	46.5	37.7	NA	54.1	23.6	62.9	35.7	32.1	29.1
1980	53.5	47.3	62.9	NA	NA	52.7	51.6	43.5	NA	57.9	27.8	66.7	39.1	35.3	34.1
1981	58.8	53.1	66.9	NA	NA	56.1	56.1	49.7	NA	60.9	33.5	70.2	43.6	39.2	38.9
1982	63.3	59.7	70.0	NA	NA	60.0	62.0	56.6	NA	64.1	39.3	75.3	48.1	42.3	43.1
1983	66.9	64.7	71.9	NA	NA	64.2	67.2	62.3	NA	67.2	45.8	78.9	53.0	47.5	46.1
1984	70.2	68.3	74.9	NA	NA	69.3	70.8	67.7	NA	70.3	52.5	80.7	57.9	52.5	49.9
1985	74.1	71.6	77.7	NA	NA	74.1	73.0	72.8	NA	73.1	58.5	82.9	63.1	57.4	54.3
1986	77.4	73.0	81.1	NA	NA	76.2	76.3	76.0	NA	75.6	62.5	85.7	68.9	61.8	58.9
1987	80.0	75.4	83.4	NA	NA	79.2	81.5	79.3	NA	78.8	67.2	88.1	76.3	66.8	65.9
1988	84.0	79.9	85.7	NA	NA	81.9	84.4	82.6	NA	81.7	72.0	88.6	81.6	70.7	70.6
1989	86.7	83.2	89.9	NA	NA	86.4	88.2	86.9	NA	84.6	78.8	89.0	86.0	77.9	75.3
1990	90.2	88.5	95.5	NA	NA	91.7	92.1	91.0	NA	89.2	85.4	91.2	90.9	87.2	83.5
1991	94.3	94.8	99.5	NA	NA	97.3	95.6	95.7	88.2	94.3	93.8	95.4	96.4	94.7	92.1
1992	100.0	100.0	100.0	NA	NA	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	NA	NA	103.2	103.8	102.9	103.9	102.8	105.4	103.7	101.8	99.9	105.5
1994	108.0	105.8	102.9	NA	NA	107.4	106.0	105.5	109.9	108.5	108.6	108.2	104.9	106.6	109.5
1995	109.5	107.6	107.1	NA	NA	109.2	109.7	107.7	115.8	113.6	113.7	110.9	108.8	114.6	112.2
1996	111.0	109.5	108.5	NA	NA	111.5	112.6	109.6	118.6	117.6	120.3	113.4	112.6	123.4	113.8
1997	113.9	111.7	111.6	NA	NA	115.4	117.7	112.0	121.0	120.5	125.4	115.9	117.4	128.9	117.2
1998	118.8	114.4	112.0	NA	NA	117.3	121.3	114.4	123.4	122.8	123.7	119.3	124.9	134.6	122.6
1999	124.5	117.0	111.6	NA	NA	120.2	126.9	116.7	125.0	NA	127.3	123.0	132.1	138.2	127.8
2000	132.2	121.0	114.1	NA	NA	121.8	132.1	118.6	128.1	NA	130.7	NA	137.2	142.1	133.1

NA: Not Available

Note: The data relate to employees (wage and salary earners) in Belgium, Denmark, and Italy 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 5.

Source: U.S. Department of Labor, Bureau of Labor Statistics, August 2001.

Table 13. Real hourly compensation in manufacturing, CPI basis, 14 countries or areas, 1950-2000
 (Indexes: 1992=100)

Year	United States	Canada	Japan	Korea	Taiwan	Belgium	Denmark	France	Germany	Former West Germany**	Italy	Nether-lands	Norway	Sweden	United Kingdom
1950	46.8	37.0	NA	NA	NA	NA	28.6	19.8	NA	11.7	17.2	17.1	26.3	25.3	25.9
1955	56.5	46.5	18.2	NA	NA	NA	31.9	26.7	NA	15.9	20.1	21.2	29.5	30.5	28.2
1960	65.2	54.6	23.1	NA	NA	24.5	38.7	30.1	NA	23.6	24.1	26.4	36.4	35.4	33.1
1961	66.4	55.5	25.5	NA	NA	25.7	41.7	32.2	NA	25.8	26.1	29.8	38.7	37.9	34.3
1962	68.3	56.9	27.3	NA	NA	27.2	42.5	34.1	NA	28.4	29.4	31.1	40.4	40.4	34.5
1963	69.4	58.3	28.4	NA	NA	29.4	43.9	35.4	NA	29.4	32.4	33.1	42.0	43.4	35.4
1964	71.4	59.6	30.7	NA	NA	31.9	45.7	37.2	NA	31.1	32.7	36.3	42.5	45.7	36.6
1965	71.8	61.7	32.1	NA	NA	34.0	47.7	39.4	NA	33.1	33.5	39.1	45.0	48.1	38.2
1966	73.0	63.8	33.7	NA	NA	36.0	50.8	40.6	NA	34.7	34.8	41.4	47.7	49.5	39.7
1967	74.6	64.9	36.3	NA	NA	38.3	53.0	42.6	NA	36.1	37.0	44.3	51.0	52.6	40.7
1968	77.1	66.6	40.1	NA	NA	39.8	54.0	46.4	NA	38.3	39.0	47.6	54.3	56.0	41.8
1969	78.4	68.9	45.2	NA	NA	42.0	58.7	47.6	NA	41.1	41.7	50.2	58.1	58.9	43.1
1970	79.4	71.5	49.9	NA	NA	46.1	62.9	50.9	NA	46.7	48.3	56.0	58.3	61.8	46.5
1971	80.7	73.9	54.3	NA	NA	51.0	68.3	54.2	NA	49.8	53.2	59.5	62.9	64.1	48.4
1972	82.2	75.7	59.6	NA	NA	57.2	71.0	56.3	NA	52.3	56.4	63.3	65.8	67.5	52.1
1973	83.4	76.6	65.2	NA	NA	63.5	78.8	60.0	NA	55.4	59.9	69.7	69.0	69.8	54.3
1974	83.4	80.2	69.4	NA	NA	69.3	82.8	62.8	NA	58.9	65.7	75.9	74.0	74.8	56.2
1975	85.6	83.2	72.3	NA	NA	74.3	90.0	68.4	NA	61.3	70.9	79.0	79.1	83.6	60.4
1976	87.7	88.8	71.2	NA	NA	78.8	92.1	71.5	NA	63.1	75.4	80.9	83.9	88.4	60.1
1977	89.6	91.2	72.6	NA	NA	79.4	91.8	74.2	NA	66.7	76.3	82.8	86.3	86.1	58.5
1978	90.5	89.9	74.3	NA	NA	81.5	91.9	76.6	NA	69.9	78.3	86.0	87.4	88.9	62.7
1979	90.9	90.6	76.2	NA	NA	82.9	93.7	78.4	NA	72.2	82.7	88.6	87.6	89.9	65.6
1980	91.6	91.6	75.2	NA	NA	86.5	92.1	79.6	NA	74.6	80.0	87.4	86.0	87.7	67.2
1981	92.1	92.0	76.8	NA	NA	87.7	90.7	81.3	NA	74.6	82.0	85.7	84.1	86.3	70.0
1982	95.4	94.1	78.4	NA	NA	84.4	89.7	86.3	NA	75.0	82.7	86.1	84.1	85.1	70.5
1983	94.1	95.2	79.0	NA	NA	86.0	89.7	87.0	NA	76.0	84.1	87.7	85.1	84.5	72.4
1984	93.6	96.4	79.6	NA	NA	87.8	89.2	87.8	NA	77.7	87.0	88.1	87.7	85.2	74.3
1985	95.5	96.6	81.2	NA	NA	88.3	90.9	89.7	NA	80.7	89.6	90.7	90.8	87.4	76.6
1986	98.1	94.1	84.8	NA	NA	89.6	89.6	91.0	NA	84.1	88.1	94.2	92.4	90.4	80.7
1987	97.5	92.3	86.7	NA	NA	90.9	94.1	91.6	NA	87.7	88.8	97.6	96.4	92.4	86.5
1988	97.9	92.1	87.5	NA	NA	91.4	93.2	92.7	NA	90.3	87.6	96.6	96.0	94.1	88.1
1989	96.8	93.4	90.9	NA	NA	94.0	94.1	94.2	NA	92.3	90.4	96.6	96.1	98.3	87.7
1990	96.6	94.7	95.0	NA	NA	95.2	96.9	96.0	NA	96.6	94.3	96.6	97.7	97.6	89.7
1991	98.1	96.3	98.0	NA	NA	99.7	98.0	98.8	96.9	99.1	98.5	98.2	99.8	97.3	95.4
1992	100.0	100.0	100.0	NA	NA	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1993	100.2	100.2	101.4	NA	NA	102.0	103.3	100.9	101.9	102.1	102.9	101.0	99.2	95.3	102.9
1994	100.8	101.6	102.8	NA	NA	100.9	NA	101.7	104.3	104.8	99.2	102.6	100.6	95.8	103.0
1995	100.4	101.7	106.3	NA	NA	102.3	NA	102.7	108.2	108.7	98.6	102.9	102.7	97.6	100.2
1996	99.1	101.1	107.0	NA	NA	101.8	NA	102.4	111.9	112.8	101.1	103.2	105.6	103.6	98.8
1997	98.8	101.6	108.7	NA	NA	103.6	NA	103.7	112.1	113.3	102.9	103.7	107.5	106.9	99.3
1998	102.7	102.8	110.8	NA	NA	104.1	NA	105.4	112.0	113.3	99.8	104.8	111.7	110.6	101.1
1999	104.6	102.4	110.9	NA	NA	103.3	NA	107.6	113.2	NA	101.4	105.7	115.6	109.4	104.2
2000	107.8	103.1	111.7	NA	NA	103.3	NA	111.3	115.0	NA	101.8	NA	117.7	115.8	105.0

NA: Not Available

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

** See note on Germany in box on page 5.

Source: U.S. Department of Labor, Bureau of Labor Statistics, August 2001.

**Table 14. Real annual compensation per employed person in manufacturing, CPI basis, 14 countries or areas, 1950-2000
(Indexes: 1992=100)**

Year	United States	Canada	Japan	Korea	Taiwan	Belgium	Denmark	France	Germany	Former West Germany**	Italy	Netherlands	Norway	Sweden	United Kingdom
1950	47.4	40.3	NA	NA	NA	NA	40.2	23.9	NA	17.2	19.0	22.3	34.5	32.8	31.7
1955	57.4	48.7	21.7	NA	NA	NA	44.0	32.1	NA	23.3	22.7	27.7	38.7	39.4	35.1
1960	64.9	56.8	28.6	NA	NA	30.8	50.8	36.4	NA	31.0	27.5	34.8	45.9	43.2	40.4
1961	66.2	57.5	31.2	NA	NA	32.2	53.1	39.1	NA	33.4	29.5	37.7	48.1	45.9	41.2
1962	68.7	59.4	32.6	NA	NA	34.2	54.5	41.2	NA	35.8	32.2	39.0	50.0	48.5	41.1
1963	70.1	61.0	33.6	NA	NA	37.0	55.4	42.9	NA	36.5	35.7	41.5	51.8	51.5	42.1
1964	72.5	62.7	36.2	NA	NA	39.9	58.3	44.8	NA	38.7	35.9	45.0	52.7	53.7	43.8
1965	73.7	64.9	37.2	NA	NA	41.9	60.7	47.1	NA	41.0	35.6	48.3	54.5	56.0	45.1
1966	75.2	66.6	39.3	NA	NA	44.0	63.4	48.8	NA	42.4	37.4	50.9	57.9	57.6	46.1
1967	75.5	67.8	42.3	NA	NA	46.2	65.4	50.6	NA	42.9	40.4	54.3	61.3	60.3	46.9
1968	77.9	69.4	46.6	NA	NA	48.1	65.1	53.6	NA	46.1	42.5	57.2	63.7	62.9	48.6
1969	78.6	71.5	51.8	NA	NA	50.2	69.9	56.3	NA	49.5	45.2	59.6	66.6	64.9	50.0
1970	78.0	73.7	56.7	NA	NA	53.6	72.5	59.6	NA	56.0	51.4	65.2	66.4	68.0	53.2
1971	79.4	76.0	60.7	NA	NA	58.5	78.5	62.9	NA	58.4	55.1	68.6	70.9	70.3	54.0
1972	82.3	77.9	66.2	NA	NA	64.1	79.8	64.7	NA	60.7	58.0	72.0	73.0	72.1	57.6
1973	83.3	78.3	71.8	NA	NA	69.4	83.9	67.9	NA	63.8	62.2	77.7	76.1	73.2	60.8
1974	81.7	81.4	73.3	NA	NA	73.8	89.8	70.1	NA	66.5	65.9	81.9	80.5	77.6	61.0
1975	82.7	83.4	74.6	NA	NA	74.8	94.6	74.1	NA	67.4	69.9	83.7	85.6	85.1	65.2
1976	85.7	89.1	75.6	NA	NA	80.8	97.2	77.7	NA	71.5	74.3	85.6	88.4	89.0	65.5
1977	87.9	91.4	77.4	NA	NA	81.1	96.0	80.0	NA	74.3	74.8	87.3	89.4	86.0	64.1
1978	88.8	90.8	79.4	NA	NA	83.1	95.0	81.8	NA	76.9	76.6	89.7	88.8	86.5	68.5
1979	88.6	91.1	82.0	NA	NA	84.6	96.8	83.6	NA	79.2	80.2	91.4	87.5	86.1	71.3
1980	88.3	91.2	80.9	NA	NA	86.9	95.7	84.9	NA	80.7	77.9	90.6	86.3	83.1	71.0
1981	88.7	90.8	82.0	NA	NA	86.0	93.2	85.6	NA	79.7	79.8	89.3	84.6	82.2	72.7
1982	90.2	92.0	83.5	NA	NA	84.5	93.5	87.2	NA	79.7	80.2	90.6	83.8	81.4	73.6
1983	91.4	94.3	84.3	NA	NA	84.0	94.7	87.4	NA	80.9	81.6	92.4	85.2	81.8	75.4
1984	92.3	95.4	85.8	NA	NA	85.3	93.9	88.5	NA	82.7	84.5	91.6	87.7	84.0	77.5
1985	94.2	96.2	87.2	NA	NA	87.0	92.5	89.8	NA	84.3	86.2	91.9	90.4	85.5	79.6
1986	96.7	94.2	90.5	NA	NA	88.3	93.3	91.3	NA	87.3	86.9	95.0	92.1	88.1	83.4
1987	96.7	93.2	92.9	NA	NA	90.4	95.8	92.4	NA	90.9	89.2	98.0	93.7	91.2	89.6
1988	97.9	94.9	94.8	NA	NA	92.4	94.9	93.8	NA	93.2	91.1	97.7	94.1	92.7	91.4
1989	96.9	94.1	97.4	NA	NA	94.5	94.6	95.2	NA	93.9	93.7	97.1	94.7	96.5	90.6
1990	96.0	94.9	100.3	NA	NA	96.9	96.3	96.5	NA	96.4	95.5	97.0	96.2	96.9	91.7
1991	96.8	96.1	101.2	NA	NA	99.7	97.6	98.3	92.7	98.2	98.6	98.4	98.7	96.6	95.5
1992	100.0	100.0	100.0	NA	NA	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1993	101.5	101.2	99.3	NA	NA	100.5	102.5	100.8	99.4	99.1	100.8	101.0	99.5	97.7	103.9
1994	103.0	103.6	100.9	NA	NA	102.1	102.6	101.7	102.4	101.7	99.9	102.6	101.2	102.1	105.3
1995	101.9	103.3	105.1	NA	NA	102.3	104.0	102.0	106.1	104.9	99.4	103.2	102.4	105.0	104.2
1996	100.5	103.4	106.4	NA	NA	102.3	104.6	101.8	107.2	107.2	101.2	103.4	104.6	111.8	103.2
1997	101.0	103.8	107.5	NA	NA	104.2	107.0	102.8	107.3	107.9	103.4	103.5	106.3	115.5	103.1
1998	103.9	105.4	107.2	NA	NA	104.9	108.2	104.2	108.4	109.0	100.0	104.4	110.7	119.7	104.2
1999	106.6	105.9	107.1	NA	NA	106.4	110.6	105.8	109.1	NA	101.2	105.3	114.4	118.7	107.0
2000	109.6	106.7	110.3	NA	NA	105.1	111.7	105.8	109.8	NA	101.4	NA	115.2	125.9	108.2

NA: Not Available

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

** See note on Germany in box on page 5.

Source: U.S. Department of Labor, Bureau of Labor Statistics, August 2001.

Table 15. Total labor compensation in manufacturing, 14 countries or areas, 1950-2000
 (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	2.9	2.2	NA	3.7	.7	4.6	3.4	2.9	3.2
1955	11.0	6.9	1.8	NA	NA	NA	4.1	3.8	NA	7.0	1.1	7.2	5.5	4.9	4.9
1960	13.7	8.8	3.4	NA	NA	9.2	6.3	6.0	NA	11.6	1.7	10.9	7.3	6.9	6.7
1961	13.7	8.9	4.1	NA	NA	10.1	7.0	6.7	NA	13.1	2.0	12.2	8.0	7.7	7.2
1962	14.8	9.6	4.9	NA	NA	11.1	7.9	7.5	NA	14.5	2.3	13.2	8.9	8.5	7.4
1963	15.4	10.2	5.6	NA	NA	12.4	8.5	8.3	NA	15.2	2.8	14.5	9.6	9.3	7.6
1964	16.4	11.2	6.5	NA	NA	14.3	9.5	9.2	NA	16.4	3.0	16.9	10.4	10.2	8.3
1965	17.8	12.4	7.3	NA	NA	15.6	10.7	9.8	NA	18.3	3.1	19.0	11.4	11.2	9.0
1966	19.8	14.0	8.3	NA	NA	17.1	11.8	10.5	NA	19.4	3.3	21.0	12.6	12.1	9.6
1967	20.7	14.9	9.8	NA	NA	17.9	12.5	11.1	NA	18.9	3.8	22.5	14.0	12.8	9.6
1968	22.6	15.9	11.8	NA	NA	18.8	13.5	12.0	NA	20.7	4.1	24.4	14.9	13.4	10.2
1969	24.6	17.5	14.2	NA	NA	21.1	15.4	13.5	NA	23.6	4.6	27.7	16.2	14.6	11.3
1970	24.8	18.3	17.1	.6	3.0	24.0	17.1	15.4	NA	28.2	5.7	31.5	18.2	16.6	12.8
1971	25.3	19.5	19.6	.7	3.8	27.2	18.8	17.3	NA	30.7	6.5	35.2	20.8	18.0	13.8
1972	27.8	21.6	22.4	.9	4.6	31.0	20.9	19.2	NA	33.0	7.1	38.4	23.2	19.3	15.4
1973	31.5	24.4	28.3	1.4	6.3	36.1	24.3	22.1	NA	37.3	8.8	44.2	26.1	21.7	17.9
1974	34.2	28.5	35.3	2.0	9.0	43.9	28.9	26.2	NA	40.5	11.4	51.0	30.5	25.7	20.9
1975	34.5	31.5	37.9	2.6	9.5	47.2	30.6	30.2	NA	40.9	14.1	55.3	35.9	31.2	26.4
1976	39.2	36.1	41.8	4.1	12.1	53.4	34.5	34.6	NA	44.2	17.7	59.1	40.4	36.0	29.9
1977	44.4	39.3	45.7	5.6	14.2	55.2	37.7	38.8	NA	47.8	21.2	62.5	44.7	37.7	34.2
1978	50.0	43.8	48.2	8.1	17.3	56.5	40.8	42.8	NA	50.6	24.0	65.5	47.1	39.6	39.5
1979	55.9	49.6	51.6	10.8	21.2	58.6	45.9	47.7	NA	54.8	29.4	68.8	48.0	42.1	46.5
1980	59.7	54.5	55.9	13.5	26.9	62.8	50.2	54.3	NA	59.2	34.6	72.0	52.6	46.3	51.8
1981	65.3	60.9	60.1	17.0	33.6	63.1	52.6	60.1	NA	61.0	40.1	73.8	57.6	49.8	53.7
1982	65.6	62.2	62.5	19.2	36.6	65.5	58.0	67.4	NA	62.5	45.7	76.1	61.3	51.8	56.0
1983	68.1	65.7	65.3	23.6	40.0	68.6	63.1	72.7	NA	63.2	51.1	76.1	64.1	56.9	56.9
1984	75.0	71.3	69.4	28.5	47.8	73.2	70.2	76.7	NA	65.9	55.8	76.1	69.4	63.2	60.4
1985	78.5	76.5	72.6	30.3	51.4	77.1	76.8	80.3	NA	69.4	61.3	79.0	76.2	70.0	65.5
1986	80.8	80.6	75.4	35.9	61.4	78.5	83.2	82.3	NA	72.9	64.7	82.7	84.0	75.4	69.5
1987	83.8	85.7	76.6	45.8	69.2	79.7	87.7	83.8	NA	76.0	69.2	85.8	93.0	80.8	77.0
1988	89.5	94.0	80.4	58.4	74.0	82.3	88.9	86.0	NA	78.6	75.5	86.8	95.2	87.2	83.5
1989	92.8	99.3	86.3	64.7	80.2	87.9	91.8	90.9	NA	82.6	83.3	88.3	93.4	94.5	89.3
1990	95.1	100.2	93.1	74.5	85.6	94.0	96.1	95.9	NA	89.5	90.9	92.2	95.7	102.3	96.4
1991	96.0	98.6	99.4	90.2	92.6	98.8	98.0	99.2	95.2	96.0	97.6	96.1	98.3	104.1	98.1
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	104.2	102.1	97.4	109.4	103.4	99.2	99.1	97.9	96.6	96.6	100.6	100.5	103.6	92.5	102.0
1994	109.4	106.8	96.3	126.4	110.6	99.3	101.6	97.5	97.0	96.8	104.3	100.0	109.9	98.1	106.2
1995	112.2	112.8	96.5	156.5	117.2	100.4	107.6	99.2	99.8	99.2	110.5	101.3	116.6	112.2	110.9
1996	113.4	116.7	96.9	175.5	122.2	101.0	110.7	100.0	99.5	99.4	116.0	102.5	122.6	120.4	113.9
1997	117.5	122.9	99.4	171.6	128.3	102.9	114.8	100.2	99.9	99.5	121.7	106.0	133.3	124.5	117.9
1998	123.5	130.7	95.7	155.5	134.5	105.1	119.2	102.7	102.3	101.2	122.7	110.4	143.3	131.6	123.2
1999	127.4	138.6	92.8	164.3	139.9	106.6	122.2	104.7	103.2	NA	125.7	114.8	147.5	136.5	123.7
2000	134.5	149.7	93.2	184.6	146.8	110.0	126.2	107.7	106.5	NA	129.2	NA	149.1	142.0	124.1

NA: Not Available

Note: The data relate to employees (wage and salary earners) in Korea, Taiwan, Belgium, Denmark, and Italy 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 5.

Source: U.S. Department of Labor, Bureau of Labor Statistics, August 2001.