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## INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION

Industrial production increased 0.4 percent in December, the same rate as in November. At 140.5 percent of its 1992 average, industrial production in December was 5.0 percent higher than in December 1998. For the fourth quarter as a whole, the total index increased at an annual rate of 6.6 percent, up from 4.8 percent in the third quarter. The rate of capacity utilization for total industry edged up in December, to 81.3 percent, a level 0.8 percentage point below its 1967-98 average.

## Market Groups

The output of consumer goods, which had been flat in November, increased 0.2 percent in December. The output of durable consumer goods declined for a second month as the production of automotive products fell a cumulative total of 2-1/4 percent over the last two months of the year. The production of other durable consumer goods advanced, with increases in the indexes for home electronics and miscellaneous consumer durable goods more than offsetting a sharp decline in appliances. Although the monthly fluctuations in appliance output have been volatile,
(over)

INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION: SUMMARY
Seasonally adjusted

| Industrial Production | Index, 1992=100 |  |  |  | Percent change |  |  |  | $\begin{array}{\|r} \text { Dec. } 98 \text { to } \\ \text { Dec. } 99 \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & 1999 \\ & \text { Sept. }^{r} \end{aligned}$ | Oct. ${ }^{\text {r }}$ | Nov. ${ }^{\text {r }}$ | Dec. ${ }^{\text {p }}$ | $\begin{gathered} 1999 \\ \text { Sept. }^{r} \end{gathered}$ | Oct. ${ }^{\text {r }}$ | Nov. ${ }^{\text {r }}$ | Dec. ${ }^{\text {p }}$ |  |
| Total index | 138.1 | 139.4 | 139.9 | 140.5 | . 2 | 1.0 | . 4 | . 4 | 5.0 |
| Previous estimates | 138.0 | 139.1 | 139.5 |  | . 2 | . 8 | . 3 |  |  |
| Major market groups: |  |  |  |  |  |  |  |  |  |
| Products, total | 127.6 | 129.0 | 129.2 | 129.4 | -. 1 | 1.1 | . 2 | . 2 | 3.6 |
| Consumer goods | 117.1 | 118.9 | 118.9 | 119.1 | -. 4 | 1.5 | . 0 | . 2 | 3.5 |
| Business equipment | 173.7 | 175.1 | 176.1 | 175.6 | -. 1 | . 8 | . 6 | -. 3 | 5.6 |
| Construction supplies | 134.1 | 135.3 | 135.7 | 136.2 | . 9 | . 9 | . 3 | . 4 | 3.0 |
| Materials | 155.7 | 156.8 | 158.0 | 159.2 | . 7 | . 7 | . 7 | . 8 | 7.3 |
| Major industry groups: |  |  |  |  |  |  |  |  |  |
| Manufacturing | 142.9 | 144.3 | 145.2 | 145.5 | . 3 | 1.0 | . 6 | . 2 | 5.1 |
| Durable | 175.0 | 176.4 | 177.7 | 177.9 | . 3 | . 8 | . 7 | . 1 | 7.0 |
| Nondurable | 111.8 | 113.1 | 113.6 | 114.0 | . 3 | 1.2 | . 5 | . 3 | 2.6 |
| Mining | 98.3 | 99.3 | 99.8 | 100.2 | -. 2 | 1.0 | . 5 | . 4 | 2.2 |
| Utilities | 117.7 | 118.6 | 115.5 | 119.5 | -. 1 | . 7 | -2.6 | 3.5 | 6.2 |
|  | Percent of capacity |  |  |  |  |  |  |  | Capacity growth |
| Capacity Utilization | $\begin{aligned} & \hline \text { Average } \\ & \text { 1967-98 } \end{aligned}$ | $\begin{gathered} 1982 \\ \text { Low } \end{gathered}$ | $\begin{gathered} \hline \text { 1988-89 } \\ \text { High } \\ \hline \end{gathered}$ | $\begin{gathered} 1998 \\ \text { Dec. } \end{gathered}$ | $\begin{aligned} & 1999 \\ & \text { Sept. } \end{aligned}$ | Oct. ${ }^{\text {r }}$ | Nov. ${ }^{\text {r }}$ | Dec. ${ }^{\text {p }}$ | $\begin{array}{r} \hline \text { Dec. } 98 \text { to } \\ \text { Dec. } 99 \end{array}$ |
| Total industry Previous estimates | 82.1 | 71.1 | 85.4 | 80.6 | $\begin{aligned} & 80.6 \\ & 80.6 \end{aligned}$ | $\begin{aligned} & 81.2 \\ & 81.0 \end{aligned}$ | $\begin{aligned} & 81.2 \\ & 81.0 \end{aligned}$ | 81.3 | 4.1 |
| Manufacturing | 81.1 | 69.0 | 85.7 | 79.9 | 79.7 | 80.2 | 80.4 | 80.3 | 4.6 |
| Advanced processing | 80.5 | 70.4 | 84.2 | 78.8 | 78.7 | 79.2 | 79.4 | 79.1 | 5.5 |
| Primary processing | 82.4 | 66.2 | 88.9 | 83.1 | 82.8 | 83.3 | 83.7 | 83.7 | 2.3 |
| Mining | 87.5 | 80.3 | 88.0 | 81.4 | 81.8 | 82.6 | 83.1 | 83.4 | -. 3 |
| Utilities | 87.4 | 75.9 | 92.6 | 88.9 | 92.0 | 92.6 | 90.1 | 93.1 | 1.4 |

production for the year as a whole was up quite sharply. The production of nondurable consumer goods advanced 0.4 percent. Most of the gain came from a rebound in the output of energy products after unusually mild weather in November had cut sales of residential gas and electricity nearly 4 percent. The output of non-energy consumer products edged up after a rise of about 2 percent over the two preceding months; in December, the production indexes for foods and tobacco and for chemical products rose further but were mostly offset by declines in the output of clothing and paper products.

The production of business equipment, which had increased about 1-1/2 percent over the preceding two months, eased a bit in December. The uptrend was interrupted by a drop of 4.4 percent in the output of transit equipment and of 1.1 percent in the production of the "other equipment" group, particularly farm machinery and equipment. The output of industrial equipment remained weak, edging down in both November and December. The production of information processing and related equipment rose more than 1 percent, bringing the gain over the last 12 months to nearly 24 percent. The output of defense and space equipment fell more than 1 percent in December, to a level 4.2 percent below that in December 1998; the cumulative decline in this index over the 1990s was about 40 percent.

The production of construction supplies rose 0.4 percent further in December, to a level 3.0 percent higher than in December 1998; from the third quarter to the fourth quarter, this index increased at an annual rate of about 7 percent. The output of materials increased 0.8 percent after an average monthly gain of 0.7 percent in the preceding three months. The output of durable goods materials increased 0.7 percent, a bit less than the average monthly gain recorded over the past year. Another strong increase in equipment parts, particularly semiconductors, was partly offset by a decline in the index for original equipment parts used to make motor vehicles. The output of nondurable goods materials edged up 0.2 percent. The output of energy materials, which had grown slowly over the year, jumped 1.8 percent in December after a 1 percent decline in November.

## Industry Groups

Manufacturing output advanced 0.2 percent in December, one-third as much as in November. The declines in the production of motor vehicles and parts and aircraft and parts reduced growth in manufacturing about 0.3 percentage point in December. For the fourth quarter, the annual rate of factory output accelerated to more than 7 percent, with continued strength in durables and a sharp step-up in the output of nondurables, which had changed little, on balance, between mid-1998 and the third quarter of 1999. In the fourth quarter, the overall factory operating rate increased 0.6 percentage point, to 80.3 percent.

The output of durables, which increased 7 percent over the year, edged up in December as the output of motor vehicles and parts, which dropped 2.8 percent in December, reversed the gains made in the preceding three months. In addition, the production of iron and steel edged down after a strong increase in November, and the output of aerospace and miscellaneous transportation fell another 1.5 percent, bringing the decline in this group to nearly 14 percent over 1999. In December, the computer and office equipment industry again advanced less rapidly than in earlier months, while the output of semiconductors and related electronic components rose 3.2 percent, in line with the rapid growth of the past year. The recent recovery in the output of farm machinery, which had erased only a small part of the earlier severe decline, was interrupted in December. The production in nondurable manufacturing increased 0.3 percent, to a level 2.6 percent higher than in December 1998. Among nondurable manufacturing industries, production gains were widespread; however, the output of leather and products and textile mill products declined for another month. In the fourth quarter, production rose substantially in the foods, tobacco, chemicals, paper, and printing and publishing industries.

The factory operating rate edged down in December, to 80.3 percent. Utilization in primary-processing industries held at 83.7 percent, while that for advanced-processing industries declined 0.3 percentage point, to 79.1 percent.

Output at utilities, which had fallen back more than 2-1/2 percent in November, increased 3.5 percent; the operating rate at utilities rebounded 3 percentage points, to 93.1 percent. Boosted by the continuing recovery in oil and gas extraction, mine production increased 0.4 percent, about the same gain as in November; the utilization rate at mines, which increased to 83.4 percent, was still noticeably below its long-term average. While drilling and other oil and gas field activity has been recovering since June, the level of activity remains relatively low.

## Revision of Industrial Production and Capacity Utilization

As previously announced, the Federal Reserve Board on November 30, 1999, published a revision to its index of industrial production (IP) and the related measures of capacity and capacity utilization for the period from January 1992 to October 1999. The updated measures reflect both the incorporation of newly available, more comprehensive source data typical of annual revisions and, for some series, the introduction of improved methods for compiling the series. The new source data are for recent years, primarily 1997 and 1998, and the modified methods affect data for 1992 onward. In addition, the supplementary series on the gross value of products leaving the industrial sector are now expressed in 1996 dollars; these series begin in 1977.

The updated IP measures include some annual data from the Census Bureau's 1997 Census of Manufactures and from selected editions of its 1998 Current Industrial Reports. Annual data from the U.S. Geological Survey on metallic and nonmetallic minerals (except fuels) for 1997 and 1998 are also introduced. The updating includes revisions to the monthly indicator for each industry (either physical product data, production worker hours, or electric power usage) and revised seasonal factors.

The revision introduced improved measures of production for computers and office equipment (SIC 357) and motor vehicles (SIC 3711, 3). The new monthly measure for computers is derived from detailed information on the major products produced by the industry. For example, from 1994 to 1998, quarterly data on the physical quantity and average unit values of about 1,100 distinct models of personal computers, notebooks, servers, and workstations are used to construct the new IP index for computers; previously, monthly electric power use by the industry was used as the within-year indicator of production. The new measures of motor vehicle production incorporate price weights for the different models of light vehicles; previously, all autos and light trucks were weighted equally in compiling an aggregate figure. In addition, the monthly production indicators for bolts and fasteners (SIC 345) and for metalworking machinery (SIC 354) were changed from electric power use to production worker hours.

Capacity and capacity utilization rates have been revised to incorporate preliminary data from the Census Bureau's 1998 Survey of Plant Capacity, which covers manufacturing, along with other new data on capacity from the U.S. Geological Survey, the Department of Energy, and other organizations.

The revision is available on the Board's web site, at www.federalreserve.gov/releases/g17, and on diskettes from Publications Services (telephone 202-452-3245). The revised data are also available through the STAT-USA web site of the Department of Commerce (www.stat-usa.gov). Further information on these revisions is available from the Board's Industrial Output Section (telephone 202-452-3197).

## Industrial Production and Capacity Utilization

(December data, seasonally adjusted)

Ratio scale, 1992=100




Table 1A
INDUSTRIAL PRODUCTION: MARKET GROUPS

| Item | 1998IPProportion ${ }^{1}$ |  |  |  |  |  | Index, | $992=100$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Seasonally Adjusted |  |  |  |  |  | Not seasonally adjusted |  |  |  |  |  |
|  |  | $\begin{gathered} 1999 \\ \text { July } \\ \hline \end{gathered}$ | Aug. | Sept. ${ }^{\text {r }}$ | Oct. ${ }^{\text {r }}$ | Nov. ${ }^{\text {r }}$ | Dec.p | $\begin{gathered} 1999 \\ \text { July } \\ \hline \end{gathered}$ | Aug. | Sept. ${ }^{\text {r }}$ | Oct. ${ }^{\text {r }}$ | Nov. ${ }^{\text {r }}$ | Dec.p |
| Total index | 100.00 | 137.4 | 137.7 | 138.1 | 139.4 | 139.9 | 140.5 | 135.1 | 141.6 | 142.2 | 142.2 | 139.2 | 138.0 |
| Products, total | 61.73 | 126.9 | 127.6 | 127.6 | 129.0 | 129.2 | 129.4 | 125.3 | 131.9 | 131.5 | 131.8 | 127.6 | 125.6 |
| Final products | 46.71 | 128.6 | 129.5 | 129.1 | 130.7 | 131.0 | 130.9 | 125.2 | 133.4 | 132.8 | 133.3 | 129.2 | 127.2 |
| Consumer goods | 28.05 | 116.8 | 117.6 | 117.1 | 118.9 | 118.9 | 119.1 | 114.9 | 122.6 | 121.3 | 121.3 | 116.3 | 114.9 |
| Durable | 5.92 | 153.4 | 155.5 | 153.5 | 157.5 | 156.2 | 155.4 | 130.2 | 155.0 | 155.3 | 164.8 | 154.2 | 147.1 |
| Automotive products | 2.68 | 143.7 | 150.6 | 145.5 | 147.9 | 146.9 | 144.6 | 107.4 | 152.6 | 150.6 | 159.9 | 143.7 | 130.1 |
| Autos and trucks | 1.59 | 148.9 | 162.9 | 152.8 | 155.1 | 154.3 | 148.8 | 87.5 | 165.3 | 157.9 | 174.1 | 150.7 | 128.2 |
| Autos | . 55 | 102.4 | 105.0 | 105.5 | 103.9 | 107.2 | 100.0 | 62.3 | 107.0 | 107.4 | 116.6 | 104.7 | 87.0 |
| Trucks | 1.05 | 197.2 | 221.6 | 201.9 | 207.8 | 203.6 | 199.2 | 113.8 | 224.2 | 209.8 | 232.9 | 198.3 | 170.5 |
| Auto parts and allied goods | 1.08 | 135.3 | 132.8 | 134.4 | 136.7 | 135.4 | 137.3 | 132.5 | 134.6 | 139.5 | 139.8 | 133.2 | 131.4 |
| Other durable goods | 3.25 | 161.1 | 158.7 | 159.7 | 165.1 | 163.5 | 164.2 | 150.5 | 155.9 | 158.4 | 168.0 | 162.6 | 161.8 |
| Appliances and electronics | . 83 | 329.9 | 319.0 | 326.3 | 360.1 | 351.1 | 349.8 | 301.3 | 313.5 | 335.3 | 389.6 | 369.7 | 338.4 |
| Appliances and air cond. | . 47 | 132.3 | 127.7 | 122.2 | 133.2 | 133.4 | 125.3 | 123.1 | 122.4 | 118.6 | 136.2 | 127.5 | 111.9 |
| Home electronics | . 37 | 815.1 | 789.7 | 871.7 | 974.8 | 923.1 | 977.6 | 741.0 | 813.5 | 963.8 | 1132.2 | 1087.1 | 1031.5 |
| Carpeting and furniture | . 85 | 124.1 | 122.1 | 124.1 | 126.8 | 125.2 | 124.9 | 122.8 | 126.5 | 127.5 | 131.4 | 122.3 | 117.3 |
| Miscellaneous | 1.57 | 115.9 | 115.4 | 114.4 | 114.5 | 114.8 | 116.2 | 106.2 | 110.1 | 109.0 | 110.8 | 111.3 | 118.9 |
| Nondurable | 22.13 | 108.3 | 108.9 | 108.7 | 110.0 | 110.3 | 110.7 | 110.7 | 115.0 | 113.3 | 111.6 | 107.7 | 107.4 |
| Nonenergy | 19.51 | 106.9 | 107.8 | 107.5 | 108.9 | 109.7 | 109.8 | 109.4 | 114.8 | 114.2 | 112.8 | 107.4 | 103.9 |
| Foods and tobacco | 9.89 | 106.7 | 106.5 | 106.2 | 107.6 | 108.7 | 109.1 | 107.1 | 113.9 | 112.9 | 113.0 | 107.1 | 100.8 |
| Clothing | 1.79 | 89.2 | 90.1 | 89.9 | 90.3 | 90.7 | 89.8 | 89.3 | 94.2 | 93.6 | 92.9 | 89.6 | 86.1 |
| Chemical products | 4.97 | 119.4 | 122.7 | 120.9 | 122.6 | 124.5 | 125.0 | 129.2 | 134.1 | 133.3 | 126.8 | 118.0 | 118.7 |
| Paper products | 2.86 | 102.0 | 103.2 | 104.7 | 106.3 | 104.9 | 103.9 | 101.8 | 104.1 | 104.7 | 105.5 | 105.3 | 105.3 |
| Energy products | 2.62 | 118.6 | 116.6 | 117.6 | 118.4 | 114.1 | 117.1 | 120.2 | 116.1 | 106.8 | 102.2 | 110.0 | 133.3 |
| Fuels | . 77 | 111.1 | 110.0 | 112.0 | 112.4 | 108.2 | 108.6 | 113.0 | 111.8 | 112.9 | 112.8 | 111.2 | 111.3 |
| Utilities | 1.84 | 121.7 | 119.3 | 119.7 | 120.8 | 116.4 | 120.7 | 124.1 | 118.5 | 103.9 | 97.1 | 109.7 | 144.6 |
| Equipment, total | 18.65 | 149.3 | 150.5 | 150.2 | 151.4 | 152.3 | 151.8 | 144.5 | 153.6 | 154.4 | 155.8 | 153.4 | 150.5 |
| Business equipment | 15.57 | 172.6 | 173.9 | 173.7 | 175.1 | 176.1 | 175.6 | 166.3 | 177.6 | 179.1 | 180.4 | 177.3 | 173.7 |
| Information processing \& related | 6.24 | 253.8 | 259.9 | 261.3 | 266.5 | 269.6 | 273.2 | 257.0 | 268.2 | 272.0 | 274.4 | 275.1 | 276.5 |
| Computer and office | 1.51 | 851.9 | 892.8 | 926.9 | 957.0 | 977.1 | 992.8 | 861.4 | 917.9 | 976.0 | 1025.3 | 1038.8 | 1010.8 |
| Industrial | 4.76 | 135.4 | 133.6 | 133.9 | 135.4 | 135.2 | 135.1 | 132.3 | 135.0 | 136.5 | 137.5 | 134.6 | 133.2 |
| Transit | 3.10 | 127.5 | 128.1 | 124.0 | 121.6 | 120.8 | 115.4 | 105.4 | 128.9 | 126.1 | 128.3 | 119.8 | 108.8 |
| Autos and trucks | 1.30 | 131.2 | 135.3 | 132.0 | 133.2 | 136.0 | 128.1 | 85.3 | 137.6 | 135.1 | 149.4 | 132.0 | 110.9 |
| Other | 1.47 | 123.8 | 123.2 | 126.4 | 125.4 | 128.8 | 127.4 | 119.1 | 127.3 | 131.4 | 128.6 | 128.2 | 122.1 |
| Defense and space equipment | 2.08 | 74.5 | 74.7 | 73.6 | 73.7 | 73.0 | 72.0 | 73.0 | 74.1 | 73.0 | 73.8 | 73.7 | 73.4 |
| Oil and gas well drilling | . 74 | 102.0 | 107.1 | 111.3 | 115.7 | 121.3 | 123.6 | 105.2 | 109.7 | 113.9 | 116.4 | 121.6 | 123.7 |
| Manufactured homes | . 26 | 151.5 | 151.3 | 144.4 | 142.6 | 143.5 | 141.5 | 138.5 | 164.1 | 151.1 | 157.2 | 138.9 | 112.4 |
| Intermediate products | 15.03 | 121.5 | 121.7 | 122.6 | 123.6 | 123.6 | 124.4 | 125.7 | 127.7 | 127.8 | 127.5 | 123.0 | 121.0 |
| Construction supplies | 6.08 | 133.2 | 132.9 | 134.1 | 135.3 | 135.7 | 136.2 | 136.9 | 139.6 | 139.8 | 140.2 | 135.1 | 129.4 |
| Business supplies | 8.95 | 114.6 | 115.1 | 115.8 | 116.7 | 116.4 | 117.4 | 119.1 | 120.6 | 120.7 | 120.0 | 115.9 | 116.0 |
| Materials | 38.27 | 155.0 | 154.6 | 155.7 | 156.8 | 158.0 | 159.2 | 151.1 | 157.2 | 160.1 | 159.3 | 159.0 | 159.3 |
| Durable | 23.38 | 200.3 | 199.9 | 202.3 | 203.1 | 205.9 | 207.3 | 190.0 | 201.9 | 210.2 | 207.7 | 208.0 | 207.4 |
| Consumer parts | 4.50 | 153.9 | 147.2 | 156.0 | 154.3 | 156.5 | 155.3 | 127.2 | 150.1 | 156.7 | 162.2 | 155.4 | 140.2 |
| Equipment parts | 8.63 | 364.6 | 369.0 | 371.4 | 377.0 | 382.9 | 390.3 | 349.5 | 368.1 | 399.1 | 381.7 | 395.4 | 415.1 |
| Semiconductors, printed circuit boards, and oth. elec. comps. | 3.00 | 1539.4 | 1559.1 | 1585.4 | 1647.0 | 1724.7 | 1787.4 | 1347.2 | 1490.2 | 1835.8 | 1605.1 | 1754.0 | 1944.6 |
| Other | 10.25 | 131.1 | 131.6 | 131.2 | 131.3 | 132.7 | 133.1 | 130.0 | 133.4 | 133.8 | 133.3 | 132.1 | 131.0 |
| Basic metals | 3.14 | 122.8 | 123.3 | 122.1 | 122.8 | 125.6 | 126.0 | 119.5 | 120.9 | 123.0 | 122.8 | 124.9 | 123.6 |
| Nondurable | 7.92 | 114.5 | 114.4 | 114.7 | 116.5 | 117.2 | 117.4 | 113.1 | 114.6 | 115.0 | 118.1 | 115.9 | 113.0 |
| Textile | . 87 | 101.2 | 101.1 | 100.3 | 102.2 | 100.9 | 101.2 | 96.3 | 103.8 | 100.1 | 105.4 | 100.4 | 93.6 |
| Paper | 1.72 | 116.3 | 116.3 | 118.6 | 118.5 | 120.1 | 119.8 | 116.2 | 117.2 | 117.5 | 118.4 | 118.5 | 116.6 |
| Chemical | 3.49 | 117.7 | 117.4 | 117.7 | 119.9 | 121.1 | 121.4 | 116.9 | 116.4 | 118.3 | 119.5 | 119.4 | 118.2 |
| Other | 1.83 | 113.0 | 113.2 | 112.5 | 115.2 | 115.0 | 115.4 | 111.1 | 114.0 | 113.5 | 121.2 | 114.4 | 109.4 |
| Energy | 6.97 | 102.9 | 102.3 | 101.8 | 102.6 | 101.6 | 103.4 | 104.3 | 104.5 | 100.5 | 99.2 | 99.5 | 104.2 |
| Primary | 4.54 | 100.2 | 100.3 | 99.6 | 100.0 | 99.3 | 100.3 | 99.7 | 100.8 | 98.1 | 97.0 | 97.6 | 100.9 |
| Converted fuel | 2.43 | 108.0 | 106.1 | 106.1 | 107.7 | 106.1 | 109.4 | 114.3 | 112.5 | 105.6 | 104.0 | 103.6 | 111.2 |
| SPECIAL AGGREGATES |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total excluding: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Autos and trucks | 97.11 | 137.3 | 137.4 | 138.0 | 139.3 | 139.8 | 140.6 | 136.5 | 141.2 | 142.1 | 141.6 | 139.2 | 138.6 |
| Motor vehicles and parts | 94.75 | 136.7 | 137.1 | 137.2 | 138.6 | 139.2 | 140.0 | 136.8 | 140.8 | 141.5 | 140.7 | 138.5 | 138.4 |
| Computers | 97.77 | 131.2 | 131.4 | 131.5 | 132.7 | 133.1 | 133.6 | 129.0 | 135.1 | 135.5 | 135.2 | 132.2 | 131.1 |
| Computers and semiconductors ${ }^{2}$ | 94.26 | 119.7 | 119.8 | 119.9 | 120.8 | 121.0 | 121.3 | 117.6 | 122.9 | 122.4 | 122.7 | 119.5 | 118.0 |
| Consumer goods excluding: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Autos and trucks | 26.46 | 115.0 | 115.2 | 115.2 | 117.0 | 117.0 | 117.5 | 116.0 | 120.4 | 119.3 | 118.6 | 114.5 | 114.1 |
| Energy | 25.44 | 116.6 | 117.7 | 117.1 | 119.0 | 119.4 | 119.4 | 114.3 | 123.3 | 122.9 | 123.5 | 117.0 | 112.9 |
| Business equipment excluding: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Autos and trucks | 14.28 | 177.4 | 178.3 | 178.5 | 179.9 | 180.7 | 181.1 | 176.0 | 182.2 | 184.1 | 183.8 | 182.5 | 181.1 |
| Computer and office equipment | 14.07 | 144.4 | 144.6 | 143.6 | 144.1 | 144.6 | 143.8 | 138.0 | 147.5 | 147.4 | 147.5 | 144.1 | 141.4 |
| Materials excluding: Energy | 31.30 | 171.6 | 171.3 | 173.0 | 174.2 | 176.2 | 177.2 | 165.7 | 174.0 | 179.5 | 179.0 | 178.4 | 176.9 |

1. The IP proportion data are estimates of the industries' relative contributions to overall IP growth in the following year.
2. Semiconductors include related electronic components.

Table 1B
INDUSTRIAL PRODUCTION: MARKET GROUPS
Percent change

| Item | $\begin{gathered} 1998 \text { Q4 } \\ \text { to } \\ 1999 \text { Q4 } \\ \hline \end{gathered}$ | Seasonally adjusted annual rate |  |  |  | Seasonally adjusted |  |  |  | Not seasonally adjusted |  |  |  | $\begin{gathered} \text { Dec. } 98 \\ \text { to } \\ \text { Dec. } 99 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{array}{r} 1999 \\ \text { Q1 } \\ \hline \end{array}$ | Q2 | Q3 ${ }^{\text {r }}$ | Q4p | $\begin{array}{r} 1999 \\ \text { Sept. }{ }^{r} \\ \hline \end{array}$ | Oct. ${ }^{\text {r }}$ | Nov. ${ }^{\text {r }}$ | Dec.p | $\begin{array}{r} 1999 \\ \text { Sept. }{ }^{1} \\ \hline \end{array}$ | Oct. ${ }^{r}$ | Nov. ${ }^{\text {r }}$ | Dec.p |  |
| Total index | 4.5 | 2.0 | 4.7 | 4.8 | 6.6 | . 2 | 1.0 | . 4 | . 4 | . 5 | . 0 | -2.1 | -. 9 | 5.0 |
| Products, total | 3.1 | 1.5 | 2.7 | 2.4 | 5.9 | -. 1 | 1.1 | . 2 | . 2 | -. 3 | . 2 | -3.2 | -1.5 | 3.6 |
| Final products | 3.2 | 1.0 | 3.1 | 3.2 | 5.7 | -. 3 | 1.2 | . 2 | . 0 | -. 5 | . 4 | -3.1 | -1.5 | 3.9 |
| Consumer goods | 2.9 | 4.0 | . 0 | 1.5 | 6.2 | -. 4 | 1.5 | . 0 | . 2 | -1.1 | . 1 | -4.1 | -1.2 | 3.5 |
| Durable | 7.2 | 11.8 | 8.1 | 3.2 | 5.9 | -1.3 | 2.6 | -. 8 | -. 5 | . 2 | 6.1 | -6.5 | -4.6 | 6.5 |
| Automotive products | 2.9 | -1.4 | 8.9 | 4.7 | -. 5 | -3.3 | 1.6 | -. 7 | -1.6 | -1.4 | 6.2 | -10.1 | -9.4 | 2.1 |
| Autos and trucks | 1.9 | -4.0 | 13.7 | 4.3 | -5.3 | -6.2 | 1.5 | -. 5 | -3.6 | -4.5 | 10.3 | -13.5 | -14.9 | . 5 |
| Autos | -6.1 | -26.7 | -3.3 | 12.4 | -2.5 | . 5 | -1.6 | 3.2 | -6.7 | . 3 | 8.6 | -10.2 | -16.9 | -7.8 |
| Trucks | 6.1 | 9.5 | 22.3 | 1.2 | -6.4 | -8.9 | 2.9 | -2.0 | -2.2 | -6.4 | 11.0 | -14.8 | -14.0 | 4.7 |
| Auto parts and allied goods | 4.1 | 2.8 | 1.6 | 5.1 | 7.1 | 1.2 | 1.7 | -1.0 | 1.4 | 3.7 | . 2 | -4.7 | -1.4 | 4.2 |
| Other durable goods | 11.1 | 24.4 | 7.4 | 2.0 | 11.6 | . 6 | 3.4 | -. 9 | . 4 | 1.6 | 6.1 | -3.2 | -. 5 | 10.4 |
| Appliances and electronics | 28.6 | 66.5 | 8.2 | 8.4 | 40.0 | 2.3 | 10.3 | -2.5 | -. 4 | 7.0 | 16.2 | -5.1 | -8.5 | 23.4 |
| Appliances and air cond. | 3.1 | 13.2 | -1.6 | -8.6 | 10.7 | -4.2 | 9.0 | . 1 | -6.1 | -3.1 | 14.8 | -6.4 | -12.3 | -1.6 |
| Home electronics | 66.1 | 161.1 | 19.2 | 34.3 | 81.8 | 10.4 | 11.8 | -5.3 | 5.9 | 18.5 | 17.5 | -4.0 | -5.1 | 59.0 |
| Carpeting and furniture | 6.5 | 11.7 | -1.5 | 9.1 | 7.3 | 1.6 | 2.2 | -1.3 | -. 2 | . 8 | 3.0 | -6.9 | -4.1 | 7.8 |
| Miscellaneous | 4.2 | 10.8 | 12.2 | -5.1 | -. 3 | -. 9 | . 1 | . 3 | 1.3 | -1.0 | 1.7 | . 4 | 6.9 | 4.7 |
| Nondurable | 1.7 | 1.9 | -2.2 | 1.0 | 6.3 | -. 2 | 1.2 | . 2 | . 4 | -1.4 | -1.6 | -3.5 | -. 3 | 2.6 |
| Nonenergy | 1.1 | . 6 | -3.5 | -. 1 | 7.8 | -. 3 | 1.3 | . 8 | . 1 | -. 6 | -1.2 | -4.8 | -3.2 | 1.9 |
| Foods and tobacco | . 6 | 3.4 | -4.0 | -4.3 | 7.7 | -. 2 | 1.3 | 1.0 | . 4 | -. 8 | . 1 | -5.2 | -5.9 | 1.8 |
| Clothing | -1.6 | -. 3 | -3.9 | -4.4 | 2.4 | -. 3 | . 5 | . 5 | -1.0 | -. 7 | -. 7 | -3.6 | -3.9 | -1.7 |
| Chemical products | 3.0 | 3.0 | -5.0 | 4.2 | 10.5 | -1.4 | 1.4 | 1.5 | . 4 | -. 6 | -4.9 | -6.9 | . 6 | 4.0 |
| Paper products | 1.4 | -12.2 | 1.2 | 11.3 | 7.0 | 1.5 | 1.5 | -1.4 | -1.0 | . 6 | . 8 | -. 2 | . 0 | 1.0 |
| Energy products | 6.4 | 12.4 | 8.2 | 9.1 | -3.5 | . 8 | . 7 | -3.7 | 2.7 | -8.0 | -4.3 | 7.7 | 21.2 | 7.9 |
| Fuels | . 5 | 10.8 | -4.6 | . 9 | -4.5 | 1.8 | . 4 | -3.7 | . 3 | 1.1 | -. 1 | -1.5 | . 1 | -1.4 |
| Utilities | 9.0 | 13.1 | 13.9 | 12.9 | -3.0 | . 4 | . 9 | -3.7 | 3.8 | -12.3 | -6.6 | 13.0 | 31.9 | 12.2 |
| Equipment, total | 3.7 | -3.2 | 7.8 | 5.9 | 4.9 | -. 2 | . 8 | . 6 | -. 3 | . 5 | . 9 | -1.5 | -1.9 | 4.5 |
| Business equipment | 5.0 | -1.6 | 10.0 | 6.8 | 5.2 | -. 1 | . 8 | . 6 | -. 3 | . 8 | . 8 | -1.7 | -2.0 | 5.6 |
| Information processing \& related | 22.5 | 10.3 | 34.9 | 27.5 | 18.9 | . 5 | 2.0 | 1.2 | 1.3 | 1.4 | . 9 | . 2 | . 5 | 23.7 |
| Computer and office | 51.7 | 44.9 | 67.8 | 51.3 | 44.1 | 3.8 | 3.3 | 2.1 | 1.6 | 6.3 | 5.1 | 1.3 | -2.7 | 50.9 |
| Industrial | -2.6 | -8.0 | -3.0 | -2.0 | 2.8 | . 3 | 1.1 | -. 1 | -. 1 | 1.1 | . 7 | -2.2 | -1.0 | -2.5 |
| Transit | -12.9 | -15.8 | -6.8 | -7.1 | -21.1 | -3.2 | -1.9 | -. 7 | -4.4 | -2.2 | 1.8 | -6.6 | -9.1 | -14.4 |
| Autos and trucks | -. 6 | -10.5 | 5.6 | 4.6 | -1.2 | -2.4 | . 9 | 2.1 | -5.8 | -1.8 | 10.6 | -11.6 | -16.0 | -2.2 |
| Other | -7.8 | 1.4 | -14.1 | -24.0 | 9.1 | 2.6 | -. 8 | 2.7 | -1.1 | 3.2 | -2.1 | -. 3 | -4.7 | -4.2 |
| Defense and space equipment | -3.8 | -2.2 | -2.1 | $-3.4$ | -7.3 | -1.4 | . 0 | -. 9 | -1.4 | -1.5 | 1.1 | -. 1 | -. 4 | -4.2 |
| Oil and gas well drilling | 5.9 | -41.2 | -1.3 | 35.3 | 60.5 | 4.0 | 3.9 | 4.9 | 1.9 | 3.8 | 2.2 | 4.5 | 1.7 | 17.5 |
| Manufactured homes | -16.5 | -. 7 | -19.1 | -27.7 | -16.4 | -4.6 | -1.2 | . 6 | -1.4 | -7.9 | 4.0 | -11.7 | -19.1 | -18.0 |
| Intermediate products | 2.8 | 3.2 | 1.6 | . 0 | 6.5 | . 7 | . 9 | . 0 | . 7 | . 1 | -. 2 | -3.5 | -1.7 | 2.8 |
| Construction supplies | 3.8 | 5.5 | -. 7 | 3.5 | 7.1 | . 9 | . 9 | . 3 | . 4 | . 2 | . 3 | -3.7 | -4.2 | 3.0 |
| Business supplies | 2.1 | 1.6 | 3.3 | -2.3 | 6.1 | . 6 | . 8 | -. 2 | . 9 | . 1 | -. 6 | -3.4 | . 1 | 2.6 |
| Materials | 6.8 | 2.8 | 7.8 | 8.8 | 7.7 | . 7 | . 7 | . 7 | . 8 | 1.8 | -. 4 | -. 2 | . 2 | 7.3 |
| Durable | 9.3 | 4.3 | 10.7 | 12.8 | 9.5 | 1.2 | . 4 | 1.3 | . 7 | 4.1 | -1.2 | . 1 | -. 3 | 9.6 |
| Consumer parts | 5.9 | 3.4 | 2.6 | 9.6 | 8.1 | 6.0 | -1.1 | 1.4 | -. 8 | 4.4 | 3.5 | -4.2 | -9.8 | 5.5 |
| Equipment parts | 20.1 | 9.0 | 27.7 | 27.1 | 17.4 | . 7 | 1.5 | 1.6 | 1.9 | 8.4 | -4.3 | 3.6 | 5.0 | 21.2 |
| Semiconductors, printed circuit boards, and oth. elec. comps. | 48.4 | 18.4 | 71.7 | 62.0 | 47.2 | 1.7 | 3.9 | 4.7 | 3.6 | 23.2 | -12.6 | 9.3 | 10.9 | 50.8 |
| Other | 1.6 | . 6 | -. 1 | 2.5 | 3.5 | -. 3 | . 1 | 1.1 | . 3 | . 3 | -. 4 | -. 9 | -. 8 | 1.5 |
| Basic metals | 4.8 | -2.0 | 8.1 | 6.2 | 7.0 | -1.0 | . 6 | 2.3 | . 3 | 1.7 | -. 1 | 1.7 | -1.0 | 5.6 |
| Nondurable | 4.9 | 1.8 | 5.4 | 3.4 | 9.1 | . 3 | 1.6 | . 5 | . 2 | . 3 | 2.7 | -1.8 | -2.5 | 5.1 |
| Textile | -. 2 | -9.1 | 9.6 | -2.7 | 2.2 | -. 7 | 1.9 | -1.3 | . 4 | -3.6 | 5.2 | -4.7 | -6.8 | -. 5 |
| Paper | 4.6 | 6.5 | 1.7 | 2.0 | 8.5 | 2.0 | . 0 | 1.3 | -. 2 | . 3 | . 7 | . 1 | -1.6 | 4.8 |
| Chemical | 8.1 | 3.3 | 11.1 | 6.8 | 11.3 | . 2 | 1.9 | 1.0 | . 3 | 1.6 | 1.0 | -. 1 | -1.0 | 9.1 |
| Other | 1.3 | -. 2 | -3.4 | . 8 | 8.3 | -. 6 | 2.4 | -. 2 | . 3 | -. 4 | 6.7 | -5.6 | -4.3 | . 7 |
| Energy | . 2 | -1.3 | . 2 | 1.3 | . 8 | -. 5 | . 8 | -1.0 | 1.8 | -3.8 | -1.3 | . 3 | 4.7 | 1.7 |
| Primary | -. 4 | -4.5 | -3.6 | 7.6 | -. 6 | -. 7 | . 5 | -. 8 | 1.1 | -2.7 | -1.1 | . 5 | 3.5 | 1.5 |
| Converted fuel | 1.4 | 5.0 | 7.4 | -9.6 | 3.7 | . 0 | 1.5 | -1.5 | 3.2 | -6.1 | -1.5 | -. 3 | 7.3 | 2.2 |
| SPECIAL AGGREGATE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total excluding: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Autos and trucks | 4.6 | 2.3 | 4.5 | 4.8 | 6.9 | . 4 | 1.0 | . 4 | . 6 | . 6 | -. 4 | -1.7 | -. 4 | 5.2 |
| Motor vehicles and parts | 4.5 | 2.3 | 4.4 | 4.7 | 6.8 | . 1 | 1.0 | . 4 | . 6 | . 5 | -. 5 | -1.6 | -. 1 | 5.1 |
| Computers | 3.3 | . 7 | 3.3 | 3.7 | 5.5 | . 1 | . 9 | . 3 | . 4 | . 3 | -. 2 | -2.2 | -. 8 | 3.8 |
| Computers and semiconductors ${ }^{1}$ | 1.8 | . 1 | 1.0 | 1.9 | 4.3 | . 1 | . 8 | . 2 | . 2 | -. 4 | . 2 | -2.6 | -1.3 | 2.3 |
| Consumer goods excluding: Autos and trucks | 3.0 | 4.5 | -. 8 | 1.3 | 7.0 | . 0 | 1.5 | . 0 | . 4 | -. 9 | -. 6 | -3.5 | -. 3 | 3.6 |
| Energy | 2.6 | 3.2 | -. 8 | . 7 | 7.4 | -. 5 | 1.6 | . 4 | -. 1 | -. 4 | . 5 | -5.2 | -3.5 | 3.0 |
| Business equipment excluding: Autos and trucks Computer and office equipment | 5.5 -.6 | -.7 -6.6 | 10.4 3.2 | $\begin{aligned} & 7.0 \\ & 1.3 \end{aligned}$ | 5.8 .0 | .1 -.7 | . 8 | .5 .4 | .2 -.6 | 1.1 | -.2 .1 | -.7 -2.3 | -.7 -1.9 | 6.3 .1 |
| Materials excluding: Energy | 8.2 | 3.7 | 9.5 | 10.5 | 9.4 | 1.0 | . 7 | 1.1 | . 6 | 3.2 | -. 3 | -. 4 | -. 8 | 8.5 |

[^0]Table 2A
INDUSTRIAL PRODUCTION: INDUSTRY GROUPS

| Item SIC | $\begin{array}{\|c} 1998 \\ \text { IP } \\ \text { Proportion } 1 \\ \hline \end{array}$ | Seasonally Adjusted Index, |  |  |  |  |  | $2=100$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  | Not seasonally adjusted |  |  |  |  |  |
|  |  | $\begin{gathered} 1999 \\ \text { July } \\ \hline \end{gathered}$ | Aug. | Sept. ${ }^{\text {r }}$ | Oct. ${ }^{\text {r }}$ | Nov. ${ }^{\text {r }}$ | Dec.p | $\begin{gathered} 1999 \\ \text { July } \\ \hline \end{gathered}$ | Aug. | Sept. ${ }^{\text {r }}$ | Oct. ${ }^{\text {r }}$ | Nov. ${ }^{\text {r }}$ | Dec.p |
| Total index | 100.00 | 137.4 | 137.7 | 138.1 | 139.4 | 139.9 | 140.5 | 135.1 | 141.6 | 142.2 | 142.2 | 139.2 | 138.0 |
| Manufacturing | 88.29 | 142.0 | 142.5 | 142.9 | 144.3 | 145.2 | 145.5 | 138.9 | 146.6 | 148.4 | 148.8 | 145.1 | 142.1 |
| Primary processing | 27.00 | 123.3 | 123.4 | 123.6 | 124.6 | 125.3 | 125.7 | 121.9 | 124.9 | 125.2 | 126.8 | 124.7 | 122.4 |
| Advanced processing | 61.29 | 151.8 | 152.6 | 153.1 | 154.7 | 155.6 | 155.9 | 147.3 | 157.5 | 160.2 | 159.9 | 155.3 | 152.0 |
| Durable | 49.36 | 173.8 | 174.4 | 175.0 | 176.4 | 177.7 | 177.9 | 164.8 | 177.0 | 180.7 | 181.5 | 178.6 | 175.7 |
| Lumber and products 24 | 2.16 | 121.5 | 120.2 | 119.7 | 120.4 | 120.9 | 121.6 | 120.1 | 125.0 | 123.6 | 125.9 | 120.4 | 114.1 |
| Furniture and fixtures 25 | 1.41 | 125.7 | 126.4 | 127.9 | 127.6 | 127.9 | 128.6 | 125.5 | 133.1 | 133.4 | 129.3 | 127.1 | 126.5 |
| Stone, clay, and glass products 32 | 2.45 | 129.3 | 130.2 | 129.6 | 131.6 | 132.2 | 132.1 | 131.0 | 134.7 | 133.8 | 135.8 | 132.2 | 126.9 |
| Primary metals 33 | 3.36 | 128.0 | 129.6 | 128.3 | 128.3 | 131.2 | 131.3 | 123.3 | 127.3 | 129.2 | 129.2 | 130.1 | 126.8 |
| Iron and steel 331,2 | 1.83 | 126.2 | 127.6 | 125.9 | 124.4 | 129.9 | 129.7 | 122.2 | 124.5 | 126.6 | 126.0 | 127.0 | 123.9 |
| Raw steel | . 08 | 111.1 | 115.9 | 112.4 | 121.8 | 124.0 | 123.6 | 106.5 | 112.7 | 112.0 | 119.8 | 121.0 | 119.2 |
| Nonferrous 333-6,9 | 1.53 | 130.2 | 132.1 | 131.4 | 133.2 | 132.9 | 133.4 | 124.6 | 130.7 | 132.5 | 133.1 | 134.0 | 130.4 |
| Fabricated metal products 34 | 5.58 | 128.6 | 128.5 | 128.4 | 129.0 | 130.1 | 130.3 | 127.9 | 130.8 | 130.9 | 132.0 | 130.9 | 131.2 |
| Industrial machinery <br> and equipment | 9.95 | 230.0 | 231.4 | 235.5 | 239.0 | 240.5 | 241.6 | 223.9 | 232.2 | 240.6 | 244.9 | 241.3 | 239.0 |
| Computer and office equip. 357 | 2.23 | 1075.1 | 1123.7 | 1167.5 | 1206.7 | 1233.0 | 1254.9 | 1071.9 | 1150.3 | 1235.2 | 1308.0 | 1330.7 | 1296.0 |
| Electrical machinery 36 | 8.82 | 399.2 | 401.3 | 402.1 | 410.9 | 417.7 | 425.4 | 383.7 | 405.7 | 435.9 | 417.9 | 429.9 | 446.8 |
| Semiconductors and related electronic components 3672-9 | 3.50 | 1212.5 | 1224.7 | 1243.7 | 1286.8 | 1338.6 | 1381.3 | 1090.4 | 1191.5 | 1426.6 | 1273.3 | 1377.9 | 1510.4 |
| Transportation equipment 37 | 9.41 | 122.9 | 122.9 | 123.1 | 122.1 | 121.8 | 118.9 | 97.7 | 124.3 | 124.2 | 129.1 | 120.8 | 109.8 |
| Motor vehicles and parts 371 | 5.25 | 152.2 | 152.2 | 155.6 | 155.6 | 156.4 | 152.0 | 101.3 | 155.9 | 157.4 | 170.3 | 153.7 | 131.2 |
| Autos and light trucks | 2.61 | 135.8 | 146.8 | 139.4 | 140.7 | 141.0 | 135.1 | 80.2 | 148.9 | 143.5 | 157.8 | 137.5 | 116.5 |
| Aerospace and misc. 372-6,9 | 4.16 | 94.7 | 94.7 | 92.2 | 90.2 | 88.8 | 87.5 | 92.9 | 94.1 | 92.5 | 90.2 | 89.5 | 88.8 |
| Instruments 38 | 4.87 | 117.2 | 117.7 | 117.2 | 118.6 | 119.0 | 119.2 | 119.1 | 120.9 | 120.5 | 119.7 | 118.1 | 118.4 |
| Miscellaneous 39 | 1.36 | 125.2 | 125.2 | 125.1 | 125.0 | 124.7 | 125.6 | 122.2 | 126.1 | 126.7 | 129.4 | 128.4 | 127.3 |
| Nondurable | 38.93 | 111.0 | 111.5 | 111.8 | 113.1 | 113.6 | 114.0 | 112.4 | 116.2 | 116.3 | 116.4 | 112.0 | 109.1 |
| Foods 20 | 8.83 | 108.9 | 108.9 | 109.6 | 110.6 | 111.3 | 111.4 | 111.6 | 115.1 | 116.5 | 115.8 | 110.6 | 107.3 |
| Tobacco products 21 | 1.58 | 96.0 | 94.8 | 90.9 | 93.6 | 96.1 | 97.9 | 83.9 | 103.8 | 95.0 | 101.8 | 94.0 | 74.5 |
| Textile mill products 22 | 1.52 | 112.3 | 111.7 | 110.8 | 114.0 | 112.3 | 111.8 | 110.7 | 116.0 | 113.9 | 119.8 | 109.4 | 99.2 |
| Apparel products 23 | 1.72 | 89.8 | 89.2 | 89.0 | 89.6 | 89.5 | 89.5 | 88.7 | 91.8 | 91.4 | 91.1 | 89.8 | 89.3 |
| Paper and products 26 | 3.42 | 115.0 | 115.8 | 117.2 | 118.0 | 118.5 | 118.3 | 114.7 | 117.2 | 116.7 | 119.5 | 116.3 | 114.2 |
| Printing and publishing 27 | 6.77 | 102.8 | 103.6 | 104.6 | 106.4 | 106.0 | 106.0 | 106.7 | 108.4 | 110.3 | 110.6 | 106.4 | 104.3 |
| Chemicals and products 28 | 9.74 | 115.8 | 117.7 | 117.4 | 119.1 | 120.7 | 121.2 | 120.5 | 122.9 | 123.5 | 120.8 | 115.9 | 115.7 |
| Petroleum products 29 | 1.36 | 115.1 | 114.1 | 114.6 | 114.6 | 112.5 | 113.4 | 120.2 | 119.9 | 118.5 | 115.6 | 113.5 | 112.3 |
| Rubber and plastics products 30 | 3.79 | 138.0 | 137.6 | 139.3 | 138.8 | 139.3 | 140.6 | 133.5 | 139.0 | 139.2 | 140.7 | 140.4 | 140.5 |
| Leather and products 31 | . 21 | 69.1 | 70.2 | 69.5 | 68.7 | 68.3 | 67.3 | 66.4 | 71.4 | 70.4 | 69.7 | 68.7 | 67.6 |
| Mining | 5.41 | 97.8 | 98.5 | 98.3 | 99.3 | 99.8 | 100.2 | 98.1 | 100.6 | 100.4 | 101.0 | 100.1 | 99.0 |
| Metal mining 10 | . 35 | 96.2 | 93.0 | 91.4 | 92.5 | 95.4 | 96.7 | 94.2 | 91.7 | 93.8 | 93.0 | 95.9 | 97.7 |
| Coal mining 12 | . 83 | 110.0 | 110.7 | 109.4 | 108.8 | 110.0 | 108.5 | 102.5 | 111.9 | 111.6 | 111.0 | 109.5 | 104.8 |
| Oil and gas extraction 13 | 3.60 | 92.3 | 93.2 | 93.0 | 94.0 | 94.2 | 95.3 | 91.8 | 92.8 | 93.0 | 93.9 | 94.4 | 96.0 |
| Stone and earth minerals 14 | . 63 | 120.5 | 123.0 | 125.5 | 128.2 | 128.5 | 125.5 | 140.1 | 148.1 | 143.5 | 143.3 | 129.7 | 110.3 |
| Utilities | 6.31 | 119.8 | 117.8 | 117.7 | 118.6 | 115.5 |  | 126.1 | 122.7 | 111.6 | 106.2 |  |  |
| Electric 491,3pt | 5.31 | 122.6 | 120.0 | 119.8 | 121.0 | 118.8 | 122.7 | 140.2 | 136.3 | 123.0 | 113.0 | 109.9 | 122.2 |
| Gas 492,3pt | 1.00 | 107.4 | 108.2 | 108.5 | 107.9 | 100.5 | 104.9 | 61.4 | 60.1 | 59.1 | 75.5 | 113.2 | 161.4 |
| SPECIAL AGGREGATES |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Computers, communications eq. and semiconductors ${ }^{2}$ | 8.08 | 812.1 | 830.4 | 843.0 | 864.0 | 885.9 | 908.1 | 779.7 | 835.9 | 915.0 | 893.1 | 933.6 | 971.5 |
| Manufacturing excluding: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Motor vehicles and parts | 83.04 | 141.4 | 142.0 | 142.3 | 143.7 | 144.6 | 145.2 | 141.2 | 146.1 | 147.9 | 147.5 | 144.5 | 142.8 |
| Computer and office equipment | 86.05 | 134.8 | 135.1 | 135.3 | 136.5 | 137.2 | 137.4 | 131.9 | 139.2 | 140.6 | 140.6 | 136.9 | 134.1 |
| Computers and semiconductors ${ }^{2}$ <br> Computers, communications eq. and | 82.55 | 121.3 | 121.6 | 121.7 | 122.7 | 123.1 | 123.1 | 118.6 | 125.0 | 125.2 | 126.0 | 122.0 | 118.8 |
| semiconductors ${ }^{2}$ | 80.21 | 118.9 | 119.1 | 119.3 | 120.2 | 120.6 | 120.5 | 116.2 | 122.5 | 122.8 | 123.5 | 119.4 | 116.0 |
| Memo: Motor vehicle assemblies ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total |  | 12.6 | 13.7 | 13.0 | 13.3 | 13.4 | 12.9 | 7.8 | 14.2 | 13.7 | 14.4 | 13.2 | 11.6 |
| Autos |  | 5.5 | 5.7 | 5.8 | 5.7 | 5.9 | 5.6 | 3.4 | 6.0 | 6.0 | 6.2 | 5.8 | 5.0 |
| Trucks |  | 7.2 | 7.9 | 7.3 | 7.6 | 7.5 | 7.3 | 4.4 | 8.2 | 7.7 | 8.2 | 7.4 | 6.6 |
| Light |  | 6.7 | 7.5 | 6.9 | 7.1 | 7.1 | 6.9 | 4.0 | 7.8 | 7.3 | 7.7 | 6.9 | 6.2 |
| Heavy and medium |  | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |

1. The IP proportion data are estimates of the industries' relative contributions to overall IP growth in the following year.
2. Semiconductors include related electronic components.
3. Semiconductors include related ele

Note-Primary processing manufacturing includes textile mill products, paper and products, industrial chemicals, synthetic materials, and fertilizers, petroleum products, rubber and plastics products, lumber and products, primary metals, fabricated metals, and stone, clay, and glass products. Advanced processing manufacturing includes foods, tobacco products, apparel products, printing and publishing, chemical products and other agricultural chemicals, leather and products, furniture and fixtures, industrial machinery and equipment, electrical machinery, transportation equipment, instruments, and
miscellaneous manufactures.

Table 2B
INDUSTRIAL PRODUCTION: INDUSTRY GROUPS

Percent change

| Item SIC | $\begin{gathered} 1998 \text { Q4 } \\ \text { to } \\ 1999 \text { Q4 } \\ \hline \end{gathered}$ | Seasonally adjusted annual rate |  |  |  | Seasonally adjusted |  |  |  | Not seasonally adjusted |  |  |  | $\begin{gathered} \text { Dec. } 98 \\ \text { to } \\ \text { Dec. } 99 \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{array}{r} 1999 \\ \text { Q1 } \\ \hline \end{array}$ | Q2 | Q3 ${ }^{\text {r }}$ | Q4p | $\begin{gathered} 1999 \\ \text { Sept. }{ }^{r} \\ \hline \end{gathered}$ | Oct. ${ }^{\text {r }}$ | Nov. ${ }^{\text {r }}$ | Dec.p | $\begin{array}{r} 1999 \\ \text { Sept. }{ }^{r} \\ \hline \end{array}$ | Oct. ${ }^{\text {r }}$ | Nov. ${ }^{\text {r }}$ | Dec.p |  |
| Total index | 4.5 | 2.0 | 4.7 | 4.8 | 6.6 | . 2 | 1.0 | . 4 | . 4 | . 5 | . 0 | -2.1 | -. 9 | 5.0 |
| Manufacturing | 4.8 | 2.5 | 4.9 | 4.7 | 7.2 | . 3 | 1.0 | . 6 | . 2 | 1.2 | . 3 | -2.5 | -2.0 | 5.1 |
| Primary processing | 3.4 | 3.6 | . 9 | 3.1 | 5.8 | . 2 | . 8 | . 6 | . 3 | . 2 | 1.3 | -1.6 | -1.9 | 3.1 |
| Advanced processing | 5.4 | 2.0 | 6.6 | 5.4 | 7.9 | . 3 | 1.1 | . 6 | . 2 | 1.7 | -. 2 | -2.9 | -2.1 | 5.9 |
| Durable | 6.9 | 3.1 | 9.3 | 8.7 | 6.8 | . 3 | . 8 | . 7 | . 1 | 2.1 | . 4 | -1.5 | -1.7 | 7.0 |
| Lumber and products 24 | . 2 | 5.1 | 1.0 | -6.6 | 1.7 | -. 4 | . 6 | . 3 | . 6 | -1.1 | 1.9 | -4.4 | -5.2 | -. 8 |
| Furniture and fixtures 25 | 3.5 | 2.0 | -. 5 | 8.2 | 4.3 | 1.2 | -. 2 | . 3 | . 5 | . 2 | -3.1 | -1.7 | -. 5 | 4.3 |
| Stone, clay, and glass products 32 | 1.4 | 6.1 | -10.8 | 4.3 | 7.2 | -. 5 | 1.5 | . 5 | . 0 | -. 7 | 1.5 | -2.7 | -4.0 | . 2 |
| Primary metals 33 | 6.9 | 1.6 | 9.2 | 12.0 | 5.2 | -1.0 | . 0 | 2.2 | . 1 | 1.5 | . 0 | .7 | -2.5 | 7.2 |
| Iron and steel 331,2 | 11.3 | 7.0 | 16.1 | 18.3 | 4.5 | -1.4 | -1.2 | 4.4 | -. 2 | 1.6 | -. 4 | . 7 | -2.4 | 11.3 |
| Raw steel | 17.6 | 10.0 | 12.4 | 10.0 | 40.5 | -3.0 | 8.4 | 1.8 | -. 3 | -. 6 | 7.0 | 1.0 | -1.5 | 20.3 |
| Nonferrous 333-6,9 | 2.1 | -4.1 | 1.6 | 5.1 | 6.0 | -. 6 | 1.4 | -. 3 | . 4 | 1.4 | . 4 | . 6 | -2.6 | 2.7 |
| Fabricated metal products 34 | . 7 | -. 6 | -2.5 | 2.1 | 4.0 | -. 1 | . 5 | . 8 | . 1 | . 1 | . 8 | -. 8 | . 2 | . 3 |
| Industrial machinery <br> and equipment | 11.5 | 10.8 | 12.5 | 8.0 | 14.6 | 1.8 | 1.5 | . 6 | . 5 | 3.6 | 1.8 | -1.4 | -1.0 | 11.5 |
| Computer and office equip. 357 | 52.4 | 59.1 | 59.0 | 47.0 | 45.1 | 3.9 | 3.4 | 2.2 | 1.8 | 7.4 | 5.9 | 1.7 | -2.6 | 50.8 |
| Electrical machinery 36 | 22.4 | 9.4 | 32.2 | 31.1 | 18.2 | . 2 | 2.2 | 1.7 | 1.8 | 7.5 | -4.1 | 2.9 | 3.9 | 23.4 |
| Semiconductors and related electronic components 3672-9 | 41.4 | 15.6 | 61.2 | 53.0 | 40.4 | 1.6 | 3.5 | 4.0 | 3.2 | 19.7 | -10.7 | 8.2 | 9.6 | 43.6 |
| Transportation equipment 37 | -3.5 | -7.7 | -. 2 | . 6 | -6.4 | . 2 | -. 8 | -. 3 | -2.3 | -. 1 | 4.0 | -6.4 | -9.1 | -4.0 |
| Motor vehicles and parts 371 | 4.0 | -3.4 | 8.9 | 7.4 | 3.6 | 2.2 | . 1 | . 5 | -2.8 | 1.0 | 8.2 | -9.7 | -14.6 | 3.3 |
| Autos and light trucks | . 6 | -8.3 | 10.8 | 5.8 | -4.8 | -5.0 | 1.0 | . 2 | -4.1 | -3.7 | 10.0 | -12.9 | -15.3 | -. 9 |
| Aerospace and misc. 372-6,9 | -13.2 | -13.0 | -11.5 | -8.3 | -19.7 | -2.6 | -2.1 | -1.5 | -1.5 | -1.7 | -2.4 | -. 8 | -. 7 | -13.6 |
| Instruments 38 | 4.8 | -. 5 | 10.9 | 3.8 | 5.5 | -. 5 | 1.2 | . 4 | . 1 | -. 4 | -. 6 | -1.4 | . 3 | 5.6 |
| Miscellaneous 39 | 4.0 | 5.1 | 10.2 | 1.4 | -. 2 | -. 1 | -. 1 | -. 2 | . 7 | . 5 | 2.1 | -. 8 | -. 8 | 4.0 |
| Nondurable | 2.1 | 1.8 | -. 8 | -. 4 | 7.8 | . 3 | 1.2 | . 5 | . 3 | . 1 | . 0 | -3.8 | -2.5 | 2.6 |
| Foods 20 | . 8 | 3.2 | -2.5 | -4.6 | 7.6 | . 6 | 1.0 | . 6 | . 1 | 1.2 | -. 6 | -4.4 | -3.0 | 1.0 |
| Tobacco products 21 | -. 1 | 2.3 | -7.2 | -3.2 | 8.5 | -4.1 | 2.9 | 2.7 | 1.9 | -8.5 | 7.2 | -7.7 | -20.7 | 7.5 |
| Textile mill products 22 | 5.6 | 11.2 | 5.6 | 1.9 | 4.1 | -. 8 | 2.9 | -1.5 | -. 4 | -1.8 | 5.2 | -8.7 | -9.3 | 5.1 |
| Apparel products 23 | -4.5 | -6.9 | -2.9 | -8.9 | . 9 | -. 2 | . 7 | -. 1 | . 0 | -. 4 | -. 3 | -1.4 | -. 6 | -4.0 |
| Paper and products 26 | 3.3 | 4.8 | -2.5 | 3.1 | 8.1 | 1.2 | .7 | . 4 | -. 1 | -. 5 | 2.4 | -2.7 | -1.8 | 3.0 |
| Printing and publishing 27 | . 9 | -4.0 | -. 6 | -1.0 | 9.8 | 1.0 | 1.7 | -. 4 | . 0 | 1.7 | . 3 | -3.8 | -1.9 | . 7 |
| Chemicals and products 28 | 4.5 | 2.9 | 1.4 | 2.2 | 11.9 | -. 3 | 1.4 | 1.4 | . 4 | . 5 | -2.3 | -4.0 | -. 2 | 5.6 |
| Petroleum products 29 | -. 5 | 8.4 | -7.7 | 1.9 | -3.8 | . 4 | . 0 | -1.8 | . 8 | -1.2 | -2.4 | -1.8 | -1.1 | -1.2 |
| Rubber and plastics products 30 | 3.6 | 2.7 | 3.2 | 4.9 | 3.8 | 1.2 | -. 3 | . 4 | . 9 | . 2 | 1.1 | -. 2 | . 0 | 3.7 |
| Leather and products 31 | -8.5 | -14.6 | -3.4 | -7.4 | -8.2 | -1.0 | -1.2 | -. 5 | -1.4 | -1.4 | -1.0 | -1.5 | -1.5 | -8.0 |
| Mining | -. 6 | -10.5 | -2.2 | 4.8 | 6.5 | -. 2 | 1.0 | . 5 | . 4 | -. 2 | . 5 | -. 8 | -1.1 | 2.2 |
| Metal mining $10$ | -11.7 | -22.3 | -4.1 | -23.0 | 5.8 | -1.7 | 1.2 | 3.1 | 1.4 | 2.3 | -. 8 | 3.1 | 1.8 | -9.3 |
| Coal mining 12 | -1.5 | -13.7 | -. 1 | 12.7 | -3.3 | -1.1 | -. 6 | 1.1 | -1.4 | -. 2 | -. 5 | -1.4 | -4.3 | -. 6 |
| Oil and gas extraction 13 | . 3 | -11.7 | . 0 | 6.7 | 7.4 | -. 2 | 1.1 | . 2 | 1.2 | . 2 | 1.0 | . 6 | 1.7 | 4.1 |
| Stone and earth minerals 14 | 1.8 | 8.1 | -13.9 | . 0 | 15.2 | 2.0 | 2.2 | . 2 | -2.3 | -3.1 | -. 1 | -9.5 | -15.0 | 1.2 |
| Utilities | 4.3 | 5.9 |  | 6.6 |  |  | . 7 | -2.6 | 3.5 | -9.0 | -4.9 | 3.6 | 16.7 | 6.2 |
| Electric 491,3pt | 3.7 | . 3 | 8.1 | 6.6 | . 2 | -. 1 | 1.0 | -1.8 | 3.3 | -9.7 | -8.1 | -2.8 | 11.2 | 5.9 |
| Gas 492,3pt | 7.7 | 42.1 | 1.7 | 6.5 | -12.6 | . 3 | -. 5 | -6.9 | 4.4 | -1.5 | 27.7 | 49.9 | 42.6 | 7.6 |
| SPECIAL AGGREGATES |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Computers, communications eq. and semiconductors ${ }^{1}$ | 37.3 | 23.7 | 51.7 | 44.9 | 30.8 | 1.5 | 2.5 | 2.5 | 2.5 | 9.5 | -2.4 | 4.5 | 4.1 | 38.4 |
| Manufacturing excluding: Motor vehicles and parts | 4.9 | 2.9 | 4.6 | 4.5 | 7.5 | . 2 | 1.0 | . 6 | . 4 | 1.2 | -. 3 | -2.0 | -1.2 | 5.2 |
| Computer and office equipment | 3.5 | 1.1 | 3.3 | 3.4 | 6.1 | . 2 | . 9 | . 5 | . 1 | 1.0 | . 0 | -2.7 | -2.0 | 3.7 |
| Computers and semiconductors ${ }^{1}$ | 1.8 | . 4 | . 8 | 1.4 | 4.7 | . 1 | . 8 | . 4 | . 0 | . 2 | . 6 | -3.2 | -2.6 | 2.0 |
| Computers, communications eq. and semiconductors ${ }^{1}$ | 1.4 | . 3 | . 0 | . 6 | 4.7 | . 1 | . 8 | . 4 | -. 1 | . 3 | . 6 | -3.4 | -2.8 | 1.6 |

1. Semiconductors include related electronic components.

Note-Percent changes shown in the first and last columns are based on seasonally adjusted data.

Table 3
CAPACITY UTILIZATION: MANUFACTURING, MINING, AND UTILITIES

Percent of capacity, seasonally adjusted

| Item SIC | $\begin{gathered} 1998 \\ \text { Proportion } \\ \hline \end{gathered}$ | $\begin{array}{r} \hline 1967- \\ 1998 \\ \text { Ave. } \\ \hline \end{array}$ | $\begin{gathered} 1978- \\ 1980 \\ \text { High } \\ \hline \end{gathered}$ | $\begin{array}{r} 1982 \\ \text { Low } \\ \hline \end{array}$ | $\begin{array}{r} \hline 1988- \\ 1989 \\ \text { High } \\ \hline \end{array}$ | $\begin{array}{r} \hline 1990- \\ 1991 \\ \text { Low } \\ \hline \end{array}$ | $\begin{gathered} 1994- \\ 1995 \\ \text { High } \\ \hline \end{gathered}$ | $\begin{gathered} 1998 \\ \text { Dec. } \end{gathered}$ | $\begin{array}{r} 1999 \\ \text { July } \\ \hline \end{array}$ | Aug. | Sept. ${ }^{\text {r }}$ | Oct. ${ }^{\text {r }}$ | Nov. ${ }^{\text {r }}$ | Dec. ${ }^{\text {p }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total industry | 100.00 | 82.1 | 87.3 | 71.1 | 85.4 | 78.1 | 84.4 | 80.6 | 80.7 | 80.7 | 80.6 | 81.2 | 81.2 | 81.3 |
| Manufacturing | 89.42 | 81.1 | 86.9 | 69.0 | 85.7 | 76.6 | 84.0 | 79.9 | 79.7 | 79.7 | 79.7 | 80.2 | 80.4 | 80.3 |
| Primary processing | 26.28 | 82.4 | 88.1 | 66.2 | 88.9 | 77.7 | 89.3 | 83.1 | 82.9 | 82.8 | 82.8 | 83.3 | 83.7 | 83.7 |
| Advanced processing | 63.14 | 80.5 | 86.7 | 70.4 | 84.2 | 76.1 | 81.8 | 78.8 | 78.6 | 78.8 | 78.7 | 79.2 | 79.4 | 79.1 |
| Durable | 50.65 | 79.5 | 87.7 | 63.9 | 84.6 | 73.1 | 83.3 | 80.1 | 80.3 | 80.2 | 80.0 | 80.3 | 80.4 | 80.0 |
| Lumber and products 24 | 2.10 | 82.6 | 87.9 | 60.8 | 93.6 | 75.5 | 87.8 | 84.8 | 82.7 | 81.6 | 81.0 | 81.4 | 81.4 | 81.7 |
| Furniture and fixtures 25 | 1.46 | 81.2 | 85.5 | 68.9 | 86.6 | 72.5 | 83.6 | 78.2 | 78.8 | 79.1 | 79.9 | 79.6 | 79.7 | 80.0 |
| Stone, clay, and glass products 32 | 2.34 | 78.5 | 88.0 | 64.3 | 83.5 | 69.7 | 82.3 | 86.4 | 83.1 | 83.4 | 82.7 | 83.8 | 83.9 | 83.6 |
| Primary metals 33 | 3.21 | 81.2 | 94.2 | 45.1 | 92.7 | 73.7 | 94.6 | 83.4 | 85.9 | 86.8 | 85.8 | 85.7 | 87.4 | 87.4 |
| Iron and steel 331,2 | 1.79 | 81.2 | 95.8 | 37.0 | 95.2 | 71.8 | 97.0 | 79.0 | 83.7 | 84.4 | 83.0 | 81.8 | 85.1 | 84.8 |
| Raw steel | . 09 | 80.9 | 95.8 | 35.2 | 92.7 | 71.5 | 98.8 | 72.5 | 77.7 | 81.0 | 78.5 | 85.0 | 86.5 | 86.2 |
| Nonferrous 333-6,9 | 1.42 | 81.5 | 91.1 | 60.1 | 89.3 | 74.2 | 92.5 | 88.9 | 88.6 | 89.9 | 89.3 | 90.6 | 90.3 | 90.6 |
| Primary copper 3331 | . 04 | 75.5 | 81.5 | 42.1 | 86.3 | 73.5 | 101.5 | 82.7 | 72.5 | 74.7 | 72.1 | 76.7 | 75.7 |  |
| Primary aluminum 3334 | . 09 | 88.4 | 97.6 | 58.6 | 100.4 | 97.3 | 83.8 | 88.7 | 89.5 | 90.9 | 90.4 | 90.6 | 91.5 |  |
| Fabricated metal products 34 Industrial machinery | 5.93 | 78.0 | 83.9 | 63.7 | 82.0 | 71.9 | 85.4 | 75.9 | 74.9 | 74.9 | 74.9 | 75.3 | 75.9 | 76.1 |
| and equipment 35 | 9.75 | 81.4 | 93.2 | 64.0 | 85.4 | 72.3 | 88.0 | 83.5 | 81.5 | 81.1 | 81.6 | 81.8 | 81.3 | 80.7 |
| Computer and office equip. 357 | 2.36 | 81.2 | 92.6 | 65.5 | 86.9 | 66.9 | 88.4 | 84.8 | 82.7 | 83.0 | 82.9 | 82.3 | 80.8 | 79.0 |
| Electrical machinery 36 | 9.83 | 81.1 | 89.4 | 71.6 | 84.0 | 75.0 | 89.5 | 77.2 | 80.9 | 80.5 | 79.8 | 80.7 | 81.2 | 81.8 |
| Semiconductors and related electronic components 3672-9 | 4.33 | 79.9 | 91.6 | 75.7 | 81.1 | 75.6 | 92.8 | 77.4 | 82.3 | 81.7 | 81.5 | 82.8 | 84.5 | 85.6 |
| Transportation equipment 37 | 9.72 | 75.9 | 84.8 | 57.2 | 85.8 | 68.5 | 77.1 | 79.7 | 79.1 | 79.1 | 79.3 | 78.7 | 78.5 | 76.7 |
| Motor vehicles and parts 371 | 5.56 | 76.7 | 95.0 | 45.5 | 89.1 | 55.9 | 86.1 | 79.6 | 82.3 | 82.3 | 84.1 | 84.1 | 84.6 | 82.1 |
| Autos and light trucks ${ }^{1}$ | 2.66 |  | 94.6 | 40.6 | 92.3 | 53.3 | 87.5 | 86.0 | 86.6 | 93.8 | 89.1 | 90.1 | 90.3 | 86.6 |
| Aerospace and misc. 372-6,9 | 4.16 | 75.3 | 81.9 | 66.6 | 87.3 | 79.2 | 69.2 | 79.9 | 74.9 | 75.0 | 73.1 | 71.6 | 70.6 | 69.6 |
| Instruments 38 | 4.94 | 81.6 | 92.7 | 78.4 | 81.4 | 77.2 | 77.7 | 79.8 | 81.1 | 81.1 | 80.5 | 81.2 | 81.2 | 81.0 |
| Miscellaneous 39 | 1.38 | 75.7 | 79.4 | 65.4 | 79.0 | 71.7 | 79.5 | 79.4 | 81.8 | 81.7 | 81.5 | 81.4 | 81.2 | 81.7 |
| Nondurable | 38.78 | 83.4 | 87.5 | 76.4 | 87.3 | 80.7 | 84.9 | 80.1 | 79.4 | 79.7 | 79.9 | 80.7 | 81.0 | 81.2 |
| Foods 20 | 8.97 | 82.9 | 84.6 | 79.1 | 85.4 | 82.7 | 83.9 | 80.1 | 78.1 | 78.0 | 78.4 | 79.0 | 79.4 | 79.3 |
| Textile mill products 22 | 1.49 | 85.6 | 91.2 | 72.3 | 90.4 | 77.7 | 93.0 | 81.0 | 85.3 | 84.8 | 84.1 | 86.5 | 85.2 | 84.8 |
| Apparel products 23 | 1.92 | 80.9 | 87.5 | 77.5 | 85.1 | 75.5 | 85.9 | 70.6 | 68.3 | 68.0 | 67.9 | 68.4 | 68.4 | 68.4 |
| Paper and products 26 | 3.22 | 89.2 | 96.1 | 80.6 | 93.5 | 85.0 | 93.1 | 86.3 | 85.2 | 85.6 | 86.4 | 86.9 | 87.1 | 86.8 |
| Pulp and paper 261-3 | 1.25 | 92.4 | 98.3 | 82.0 | 98.0 | 89.9 | 96.9 | 90.7 | 91.7 | 92.3 | 93.1 | 93.5 | 94.1 |  |
| Printing and publishing 27 | 6.72 | 85.7 | 93.9 | 82.0 | 91.7 | 79.6 | 82.2 | 81.2 | 79.4 | 80.0 | 80.8 | 82.2 | 81.9 | 82.0 |
| Chemicals and products 28 | 10.25 | 79.5 | 84.6 | 69.9 | 86.2 | 79.3 | 80.8 | 76.6 | 76.9 | 78.1 | 77.8 | 78.9 | 79.9 | 80.2 |
| Plastics materials 2821 | . 62 | 86.7 | 90.9 | 63.4 | 97.0 | 74.8 | 102.5 | 91.8 | 90.9 | 87.8 | 90.5 | 94.0 |  |  |
| Synthetic fibers 2823,4 | . 32 | 84.8 | 98.6 | 64.4 | 99.7 | 77.6 | 89.8 | 73.7 | 81.0 | 82.0 | 77.3 | 79.7 | 86.8 |  |
| Petroleum products 29 | 1.09 | 86.8 | 90.0 | 66.8 | 88.5 | 85.1 | 93.4 | 94.6 | 93.9 | 93.0 | 93.3 | 93.2 | 91.5 | 92.1 |
| Rubber and plastics products 30 | 3.61 | 84.6 | 91.2 | 72.7 | 89.6 | 77.4 | 91.3 | 85.3 | 84.1 | 83.6 | 84.2 | 83.5 | 83.5 | 83.9 |
| Leather and products 31 | . 23 | 81.1 | 92.1 | 75.8 | 83.3 | 76.1 | 85.9 | 69.8 | 67.8 | 69.2 | 68.8 | 68.3 | 68.3 | 67.6 |
| Mining | 4.95 | 87.5 | 96.0 | 80.3 | 88.0 | 87.0 | 88.4 | 81.4 | 81.3 | 81.9 | 81.8 | 82.6 | 83.1 | 83.4 |
| Metal mining 10 | . 33 | 79.5 | 87.9 | 44.4 | 89.4 | 79.9 | 89.7 | 87.1 | 79.2 | 76.8 | 75.5 | 76.6 | 79.0 | 80.3 |
| Coal mining 12 | . 79 | 86.7 | 99.4 | 76.6 | 91.5 | 83.4 | 88.0 | 86.4 | 86.8 | 87.3 | 86.3 | 85.8 | 86.7 | 85.5 |
| Oil and gas extraction 13 | 3.23 | 88.5 | 97.3 | 82.3 | 88.2 | 88.7 | 89.4 | 79.2 | 80.2 | 81.0 | 80.9 | 81.8 | 82.0 | 83.0 |
| Oil and gas well drilling 138 | . 83 | 74.2 | 104.3 | 50.9 | 69.3 | 60.0 | 74.1 | 58.7 | 57.9 | 61.0 | 63.7 | 66.4 | 69.9 | 71.4 |
| Stone and earth minerals 14 | . 60 | 84.8 | 92.7 | 63.3 | 89.0 | 79.4 | 91.9 | 84.9 | 81.6 | 83.2 | 84.8 | 86.6 | 86.7 | 84.5 |
| Utilities | 5.63 | 87.4 | 89.1 | 75.9 | 92.6 | 83.4 | 93.1 | 88.9 | 93.9 | 92.2 | 92.0 | 92.6 | 90.1 | 93.1 |
| Electric 491,3pt | 4.55 | 89.3 | 88.2 | 78.9 | 95.0 | 87.1 | 95.9 | 93.1 | 97.7 | 95.5 | 95.2 | 96.1 | 94.2 | 97.2 |
| Gas 492,3pt | 1.08 | 82.1 | 93.7 | 69.1 | 85.0 | 67.1 | 87.8 | 71.2 | 77.9 | 78.4 | 78.6 | 78.1 | 72.7 | 75.8 |
| SPECIAL AGGREGATES |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Computers, communications eq. and semiconductors ${ }^{2}$ <br> Manufacturing ex. computers, communications eq., and semiconductors ${ }^{2}$ | 9.18 | 80.3 | 90.9 | 77.3 | 81.9 | 72.4 | 87.6 | 78.5 | 81.0 | 81.0 | 80.3 | 80.4 | 80.4 | 80.5 |
|  | 80.24 | 81.2 | 87.0 | 68.0 | 86.1 | 76.8 | 83.8 | 80.3 | 79.8 | 79.9 | 79.9 | 80.5 | 80.7 | 80.6 |

## 1. Series begins in 1977

2. Semiconductors include related electronic components.

Note-Primary processing manufacturing includes textile mill products, paper and products, industrial chemicals, synthetic materials, and fertilizers, petroleum products, rubber and plastic products, lumber and products, primary metals, fabricated metals, and stone, clay, and glass products.
Advanced processing manufacturing includes foods, tobacco products, apparel products, printing and publishing, chemical products and other agricultural chemicals, leather and products, furniture and fixtures, industrial machinery and equipment, electrical machinery, transportation equipment, instruments, and miscellaneous manufactures.

Table 4
INDUSTRIAL CAPACITY: MANUFACTURING, MINING, AND UTILITIES

| Item SIC | Percent change |  |  |  |  |  |  |  | Capacity indexes Percent of 1992 output |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual rate |  |  | Fourth quarter to fourth quarter |  |  |  |  |  |  |  |  |  |  |  |
|  | $\begin{gathered} 1967 \\ 1999 \\ \text { Ave. } \end{gathered}$ | $\begin{array}{r} 1967- \\ 1975 \\ \text { Ave. } \end{array}$ | $\begin{array}{r} 1975- \\ 1999 \\ \text { Ave. } \\ \hline \end{array}$ | 1995 | 1996 | 1997 | 1998 | 1999p | $\begin{aligned} & 1998 \\ & \text { Dec. } \\ & \hline \end{aligned}$ | $\begin{array}{r} 1999 \\ \text { July } \\ \hline \end{array}$ | Aug. | Sept. | Oct. | Nov. | Dec. |
| Total industry | 3.2 | 3.8 | 2.9 | 5.0 | 5.4 | 5.4 | 6.3 | 4.2 | 166.0 | 170.2 | 170.7 | 171.2 | 171.7 | 172.3 | 172.8 |
| Manufacturing | 3.5 | 4.0 | 3.3 | 5.6 | 6.1 | 6.1 | 7.0 | 4.7 | 173.3 | 178.2 | 178.7 | 179.3 | 179.9 | 180.5 | 181.2 |
| Primary processing | 2.4 | 4.1 | 1.7 | 3.1 | 3.5 | 3.9 | 3.8 | 2.4 | 146.7 | 148.8 | 149.0 | 149.3 | 149.6 | 149.8 | 150.1 |
| Advanced processing | 4.1 | 4.0 | 4.1 | 6.9 | 7.2 | 7.0 | 8.5 | 5.6 | 186.7 | 193.0 | 193.7 | 194.5 | 195.3 | 196.1 | 196.9 |
| Durable | 4.2 | 3.7 | 4.3 | 8.8 | 9.3 | 8.7 | 10.7 | 7.3 | 207.5 | 216.5 | 217.6 | 218.7 | 219.8 | 221.0 | 222.2 |
| Lumber and products 24 | 2.0 | 2.9 | 1.7 | 3.3 | 3.6 | 3.4 | 3.1 | 2.9 | 144.6 | 147.0 | 147.4 | 147.7 | 148.1 | 148.4 | 148.8 |
| Furniture and fixtures 25 | 3.1 | 4.5 | 2.6 | 4.4 | 4.3 | 3.8 | 3.2 | 2.0 | 157.6 | 159.5 | 159.7 | 160.0 | 160.2 | 160.4 | 160.7 |
| Stone, clay, and glass products 32 | 1.6 | 2.5 | 1.2 | 2.0 | 3.3 | 3.1 | 2.8 | 3.5 | 152.6 | 155.7 | 156.1 | 156.6 | 157.1 | 157.6 | 158.0 |
| Primary metals 33 | . 6 | 1.7 | . 1 | 2.5 | 5.7 | 3.5 | 3.5 | 2.5 | 146.9 | 149.0 | 149.3 | 149.6 | 149.8 | 150.1 | 150.3 |
| Iron and steel 331,2 | -. 1 | . 7 | -. 3 | 1.9 | 5.2 | 3.8 | 5.2 | 3.9 | 147.5 | 150.8 | 151.3 | 151.7 | 152.1 | 152.5 | 153.0 |
| Raw steel | -. 5 | . 3 | -. 8 | 3.2 | 2.7 | 6.0 | 6.2 | 1.5 | 141.6 | 143.0 | 143.1 | 143.2 | 143.3 | 143.4 | 143.5 |
| Nonferrous 333-6,9 | 1.7 | 3.8 | 1.0 | 3.2 | 6.4 | 3.1 | 1.5 | . 8 | 146.2 | 146.9 | 147.0 | 147.1 | 147.1 | 147.2 | 147.3 |
| Primary copper 3331 | . 1 | 1.8 | -. 6 | 1.6 | -5.1 | . 7 | -. 5 | -2.2 | 122.6 | 121.0 | 120.8 | 120.5 | 120.3 | 120.1 | 119.8 |
| Primary aluminum 3334 | 1.2 | 5.2 | -. 3 | . 0 | . 4 | . 0 | . 0 | . 0 | 104.2 | 104.2 | 104.2 | 104.2 | 104.2 | 104.2 | 104.2 |
| Fabricated metal products | 2.0 | 3.1 | 1.7 | 6.0 | 5.1 | 6.1 | 5.8 | . 3 | 171.1 | 171.6 | 171.6 | 171.5 | 171.4 | 171.3 | 171.2 |
| nustrial machinery <br> and equipment | 6.2 | 4.7 | 6.8 | 10.0 | 12.3 | 14.2 | 15.8 | 15.3 | 259.5 | 282.1 | 285.3 | 288.6 | 292.1 | 295.7 | 299.5 |
| Computer and office equip. 357 | 23.2 | 12.0 | 27.6 | 30.3 | 42.5 | 50.9 | 58.8 | 61.9 | 981.3 | 1300.0 | 1353.2 | 1408.5 | 1466.3 | 1526.5 | 1589.0 |
| Electrical machinery 36 | 9.5 | 5.9 | 10.8 | 29.8 | 30.9 | 22.9 | 30.5 | 17.3 | 446.8 | 493.3 | 498.4 | 503.6 | 509.0 | 514.5 | 520.3 |
| Semiconductors and related <br> electronic components 3672-9 | 20.9 | 13.1 | 24.0 | 63.0 | 59.1 | 43.0 | 61.1 | 31.6 | 1242.9 | 1472.9 | 1499.3 | 1526.3 | 1554.2 | 1583.4 | 1614.1 |
| Transportation equipment 37 | 2.5 | 3.0 | 2.3 | 2.2 | . 5 | 2.4 | 2.7 | -. 1 | 155.5 | 155.4 | 155.3 | 155.2 | 155.2 | 155.1 | 155.1 |
| Motor vehicles and parts 371 | 3.2 | 4.4 | 2.7 | 5.3 | 1.5 | 3.6 | 2.8 | . 2 | 184.7 | 184.9 | 184.9 | 184.9 | 185.0 | 185.0 | 185.1 |
| Autos and light trucks ${ }^{1}$ |  |  |  | . 2 | -4.5 | 4.2 | 2.6 | -1.7 | 158.6 | 156.8 | 156.6 | 156.4 | 156.2 | 156.1 | 156.0 |
| Aerospace and misc. 372-6,9 | 1.5 | 1.1 | 1.6 | -1.4 | -1.0 | . 7 | 2.7 | -. 7 | 126.7 | 126.4 | 126.2 | 126.1 | 125.9 | 125.8 | 125.6 |
| Instruments 38 | 4.6 | 7.6 | 3.5 | 2.5 | . 3 | . 8 | 2.2 | 4.0 | 141.4 | 144.6 | 145.1 | 145.6 | 146.1 | 146.6 | 147.1 |
| Miscellaneous 39 | 2.1 | 4.4 | 1.3 | 2.6 | 2.4 | . 5 | 1.4 | 1.1 | 152.1 | 153.2 | 153.3 | 153.4 | 153.5 | 153.6 | 153.8 |
| Nondurable | 2.7 | 4.3 | 2.1 | 2.0 | 2.2 | 2.6 | 2.4 | 1.3 | 138.7 | 139.8 | 139.9 | 140.0 | 140.2 | 140.3 | 140.4 |
| Foods 20 | 2.3 | 3.0 | 2.1 | 2.4 | 2.2 | 2.3 | 2.2 | 1.9 | 137.7 | 139.3 | 139.5 | 139.8 | 140.0 | 140.2 | 140.4 |
| Textile mill products 22 | 2.1 | 4.4 | 1.2 | 2.6 | 1.9 | 2.1 | . 3 | . 3 | 131.4 | 131.6 | 131.6 | 131.7 | 131.7 | 131.8 | 131.8 |
| Apparel products 23 | 1.1 | 2.3 | . 7 | 1.6 | . 3 | . 6 | . 6 | -. 8 | 132.0 | 131.4 | 131.3 | 131.1 | 131.0 | 130.9 | 130.8 |
| Paper and products 26 | 2.8 | 3.9 | 2.4 | 3.0 | 1.4 | 3.3 | 3.1 | 2.4 | 133.2 | 135.1 | 135.3 | 135.6 | 135.9 | 136.1 | 136.4 |
| Pulp and paper 261-3 | 2.4 | 2.9 | 2.1 | 2.9 | 1.2 | 2.3 | 1.4 | 1.2 | 123.0 | 123.9 | 124.0 | 124.1 | 124.3 | 124.4 | 124.5 |
| Printing and publishing 27 | 2.6 | 3.0 | 2.4 | . 3 | . 7 | 1.9 | 1.6 | -. 2 | 129.7 | 129.6 | 129.5 | 129.5 | 129.4 | 129.4 | 129.3 |
| Chemicals and products 28 | 3.6 | 6.8 | 2.5 | 2.5 | 3.4 | 2.8 | 2.9 | 1.0 | 149.7 | 150.6 | 150.7 | 150.8 | 150.9 | 151.0 | 151.1 |
| Plastics materials 2821 | 6.1 | 12.7 | 3.7 | 3.0 | 3.3 | 1.7 | 3.7 | 3.7 | 135.0 | 138.0 | 138.4 | 138.8 | 139.2 | 139.6 | 140.0 |
| Synthetic fibers 2823,4 | 3.4 | 9.7 | 1.2 | -. 7 | -2.0 | 1.1 | . 5 | 1.6 | 118.3 | 119.3 | 119.5 | 119.7 | 119.9 | 120.1 | 120.3 |
| Petroleum products 29 | 1.6 | 4.2 | . 6 | -. 2 | 1.4 | 2.3 | 2.9 | 1.6 | 121.4 | 122.5 | 122.7 | 122.8 | 122.9 | 123.1 | 123.2 |
| Rubber and plastics products 30 | 5.4 | 8.4 | 4.4 | 4.1 | 4.2 | 5.3 | 5.1 | 5.4 | 159.1 | 164.0 | 164.7 | 165.5 | 166.2 | 166.9 | 167.7 |
| Leather and products 31 | -3.2 | -1.5 | -3.9 | -2.2 | -1.5 | -1.9 | -2.8 | -4.9 | 104.8 | 101.9 | 101.4 | 101.0 | 100.5 | 100.1 | 99.6 |
| Mining | . 2 | -. 1 | . 3 | -. 4 | . 4 | 1.6 | . 9 | -. 2 | 120.5 | 120.3 | 120.2 | 120.2 | 120.2 | 120.2 | 120.1 |
| Metal mining 10 | 1.2 | . 5 | 1.5 | . 7 | 1.6 | 3.2 | 1.1 | -1.5 | 122.4 | 121.4 | 121.2 | 121.0 | 120.8 | 120.7 | 120.5 |
| Coal mining 12 | 2.2 | 2.4 | 2.1 | . 3 | 1.8 | . 2 | . 4 | . 4 | 126.4 | 126.8 | 126.8 | 126.8 | 126.9 | 126.9 | 126.9 |
| Oil and gas extraction 13 | -. 4 | -1.0 | -. 2 | -1.0 | -. 3 | 1.2 | . 6 | -. 6 | 115.6 | 115.1 | 115.0 | 115.0 | 114.9 | 114.9 | 114.8 |
| Oil and gas well drilling 138 | . 6 | . 8 | . 5 | -1.6 | -1.2 | 1.0 | 1.9 | -3.1 | 179.1 | 176.0 | 175.4 | 174.8 | 174.2 | 173.6 | 173.1 |
| Stone and earth minerals 14 | 1.4 | 2.6 | 1.0 | 2.3 | 3.6 | 4.3 | 2.9 | 1.6 | 146.2 | 147.6 | 147.8 | 148.0 | 148.1 | 148.3 | 148.5 |
| Utilities | 2.6 | 6.1 | 1.4 | 1.7 | 1.8 | . 2 | . 7 | 1.4 | 126.6 | 127.6 | 127.8 | 127.9 | 128.1 | 128.2 | 128.4 |
| Electric 491,3pt | 3.6 | 7.8 | 2.1 | 2.3 | 1.9 | -. 2 | . 7 | 1.4 | 124.4 | 125.5 | 125.6 | 125.8 | 125.9 | 126.1 | 126.2 |
| Gas 492,3pt | . 4 | 2.3 | -. 3 | . 5 | 1.9 | 1.5 | 1.1 | 1.0 | 137.0 | 137.8 | 137.9 | 138.1 | 138.2 | 138.3 | 138.4 |
| SPECIAL AGGREGATES |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Computers, communications eq. and semiconductors ${ }^{2}$ <br> Manufacturing ex. computers, communications eq., and semiconductors ${ }^{2}$ | 17.2 2.4 | 9.5 3.7 | 20.2 1.9 | 42.0 2.7 | 45.6 2.6 | 37.9 3.0 | 48.2 3.0 | 35.7 1.3 | 835.9 147.8 | 1002.3 148.9 | 1025.8 149.1 | 1050.0 149.2 | 1075.2 149.3 | 1101.3 149.4 | 1128.6 149.6 |

[^1]1. Series begins in 1977.
2. Semiconductors include related electronic components.

Table 5A
INDUSTRIAL PRODUCTION, CAPACITY AND UTILIZATION FOR TOTAL INDUSTRY: HISTORICAL DATA

Seasonally adjusted


[^2]Table 5B
INDUSTRIAL PRODUCTION, CAPACITY AND UTILIZATION FOR MANUFACTURING: HISTORICAL DATA

Seasonally adjusted

| Year | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Q1 | Q2 | Q3 | Q4 | Annual |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Industrial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production, |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Percent <br> Change ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1987 | -. 8 | 1.6 | . 2 | . 5 | . 3 | 1.0 | . 7 | -. 2 | . 1 | 1.3 | . 5 | . 6 | 5.0 | 7.0 | 5.5 | 7.6 | 5.3 |
| 1988 | -. 2 | . 4 | -. 1 | 1.0 | -. 1 | . 0 | . 7 | . 3 | . 2 | . 2 | . 9 | . 6 | 2.3 | 4.1 | 3.7 | 5.2 | 4.7 |
| 1989 | . 9 | -1.2 | . 8 | . 1 | -. 7 | . 0 | -1.1 | . 3 | -. 3 | -. 6 | . 4 | . 1 | 4.3 | -. 7 | -4.5 | -1.4 | 1.9 |
| 1990 | -. 2 | . 9 | . 3 | -. 8 | . 4 | -. 1 | . 0 | . 3 | -. 1 | -. 6 | -1.3 | -. 6 | 2.9 | -. 1 | . 8 | -6.3 | -. 5 |
| 1991 | -. 9 | -. 7 | -1.1 | . 3 | . 7 | 1.4 | . 2 | . 2 | 1.1 | -. 1 | -. 2 | -. 5 | -9.7 | 1.2 | 7.8 | 1.7 | -2.4 |
| 1992 | . 2 | . 8 | . 9 | . 7 | . 4 | . 0 | . 7 | -. 2 | . 4 | . 5 | . 6 | -. 2 | 2.3 | 7.3 | 3.5 | 3.9 | 4.0 |
| 1993 | . 7 | . 2 | . 3 | . 5 | -. 4 | . 1 | . 1 | -. 4 | 1.3 | . 4 | . 5 | . 8 | 4.2 | 2.4 | . 8 | 7.1 | 3.7 |
| 1994 | . 0 | . 2 | 1.1 | . 8 | 1.0 | . 4 | . 5 | . 7 | . 3 | . 7 | . 8 | . 9 | 5.2 | 10.0 | 6.7 | 8.0 | 6.1 |
| 1995 | . 7 | -. 3 | . 3 | -. 2 | . 3 | . 6 | -. 6 | 1.1 | . 8 | -. 1 | . 1 | . 0 | 6.1 | 1.4 | 3.3 | 3.6 | 5.3 |
| 1996 | -. 3 | 1.1 | -. 4 | 1.4 | . 9 | . 8 | . 4 | . 7 | . 5 | -. 1 | . 8 | . 4 | 1.6 | 9.9 | 7.7 | 4.6 | 4.7 |
| 1997 | . 4 | 1.0 | . 5 | . 5 | . 5 | . 8 | . 4 | . 8 | . 6 | . 6 | . 6 | . 4 | 7.1 | 7.4 | 7.8 | 7.4 | 7.3 |
| 1998 | . 4 | -. 1 | . 2 | . 6 | . 5 | -. 8 | -. 1 | 2.0 | -. 1 | . 7 | . 0 | . 1 | 3.3 | 2.6 | 3.4 | 5.6 | 4.9 |
| 1999 | . 1 | . 5 | . 3 | . 3 | . 6 | . 3 | . 4 | . 4 | . 3 | 1.0 | . 6 | . 2 | 2.5 | 4.9 | 4.7 | 7.2 | 4.3 |
| Industrial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1987 | 89.6 | 91.0 | 91.2 | 91.6 | 91.9 | 92.8 | 93.4 | 93.3 | 93.4 | 94.6 | 95.1 | 95.6 | 90.6 | 92.1 | 93.4 | 95.1 | 92.8 |
| 1988 | 95.4 | 95.8 | 95.7 | 96.7 | 96.6 | 96.6 | 97.3 | 97.5 | 97.7 | 97.9 | 98.9 | 99.4 | 95.6 | 96.6 | 97.5 | 98.7 | 97.1 |
| 1989 | 100.3 | 99.1 | 99.9 | 100.0 | 99.4 | 99.4 | 98.3 | 98.7 | 98.4 | 97.8 | 98.2 | 98.3 | 99.8 | 99.6 | 98.5 | 98.1 | 99.0 |
| 1990 | 98.1 | 99.0 | 99.3 | 98.6 | 99.0 | 98.9 | 98.8 | 99.1 | 99.0 | 98.4 | 97.2 | 96.6 | 98.8 | 98.8 | 99.0 | 97.4 | 98.5 |
| 1991 | 95.8 | 95.1 | 94.1 | 94.4 | 95.0 | 96.3 | 96.6 | 96.8 | 97.8 | 97.8 | 97.6 | 97.1 | 95.0 | 95.2 | 97.0 | 97.5 | 96.2 |
| 1992 | 97.2 | 98.0 | 98.8 | 99.5 | 99.9 | 99.9 | 100.6 | 100.4 | 100.8 | 101.3 | 101.9 | 101.7 | 98.0 | 99.8 | 100.6 | 101.6 | 100.0 |
| 1993 | 102.4 | 102.6 | 102.9 | 103.5 | 103.1 | 103.2 | 103.3 | 102.9 | 104.2 | 104.7 | 105.1 | 106.0 | 102.7 | 103.3 | 103.5 | 105.3 | 103.7 |
| 1994 | 106.1 | 106.3 | 107.5 | 108.4 | 109.4 | 109.8 | 110.4 | 111.1 | 111.5 | 112.2 | 113.1 | 114.1 | 106.6 | 109.2 | 111.0 | 113.1 | 110.0 |
| 1995 | 114.9 | 114.6 | 115.0 | 114.8 | 115.1 | 115.7 | 115.0 | 116.3 | 117.2 | 117.1 | 117.2 | 117.3 | 114.8 | 115.2 | 116.2 | 117.2 | 115.8 |
| 1996 | 117.0 | 118.3 | 117.8 | 119.4 | 120.5 | 121.5 | 122.0 | 122.8 | 123.5 | 123.4 | 124.3 | 124.8 | 117.7 | 120.5 | 122.8 | 124.1 | 121.3 |
| 1997 | 125.3 | 126.5 | 127.1 | 127.8 | 128.4 | 129.5 | 130.1 | 131.1 | 131.8 | 132.7 | 133.5 | 134.0 | 126.3 | 128.6 | 131.0 | 133.4 | 130.1 |
| 1998 | 134.5 | 134.3 | 134.5 | 135.3 | 135.9 | 134.8 | 134.7 | 137.4 | 137.3 | 138.3 | 138.3 | 138.4 | 134.5 | 135.3 | 136.5 | 138.3 | 136.4 |
| 1999 | 138.6 | 139.3 | 139.7 | 140.2 | 141.0 | 141.4 | 142.0 | 142.5 | 142.9 | 144.3 | 145.2 | 145.5 | 139.2 | 140.9 | 142.5 | 145.0 | 142.3 |
| Capacity |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1987 | 113.2 | 113.4 | 113.6 | 113.8 | 113.9 | 114.1 | 114.2 | 114.4 | 114.6 | 114.7 | 114.9 | 115.0 | 113.4 | 113.9 | 114.4 | 114.9 | 114.1 |
| 1988 | 115.2 | 115.3 | 115.4 | 115.6 | 115.7 | 115.8 | 116.0 | 116.1 | 116.3 | 116.5 | 116.6 | 116.8 | 115.3 | 115.7 | 116.1 | 116.6 | 115.9 |
| 1989 | 117.0 | 117.3 | 117.5 | 117.8 | 118.0 | 118.3 | 118.5 | 118.7 | 119.0 | 119.2 | 119.5 | 119.7 | 117.3 | 118.0 | 118.7 | 119.5 | 118.4 |
| 1990 | 119.9 | 120.1 | 120.3 | 120.5 | 120.7 | 120.9 | 121.1 | 121.3 | 121.5 | 121.7 | 122.0 | 122.2 | 120.1 | 120.7 | 121.3 | 122.0 | 121.0 |
| 1991 | 122.4 | 122.6 | 122.8 | 123.0 | 123.1 | 123.3 | 123.5 | 123.7 | 123.8 | 124.0 | 124.2 | 124.3 | 122.6 | 123.1 | 123.7 | 124.2 | 123.4 |
| 1992 | 124.6 | 124.8 | 125.1 | 125.4 | 125.6 | 125.9 | 126.1 | 126.4 | 126.6 | 126.8 | 127.1 | 127.3 | 124.8 | 125.6 | 126.4 | 127.1 | 126.0 |
| 1993 | 127.5 | 127.7 | 127.9 | 128.2 | 128.4 | 128.6 | 128.9 | 129.1 | 129.4 | 129.7 | 130.0 | 130.4 | 127.7 | 128.4 | 129.1 | 130.0 | 128.8 |
| 1994 | 130.7 | 131.1 | 131.6 | 132.0 | 132.5 | 133.0 | 133.4 | 133.9 | 134.5 | 135.0 | 135.6 | 136.1 | 131.2 | 132.5 | 133.9 | 135.6 | 133.3 |
| 1995 | 136.7 | 137.3 | 138.0 | 138.6 | 139.3 | 140.0 | 140.6 | 141.2 | 141.9 | 142.5 | 143.2 | 143.9 | 137.3 | 139.3 | 141.2 | 143.2 | 140.3 |
| 1996 | 144.6 | 145.4 | 146.1 | 146.9 | 147.7 | 148.5 | 149.2 | 149.9 | 150.6 | 151.3 | 152.0 | 152.7 | 145.4 | 147.7 | 149.9 | 152.0 | 148.7 |
| 1997 | 153.4 | 154.1 | 154.9 | 155.6 | 156.4 | 157.2 | 157.9 | 158.7 | 159.5 | 160.3 | 161.2 | 162.1 | 154.1 | 156.4 | 158.7 | 161.2 | 157.6 |
| 1998 | 163.0 | 164.0 | 165.0 | 166.1 | 167.1 | 168.2 | 169.1 | 170.0 | 170.8 | 171.7 | 172.5 | 173.3 | 164.0 | 167.1 | 170.0 | 172.5 | 168.4 |
| 1999 | 174.1 | 174.8 | 175.5 | 176.2 | 176.9 | 177.6 | 178.2 | 178.7 | 179.3 | 179.9 | 180.5 | 181.2 | 174.8 | 176.9 | 178.7 | 180.6 | 177.8 |
| Utilization |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1987 | 79.1 | 80.2 | 80.3 | 80.6 | 80.7 | 81.4 | 81.8 | 81.5 | 81.5 | 82.5 | 82.8 | 83.1 | 79.9 | 80.9 | 81.6 | 82.8 | 81.3 |
| 1988 | 82.9 | 83.1 | 82.9 | 83.7 | 83.5 | 83.4 | 83.8 | 84.0 | 84.0 | 84.1 | 84.8 | 85.1 | 83.0 | 83.5 | 83.9 | 84.7 | 83.8 |
| 1989 | 85.7 | 84.5 | 85.0 | 85.0 | 84.2 | 84.1 | 83.0 | 83.1 | 82.7 | 82.1 | 82.2 | 82.1 | 85.1 | 84.4 | 82.9 | 82.1 | 83.6 |
| 1990 | 81.8 | 82.5 | 82.6 | 81.8 | 82.0 | 81.8 | 81.6 | 81.7 | 81.5 | 80.9 | 79.7 | 79.0 | 82.3 | 81.9 | 81.6 | 79.9 | 81.4 |
| 1991 | 78.2 | 77.5 | 76.6 | 76.8 | 77.1 | 78.1 | 78.2 | 78.2 | 79.0 | 78.9 | 78.6 | 78.1 | 77.5 | 77.3 | 78.5 | 78.5 | 77.9 |
| 1992 | 78.0 | 78.5 | 79.0 | 79.4 | 79.5 | 79.3 | 79.8 | 79.5 | 79.6 | 79.9 | 80.2 | 79.9 | 78.5 | 79.4 | 79.6 | 80.0 | 79.4 |
| 1993 | 80.3 | 80.4 | 80.5 | 80.7 | 80.3 | 80.2 | 80.2 | 79.7 | 80.5 | 80.7 | 80.9 | 81.3 | 80.4 | 80.4 | 80.1 | 81.0 | 80.5 |
| 1994 | 81.1 | 81.1 | 81.7 | 82.1 | 82.6 | 82.6 | 82.7 | 82.9 | 82.9 | 83.1 | 83.4 | 83.8 | 81.3 | 82.4 | 82.9 | 83.4 | 82.5 |
| 1995 | 84.0 | 83.4 | 83.3 | 82.8 | 82.6 | 82.7 | 81.8 | 82.3 | 82.6 | 82.2 | 81.9 | 81.5 | 83.6 | 82.7 | 82.3 | 81.8 | 82.6 |
| 1996 | 80.9 | 81.4 | 80.6 | 81.3 | 81.6 | 81.8 | 81.8 | 81.9 | 82.0 | 81.6 | 81.8 | 81.7 | 80.9 | 81.6 | 81.9 | 81.7 | 81.5 |
| 1997 | 81.7 | 82.1 | 82.1 | 82.1 | 82.1 | 82.4 | 82.4 | 82.6 | 82.7 | 82.8 | 82.8 | 82.6 | 81.9 | 82.2 | 82.5 | 82.7 | 82.4 |
| 1998 | 82.5 | 81.9 | 81.5 | 81.5 | 81.3 | 80.1 | 79.7 | 80.8 | 80.4 | 80.5 | 80.2 | 79.9 | 82.0 | 81.0 | 80.3 | 80.2 | 80.9 |
| 1999 | 79.6 | 79.7 | 79.6 | 79.5 | 79.7 | 79.6 | 79.7 | 79.7 | 79.7 | 80.2 | 80.4 | 80.3 | 79.6 | 79.6 | 79.7 | 80.3 | 79.8 |

1. Quarterly percent changes are at annual rates. Annual percent changes are calculated from annual averages.

Table 6
INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

| Item SIC | $\qquad$ | Index, 1992 = 100 |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Seasonally adjusted |  |  |  |  |  | Not seasonally adjusted |  |  |  |  |  |
|  |  | $\begin{aligned} & \hline 1999 \\ & \text { June } \end{aligned}$ | July | Aug. | Sept. ${ }^{\text {r }}$ | Oct. ${ }^{\text {r }}$ | Nov. ${ }^{\text {r }}$ | $\begin{aligned} & 1999 \\ & \text { June } \end{aligned}$ | July | Aug. | Sept. ${ }^{\text {r }}$ | Oct. ${ }^{\text {r }}$ | Nov. ${ }^{\text {r }}$ |
| Metal mining 10 | . 35 | 98.9 | 96.2 | 93.0 | 91.4 | 92.5 | 95.4 | 101.1 | 94.2 | 91.7 | 93.8 | 93.0 | 95.9 |
| Iron ore 101 | . 06 | 106.2 | 108.4 | 76.5 | 68.6 | 79.7 |  | 110.0 | 110.4 | 82.9 | 72.7 | 79.3 |  |
| Nonferrous ores 102-4,8,9 | . 29 | 97.7 | 94.1 | 96.2 | 95.7 | 95.1 | 96.9 | 99.6 | 91.3 | 93.5 | 97.8 | 95.7 | 97.2 |
| Copper 102 | . 08 | 88.2 | 92.7 | 86.4 | 82.9 |  |  | 90.8 | 86.8 | 80.6 | 82.7 |  |  |
| Coal mining 12 | . 83 | 107.0 | 110.0 | 110.7 | 109.4 | 108.8 | 110.0 | 107.0 | 102.5 | 111.9 | 111.6 | 111.0 | 109.5 |
| Oil and gas extraction 13 | 3.60 | 91.4 | 92.3 | 93.2 | 93.0 | 94.0 | 94.2 | 91.0 | 91.8 | 92.8 | 93.0 | 93.9 | 94.4 |
| Crude oil and natural gas 131 | 2.69 | 90.2 | 90.9 | 91.3 | 90.2 | 90.7 | 90.1 | 89.7 | 89.8 | 90.4 | 89.7 | 90.3 | 90.2 |
| Crude oil, total | 1.41 | 79.6 | 80.2 | 80.4 | 78.4 | 79.3 | 79.3 | 78.9 | 79.1 | 79.4 | 78.0 | 79.6 | 79.6 |
| Natural gas | 1.27 | 105.0 | 105.9 | 106.4 | 106.5 | 106.4 | 105.0 | 104.7 | 104.5 | 105.6 | 105.9 | 105.1 | 104.8 |
| Natural gas liquids 132 | . 18 | 109.4 | 111.9 | 110.3 | 113.0 | 114.6 | 113.7 | 108.8 | 112.0 | 109.9 | 113.9 | 115.8 | 115.7 |
| Oil and gas well drilling 138 | . 74 | 100.1 | 102.0 | 107.1 | 111.3 | 115.7 | 121.3 | 100.9 | 105.2 | 109.7 | 113.9 | 116.4 | 121.6 |
| Stone and earth minerals 14 | . 63 | 123.3 | 120.5 | 123.0 | 125.5 | 128.2 | 128.5 | 143.2 | 140.1 | 148.1 | 143.5 | 143.3 | 129.7 |
| Foods 20 | 8.83 | 110.0 | 108.9 | 108.9 | 109.6 | 110.6 | 111.3 | 112.5 | 111.6 | 115.1 | 116.5 | 115.8 | 110.6 |
| Meat products 201 | 1.14 | 122.4 | 122.1 | 121.5 | 122.2 | 123.1 | 121.8 | 124.6 | 117.8 | 123.1 | 123.1 | 128.5 | 121.5 |
| Beef | . 36 | 114.8 | 115.3 | 114.4 | 115.8 | 119.6 | 116.9 | 121.3 | 115.5 | 120.7 | 118.9 | 120.9 | 112.1 |
| Pork | . 31 | 115.3 | 112.7 | 114.5 | 112.5 | 113.3 | 112.7 | 110.5 | 101.9 | 109.3 | 113.0 | 121.1 | 119.3 |
| Poultry | . 46 | 136.4 | 137.2 | 134.9 | 137.3 | 135.5 | 134.8 | 139.3 | 133.1 | 136.7 | 135.2 | 141.5 | 131.6 |
| Miscellaneous meats | . 01 | 68.5 | 72.9 | 75.1 | 71.4 | 74.4 | 74.6 | 66.7 | 66.7 | 72.3 | 72.3 | 75.8 | 76.0 |
| Dairy products 202 | . 81 | 107.1 | 106.8 | 110.2 | 111.0 | 112.6 | 114.6 | 116.2 | 108.0 | 107.2 | 103.3 | 103.8 | 104.6 |
| Butter 2021 | . 02 | 113.1 | 111.7 | 104.6 | 109.6 | 114.9 | 100.8 | 96.7 | 83.5 | 74.4 | 88.7 | 107.0 | 101.8 |
| Cheese 2022 | . 18 | 122.2 | 123.2 | 125.3 | 121.6 | 125.1 | 130.4 | 126.9 | 119.2 | 118.9 | 120.5 | 123.1 | 130.2 |
| Concentrated milk 2023 | . 15 | 107.2 | 104.2 | 116.3 | 124.6 | 126.6 | 127.0 | 119.8 | 99.3 | 102.3 | 96.2 | 105.0 | 107.9 |
| Frozen desserts 2024 | . 14 | 103.9 | 106.0 | 108.2 | 105.2 | 106.1 | 110.1 | 132.1 | 127.6 | 122.8 | 104.3 | 91.7 | 83.6 |
| Milk and misc. dairy products 2026 | . 32 | 100.8 | 100.2 | 101.3 | 102.5 | 103.1 | 104.1 | 103.7 | 99.1 | 98.5 | 98.5 | 99.2 | 100.2 |
| Canned and frozen food 203 | 1.20 | 100.3 | 98.4 | 99.1 | 98.5 | 100.4 | 101.9 | 99.2 | 102.2 | 112.9 | 118.7 | 112.5 | 101.3 |
| Grain mill products 204 | . 91 | 99.9 | 100.8 | 98.7 | 98.6 | 99.8 | 97.7 | 98.5 | 100.9 | 99.9 | 102.4 | 102.6 | 100.4 |
| Bakery products 205 | 1.03 | 103.5 | 103.6 | 103.8 | 104.4 | 104.5 | 106.2 | 107.9 | 112.3 | 114.4 | 115.8 | 109.1 | 103.9 |
| Sugar and confectionery 206 | . 63 | 114.1 | 111.2 | 107.2 | 106.3 | 106.1 | 108.3 | 103.8 | 99.8 | 103.9 | 109.9 | 124.7 | 127.8 |
| Fats and oils 207 | . 19 | 106.3 | 108.7 | 111.5 | 112.3 | 108.0 | 104.8 | 101.6 | 99.2 | 106.7 | 109.7 | 112.9 | 112.2 |
| Beverages 208 | 1.82 | 117.8 | 115.5 | 116.4 | 117.8 | 121.3 | 122.7 | 127.2 | 124.4 | 127.4 | 126.5 | 125.3 | 118.0 |
| Beer and ale 2082,3 | . 56 | 102.6 | 99.5 | 102.4 |  |  |  | 118.3 | 109.3 | 107.0 |  |  |  |
| Soft drinks 2086,7 | 1.04 | 130.1 | 127.8 | 127.8 | 130.0 | 134.8 | 137.4 | 137.7 | 141.9 | 145.1 | 148.4 | 142.0 | 132.2 |
| Coffee and miscellaneous 209 | 1.11 | 114.0 | 111.8 | 111.1 | 113.6 | 112.4 | 112.6 | 115.5 | 118.4 | 120.6 | 121.9 | 117.5 | 112.0 |
| Roasted coffee 2095 | . 14 | 102.5 | 89.3 | 90.7 | 93.7 | 97.7 |  | 89.8 | 81.4 | 90.1 | 84.8 | 104.1 |  |
| Tobacco products 21 | 1.58 | 94.5 | 96.0 | 94.8 | 90.9 | 93.6 | 96.1 | 100.1 | 83.9 | 103.8 | 95.0 | 101.8 | 94.0 |
| Textile mill products 22 | 1.52 | 110.8 | 112.3 | 111.7 | 110.8 | 114.0 | 112.3 | 117.4 | 110.7 | 116.0 | 113.9 | 119.8 | 109.4 |
| Fabrics 221-4 | . 36 | 96.9 | 97.0 | 97.2 | 94.8 | 96.5 | 96.1 | 98.9 | 92.4 | 98.9 | 93.6 | 100.9 | 94.2 |
| Cotton and synthetic 221,2 | . 30 | 98.9 | 99.1 | 99.3 |  |  |  | 100.1 | 94.0 | 101.8 |  |  |  |
| Narrow fabrics 224 | . 04 | 109.7 | 110.2 | 110.5 | 110.2 | 112.7 | 112.9 | 112.5 | 106.0 | 111.7 | 111.2 | 113.8 | 113.8 |
| Knit goods 225 | . 43 | 125.4 | 126.6 | 129.8 | 127.2 | 127.6 | 130.7 | 140.7 | 127.9 | 138.0 | 137.4 | 135.8 | 124.7 |
| Knit garments 2253,4,7-9 | . 31 | 126.2 | 125.7 | 130.7 | 126.6 | 127.2 | 131.7 | 138.3 | 130.1 | 148.6 | 144.1 | 130.7 | 124.6 |
| Fabric finishing 226 | . 14 | 81.0 | 81.2 | 80.7 |  |  |  | 81.8 | 75.4 | 85.4 |  |  |  |
| Carpeting 227 | . 21 | 124.3 | 132.3 | 122.2 | 124.2 | 138.9 | 126.2 | 133.9 | 140.2 | 126.6 | 128.0 | 152.2 | 118.8 |
| Yarns and miscellaneous 228,9 | . 38 | 114.2 | 114.2 | 113.8 | 114.8 | 117.8 | 114.6 | 116.8 | 109.3 | 116.7 | 116.7 | 119.4 | 114.6 |
| Cotton and synthetic yarns 2281,2,4 | . 16 | 102.0 | 100.1 | 98.4 | 101.4 | 107.7 | 102.8 | 104.2 | 93.9 | 102.1 | 103.1 | 109.8 | 102.4 |
| Apparel products 23 | 1.72 | 90.7 | 89.8 | 89.2 | 89.0 | 89.6 | 89.5 | 93.0 | 88.7 | 91.8 | 91.4 | 91.1 | 89.8 |
| Lumber and products 24 | 2.16 | 122.2 | 121.5 | 120.2 | 119.7 | 120.4 | 120.9 | 127.5 | 120.1 | 125.0 | 123.6 | 125.9 | 120.4 |
| Logging and lumber 241,2 | . 82 | 113.4 | 112.3 | 109.9 | 110.8 | 111.3 | 112.4 | 120.2 | 110.5 | 115.6 | 116.7 | 117.7 | 111.5 |
| Logging 241 | . 28 | 93.0 | 91.2 | 91.9 | 90.9 | 91.6 | 93.5 | 96.2 | 95.7 | 99.4 | 97.3 | 99.1 | 95.5 |
| Lumber products 243-5,9 | 1.35 | 129.0 | 128.6 | 128.0 | 126.5 | 127.4 | 127.3 | 133.3 | 127.5 | 132.1 | 129.0 | 132.3 | 127.2 |
| Millwork and plywood 243 | . 70 | 123.4 | 123.7 | 124.3 | 123.7 | 124.8 | 124.2 | 127.0 | 126.7 | 128.3 | 125.4 | 127.6 | 125.8 |
| Plywood 2435,6 | . 13 | 94.4 | 94.6 | 93.8 | 93.1 | 95.4 | 94.5 | 98.1 | 94.6 | 95.9 | 94.4 | 98.3 | 92.3 |
| Manufactured homes 245 | . 26 | 158.9 | 151.5 | 151.3 | 144.4 | 142.6 |  | 171.5 | 138.5 | 164.1 | 151.1 | 157.2 |  |

1. The IP proportion data are estimates of the industries' relative contributions to overall IP growth in the following year.

Table 6 (continued)
INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

| Item SIC |  | Index, 1992 = 100 |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Seasonally adjusted |  |  |  |  |  | Not seasonally adjusted |  |  |  |  |  |
|  |  | $\begin{aligned} & \hline 1999 \\ & \text { June } \end{aligned}$ | July | Aug. | Sept. ${ }^{\text {r }}$ | Oct. ${ }^{\text {r }}$ | Nov. ${ }^{\text {r }}$ | $\begin{aligned} & 1999 \\ & \text { June } \end{aligned}$ | July | Aug. | Sept. ${ }^{\text {r }}$ | Oct. ${ }^{\text {r }}$ | Nov. ${ }^{\text {r }}$ |
| Furniture and fixtures 25 | 1.41 | 124.4 | 125.7 | 126.4 | 127.9 | 127.6 | 127.9 | 126.9 | 125.5 | 133.1 | 133.4 | 129.3 | 127.1 |
| Household furniture 251 | . 64 | 119.9 | 121.3 | 122.0 | 124.0 | 122.7 | 124.8 | 122.6 | 117.0 | 126.5 | 127.4 | 124.4 | 123.5 |
| Paper and products 26 | 3.42 | 115.7 | 115.0 | 115.8 | 117.2 | 118.0 | 118.5 | 116.9 | 114.7 | 117.2 | 116.7 | 119.5 | 116.3 |
| Pulp and paper 261-3 | 1.39 | 114.5 | 113.6 | 114.4 | 115.6 | 116.2 | 117.1 | 115.3 | 113.5 | 115.7 | 114.9 | 116.5 | 115.9 |
| Wood pulp 261 | . 09 | 101.6 | 97.2 | 98.9 | 97.8 | 98.7 | 99.6 | 100.9 | 99.8 | 100.7 | 97.2 | 98.0 | 100.1 |
| Paper 262 | . 86 | 112.6 | 111.7 | 112.3 | 115.4 | 113.3 | 115.2 | 113.0 | 111.2 | 113.0 | 114.0 | 113.5 | 114.5 |
| Paperboard 263 | . 44 | 121.5 | 121.6 | 122.5 | 120.5 | 126.5 | 125.2 | 123.6 | 121.6 | 125.0 | 121.0 | 127.2 | 122.5 |
| Paper products 265,7 | 2.03 | 116.7 | 116.0 | 116.8 | 118.3 | 119.3 | 119.5 | 118.1 | 115.5 | 118.3 | 117.9 | 121.6 | 116.6 |
| Paperboard containers 265 | . 75 | 117.1 | 119.1 | 119.8 | 117.2 | 122.9 | 121.9 | 121.3 | 118.6 | 122.1 | 119.4 | 130.7 | 116.6 |
| Converted paper products 267 | 1.27 | 116.6 | 114.4 | 115.2 | 119.2 | 117.3 | 118.3 | 116.3 | 113.8 | 116.2 | 117.2 | 116.3 | 116.8 |
| Printing and publishing 27 | 6.77 | 103.5 | 102.8 | 103.6 | 104.6 | 106.4 | 106.0 | 104.1 | 106.7 | 108.4 | 110.3 | 110.6 | 106.4 |
| Newspapers 271 | 1.64 | 98.3 | 98.1 | 98.7 | 98.9 | 99.7 | 99.3 | 96.1 | 94.8 | 92.0 | 99.9 | 109.4 | 104.5 |
| Periodicals, books, and cards 272,3,7 | 2.07 | 100.6 | 101.4 | 102.9 | 104.9 | 106.9 | 105.0 | 99.5 | 101.3 | 104.1 | 104.5 | 105.4 | 105.1 |
| Job printing 274-6,8,9 | 3.06 | 108.5 | 106.4 | 106.8 | 107.6 | 109.9 | 110.5 | 111.7 | 117.2 | 120.7 | 120.1 | 114.4 | 107.9 |
| Chemicals and products 28 | 9.74 | 116.3 | 115.8 | 117.7 | 117.4 | 119.1 | 120.7 | 120.2 | 120.5 | 122.9 | 123.5 | 120.8 | 115.9 |
| Industrial chemicals and |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{array}{lr}\text { synthetic materials } \\ \text { Basic chemicals } & \text { 281,2,6 } \\ \text { 281 }\end{array}$ | 3.12 71 | 113.2 92.5 | 113.5 89.4 | 113.6 89.5 | 114.7 92.3 | 117.4 95.8 | 119.2 100.1 | 113.8 94.7 | 112.7 | 112.2 89 | 115.3 | 117.4 97.9 | 117.7 |
| $\begin{array}{lr}\text { Basic chemicals } & 281 \\ \text { Alkalies and chlorine } & 2812\end{array}$ | . 71 | 92.5 118.3 | 89.4 117.1 | 89.5 115.5 | 92.3 | 95.8 116.7 | 100.1 | 94.7 117.3 | 87.1 117.5 | 89.7 116.0 | 93.0 119.1 | 97.9 116.6 | 100.1 |
| Inorganic pigments 2816 | . 10 | 105.6 | 100.3 | 110.1 | 105.2 | 107.6 | 124.5 | 110.7 | 98.5 | 107.3 | 104.2 | 106.6 | 115.3 |
| Inorganic chemicals, nec 2819 | . 41 | 83.4 | 79.5 | 77.8 | 82.5 | 87.7 | 90.2 | 86.1 | 76.7 | 78.4 | 83.6 | 91.0 | 91.9 |
| Acids and other | . 32 | 117.2 | 113.2 | 110.4 | 110.0 | 111.7 |  | 121.4 | 111.0 | 113.2 | 112.8 | 115.7 |  |
| Synthetic materials 282 | 1.09 | 115.6 | 116.0 | 114.4 | 114.5 | 118.8 | 119.9 | 116.6 | 115.5 | 111.7 | 116.1 | 119.7 | 117.4 |
| Plastics materials 2821 | . 67 | 123.2 | 125.4 | 121.5 | 125.6 | 130.9 |  | 123.4 | 124.4 | 119.0 | 127.5 | 131.4 |  |
| Synthetic fibers 2823,4 | . 30 | 99.5 | 96.7 | 98.0 | 92.5 | 95.6 | 104.3 | 101.4 | 96.9 | 95.3 | 93.9 | 98.3 | 100.7 |
| Industrial organic chemicals 286 | 1.32 | 124.7 | 127.4 | 128.9 | 129.9 |  |  | 124.1 | 127.4 | 127.8 | 129.4 |  |  |
| Chemical products 283-5,9 | 5.99 | 119.1 | 118.2 | 121.4 | 120.0 | 121.5 | 123.2 | 126.0 | 127.2 | 131.6 | 130.7 | 124.9 | 116.4 |
| Drugs and medicines 283 | 3.38 | 119.0 | 118.5 | 122.5 | 121.8 | 123.8 | 125.5 | 127.4 | 128.7 | 134.5 | 134.6 | 128.4 | 119.2 |
| Soap and toiletries 284 | 1.59 | 122.4 | 120.9 | 122.8 | 118.8 | 119.7 | 122.0 | 126.0 | 130.3 | 133.1 | 130.3 | 123.2 | 115.1 |
| Paints 285 | . 43 | 105.0 | 106.1 | 106.8 | 107.1 | 107.3 | 107.5 | 121.0 | 112.2 | 113.2 | 109.0 | 108.0 | 93.5 |
| Agricultural chemicals 287 | . 63 | 112.6 | 110.9 | 110.0 | 111.7 | 110.7 | 111.1 | 110.5 | 107.9 | 107.8 | 110.9 | 110.7 | 112.4 |
| Petroleum products 29 | 1.36 | 113.4 | 115.1 | 114.1 | 114.6 | 114.6 | 112.5 | 118.2 | 120.2 | 119.9 | 118.5 | 115.6 | 113.5 |
| Petroleum refining and misc. 291,9 | 1.15 | 108.9 | 110.4 | 109.7 | 110.3 | 110.4 | 107.4 | 113.1 | 114.6 | 114.2 | 112.9 | 110.0 | 107.8 |
| Miscellaneous petroleum products | . 25 | 109.1 | 112.5 | 112.7 | 108.6 | 109.7 | 111.6 | 121.3 | 126.5 | 128.1 | 117.7 | 108.4 | 102.7 |
| Distillate fuel oil | . 22 | 112.6 | 119.1 | 114.5 | 116.0 | 114.0 |  | 114.0 | 118.6 | 115.3 | 117.3 | 118.1 |  |
| Residual fuel oil | . 04 | 82.0 | 83.7 | 79.3 | 78.6 | 78.1 |  | 79.7 | 82.0 | 78.5 | 78.7 | 74.0 |  |
| Aviation fuel and kerosene | . 10 | 111.2 | 111.4 | 112.6 | 115.1 | 110.9 |  | 110.9 | 111.3 | 113.7 | 115.9 | 109.4 |  |
| Automotive gasoline | . 54 | 109.0 | 108.0 | 108.4 | 110.5 | 111.9 |  | 112.3 | 111.0 | 110.6 | 111.4 | 110.9 |  |
| Paving and roofing materials 295 | . 20 | 147.6 | 150.6 | 147.5 | 147.3 | 146.0 | 152.1 | 157.2 | 163.1 | 163.5 | 161.6 | 158.7 | 157.6 |
| Rubber and plastics products 30 | 3.79 | 136.4 | 138.0 | 137.6 | 139.3 | 138.8 | 139.3 | 138.5 | 133.5 | 139.0 | 139.2 | 140.7 | 140.4 |
| Tires 301 | . 32 | 123.4 | 125.8 | 127.0 | 126.6 | 138.2 | 132.7 | 126.1 | 108.9 | 131.6 | 128.1 | 144.4 | 131.1 |
| Other rubber products 302,5,6 | . 61 | 124.1 | 128.2 | 126.7 | 129.7 | 125.9 | 128.6 | 127.6 | 128.0 | 133.2 | 135.1 | 129.7 | 127.2 |
| Plastics products, nec 308 | 2.86 | 141.0 | 141.9 | 141.7 | 143.3 | 142.3 | 142.9 | 142.7 | 137.8 | 141.5 | 141.7 | 143.2 | 144.8 |
| Leather and products 31 | . 21 | 71.3 | 69.1 | 70.2 | 69.5 | 68.7 | 68.3 | 73.2 | 66.4 | 71.4 | 70.4 | 69.7 | 68.7 |
| Shoes 314 | . 08 | 63.9 | 58.7 | 61.9 | 59.4 | 59.1 | 61.0 | 66.0 | 56.7 | 64.5 | 60.7 | 60.6 | 61.6 |
| Stone, clay, and glass products 32 | 2.45 | 127.8 | 129.3 | 130.2 | 129.6 | 131.6 | 132.2 | 131.7 | 131.0 | 134.7 | 133.8 | 135.8 | 132.2 |
| Pressed and blown glass 322 | . 31 | 110.3 | 110.1 | 110.3 | 109.4 | 108.2 | 112.5 | 112.8 | 111.8 | 113.4 | 110.7 | 110.7 | 112.3 |
| Glass containers 3221 | . 13 | 84.7 | 84.2 | 85.0 | 82.2 | 81.7 | 87.9 | 88.5 | 87.1 | 88.7 | 81.6 | 83.2 | 86.7 |
| Cement 324 | . 20 | 117.9 | 114.8 | 118.8 | 114.0 | 119.3 |  | 140.6 | 132.6 | 142.3 | 133.6 | 145.4 |  |
| Structural clay products 325 | . 11 | 113.8 | 116.9 | 119.9 | 120.4 | 120.6 | 121.0 | 120.8 | 112.9 | 126.5 | 122.9 | 122.4 | 118.0 |
| Concrete and miscellaneous 326-9 | 1.49 | 131.2 | 133.9 | 134.3 | 134.5 | 137.0 | 136.7 | 133.1 | 133.9 | 136.5 | 137.0 | 138.7 | 137.6 |

1. The IP proportion data are estimates of the industries' relative contributions to overall IP growth in the following year.

Table 6 (continued)
INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

| Item | SIC | $\begin{array}{\|c} 1998 \\ \text { IP } \\ \text { Proportion }^{1} \\ \hline \end{array}$ | Index, 1992 = 100 |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Seasonally adjusted |  |  |  |  |  | Not seasonally adjusted |  |  |  |  |  |
|  |  |  | $\begin{aligned} & \hline 1999 \\ & \text { June } \\ & \hline \end{aligned}$ | July | Aug. | Sept. ${ }^{\text {r }}$ | Oct. ${ }^{\text {r }}$ | Nov. ${ }^{\text {r }}$ | $\begin{aligned} & \hline 1999 \\ & \text { June } \\ & \hline \end{aligned}$ | July | Aug. | Sept. ${ }^{\text {r }}$ | Oct. ${ }^{\text {r }}$ | Nov. ${ }^{\text {r }}$ |
| Primary metals | 33 | 3.36 | 127.4 | 128.0 | 129.6 | 128.3 | 128.3 | 131.2 | 128.0 | 123.3 | 127.3 | 129.2 | 129.2 | 130.1 |
| Iron and steel | 331,2 | 1.83 | 124.5 | 126.2 | 127.6 | 125.9 | 124.4 | 129.9 | 124.9 | 122.2 | 124.5 | 126.6 | 126.0 | 127.0 |
| Basic steel and mill products | 331 | 1.35 | 122.4 | 124.5 | 128.3 | 126.3 | 124.9 | 132.4 | 122.8 | 121.6 | 126.0 | 126.4 | 125.9 | 127.3 |
| Basic iron and steel |  | . 27 | 99.0 | 100.1 | 102.6 | 100.1 | 107.6 | 107.2 | 98.2 | 97.2 | 100.1 | 100.3 | 106.0 | 106.4 |
| Pig iron |  | . 15 | 96.2 | 98.4 | 100.1 | 97.6 | 105.9 | 104.2 | 95.0 | 95.5 | 97.3 | 97.8 | 103.9 | 104.4 |
| Raw steel |  | . 08 | 110.7 | 111.1 | 115.9 | 112.4 | 121.8 | 124.0 | 110.8 | 106.5 | 112.7 | 112.0 | 119.8 | 121.0 |
| Steel mill products |  | 1.08 | 129.3 | 131.7 | 135.8 | 134.1 | 130.0 | 139.8 | 130.1 | 128.8 | 133.7 | 134.1 | 131.7 | 133.5 |
| Consumer durable steel |  | . 17 | 145.4 | 143.8 | 150.0 | 146.8 | 133.8 | 141.7 | 144.8 | 111.9 | 146.7 | 149.5 | 144.4 | 140.6 |
| Equipment steel |  | . 11 | 99.5 | 104.8 | 109.1 | 110.3 | 105.4 | 107.8 | 98.8 | 102.2 | 107.6 | 109.4 | 107.0 | 103.6 |
| Construction steel |  | . 14 | 155.0 | 160.2 | 161.9 | 156.4 | 154.8 | 157.2 | 161.9 | 163.6 | 162.4 | 157.7 | 165.0 | 160.5 |
| Can and closure steel |  | . 04 | 103.2 | 99.4 | 102.2 | 100.2 | 90.9 | 106.3 | 104.7 | 101.4 | 105.3 | 102.8 | 89.5 | 96.1 |
| Miscellaneous steel |  | . 62 | 127.6 | 130.4 | 134.5 | 133.3 | 131.7 | 144.2 | 128.2 | 133.9 | 132.0 | 132.7 | 130.1 | 135.0 |
| Iron and steel foundries | 332 | . 48 | 131.7 | 132.2 | 126.6 | 125.4 | 123.6 | 123.4 | 131.8 | 125.0 | 121.0 | 127.9 | 127.5 | 126.8 |
| Nonferrous metals | 333-6,9 | 1.53 | 130.8 | 130.2 | 132.1 | 131.4 | 133.2 | 132.9 | 131.7 | 124.6 | 130.7 | 132.5 | 133.1 | 134.0 |
| Primary nonferrous metals | 333 | . 18 | 103.1 | 102.1 | 103.6 | 102.9 | 105.4 | 105.0 | 101.0 | 100.0 | 100.6 | 102.3 | 106.4 | 105.9 |
| Copper | 3331 | . 04 | 93.0 | 87.7 | 90.3 | 86.9 | 92.3 | 90.9 | 88.0 | 85.3 | 87.5 | 87.7 | 95.9 | 94.7 |
| Aluminum | 3334 | . 09 | 93.3 | 93.2 | 94.7 | 94.2 | 94.4 | 95.3 | 93.5 | 93.3 | 94.5 | 93.6 | 94.3 | 95.2 |
| Nonferrous products | 335,6 | 1.10 | 133.4 | 132.8 | 135.5 | 134.8 | 136.7 | 136.3 | 135.0 | 126.3 | 134.4 | 136.1 | 136.1 | 137.0 |
| Nonferrous mill products | 335 | . 79 | 125.9 | 125.3 | 129.3 | 128.6 | 131.0 | 130.5 | 127.8 | 119.7 | 128.4 | 130.1 | 129.7 | 130.3 |
| Aluminum | 3353-5 | . 30 | 122.0 | 118.0 | 125.6 | 122.0 | 128.9 | 126.7 | 126.9 | 112.7 | 124.3 | 125.5 | 127.8 | 122.0 |
| Nonferrous foundries | 336 | . 31 | 158.8 | 158.2 | 156.7 | 155.9 | 156.3 | 156.1 | 158.6 | 148.2 | 154.3 | 155.9 | 157.5 | 159.4 |
| Fabricated metal products | 34 | 5.58 | 128.3 | 128.6 | 128.5 | 128.4 | 129.0 | 130.1 | 130.4 | 127.9 | 130.8 | 130.9 | 132.0 | 130.9 |
| Metal containers | 341 | . 18 | 106.0 | 104.4 | 105.9 | 104.4 | 101.7 | 103.2 | 124.8 | 116.4 | 119.4 | 109.6 | 98.8 | 90.7 |
| Hardware, tools, and cutlery | 342 | . 59 | 126.1 | 126.0 | 128.2 | 131.3 | 131.5 | 131.4 | 128.9 | 127.4 | 132.9 | 137.6 | 135.0 | 131.1 |
| Hardware and tools | 3423,5,9 | . 50 | 125.1 | 125.7 | 127.5 | 131.3 | 131.4 | 131.6 | 128.3 | 128.1 | 132.9 | 138.9 | 134.8 | 129.9 |
| Structural metal products | 344 | 1.51 | 127.8 | 128.3 | 128.1 | 128.4 | 129.8 | 130.2 | 129.4 | 129.9 | 130.3 | 129.0 | 132.6 | 133.1 |
| Other fabricated metal products | S 345-9 | 3.08 | 130.4 | 131.4 | 130.7 | 130.0 | 130.4 | 132.0 | 131.8 | 128.6 | 131.1 | 130.7 | 132.3 | 132.3 |
| Fasteners, stampings, etc. | 345-7 | 1.79 | 141.1 | 141.8 | 140.3 | 138.9 | 139.2 | 142.1 | 143.0 | 138.6 | 141.7 | 141.7 | 142.6 | 141.4 |
| Industrialmachinery and equipment |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| and equipment | 35 | 9.95 | 228.2 | 230.0 | 231.4 | 235.5 | 239.0 | 240.5 | 229.8 | 223.9 | 232.2 | 240.6 | 244.9 | 241.3 |
| Farm | 352 | . 56 | 139.5 | 120.1 | 117.1 | 126.5 | 122.3 | 134.0 | 123.8 | 135.6 78.4 | 144.8 93.9 | 101.9 | 102.6 | 104.5 |
| Construction and allied | 353 | 1.07 | 158.8 | 167.8 | 160.4 | 166.4 | 170.6 | 166.9 | 168.5 | 152.3 | 160.2 | 170.8 | 180.9 | 164.7 |
| Metalworking | 354 | 1.11 | 127.1 | 126.6 | 126.0 | 124.1 | 124.8 | 125.1 | 127.4 | 124.3 | 124.0 | 123.1 | 124.9 | 126.1 |
| Special industry machinery | 355 | . 96 | 147.0 | 148.3 | 147.4 | 146.3 | 145.8 | 144.3 | 146.4 | 143.6 | 144.6 | 143.9 | 145.5 | 146.1 |
| General industrial machinery | 356 | 1.19 | 121.2 | 122.3 | 122.7 | 122.3 | 124.2 | 125.3 | 123.7 | 123.7 | 127.7 | 127.2 | 124.4 | 122.7 |
| Bearings and gears | 3562,6,8 | . 34 | 109.6 | 112.8 | 112.8 | 113.8 | 115.2 | 113.5 | 109.7 | 108.0 | 111.1 | 111.6 | 113.8 | 113.3 |
| Equipment 356 | 1,3-5,7,9 | . 85 | 126.4 | 126.6 | 127.1 | 126.2 | 128.2 | 130.6 | 129.8 | 130.5 | 134.9 | 134.0 | 129.0 | 126.8 |
| Computer and office equip. | 357 | 2.23 | 1048. | 1075. | 1123. | 1167. | 1206. | 1233. | 1024. | 1071. | 1150.3 | 1235. | 1308. | 1330. |
| Service industry machines | 358 | . 92 | 162.0 | 163.4 | 156.7 | 160.9 | 161.2 | 160.0 | 173.8 | 157.8 | 148.1 | 157.4 | 157.0 | 147.7 |
| Refrig. and heating equip. | 3585 | . 66 | 172.9 | 174.2 | 165.8 | 171.2 | 171.9 | 169.7 | 189.2 | 166.2 | 152.7 | 166.2 | 165.7 | 150.1 |
| Miscellaneous machinery | 359 | 1.37 | 156.4 | 156.1 | 157.8 | 157.3 | 158.4 | 157.6 | 161.0 | 164.0 | 169.1 | 168.7 | 159.7 | 152.1 |
| Electrical machinery | 36 | 8.82 | 384.2 | 399.2 | 401.3 | 402.1 | 410.9 | 417.7 | 401.4 | 383.7 | 405.7 | 435.9 | 417.9 | 429.9 |
| Major electrical and parts | 361,2 | 1.01 | 125.2 | 125.4 | 128.1 | 127.8 | 127.3 | 127.8 | 128.0 | 131.7 | 135.0 | 135.0 | 127.8 | 124.2 |
| Electric distribution equip. | 361 | . 33 | 124.1 | 121.5 | 120.5 | 121.2 | 124.1 | 125.9 | 125.8 | 129.7 | 132.3 | 133.8 | 125.3 | 121.5 |
| Household appliances | 363 | . 44 | 120.4 | 124.5 | 123.3 | 117.4 | 126.5 | 126.7 | 122.9 | 116.7 | 123.2 | 119.0 | 133.0 | 123.9 |
| Cooking equipment | 3631 | . 06 | 126.0 | 131.0 | 117.4 | 120.1 | 143.9 | 117.8 | 122.9 | 128.5 | 123.8 | 122.7 | 151.3 | 119.5 |
| Refrigerators and freezers | 3632 | . 10 | 130.0 | 139.2 | 139.5 | 121.4 | 140.9 | 151.5 | 142.4 | 139.9 | 137.1 | 120.4 | 147.5 | 139.2 |
| Laundry | 3633 | . 08 | 137.5 | 139.5 | 146.7 | 133.9 | 145.1 | 148.2 | 141.7 | 117.5 | 141.8 | 136.0 | 156.3 | 146.1 |
| Miscellaneous | 3634,5,9 | . 20 | 107.3 | 109.8 | 108.6 | 107.7 | 107.9 | 110.2 | 106.9 | 102.0 | 109.4 | 109.9 | 112.5 | 109.8 |
| Electrical housewares | 3634 | . 04 | 86.8 | 91.8 | 89.5 | 89.1 | 87.8 | 94.2 | 88.0 | 88.0 | 92.1 | 94.2 | 95.2 | 100.4 |
| Appliances, nec | 3639 | . 09 | 99.5 | 101.7 | 100.5 | 98.5 | 99.0 | 100.3 | 100.8 | 87.7 | 98.9 | 97.4 | 104.6 | 98.9 |
| Audio and video equipment | 365 | . 09 | 80.8 | 95.2 | 80.4 | 99.4 | 127.3 | 102.4 | 75.2 | 84.1 | 86.6 | 109.1 | 142.7 | 114.3 |
| Communication equipment | 366 | 2.34 | 260.0 | 271.6 | 275.5 | 272.0 | 272.1 | 274.2 | 258.7 | 265.5 | 277.3 | 272.7 | 273.7 | 282.1 |
| Electronic components | 367 | 3.57 | 1102. | 1158. | 1169. | 1186. | 1227. | 1276. | 1193. | 1045. | 1143.7 | 1361. | 1222. | 1318. |
| Semiconductors and related electronic components | 3672-9 | 3.50 | $\begin{array}{r} 7 \\ 1155 \end{array}$ | $1212^{5}$ | 4 1224 | $1243$ | $\begin{array}{r} 7 \\ 1286 \end{array}$ | $\begin{array}{r} 9 \\ 1338 \end{array}$ | 1253 | 1090 | 1191.5 | 1426 | 1 1273. | 9 1377 |
| Misc. electrical supplies | $3672-9$ 369 | . 70 | 132.8 | 139.8 | 132.0 | 132.7 | 135.8 | 136.6 | 134.5 | 131.6 | 134.1 | 138.6 | 139.8 | 141.0 |
| Storage batteries | 3691 | . 12 | 138.9 | 165.4 | 140.2 | 140.4 | 151.5 |  | 145.8 | 153.5 | 150.9 | 183.1 | 166.2 |  |
| Transportation equipment | 37 | 9.41 | 123.5 | 122.9 | 122.9 | 123.1 | 122.1 | 121.8 | 127.5 | 97.7 | 124.3 | 124.2 | 129.1 | 120.8 |
| Motor vehicles and parts | 371 | 5.25 | 152.9 | 152.2 | 152.2 | 155.6 | 155.6 | 156.4 | 160.9 | 101.3 | 155.9 | 157.4 | 170.3 | 153.7 |
| Autos |  | 1.20 | 95.9 | 96.6 | 99.0 | 99.5 | 97.9 | 101.0 | 104.5 | 58.7 | 100.9 | 101.2 | 109.9 | 98.7 |
| Trucks and truck trailers |  | 1.79 | 209.5 | 199.5 | 214.4 | 199.0 | 204.8 | 202.9 | 214.4 | 127.1 | 217.5 | 206.2 | 228.3 | 197.6 |
| Trucks and buses |  | 1.69 | 210.6 | 198.5 | 216.4 | 200.2 | 206.3 | 204.5 | 215.8 | 123.1 | 219.2 | 207.2 | 231.2 | 198.5 |
| Consumer trucks |  | 1.05 | 214.2 | 197.2 | 221.6 | 201.9 | 207.8 | 203.6 | 216.3 | 113.8 | 224.2 | 209.8 | 232.9 | 198.3 |
| Business trucks |  | . 64 | 204.0 | 200.0 | 207.3 | 196.7 | 203.3 | 205.4 | 214.1 | 137.7 | 210.0 | 202.1 | 227.5 | 198.0 |
| Motor vehicle parts | 3714 | 2.19 | 161.3 | 166.3 | 153.3 | 172.7 | 170.1 | 171.7 | 171.8 | 118.5 | 159.7 | 170.7 | 181.1 | 171.1 |
| Motor homes | 3716 | . 07 | 141.4 | 137.9 | 142.7 | 147.0 | 145.4 | 126.9 | 137.4 | 121.6 | 131.0 | 153.4 | 155.0 | 112.2 |
| Aerospace and miscellaneous |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| transportation equipment |  | 4.16 | 95.2 | 94.7 | 94.7 | 92.2 | 90.2 | 88.8 | 95.6 | 92.9 | 94.1 | 92.5 | 90.2 | 89.5 |
| Aircraft and parts | 372 | 2.90 | 98.6 | 98.0 | 97.4 | 93.9 | 91.1 | 88.7 | 99.1 | 95.9 | 96.6 | 94.6 | 90.8 | 89.9 |
| Ships and boats | 373 | . 39 | 87.9 | 88.6 | 93.5 | 91.9 | 90.9 | 94.5 | 87.7 | 86.4 | 92.3 | 91.8 | 92.7 | 95.1 |
| Railroad and miscellaneous | 374-6,9 | . 86 | 87.1 | 86.6 | 86.1 | 86.1 | 86.0 | 85.4 | 87.6 | 85.7 | 86.3 | 85.5 | 86.1 | 84.8 |

[^3]Table 6 (continued)
INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

| Item | SIC | $\begin{gathered} 1998 \\ \text { IP } \\ \text { Proportion }^{1} \\ \hline \end{gathered}$ | Index, 1992 = 100 |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Seasonally adjusted |  |  |  |  |  | Not seasonally adjusted |  |  |  |  |  |
|  |  |  | $\begin{aligned} & 1999 \\ & \text { June } \\ & \hline \end{aligned}$ | July | Aug. | Sept. ${ }^{\text {r }}$ | Oct. ${ }^{\text {r }}$ | Nov. ${ }^{\text {r }}$ | $\begin{aligned} & 1999 \\ & \text { June } \\ & \hline \end{aligned}$ | July | Aug. | Sept. ${ }^{\text {r }}$ | Oct. ${ }^{\text {r }}$ | Nov. ${ }^{\text {r }}$ |
| Instruments | 38 | 4.87 | 117.0 | 117.2 | 117.7 | 117.2 | 118.6 | 119.0 | 118.7 | 119.1 | 120.9 | 120.5 | 119.7 | 118.1 |
| Scientific and medical | 381-4 | 4.12 | 118.3 | 117.9 | 118.1 | 118.0 | 118.3 | 118.5 | 120.3 | 120.3 | 121.9 | 121.3 | 119.4 | 117.2 |
| Medical instruments | 384 | 1.59 | 128.6 | 126.0 | 128.1 | 128.9 | 130.6 | 131.0 | 134.6 | 136.3 | 140.7 | 141.3 | 134.2 | 126.0 |
| Misc. manufactures | 39 | 1.36 | 124.5 | 125.2 | 125.2 | 125.1 | 125.0 | 124.7 | 125.4 | 122.2 | 126.1 | 126.7 | 129.4 | 128.4 |
| Consumer goods | 391,3,4,6 | . 62 | 108.0 | 107.2 | 107.7 | 107.3 | 107.7 | 107.9 | 107.6 | 101.7 | 106.7 | 108.2 | 111.7 | 112.0 |
| Business supplies | 395,9 | . 74 | 142.3 | 144.5 | 143.9 | 144.1 | 143.5 | 142.8 | 143.6 | 143.2 | 145.9 | 145.7 | 147.6 | 145.1 |
| Electric utilities | 491,3pt | 5.31 | 119.6 | 122.6 | 120.0 | 119.8 | 121.0 | 118.8 | 123.9 | 140.2 | 136.3 | 123.0 | 113.0 | 109.9 |
| Generation |  | 1.99 | 116.8 | 118.7 | 116.8 | 115.5 | 116.7 | 114.4 | 124.4 | 132.6 | 128.3 | 113.8 | 105.7 | 106.6 |
| Fossil fuel |  | . 96 | 114.1 | 116.4 | 113.6 | 109.8 | 110.9 |  | 121.1 | 137.9 | 132.8 | 114.8 | 106.0 |  |
| Hydro and nuclear |  | 1.03 | 119.2 | 120.7 | 119.7 | 120.6 | 121.8 |  | 127.3 | 128.2 | 124.5 | 112.9 | 105.6 |  |
| Sales |  | 3.32 | 121.5 | 125.1 | 122.0 | 122.5 | 123.7 | 121.7 | 123.6 | 145.1 | 141.4 | 128.9 | 117.7 | 112.0 |
| Residential |  | 1.40 | 123.7 | 129.4 | 126.7 | 127.2 |  |  | 122.6 | 161.3 | 154.8 | 133.0 |  |  |
| Nonresidential |  | 1.93 | 119.7 | 122.0 | 118.6 | 119.1 | 120.1 | 118.7 | 124.3 | 133.7 | 132.0 | 126.0 | 120.9 | 113.6 |
| Commercial and other |  | 1.19 | 126.8 | 129.1 | 125.7 | 126.0 |  |  | 132.4 | 146.9 | 144.0 | 135.7 |  |  |
| Industrial |  | . 73 | 109.3 | 111.6 | 108.0 | 108.9 |  |  | 112.6 | 114.7 | 114.7 | 112.0 |  |  |
| Gas utilities | 492,3pt | 1.00 | 107.5 | 107.4 | 108.2 | 108.5 | 107.9 | 100.5 | 62.9 | 61.4 | 60.1 | 59.1 | 75.5 | 113.2 |
| Residential |  | . 45 | 102.0 | 103.0 | 101.3 | 101.5 | 101.5 |  | 40.2 | 33.3 | 29.7 | 32.8 | 57.6 |  |
| Commercial and other |  | . 17 | 116.3 | 115.3 | 121.0 | 124.4 | 121.1 |  | 63.8 | 62.5 | 62.3 | 63.4 | 83.2 |  |
| Gas transmission |  | . 32 | 111.3 | 109.9 | 112.1 | 111.3 | 111.0 | 103.0 | 88.0 | 93.2 | 94.3 | 87.8 | 91.7 | 107.5 |

1. The IP proportion data are estimates of the industries' relative contributions to overall IP growth in the following year.

Table 7
INDUSTRIAL PRODUCTION: GROSS VALUE OF PRODUCTS

Billions of 1996 dollars at annual rates, seasonally adjusted

| Item | 1992 | 1999 | $\begin{array}{r} 1998 \\ \text { Q3 } \\ \hline \end{array}$ | Q4 | $\begin{array}{r} 1999 \\ \text { Q1 } \\ \hline \end{array}$ | Q2 | Q3 ${ }^{\text {r }}$ | Q4P | $\begin{gathered} 1999 \\ \text { July } \\ \hline \end{gathered}$ | Aug. | Sept. ${ }^{\text {r }}$ | Oct. ${ }^{\text {r }}$ | Nov. ${ }^{\text {r }}$ | Dec. ${ }^{\text {p }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Products, total | 2121.0 | 2726.9 | 2650.5 | 2680.9 | 2698.5 | 2718.6 | 2736.1 | 2769.5 | 2726.1 | 2742.0 | 2740.2 | 2772.2 | 2768.1 | 2768.1 |
| Final products | 1613.6 | 2102.9 | 2040.7 | 2065.0 | 2077.3 | 2094.3 | 2111.3 | 2135.8 | 2102.8 | 2118.5 | 2112.5 | 2139.8 | 2136.3 | 2131.3 |
| Consumer goods | 1091.1 | 1295.2 | 1264.9 | 1271.0 | 1288.9 | 1291.2 | 1296.9 | 1312.7 | 1292.4 | 1301.3 | 1297.0 | 1318.0 | 1309.6 | 1310.4 |
| Durable | 235.1 | 357.9 | 323.5 | 340.3 | 349.9 | 357.8 | 361.5 | 366.9 | 358.4 | 365.8 | 360.2 | 371.4 | 366.0 | 363.4 |
| Automotive products | 130.9 | 191.1 | 170.2 | 188.2 | 187.1 | 191.7 | 193.9 | 193.1 | 189.2 | 200.1 | 192.4 | 195.2 | 193.9 | 190.2 |
| Other durable goods | 104.5 | 166.8 | 153.5 | 151.6 | 162.7 | 166.0 | 167.5 | 174.2 | 169.5 | 165.1 | 167.8 | 176.5 | 172.4 | 173.6 |
| Nondurable | 857.8 | 940.0 | 941.6 | 932.2 | 940.9 | 936.1 | 938.3 | 948.7 | 936.5 | 938.8 | 939.4 | 950.0 | 946.6 | 949.5 |
| Equipment, total | 523.5 | 810.9 | 776.8 | 795.2 | 789.5 | 804.5 | 816.3 | 825.0 | 812.3 | 819.0 | 817.5 | 823.5 | 828.8 | 822.7 |
| Business and defense | 501.6 | 785.0 | 746.5 | 766.9 | 763.3 | 779.3 | 791.0 | 798.2 | 787.6 | 793.5 | 791.9 | 797.4 | 801.7 | 795.5 |
| Business | 413.9 | 721.0 | 682.1 | 702.3 | 699.3 | 716.1 | 728.4 | 737.0 | 724.8 | 730.5 | 729.9 | 735.4 | 740.4 | 735.1 |
| Defense and space | 88.4 | 65.0 | 66.2 | 66.5 | 65.9 | 65.4 | 65.0 | 63.8 | 65.1 | 65.5 | 64.4 | 64.5 | 64.0 | 63.0 |
| Intermediateproducts | 508.0 | 624.5 | 608.5 | 614.7 | 619.8 | 623.0 | 623.6 | 632.4 | 622.0 | 622.4 | 626.4 | 631.2 | 630.6 | 635.4 |
| Construction supplies | 200.5 | 267.7 | 257.5 | 261.8 | 265.1 | 265.3 | 267.6 | 272.1 | 267.8 | 266.3 | 268.7 | 271.3 | 271.8 | 273.3 |
| Business supplies | 307.8 | 356.5 | 350.9 | 352.7 | 354.4 | 357.5 | 355.7 | 359.9 | 353.8 | 355.8 | 357.4 | 359.5 | 358.3 | 361.8 |
| Commercial energy products | 76.0 | 91.5 | 91.9 | 89.5 | 90.9 | 92.3 | 92.6 | 91.6 | 93.1 | 92.7 | 92.1 | 91.8 | 90.2 | 92.8 |

Table 8
DIFFUSION INDEXES OF INDUSTRIAL PRODUCTION

Percent

| Year | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| One Month Earlier |  |  |  |  |  |  |  |  |  |  |  |  |
| 1997 | 55.2 | 66.8 | 57.5 | 53.4 | 55.2 | 57.1 | 57.2 | 52.4 | 55.4 | 55.8 | 62.5 | 52.1 |
| 1998 | 56.6 | 48.7 | 50.7 | 51.5 | 51.3 | 39.0 | 50.6 | 50.2 | 43.8 | 54.7 | 49.1 | 48.3 |
| 1999 | 47.6 | 52.8 | 49.8 | 57.7 | 53.6 | 49.8 | 57.1 | 52.8 | 48.7 | 64.2 | 54.1 |  |
| Three Months Earlier |  |  |  |  |  |  |  |  |  |  |  |  |
| 1997 | 54.5 | 68.3 | 61.2 | 66.4 | 56.0 | 58.6 | 61.9 | 64.2 | 61.9 | 59.9 | 62.9 | 62.2 |
| 1998 | 62.2 | 52.8 | 55.4 | 53.9 | 54.7 | 43.1 | 44.6 | 39.3 | 47.6 | 51.3 | 49.8 | 52.4 |
| 1999 | 50.9 | 54.3 | 51.3 | 56.2 | 52.8 | 52.4 | 53.9 | 59.6 | 52.1 | 57.3 | 58.8 |  |
| Six Months Earlier |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & 1997 \\ & 1998 \end{aligned}$ | 63.1 63.3 | 67.9 64.8 | 64.2 58.1 | 62.7 58.4 | 63.2 55.8 | 68.3 | 69.1 48.3 | 61.5 47.9 | 66.8 48.3 | 70.6 52.8 | 70.9 47.6 | 65.7 50.2 |
| 1999 | 64.3 54 | 64.8 50.9 | 55.8 | 52.4 52.4 | 54.8 54.3 | 55.1 | 48.3 56.2 | 50.6 | 48.3 54.3 | 52.8 61.4 | 47.6 60.7 | 50.2 |

Note-The diffusion indexes are calculated as the percentage of series that increased over the indicated span (one, three, or six months) plus one-half the percentage that were unchanged.

Table 9
ELECTRIC POWER USE: MANUFACTURING AND MINING

| Item 1 | 1987 SIC | 1992 <br> Billion <br> KWH | Index, 1992 = 100 |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Seasonally adjusted |  |  |  |  |  | Not seasonally adjusted |  |  |  |  |  |
|  |  |  | $\begin{aligned} & \hline 1999 \\ & \text { June } \end{aligned}$ | July | Aug. | Sept. ${ }^{\text {r }}$ | Oct. ${ }^{\text {r }}$ | Nov.p | $\begin{aligned} & \hline 1999 \\ & \text { June } \end{aligned}$ | July | Aug. | Sept. ${ }^{\text {r }}$ | Oct. ${ }^{\text {r }}$ | Nov.p |
| Total |  | 934.1 | 104.8 | 104.3 | 104.8 | 105.4 | 106.7 | 109.1 | 106.4 | 105.4 | 108.0 | 108.8 | 108.3 | 108.0 |
| MAJOR INDUSTRY GROUPS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Manufacturing |  | 854.0 | 105.0 | 104.4 | 105.0 | 105.8 | 107.0 | 109.5 | 106.8 | 105.9 | 108.6 | 109.5 | 108.8 | 108.3 |
| Durable |  | 365.8 | 107.4 | 108.4 | 107.7 | 107.2 | 107.2 | 109.2 | 109.2 | 109.1 | 110.5 | 110.4 | 108.8 | 108.0 |
| Nondurable |  | 488.3 | 103.0 | 101.2 | 102.9 | 104.7 | 106.9 | 109.7 | 104.9 | 103.3 | 107.0 | 108.8 | 108.8 | 108.6 |
| Mining |  | 80.1 | 101.8 | 102.5 | 102.4 | 100.3 | 101.4 | 103.9 | 100.3 | 98.6 | 100.4 | 100.0 | 100.9 | 104.2 |
| INDUSTRY GROUPS and SERIES |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Metal mining | 10 | 18.6 | 117.0 | 114.5 | 111.6 | 109.2 | 108.4 | 114.0 | 112.2 | 112.0 | 112.7 | 108.3 | 110.8 | 113.9 |
| Iron ore | 101 | 7.3 | 119.7 | 108.6 | 100.6 | 106.5 | 111.3 | 114.1 | 112.8 | 105.1 | 101.2 | 103.3 | 115.1 | 113.6 |
| Copper ore | 102 | 6.6 | 123.9 | 128.0 | 128.8 | 118.2 | 115.9 | 122.1 | 119.2 | 125.9 | 131.6 | 119.7 | 117.6 | 122.9 |
| Coal mining | 12 | 12.7 | 95.6 | 101.1 | 98.2 | 96.8 | 98.6 | 98.0 | 91.4 | 85.1 | 90.9 | 93.2 | 94.6 | 99.3 |
| Oil and gas extraction | 13 | 36.0 | 91.9 | 90.4 | 92.9 | 90.1 | 91.6 | 93.7 | 92.5 | 90.5 | 90.3 | 90.7 | 90.9 | 91.8 |
| Crude oil and natural gas | 131 | 31.0 | 92.4 | 89.2 | 91.8 | 89.8 | 90.9 | 92.9 | 92.5 | 88.8 | 88.0 | 89.8 | 90.0 | 91.7 |
| Natural gas liquids | 132 | 3.6 | 76.5 | 86.4 | 90.2 | 78.4 | 83.4 | 81.1 | 77.4 | 87.3 | 92.3 | 80.2 | 82.8 | 80.4 |
| Stone and earth minerals | 14 | 12.8 | 109.6 | 114.3 | 116.3 | 115.2 | 117.2 | 120.2 | 111.9 | 114.7 | 117.6 | 117.9 | 117.6 | 124.6 |
| Crushed stone | 142 | 3.5 | 146.4 | 147.4 | 154.7 | 150.7 | 155.7 | 151.8 | 154.1 | 154.1 | 162.9 | 160.7 | 164.4 | 164.7 |
| Sand and gravel | 144 | 2.7 | 108.7 | 107.3 | 112.9 | 115.4 | 115.1 | 118.4 | 114.6 | 115.7 | 121.6 | 124.4 | 125.3 | 127.1 |
| Chemical and fertilizer materials | S 147 | 4.7 | 98.2 | 107.8 | 105.7 | 104.9 | 105.8 | 111.3 | 97.8 | 103.3 | 102.6 | 103.3 | 100.0 | 112.1 |
| Foods | 20 | 58.8 | 118.0 | 117.0 | 117.3 | 117.9 | 120.2 | 121.3 | 120.4 | 123.2 | 126.2 | 128.7 | 125.6 | 121.0 |
| Meat products | 201 | 10.3 | 127.7 | 126.1 | 126.8 | 127.9 | 128.9 | 133.2 | 133.3 | 135.9 | 137.7 | 139.7 | 133.3 | 131.4 |
| Dairy products | 202 | 6.8 | 107.5 | 110.2 | 107.1 | 108.0 | 109.8 | 114.2 | 113.9 | 120.3 | 116.5 | 117.1 | 111.8 | 110.4 |
| Canned and frozen food | 203 | 8.1 | 113.7 | 110.1 | 111.5 | 110.0 | 113.1 | 112.6 | 112.3 | 114.2 | 126.8 | 132.3 | 126.6 | 111.7 |
| Grain mill products | 204 | 11.4 | 141.1 | 141.0 | 141.5 | 141.4 | 143.8 | 145.4 | 140.4 | 140.9 | 144.3 | 146.0 | 150.4 | 149.1 |
| Bakery products | 205 | 3.5 | 112.5 | 112.7 | 113.0 | 115.0 | 114.4 | 116.5 | 117.3 | 122.1 | 124.6 | 127.5 | 119.4 | 113.9 |
| Sugar and confectionery | 206 | 4.0 | 107.9 | 101.9 | 105.1 | 106.3 | 112.0 | 98.0 | 103.5 | 100.1 | 101.2 | 102.0 | 114.1 | 111.8 |
| Fats and oils | 207 | 3.9 | 99.5 | 106.1 | 113.2 | 106.8 | 108.5 | 106.6 | 96.8 | 100.3 | 105.5 | 104.7 | 106.9 | 112.4 |
| Beverages | 208 | 6.1 | 106.7 | 105.8 | 105.5 | 106.3 | 109.4 | 113.3 | 112.9 | 117.5 | 119.7 | 121.3 | 115.1 | 108.9 |
| Coffee and miscellaneous | 209 | 4.7 | 108.5 | 108.1 | 106.9 | 111.2 | 109.1 | 109.9 | 112.5 | 116.7 | 117.6 | 122.1 | 114.1 | 108.3 |
| Tobacco products | 21 | 1.5 | 90.9 | 94.7 | 90.5 | 91.4 | 91.9 | 93.5 | 91.5 | 98.2 | 98.6 | 102.0 | 99.1 | 94.5 |
| Textile mill products | 22 | 31.5 | 110.6 | 112.1 | 109.5 | 109.2 | 114.6 | 118.1 | 118.7 | 111.9 | 121.2 | 119.4 | 114.3 | 115.8 |
| Fabrics | 221-4 | 11.8 | 108.7 | 107.8 | 106.6 | 104.9 | 111.3 | 116.0 | 117.0 | 107.8 | 118.3 | 115.3 | 111.1 | 113.0 |
| Knit goods | 225 | 4.1 | 124.1 | 120.3 | 126.1 | 121.2 | 121.8 | 126.2 | 136.2 | 124.7 | 143.5 | 138.2 | 125.4 | 119.5 |
| Fabric finishing | 226 | 2.5 | 105.4 | 105.8 | 104.7 | 101.0 | 108.1 | 108.6 | 110.4 | 101.4 | 106.2 | 104.8 | 106.8 | 108.7 |
| Yarn and thread | 228 | 8.3 | 101.2 | 105.9 | 94.0 | 97.2 | 102.0 | 106.7 | 110.2 | 103.1 | 107.6 | 107.9 | 98.4 | 104.3 |
| Miscellaneous textiles | 229 | 3.4 | 119.9 | 121.6 | 128.4 | 128.2 | 129.7 | 130.5 | 122.1 | 121.7 | 131.6 | 131.1 | 130.2 | 130.9 |
| Apparel products | 23 | 8.2 | 92.1 | 90.4 | 89.2 | 90.6 | 95.5 | 99.4 | 99.1 | 100.1 | 104.6 | 104.1 | 98.7 | 94.9 |
| Men's outerwear | 231,2 | 2.0 | 82.2 | 82.6 | 80.0 | 80.5 | 81.0 | 81.5 | 86.3 | 87.4 | 87.8 | 86.8 | 82.6 | 79.7 |
| Women's outerwear | 233 | 2.5 | 108.6 | 104.6 | 110.1 | 108.3 | 109.7 | 115.3 | 118.2 | 116.6 | 130.5 | 125.3 | 113.5 | 109.8 |
| Lumber and products | 24 | 19.8 | 124.3 | 125.7 | 122.6 | 121.8 | 121.2 | 120.5 | 123.5 | 123.0 | 122.6 | 122.0 | 120.1 | 120.7 |
| Lumber | 242 | 7.7 | 120.4 | 125.6 | 119.8 | 119.3 | 120.0 | 118.7 | 119.3 | 121.3 | 118.7 | 118.4 | 117.7 | 119.5 |
| Millwork and plywood | 243 | 5.6 | 128.1 | 128.0 | 127.7 | 127.9 | 124.9 | 123.7 | 127.4 | 125.3 | 127.8 | 128.3 | 124.2 | 123.6 |
| Furniture and fixtures | 25 | 6.0 | 120.1 | 121.4 | 122.8 | 123.2 | 122.7 | 123.0 | 122.3 | 120.8 | 129.1 | 128.8 | 124.5 | 122.0 |
| Household furniture | 251 | 3.2 | 117.2 | 119.2 | 119.6 | 121.1 | 119.8 | 121.4 | 119.7 | 115.0 | 124.0 | 124.3 | 121.4 | 120.1 |
| Paper and products | 26 | 113.3 | 104.4 | 106.8 | 105.0 | 103.6 | 103.6 | 105.8 | 105.0 | 107.8 | 106.9 | 105.6 | 105.8 | 106.4 |
| Wood pulp | 261 | 8.8 | 94.0 | 99.8 | 105.5 | 104.5 | 107.1 | 101.3 | 95.1 | 96.3 | 104.4 | 102.9 | 108.4 | 104.2 |
| Paper | 262 | 62.3 | 101.7 | 104.4 | 101.5 | 101.0 | 101.5 | 103.1 | 102.5 | 105.4 | 103.4 | 102.3 | 103.6 | 103.6 |
| Paperboard | 263 | 28.3 | 120.6 | 121.5 | 119.9 | 114.1 | 112.2 | 119.3 | 119.7 | 121.6 | 118.6 | 116.4 | 113.9 | 119.6 |
| Paperboard containers | 265 | 5.1 | 103.9 | 103.1 | 102.2 | 103.1 | 103.0 | 107.2 | 105.0 | 107.1 | 107.8 | 108.0 | 106.2 | 106.9 |
| Converted paper products | 267 | 8.9 | 109.7 | 113.4 | 112.6 | 108.8 | 106.1 | 109.3 | 110.1 | 115.8 | 116.5 | 113.8 | 108.6 | 109.6 |
| Printing and publishing | 27 | 17.3 | 111.5 | 109.6 | 110.6 | 110.6 | 112.8 | 116.9 | 114.9 | 120.6 | 124.5 | 123.2 | 117.3 | 113.9 |
| Newspapers | 271 | 3.6 | 99.7 | 98.6 | 100.8 | 103.3 | 99.7 | 105.4 | 103.9 | 108.9 | 111.6 | 114.1 | 102.4 | 101.8 |
| Commercial printing | 275 | 9.2 | 122.5 | 119.7 | 120.8 | 119.6 | 125.5 | 126.4 | 126.1 | 132.2 | 137.2 | 133.9 | 130.8 | 123.5 |
| Chemicals and products | 28 | 171.7 | 91.8 | 87.6 | 90.4 | 95.2 | 98.3 | 102.0 | 92.5 | 88.6 | 91.8 | 96.1 | 99.4 | 100.1 |
| Basic chemicals | 281 | 78.9 | 77.9 | 73.1 | 75.9 | 83.9 | 89.6 | 93.3 | 77.7 | 72.4 | 75.4 | 82.8 | 90.3 | 92.3 |
| Alkalies and chlorine | 2812 | 14.9 | 81.3 | 79.3 | 91.3 | 98.5 | 93.1 | 90.6 | 81.7 | 79.7 | 91.7 | 94.8 | 94.7 | 89.7 |
| Inorganic chemicals, nec | 2819 | 38.3 | 62.1 | 56.4 | 56.8 | 70.7 | 81.1 | 87.2 | 60.7 | 53.1 | 54.5 | 67.0 | 82.4 | 87.2 |
| Acid and fertilizer materials |  | 14.0 | 98.7 | 97.8 | 97.6 | 92.4 | 91.5 | 93.0 | 97.4 | 98.4 | 100.0 | 92.6 | 92.0 | 94.4 |
| Nuclear materials, nondefense |  | 24.3 | 44.0 | 35.9 | 36.6 | 59.9 | 75.9 | 84.3 | 42.5 | 30.5 | 32.0 | 54.4 | 77.6 | 83.6 |

Table 9 (continued)
ELECTRIC POWER USE: MANUFACTURING AND MINING

| Item 198 | 1987 SIC | 1992 <br> Billion <br> KWH | Index, 1992 = 100 |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Seasonally adjusted |  |  |  |  |  | Not seasonally adjusted |  |  |  |  |  |
|  |  |  | $\begin{aligned} & 1999 \\ & \text { June } \end{aligned}$ | July | Aug. | Sept. ${ }^{\text {r }}$ | Oct. ${ }^{\text {r }}$ | Nov.p | $\begin{aligned} & 1999 \\ & \text { June } \end{aligned}$ | July | Aug. | Sept. ${ }^{\text {r }}$ | Oct. ${ }^{r}$ | Nov.p |
| Chemicals and Products (cont.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Synthetic materials | 282 | 29.2 | 106.3 | 102.1 | 105.6 | 105.6 | 104.6 | 109.0 | 107.8 | 104.1 | 108.5 | 107.9 | 106.0 | 106.3 |
| Plastics materials | 2821 | 18.3 | 134.2 | 128.6 | 133.3 | 132.6 | 130.8 | 135.3 | 135.3 | 130.3 | 134.5 | 135.6 | 133.7 | 130.3 |
| Drugs and medicines | 283 | 6.7 | 125.3 | 126.4 | 132.2 | 129.5 | 130.6 | 134.6 | 134.3 | 137.3 | 145.3 | 143.3 | 135.6 | 128.0 |
| Soap and toiletries | 284 | 3.0 | 112.6 | 110.9 | 113.7 | 108.8 | 108.1 | 112.6 | 116.0 | 119.7 | 123.3 | 119.4 | 111.2 | 106.3 |
| Industrial organic chemicals | 286 | 39.2 | 110.9 | 105.2 | 100.1 | 103.2 | 102.0 | 105.8 | 109.3 | 106.9 | 103.3 | 107.7 | 105.8 | 103.4 |
| Agricultural chemicals | 287 | 9.7 | 118.2 | 116.1 | 115.0 | 117.9 | 114.4 | 115.8 | 117.6 | 115.3 | 114.9 | 116.4 | 114.3 | 115.9 |
| Petroleum products | 29 | 47.0 | 105.9 | 101.5 | 109.6 | 109.7 | 111.2 | 111.8 | 106.6 | 103.6 | 113.5 | 113.4 | 111.7 | 111.7 |
| Rubber and plastics products | - 30 | 38.0 | 128.5 | 128.9 | 129.7 | 129.5 | 129.5 | 133.0 | 133.0 | 130.9 | 134.2 | 135.3 | 132.6 | 131.6 |
| Tires | 301 | 4.3 | 115.4 | 112.2 | 115.2 | 112.7 | 114.3 | 118.0 | 119.2 | 115.2 | 122.5 | 120.7 | 118.8 | 116.5 |
| Rubber products, nec | 306 | 3.2 | 115.7 | 120.1 | 117.5 | 119.9 | 115.7 | 122.0 | 118.8 | 119.9 | 123.6 | 125.3 | 119.3 | 120.6 |
| Plastics products, nec | 308 | 28.9 | 133.8 | 134.4 | 135.1 | 135.0 | 135.5 | 138.5 | 138.7 | 136.5 | 138.8 | 140.5 | 138.1 | 137.1 |
| Leather and products | 31 | 1.0 | 75.8 | 75.5 | 72.0 | 73.4 | 74.0 | 74.9 | 79.1 | 77.3 | 77.9 | 79.0 | 75.6 | 72.9 |
| Shoes | 314 | . 3 | 72.4 | 70.1 | 65.6 | 65.2 | 67.3 | 72.5 | 76.2 | 74.0 | 73.3 | 72.7 | 69.1 | 69.7 |
| Stone, clay, \& glass products | S 32 | 33.8 | 111.8 | 114.3 | 112.7 | 112.8 | 111.2 | 113.0 | 113.9 | 115.4 | 115.3 | 115.4 | 114.5 | 114.6 |
| Flat glass | 321 | 1.5 | 111.8 | 111.4 | 113.8 | 112.8 | 112.8 | 115.2 | 114.0 | 113.4 | 113.8 | 116.3 | 113.5 | 116.4 |
| Pressed and blown glass | 322 | 7.3 | 107.3 | 107.5 | 107.0 | 107.9 | 106.2 | 107.9 | 108.2 | 107.7 | 108.8 | 110.4 | 108.9 | 108.5 |
| Cement | 324 | 9.6 | 110.1 | 116.6 | 109.1 | 110.8 | 106.6 | 108.8 | 112.8 | 118.8 | 113.2 | 112.5 | 111.6 | 111.9 |
| Structural clay products | 325 | 1.4 | 100.0 | 101.5 | 102.3 | 100.1 | 100.0 | 100.6 | 101.9 | 103.0 | 103.7 | 102.6 | 99.9 | 101.0 |
| Concrete products | 327 | 4.7 | 125.4 | 128.7 | 129.5 | 130.4 | 132.0 | 132.7 | 127.6 | 129.1 | 131.9 | 134.0 | 134.8 | 133.9 |
| Primary metals | 33 | 150.9 | 101.1 | 100.7 | 99.4 | 99.5 | 98.8 | 101.0 | 101.2 | 98.9 | 98.8 | 98.9 | 99.8 | 100.2 |
| Basic steel and mill products | 331 | 57.0 | 110.7 | 109.8 | 109.1 | 109.6 | 108.3 | 110.9 | 110.2 | 105.5 | 107.7 | 108.6 | 110.0 | 109.9 |
| Iron and steel foundries | 332 | 9.9 | 122.5 | 123.2 | 118.3 | 117.4 | 116.0 | 114.3 | 122.6 | 116.5 | 113.0 | 119.7 | 119.5 | 117.2 |
| Primary nonferrous metals | 333 | 66.2 | 80.2 | 79.0 | 77.9 | 78.7 | 78.6 | 81.1 | 81.0 | 81.1 | 79.5 | 77.2 | 78.4 | 79.0 |
| Aluminum | 3334 | 60.3 | 73.4 | 72.1 | 70.5 | 72.2 | 72.3 | 72.4 | 73.5 | 73.4 | 71.6 | 71.3 | 71.7 | 71.7 |
| Nonferrous foundries | 336 | 2.7 | 140.6 | 143.7 | 137.2 | 136.9 | 134.9 | 136.9 | 139.8 | 136.5 | 135.3 | 140.7 | 138.5 | 140.4 |
| Fabricated metal products | 34 | 31.4 | 116.5 | 116.3 | 116.9 | 116.7 | 116.6 | 119.4 | 118.4 | 117.6 | 120.2 | 120.9 | 118.6 | 117.9 |
| Metal containers | 341 | 2.9 | 102.3 | 103.2 | 106.1 | 105.3 | 105.8 | 106.1 | 104.5 | 105.7 | 107.2 | 106.9 | 104.3 | 104.4 |
| Hardware, tools, and cutlery | 342 | 2.7 | 110.8 | 110.4 | 113.7 | 116.1 | 115.1 | 117.7 | 113.6 | 112.5 | 118.6 | 122.9 | 118.1 | 116.2 |
| Structural metal products | 344 | 5.4 | 119.3 | 117.0 | 121.0 | 122.1 | 123.5 | 124.5 | 119.3 | 119.2 | 124.9 | 125.8 | 124.5 | 122.7 |
| Fasteners | 345 | 1.7 | 119.1 | 119.4 | 116.4 | 120.8 | 119.4 | 125.1 | 121.9 | 121.7 | 121.3 | 127.2 | 122.7 | 123.1 |
| Metal stampings | 346 | 6.7 | 130.7 | 133.9 | 130.7 | 128.4 | 127.9 | 132.1 | 132.8 | 130.6 | 132.5 | 131.8 | 132.2 | 130.8 |
| Industrialmachinery |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| and equipment | 35 | 33.2 | 110.2 | 111.4 | 111.4 | 110.3 | 112.1 | 113.7 | 113.7 | 116.5 | 119.1 | 118.0 | 112.9 | 110.7 |
| Engines and turbines | 351 | 2.6 | 110.3 | 113.9 | 108.4 | 103.2 | 105.0 | 106.3 | 114.4 | 109.5 | 113.0 | 108.5 | 104.9 | 107.8 |
| Farm | 352 | 2.0 | 91.8 | 98.4 | 96.4 | 90.6 | 87.9 | 86.6 | 89.4 | 94.9 | 95.4 | 92.1 | 86.1 | 85.9 |
| Construction and allied | 353 | 3.8 | 109.9 | 111.0 | 111.9 | 114.8 | 114.7 | 112.5 | 112.4 | 116.6 | 119.5 | 121.4 | 115.7 | 111.0 |
| Metalworking | 354 | 4.1 | 122.7 | 123.2 | 123.5 | 121.7 | 123.4 | 125.4 | 125.7 | 128.9 | 132.5 | 131.0 | 124.7 | 120.6 |
| Special industry | 355 | 2.4 | 119.4 | 119.0 | 126.7 | 122.2 | 123.9 | 128.9 | 122.1 | 125.4 | 136.6 | 132.5 | 125.5 | 123.1 |
| General industrial | 356 | 5.2 | 116.1 | 116.4 | 116.9 | 116.1 | 119.2 | 121.5 | 119.3 | 120.0 | 124.1 | 123.3 | 120.0 | 118.0 |
| Computer and office equip. | 357 | 5.1 | 86.0 | 88.0 | 85.3 | 84.5 | 86.0 | 86.1 | 89.4 | 95.1 | 92.1 | 91.6 | 87.1 | 84.5 |
| Service industry machines | 358 | 3.5 | 109.1 | 110.9 | 113.1 | 112.0 | 113.8 | 117.5 | 115.8 | 117.9 | 121.8 | 118.7 | 114.2 | 113.4 |
| Electrical machinery | 36 | 33.0 | 106.5 | 106.7 | 108.0 | 107.0 | 107.2 | 109.3 | 109.7 | 111.7 | 114.4 | 113.8 | 109.5 | 106.5 |
| Electrical distribution | 361 | 1.3 | 97.6 | 94.5 | 93.5 | 93.9 | 96.1 | 97.3 | 99.0 | 100.9 | 102.7 | 103.7 | 97.0 | 93.9 |
| Electrical industrial | 362 | 4.0 | 83.4 | 83.9 | 86.5 | 85.6 | 83.8 | 83.6 | 85.6 | 87.4 | 89.3 | 88.5 | 83.9 | 81.5 |
| Household appliances | 363 | 2.4 | 98.5 | 97.4 | 91.2 | 93.6 | 93.9 | 98.3 | 102.2 | 101.7 | 97.0 | 97.5 | 96.0 | 93.5 |
| Lighting and wiring products | 364 | 3.0 | 123.2 | 121.1 | 126.0 | 120.0 | 119.2 | 123.2 | 125.6 | 123.5 | 128.0 | 125.5 | 122.1 | 122.3 |
| TV and radio sets | 365 | . 8 | 117.6 | 121.5 | 117.5 | 122.1 | 119.8 | 120.9 | 120.9 | 124.9 | 126.3 | 128.9 | 124.4 | 118.3 |
| Communication equipment | 366 | 3.3 | 100.9 | 103.4 | 103.8 | 100.9 | 107.1 | 108.1 | 105.0 | 112.6 | 112.3 | 111.0 | 108.4 | 103.6 |
| Electronic components | 367 | 14.5 | 115.1 | 114.7 | 118.5 | 116.8 | 116.5 | 118.4 | 118.9 | 120.6 | 125.5 | 124.1 | 118.8 | 115.2 |
| Transportation equipment | 37 | 39.6 | 108.1 | 113.1 | 113.0 | 110.5 | 112.0 | 113.7 | 112.2 | 113.1 | 118.1 | 117.3 | 114.3 | 112.2 |
| Motor vehicles and parts | 371 | 22.8 | 118.7 | 127.4 | 126.8 | 122.8 | 125.1 | 126.0 | 124.5 | 125.3 | 131.9 | 130.6 | 128.0 | 124.5 |
| Aircraft and parts | 372 | 10.7 | 92.5 | 92.7 | 91.4 | 89.9 | 90.4 | 95.4 | 94.2 | 95.5 | 96.8 | 95.9 | 92.4 | 93.7 |
| Ships and boats | 373 | 2.2 | 94.2 | 93.9 | 108.1 | 110.5 | 112.6 | 105.9 | 96.7 | 94.9 | 108.4 | 111.1 | 110.3 | 104.2 |
| Instruments | 38 | 13.7 | 104.9 | 105.2 | 104.4 | 104.1 | 104.3 | 108.4 | 109.1 | 113.5 | 113.5 | 112.0 | 106.4 | 103.8 |
| Photographic equip. \& supplies | 386 | 1.8 | 95.6 | 91.5 | 89.7 | 86.7 | 86.7 | 90.1 | 98.5 | 99.0 | 95.7 | 89.9 | 86.9 | 85.2 |
| Miscellaneous manufactures | 39 | 4.5 | 135.9 | 137.3 | 130.8 | 138.3 | 141.2 | 145.4 | 142.3 | 147.5 | 143.3 | 148.8 | 142.9 | 142.8 |
| SUPPLEMENTARY GROUPS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total, excluding nuclear nondefens | nse | 909.8 | 107.6 | 107.4 | 107.9 | 107.5 | 108.1 | 110.2 | 109.3 | 108.8 | 111.5 | 111.3 | 109.6 | 109.1 |
| Utility sales to industry |  | 835.3 | 104.9 | 104.8 | 105.3 | 106.1 | 107.3 | 109.4 | 106.7 | 105.4 | 108.2 | 109.6 | 108.9 | 108.6 |
| Industrial generation |  | 98.8 | 105.2 | 103.3 | 102.9 | 98.7 | 96.0 | 100.5 | 102.2 | 105.2 | 105.1 | 97.3 | 98.8 | 99.9 |

## Explanatory Note

The statistical release of Industrial Production and Capacity Utilization reports measures of output, capacity, and capacity utilization in manufacturing, mining, and the electric and gas utilities industries. The release also includes monthly indexes on the use of electric power in manufacturing and mining. Files containing data in the release and historical data are available under statistical releases at http://www.federalreserve.gov, the Board's World Wide Web site. For paid access to these files through the Department of Commerce's Economic Bulletin Board or World Wide Web site, please call STAT-USA at 1-800-STAT-USA or (202) 452-1986. Diskettes containing historical data and the data published in this release are available from the Board of Governors of the Federal Reserve System, Publications Services, (202) 452-3245.

## Industrial Production

Coverage. The industrial production (IP) index measures output in the manufacturing, mining, and electric and gas utilities industries; the reference period for the index is 1992 . For the period since 1992, the total IP index has been constructed from 267 individual series based on the 1987 Standard Industrial Classification (SIC). These individual series are classified in two ways: (1) market groups (shown in table 1), such as consumer goods, equipment, intermediate products, and materials; and (2) industry groups (shown in tables 2 and 6), such as two-digit SIC industries and major aggregates of these industries-for example, durable and nondurable manufacturing, mining, and utilities.
Market groups. For purposes of analysis, the individual IP series are grouped into final products, intermediate products, and materials. Final products are assumed to be purchased by consumers, businesses, or government for final use. Intermediate products are expected to become inputs in nonindustrial sectors, such as construction, agriculture, and services. Materials are industrial output requiring further processing within the industrial sector. Total products comprise final and intermediate products, and final products are divided into consumer goods and equipment.
Timing. The first estimate of output for a month is published around the 15 th of the following month. The estimate is preliminary (denoted by the superscript " $p$ " in tables) and subject to revision in each of the subsequent three months as new source data become available. (Revised estimates are denoted by the superscript "r" in tables.) After the fourth month, indexes are not revised further until the time of an annual revision or a benchmark revision. The last three benchmark revisions were published in 1990, 1985, and 1976.
Source data. In annual or benchmark revisions, the individual IP indexes are constructed from a variety of source data, such as the quinquennial Censuses of Manufactures and Mineral Industries and the Annual Survey of Manufactures, prepared by the Bureau of the Census; the Minerals Yearbook, prepared by the Department of the Interior; and publications of the Department of Energy. On a monthly basis, the individual indexes of industrial production are constructed from two main types of source data: (1) output measured in physical units and (2) data on inputs to the production process, from which output is inferred. Data on physical products, such as tons of steel or barrels of oil, are obtained from private trade associations as well as from government agencies including those listed above; data of this type are used to estimate monthly IP where possible and appropriate. When suitable data on physical product are unavailable, estimates of output are based on either production-worker hours or electric power use by industry. Data on hours worked by production workers are collected in the monthly establishment survey conducted by the Bureau of Labor Statistics. The data on electric power use are described below. The factors used to convert inputs into estimates of production are based on historical relationships between the inputs and the comprehensive data used to benchmark the IP indexes; these factors also may be influenced by technological or cyclical developments. Especially for the first and second estimates for a given month, the available source data are limited and subject to revision.
Weights. In the index, series that measure the output of an individual industry are weighted according to their proportion in the total value-added output of all industries. The industrial production index, which extends back to 1919, is built as an annually weighted chain-type index since 1977. The components of IP are combined using estimates of value added per unit of output. For months from January to June, the weights are drawn from the year containing the month being estimated and the preceding year; for months from July to December, the weights are drawn from the current and following year. The IP proportions shown in column 1 of tables 1A, 2A, and 6 are estimates of the industries' relative contributions to overall growth in the following year. For example, a 1 percent increase in durable goods manufacturing in 1997 would account for an increase in total IP of nearly $1 / 2$ percent.
Seasonaladjustment. Individual series are seasonally adjusted by the X-11 ARIMA method, developed at Statistics Canada. For series based on production-worker hours, the current seasonal factors were estimated with data through October 1998; for other series, the factors were estimated with data through at least June 1998. Series are preadjusted for the effects of holidays or the business cycle where appropriate. For the data since 1977, all seasonally adjusted aggregate indexes are calculated by aggregating the seasonally adjusted indexes of the individual series.

Reliability. The average revision to the level of the total IP index, without regard to sign, between the first and the fourth estimates was 0.28 percent during the 1987-97 period. The average revision to the percent change in total IP, without regard to sign,
from the first to the fourth estimates was 0.21 percentage point during the 1987-97 period. In most cases (about 83 percent), the direction of change in output indicated by the first estimate for a given month is the same as that shown by the fourth estimate.

Rounding. The published percent changes are calculated from unrounded indexes, and may not be the same as percent changes calculated from the rounded indexes shown in the release.

## Capacity Utilization

Definition. Capacity utilization is calculated for the manufacturing, mining, and electric and gas utilities industries. For a given industry, the utilization rate is equal to an output index divided by a capacity index. Output is measured by seasonally adjusted indexes of industrial production. The capacity indexes attempt to capture the concept of sustainable practical capacity, which is defined as the greatest level of output that a plant can maintain within the framework of a realistic work schedule, taking account of normal downtime, and assuming sufficient availability of inputs to operate the machinery and equipment in place. The 76 individual capacity indexes are based on a variety of data, including capacity data measured in physical units compiled by trade associations, surveys of utilization rates and investment, and estimates of growth of the capital input.

Groups. Estimates of capacity and utilization are available for a variety of groups, including primary and advanced processing industries within manufacturing, durable and nondurable manufacturing, total manufacturing, mining, utilities, and total industry. Component industries of the primary and advanced processing groups within manufacturing are listed in the note on tables 2 and 3 of the release.

Weights. Although each utilization rate is the result of dividing an IP series by a corresponding capacity index, aggregate utilization rates are equivalent to combinations of individual utilization rates aggregated with proportions that reflect current capacity levels of output valued in current-period value added per unit of actual output. The implied proportions of individual industry operating rates in the rate for total industry for the most recent year are shown in the first column of table 3 .

Perspective. The historical highs and lows in capacity utilization shown in the tables above are specific to each series and did not all occur in the same month. Industrial plants usually operate at capacity utilization rates that are well below 100 percent: none of the broad aggregates has ever reached 100 percent. For total industry and total manufacturing, utilization rates have exceeded 90 percent only in wartime.

## Electric Power

Data on electric power (expressed in kilowatt hours) are collected by the Federal Reserve District Banks from electric utilities and also from manufacturing and mining establishments that generate electric power for their own use (cogenerators). The indexes of power use shown in table 9 are sums of kilowatt hours used by an industry or industry group expressed as a percentage of that industry's or group's usage in 1992. The first column of the table shows, for reference, electric power use in billions of kilowatt hours as reported by manufacturing and mining industries in the 1992 censuses of those industries. The supplementary group, "Total, less nuclear nondefense," is shown separately because the value-added proportion for the nondefense nuclear material series (part of SIC 2819) in total IP is considerably smaller than its share of total electric power use. Excluding this component from total power use facilitates comparisons with total IP.

## References

The annual revision published on November 24, 1998 is described more completely in the Federal Reserve Bulletin, vol. 85 (January 1999).

A description of the aggregation methods for industrial production and capacity utilization is included in an article in the Federal Reserve Bulletin, vol. 83 (February 1997), pp. 67-92. Industrial Production-1986 Edition contains a more detailed description of the other methods used to compile the industrial production index, plus a history of its development, a glossary of terms, and a bibliography. To obtain Industrial Production-1986 Edition (\$9.00 per copy), write to Board of Governors of the Federal Reserve System, Publications Services, Washington, DC 20551. The major revisions to the IP indexes and capacity utilization since 1990 have been described in the Federal Reserve Bulletin (April 1990, June 1990, June 1993, March 1994, January 1995, and January 1996, February 1997, February 1998, January 1999). The basic methodology used to estimate capacity and utilization is discussed in the June 1990 Federal Reserve Bulletin.

## Release Schedule for 2000

At 9:15 a.m. on:
January 14, February 15, March 15, April 14, May 15, June 15, July 14, August 15, September 15, October 17, November 15, and December 15


[^0]:    Note-Percent changes shown in the first and last columns are based on seasonally adjusted data

    1. Semiconductors include related electronic components.
[^1]:    p. Preliminary estimate for current year.

[^2]:    1. Quarterly percent changes are at annual rates. Annual percent changes are calculated from annual averages
[^3]:    1. The IP proportion data are estimates of the industries' relative contributions to overall IP growth in the following year.
