

FEDERAL RESERVE statistical release



G.17 (419)

For release at 9:15 a.m. (EDT)
August 14, 1998

INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION

Industrial production declined another 0.6 percent in July after a drop of 1.1 percent in June that is larger than previously estimated. Some of the downward revision for June was the result of more complete information on production losses associated with strikes at key General Motors parts plants, which began in early June and were settled in late July. Motor vehicle assemblies dropped from a seasonally adjusted annual rate of 12.4 million units in May, to 8.3 million units in July; output of motor vehicle parts also contracted sharply. Excluding motor vehicles and parts, industrial production edged up in July after having declined 0.4 percent in June; included in this special aggregate are industries, such as primary and fabricated metals and tires, that supply the automobile industry and were affected by the shutdowns. At 126.8 percent of its 1992 average, industrial production in July was 1.8 percent higher than it was in July 1997; excluding the output of motor vehicles and parts, the twelve-month increase was 3.0 percent. From May to July, capacity utilization in manufacturing, mining, and electric and gas utilities dropped 1.9 percentage points, to 80.5 percent.

(over)

INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION: SUMMARY

Seasonally adjusted

| Industrial Production | Index, 1992=100 | | | | Percent change | | | | July 97 to July 98 |
|-------------------------------|------------------------|------------------|-------------------|-------------------|------------------------|------------------|-------------------|-------------------|--------------------|
| | 1998 Apr. ^r | May ^r | June ^r | July ^p | 1998 Apr. ^r | May ^r | June ^r | July ^p | |
| Total index | 128.4 | 128.9 | 127.5 | 126.8 | .3 | .4 | -1.1 | -6 | 1.8 |
| Previous estimates | 128.5 | 128.9 | 128.1 | | .4 | .3 | -6 | | |
| Major market groups: | | | | | | | | | |
| Products, total | 121.8 | 122.3 | 121.3 | 120.4 | .4 | .5 | -.9 | -.7 | 2.0 |
| Consumer goods | 116.5 | 117.0 | 115.3 | 114.3 | .4 | .5 | -1.5 | -.9 | .3 |
| Business equipment | 150.2 | 150.3 | 150.8 | 149.4 | 1.0 | .0 | .3 | -.9 | 5.6 |
| Construction supplies | 124.7 | 126.1 | 125.7 | 126.1 | .4 | 1.1 | -.3 | .3 | 4.0 |
| Materials | 139.1 | 139.6 | 137.6 | 137.0 | .3 | .4 | -1.4 | -.4 | 1.5 |
| Major industry groups: | | | | | | | | | |
| Manufacturing | 131.6 | 131.7 | 130.2 | 129.3 | .6 | .1 | -1.2 | -.7 | 1.8 |
| Durable | 149.7 | 150.2 | 147.9 | 146.2 | .7 | .4 | -1.5 | -1.2 | 2.7 |
| Nondurable | 113.2 | 113.0 | 112.1 | 111.9 | .5 | -.2 | -.7 | -.2 | .9 |
| Mining | 107.4 | 107.7 | 105.7 | 106.1 | -.5 | .2 | -1.9 | .4 | -.4 |
| Utilities | 111.8 | 116.8 | 117.5 | 117.4 | -2.2 | 4.5 | .6 | .0 | 3.2 |
| Capacity Utilization | Percent of capacity | | | | | | | | Capacity growth |
| | Average 1967-97 | 1982 Low | 1988-89 High | 1997 July | 1998 Apr. ^r | May ^r | June ^r | July ^p | July 97 to July 98 |
| Total industry | 82.1 | 71.1 | 85.4 | 82.6 | 82.4 | 82.4 | 81.2 | 80.5 | 4.5 |
| Previous estimates | | | | | 82.4 | 82.4 | 81.6 | | |
| Manufacturing | 81.1 | 69.0 | 85.7 | 81.5 | 81.4 | 81.1 | 79.9 | 79.0 | 5.1 |
| Advanced processing | 80.5 | 70.4 | 84.2 | 79.6 | 79.6 | 79.5 | 78.0 | 76.9 | 6.0 |
| Primary processing | 82.4 | 66.2 | 88.9 | 86.0 | 85.4 | 85.0 | 84.1 | 83.6 | 3.2 |
| Mining | 87.5 | 80.3 | 88.0 | 90.3 | 90.6 | 90.8 | 89.0 | 89.3 | .7 |
| Utilities | 87.3 | 75.9 | 92.6 | 89.9 | 87.6 | 91.4 | 91.9 | 91.8 | 1.1 |

Market Groups

The output of consumer goods, which declined 0.9 percent in July, reflected the drop in motor vehicles. In other categories of consumer goods, the production of appliances and air conditioners rebounded from a dip, and the output of home electronics continued to advance. The production of consumer nondurables eased slightly further after a loss in June. Within this group, the output of nonenergy products, which includes foods, clothing, chemical products, and paper products, has been weak, on balance, over the past few months.

The production of business equipment fell 0.9 percent, largely because of the drop in business vehicles. The output of industrial equipment declined after a large gain in June. Led by gains in computers and farm machinery, the production of information processing and other equipment advanced again.

The output of construction supplies rose 0.3 percent and was 4 percent above the level last July. The production of materials, which had declined 1.4 percent in June, eased another 0.4 percent. The weakening was most evident in durable goods materials used to make motor vehicles; the output of consumer durable parts fell another 5-1/2 percent after having declined nearly 10 percent in June. In addition, basic metals fell for a third month. The output index for nondurable materials eased for a third month, with widespread weakness in textile, paper, and chemical materials. Energy materials rebounded 1.0 percent from a decline of the same size in June.

Industry Groups

Manufacturing output fell 0.7 percent in July, having declined 1.2 percent in June; the production of motor vehicles and parts fell about 15 percent in each month, and the output of primary and fabricated metals weakened as well. The output of most other durable goods industries, such as computers, aircraft, instruments, and lumber, advanced in July. The production of nondurables eased for a third month; it has fallen about 1 percent since April, with declines in the output of paper and products, foods, apparel, and leather and products. In July, mining recouped a bit of its June drop while the output at utilities was flat.

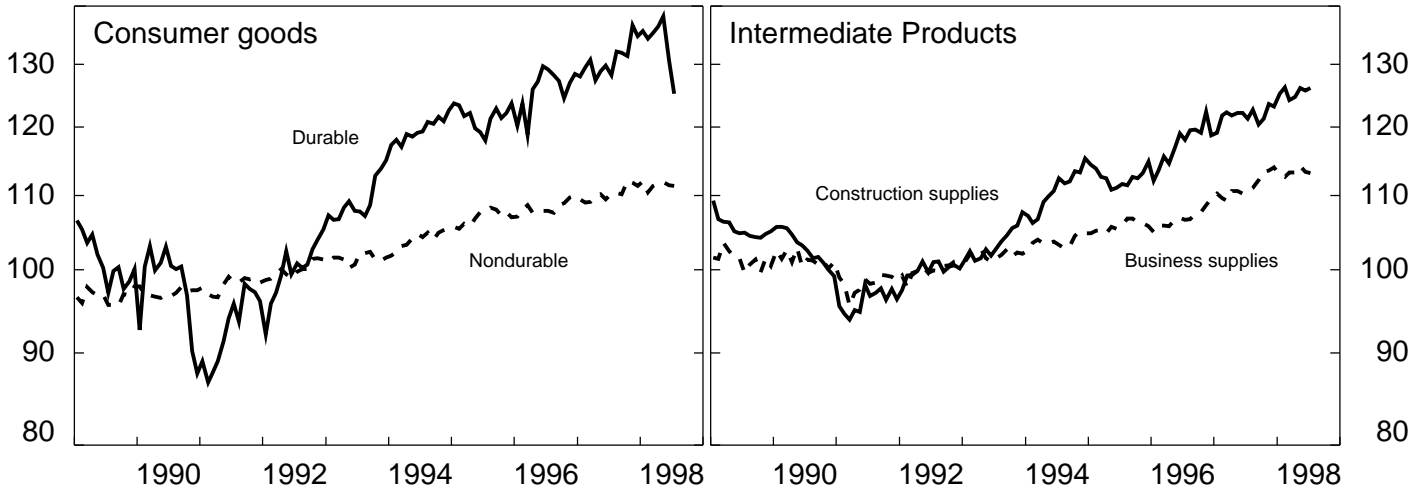
The factory operating rate fell 0.9 percentage point, to 79.0 percent, and was more than 2 percentage points below the level in May. Much of this drop-off reflects the effects of the strike-induced plunge in the output of motor vehicles and related parts and materials. However, the operating rates in miscellaneous manufactures, paper and products, and some other nondurable industries have also moved lower in recent months, as has the rate for oil and gas well drilling. Utilization rates remained relatively high for petroleum refining and electric utilities.

Industrial Production

(July data, seasonally adjusted)

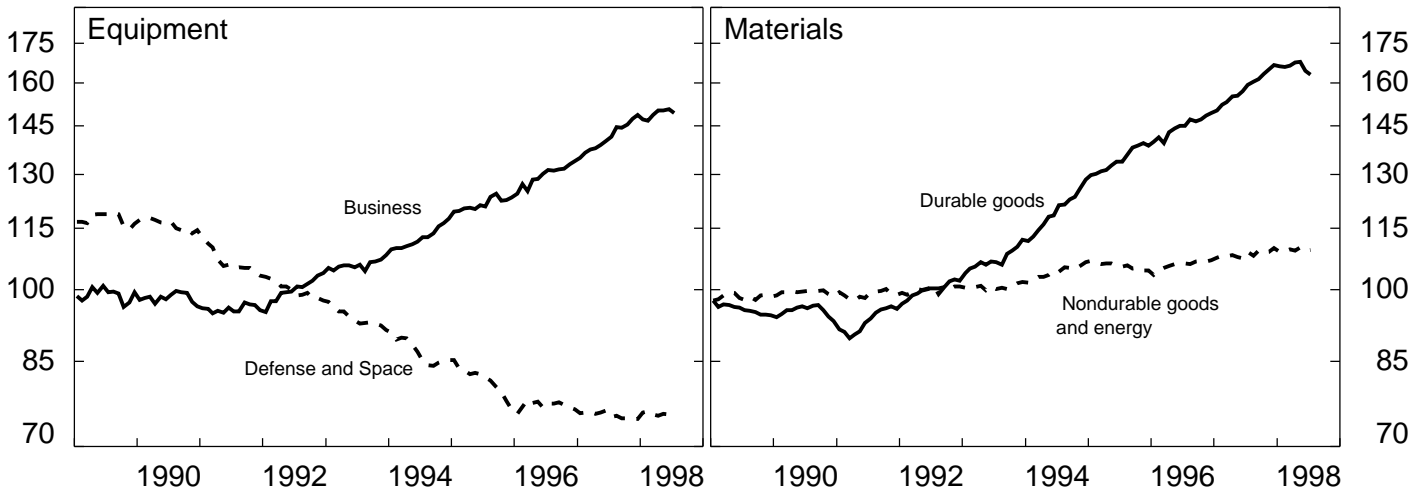
Ratio scale, 1992 = 100

Ratio scale, 1992 = 100



Ratio scale, 1992 = 100

Ratio scale, 1992 = 100



Capacity Utilization

Percent of capacity

Percent of capacity

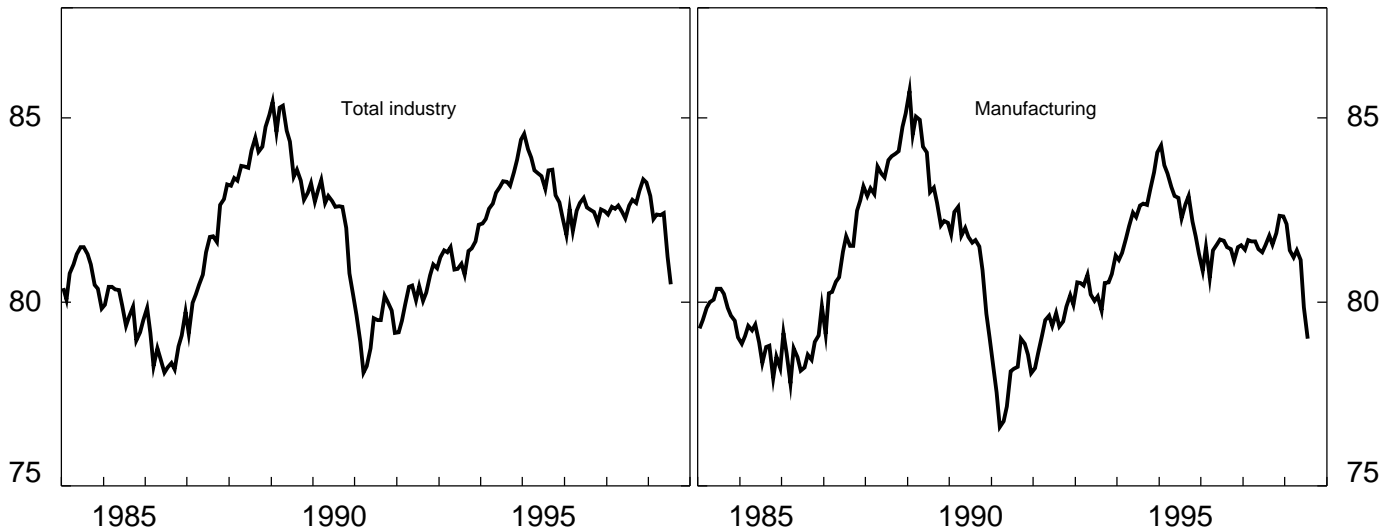


Table 1A
INDUSTRIAL PRODUCTION: MARKET GROUPS

| Item | 1997 IP Proportion ¹ | Index, 1992=100 | | | | | | | | | | | |
|--------------------------------------|---------------------------------------|---------------------|-------|-------------------|------------------|-------------------|-------------------|-------------------------|-------|-------------------|------------------|-------------------|-------------------|
| | | Seasonally Adjusted | | | | | | Not seasonally adjusted | | | | | |
| | | 1998 Feb. | Mar. | Apr. ^r | May ^f | June ^e | July ^p | 1998 Feb. | Mar. | Apr. ^r | May ^f | June ^e | July ^p |
| Total index | 100.00 | 127.3 | 128.0 | 128.4 | 128.9 | 127.5 | 126.8 | 127.2 | 127.6 | 126.0 | 127.2 | 129.4 | 125.7 |
| Products, total | 59.88 | 120.6 | 121.3 | 121.8 | 122.3 | 121.3 | 120.4 | 119.6 | 120.1 | 118.6 | 119.9 | 123.3 | 120.3 |
| Final products | 45.07 | 121.5 | 122.6 | 123.2 | 123.5 | 122.3 | 121.2 | 121.9 | 122.6 | 120.1 | 121.1 | 124.1 | 119.8 |
| Consumer goods | 28.08 | 115.1 | 116.0 | 116.5 | 117.0 | 115.3 | 114.3 | 115.0 | 115.7 | 112.9 | 113.5 | 116.7 | 113.3 |
| Durable | 5.82 | 134.3 | 135.2 | 136.3 | 138.1 | 130.6 | 125.2 | 139.5 | 142.4 | 138.9 | 140.0 | 133.0 | 113.1 |
| Automotive products | 2.56 | 131.0 | 132.4 | 134.5 | 136.7 | 122.1 | 108.5 | 141.4 | 146.6 | 139.7 | 142.8 | 124.5 | 89.8 |
| Autos and trucks | 1.57 | 137.2 | 137.7 | 140.2 | 142.4 | 117.5 | 93.9 | 155.1 | 159.6 | 147.7 | 154.0 | 120.3 | 62.2 |
| Autos | .64 | 105.7 | 107.4 | 108.3 | 109.3 | 94.6 | 79.3 | 118.3 | 121.6 | 112.5 | 119.0 | 95.5 | 55.1 |
| Trucks | .93 | 172.7 | 172.0 | 176.0 | 179.4 | 144.0 | 111.6 | 192.7 | 198.6 | 183.6 | 190.0 | 146.0 | 70.1 |
| Auto parts and allied goods | .99 | 121.0 | 123.7 | 125.3 | 127.5 | 127.3 | 127.3 | 120.7 | 126.8 | 126.9 | 125.5 | 129.0 | 125.7 |
| Other durable goods | 3.26 | 136.9 | 137.4 | 137.8 | 139.2 | 137.4 | 138.8 | 138.1 | 139.1 | 138.3 | 137.8 | 139.7 | 132.2 |
| Appliances and electronics | .85 | 188.6 | 192.5 | 193.8 | 193.6 | 192.5 | 201.8 | 195.4 | 196.2 | 193.8 | 193.3 | 201.3 | 191.2 |
| Appliances and air cond. | .47 | 135.0 | 132.8 | 133.0 | 137.1 | 129.5 | 136.6 | 146.8 | 142.5 | 137.7 | 139.1 | 135.8 | 118.7 |
| Home electronics | .38 | 269.1 | 286.6 | 290.1 | 279.5 | 293.7 | 305.6 | 263.2 | 275.8 | 279.3 | 274.4 | 307.1 | 322.6 |
| Carpeting and furniture | .82 | 117.7 | 116.5 | 117.1 | 122.3 | 117.4 | 119.2 | 118.0 | 117.9 | 122.2 | 116.9 | 119.4 | 115.8 |
| Miscellaneous | 1.60 | 120.7 | 120.8 | 120.7 | 120.6 | 120.2 | 118.9 | 119.9 | 121.5 | 118.8 | 120.8 | 120.0 | 111.8 |
| Nondurable | 22.26 | 110.4 | 111.3 | 111.6 | 111.9 | 111.4 | 111.4 | 109.2 | 109.4 | 106.7 | 107.2 | 112.6 | 112.8 |
| Nonenergy | 18.98 | 111.4 | 111.1 | 111.9 | 111.6 | 110.7 | 110.6 | 106.9 | 107.5 | 107.5 | 109.1 | 114.6 | 113.1 |
| Foods and tobacco | 9.74 | 111.8 | 111.3 | 111.9 | 112.0 | 110.3 | 110.1 | 106.7 | 107.7 | 107.2 | 109.2 | 114.8 | 110.7 |
| Clothing | 1.81 | 93.5 | 94.7 | 94.8 | 93.6 | 93.3 | 93.1 | 91.1 | 92.4 | 92.1 | 94.9 | 98.2 | 93.1 |
| Chemical products | 4.53 | 121.8 | 122.2 | 124.1 | 123.5 | 124.0 | 123.4 | 114.4 | 115.1 | 116.1 | 118.5 | 129.2 | 134.1 |
| Paper products | 2.90 | 107.8 | 106.2 | 106.7 | 105.8 | 105.2 | 106.4 | 107.7 | 106.9 | 107.2 | 105.4 | 104.6 | 105.4 |
| Energy products | 3.28 | 104.6 | 112.6 | 110.2 | 114.2 | 116.1 | 116.1 | 122.8 | 120.3 | 102.4 | 96.3 | 101.1 | 110.9 |
| Fuels | 1.07 | 110.0 | 111.3 | 111.7 | 111.0 | 111.0 | 113.1 | 104.6 | 105.9 | 111.1 | 112.3 | 113.0 | 114.2 |
| Utilities | 2.21 | 101.5 | 112.8 | 109.0 | 115.3 | 118.1 | 117.1 | 131.3 | 126.9 | 97.5 | 87.9 | 94.7 | 108.8 |
| Equipment, total | 17.00 | 133.1 | 134.3 | 135.0 | 135.1 | 135.0 | 133.7 | 134.0 | 134.8 | 133.0 | 134.7 | 137.5 | 131.2 |
| Business equipment | 13.91 | 146.8 | 148.7 | 150.2 | 150.3 | 150.8 | 149.4 | 148.4 | 149.9 | 148.0 | 150.1 | 154.1 | 146.6 |
| Information processing & related | 5.28 | 178.0 | 179.7 | 182.9 | 183.8 | 186.1 | 188.3 | 174.7 | 175.3 | 177.7 | 180.2 | 190.7 | 194.7 |
| Computer and office | .96 | 476.1 | 499.2 | 518.2 | 531.5 | 550.1 | 567.1 | 460.5 | 468.7 | 501.8 | 517.2 | 578.2 | 619.6 |
| Industrial | 4.51 | 134.2 | 137.4 | 137.6 | 136.3 | 139.6 | 138.4 | 135.3 | 138.2 | 134.7 | 135.7 | 142.7 | 136.0 |
| Transit | 2.68 | 117.9 | 117.8 | 118.9 | 120.5 | 114.1 | 106.2 | 125.3 | 126.3 | 121.5 | 125.8 | 116.2 | 95.2 |
| Autos and trucks | 1.32 | 116.4 | 117.1 | 119.4 | 120.2 | 105.5 | 87.4 | 131.0 | 132.7 | 126.5 | 131.0 | 107.3 | 65.6 |
| Other | 1.44 | 132.7 | 135.2 | 136.2 | 134.7 | 136.8 | 140.8 | 136.2 | 136.6 | 134.4 | 134.1 | 139.0 | 130.6 |
| Defense and space equipment | 2.02 | 75.9 | 75.3 | 75.1 | 75.4 | 75.3 | 75.2 | 76.1 | 75.6 | 73.4 | 74.5 | 74.9 | 73.7 |
| Oil and gas well drilling | .86 | 158.9 | 158.6 | 150.5 | 148.1 | 137.5 | 132.1 | 154.6 | 147.9 | 147.7 | 146.4 | 137.8 | 134.9 |
| Manufactured homes | .21 | 148.6 | 145.4 | 146.9 | 148.6 | 149.1 | 146.8 | 142.1 | 147.8 | 154.6 | 153.0 | 161.8 | 131.9 |
| Intermediate products | 14.80 | 117.6 | 117.3 | 117.5 | 118.6 | 117.9 | 117.9 | 112.7 | 112.7 | 113.9 | 116.0 | 120.8 | 121.5 |
| Construction supplies | 5.74 | 126.2 | 124.2 | 124.7 | 126.1 | 125.7 | 126.1 | 118.7 | 119.2 | 121.6 | 126.8 | 132.6 | 129.1 |
| Business supplies | 9.07 | 112.6 | 113.2 | 113.2 | 114.2 | 113.3 | 113.1 | 109.2 | 108.9 | 109.3 | 109.6 | 113.9 | 117.0 |
| Materials | 40.12 | 138.2 | 138.7 | 139.1 | 139.6 | 137.6 | 137.0 | 139.6 | 139.9 | 138.0 | 139.2 | 139.2 | 134.3 |
| Durable | 22.62 | 165.8 | 166.4 | 167.6 | 167.8 | 164.4 | 163.0 | 166.9 | 168.0 | 166.0 | 168.3 | 166.7 | 157.3 |
| Consumer parts | 4.25 | 139.3 | 139.3 | 141.0 | 143.2 | 129.0 | 122.0 | 145.7 | 148.7 | 145.3 | 148.5 | 132.4 | 104.3 |
| Equipment parts | 8.29 | 245.7 | 247.7 | 249.6 | 250.4 | 250.0 | 252.6 | 246.1 | 247.7 | 243.1 | 248.5 | 251.6 | 248.8 |
| Other | 10.08 | 127.7 | 127.8 | 128.4 | 127.7 | 127.1 | 126.3 | 127.2 | 127.3 | 127.0 | 127.5 | 129.3 | 125.1 |
| Basic metals | 3.30 | 125.4 | 122.8 | 122.8 | 122.0 | 120.1 | 119.1 | 128.0 | 125.4 | 124.0 | 122.6 | 120.5 | 115.5 |
| Nondurable | 8.88 | 114.8 | 113.5 | 113.9 | 113.3 | 112.9 | 112.0 | 115.6 | 114.7 | 115.8 | 113.5 | 114.4 | 110.2 |
| Textile | .91 | 108.5 | 107.6 | 107.6 | 107.7 | 106.3 | 105.7 | 109.7 | 109.7 | 109.9 | 111.9 | 108.0 | 99.2 |
| Paper | 1.85 | 114.0 | 111.8 | 111.9 | 110.9 | 111.6 | 108.9 | 115.6 | 112.4 | 112.2 | 110.1 | 112.8 | 107.9 |
| Chemical | 4.28 | 117.6 | 116.6 | 117.2 | 116.2 | 115.8 | 115.5 | 119.1 | 117.8 | 120.1 | 117.0 | 116.9 | 114.5 |
| Other | 1.84 | 112.5 | 111.5 | 111.7 | 111.9 | 111.1 | 110.5 | 110.7 | 112.4 | 112.6 | 109.8 | 113.8 | 108.2 |
| Energy | 8.62 | 103.7 | 106.0 | 105.0 | 106.9 | 105.9 | 106.9 | 106.2 | 106.2 | 102.0 | 104.2 | 106.3 | 108.2 |
| Primary | 5.59 | 103.0 | 104.0 | 103.3 | 104.2 | 103.1 | 104.3 | 105.9 | 104.9 | 101.8 | 102.9 | 104.0 | 103.6 |
| Converted fuel | 3.03 | 105.0 | 109.6 | 108.3 | 112.2 | 111.1 | 112.0 | 106.8 | 108.6 | 102.1 | 106.5 | 110.7 | 117.1 |
| SPECIAL AGGREGATES | | | | | | | | | | | | | |
| Total excluding: | | | | | | | | | | | | | |
| Autos and trucks | 97.11 | 127.3 | 128.0 | 128.4 | 128.9 | 128.0 | 127.8 | 126.7 | 127.1 | 125.7 | 126.8 | 129.9 | 127.5 |
| Motor vehicles and parts | 94.84 | 126.9 | 127.5 | 127.9 | 128.4 | 127.9 | 128.0 | 126.1 | 126.3 | 125.0 | 126.1 | 129.8 | 128.2 |
| Computers | 98.52 | 124.3 | 124.8 | 125.2 | 125.7 | 124.2 | 123.4 | 124.2 | 124.6 | 122.8 | 124.0 | 125.9 | 122.0 |
| Computers and semiconductors | 95.15 | 117.4 | 117.9 | 118.2 | 118.6 | 117.1 | 116.3 | 117.4 | 117.7 | 116.0 | 117.0 | 118.8 | 115.0 |
| Consumer goods excluding: | | | | | | | | | | | | | |
| Autos and trucks | 26.51 | 113.9 | 114.8 | 115.2 | 115.6 | 115.1 | 115.1 | 112.9 | 113.4 | 111.1 | 111.4 | 116.4 | 115.6 |
| Energy | 24.80 | 116.5 | 116.4 | 117.3 | 117.4 | 115.2 | 114.0 | 113.9 | 115.0 | 114.3 | 115.8 | 118.8 | 113.6 |
| Business equipment excluding: | | | | | | | | | | | | | |
| Autos and trucks | 12.59 | 150.5 | 152.6 | 153.9 | 153.9 | 156.4 | 157.3 | 150.4 | 151.8 | 150.5 | 152.4 | 159.8 | 156.9 |
| Computer and office equipment | 12.96 | 131.7 | 133.0 | 134.0 | 133.7 | 133.7 | 132.2 | 133.4 | 134.6 | 132.0 | 133.7 | 136.1 | 128.2 |
| Materials excluding: | | | | | | | | | | | | | |
| Energy | 31.50 | 149.3 | 149.2 | 150.1 | 150.1 | 147.7 | 146.5 | 150.3 | 150.7 | 149.8 | 150.5 | 149.8 | 142.2 |

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

Table 1B
INDUSTRIAL PRODUCTION: MARKET GROUPS

Percent change

| Item | 1996 Q4 to 1997 Q4 | Seasonally adjusted annual rate | | | | Seasonally adjusted | | | | Not seasonally adjusted | | | | July 97 to July 98 |
|--------------------------------------|--------------------------|------------------------------------|-------|------------|-----------------|---------------------------|------------------|-------------------|-------------------|---------------------------|------------------|-------------------|-------------------|--------------------------|
| | | 1997 Q3 | Q4 | 1998 Q1 | Q2 ^r | 1998 Apr. ^r | May ^r | June ^r | July ^p | 1998 Apr. ^r | May ^r | June ^r | July ^p | |
| Total index | 5.8 | 6.0 | 7.2 | 1.2 | 1.9 | .3 | .4 | -1.1 | -.6 | -1.3 | 1.0 | 1.7 | -2.9 | 1.8 |
| Products, total | 4.7 | 4.4 | 7.0 | .9 | 2.4 | .4 | .5 | -.9 | -.7 | -1.3 | 1.1 | 2.9 | -2.5 | 2.0 |
| Final products | 5.1 | 5.6 | 7.0 | .6 | 2.5 | .5 | .3 | -.9 | -.9 | -2.0 | .8 | 2.5 | -3.5 | 1.7 |
| Consumer goods | 2.8 | 2.6 | 6.6 | -.9 | 1.3 | .4 | .5 | -1.5 | -.9 | -2.4 | .5 | 2.8 | -2.9 | .3 |
| Durable | 6.0 | 6.6 | 11.1 | 2.5 | .0 | .8 | 1.3 | -5.4 | -4.1 | -2.5 | .8 | -5.0 | -14.9 | -2.3 |
| Automotive products | 8.7 | 12.5 | 20.9 | -7.2 | -2.6 | 1.6 | 1.6 | -10.7 | -11.1 | -4.7 | 2.3 | -12.8 | -27.9 | -9.8 |
| Autos and trucks | 11.1 | 18.2 | 35.5 | -13.5 | -13.5 | 1.8 | 1.6 | -17.5 | -20.1 | -7.5 | 4.3 | -21.9 | -48.3 | -21.9 |
| Autos | 3.7 | 22.9 | -2.3 | -21.3 | -18.9 | .8 | 1.0 | -13.5 | -16.2 | -7.4 | 5.8 | -19.8 | -42.3 | -29.9 |
| Trucks | 15.8 | 14.6 | 69.0 | -8.3 | -10.1 | 2.3 | 1.9 | -19.8 | -22.5 | -7.5 | 3.5 | -23.2 | -52.0 | -15.4 |
| Auto parts and allied goods | 5.0 | 4.2 | .7 | 4.2 | 16.7 | 1.3 | 1.7 | -.1 | .0 | .1 | -1.1 | 2.7 | -2.5 | 6.7 |
| Other durable goods | 4.0 | 2.3 | 3.8 | 10.8 | 2.0 | .3 | 1.0 | -1.3 | 1.1 | -.5 | -.4 | 1.4 | -5.4 | 3.3 |
| Appliances and electronics | 7.7 | 12.2 | 12.0 | 36.3 | 9.0 | .7 | -.1 | -.6 | 4.9 | -1.2 | -.2 | 4.1 | -5.0 | 15.4 |
| Appliances and air cond. | -.9 | -4.8 | 5.8 | 29.5 | -2.0 | .2 | 3.1 | -5.6 | 5.5 | -3.4 | 1.0 | -2.4 | -12.5 | 3.9 |
| Home electronics | 19.1 | 38.8 | 19.7 | 44.4 | 22.2 | 1.2 | -3.6 | 5.1 | 4.0 | 1.3 | -1.7 | 11.9 | 5.1 | 30.0 |
| Carpeting and furniture | 2.4 | -3.5 | 5.9 | 1.5 | .1 | .5 | 4.4 | -3.9 | 1.5 | 3.7 | -4.3 | 2.2 | -3.0 | 2.3 |
| Miscellaneous | 2.8 | .4 | -1.4 | 2.9 | -1.1 | -.1 | .0 | -.3 | -1.1 | -2.2 | 1.7 | -.7 | -6.8 | -2.6 |
| Nondurable | 2.0 | 1.6 | 5.4 | -1.8 | 1.6 | .3 | .2 | -.4 | -.1 | -2.4 | .5 | 5.0 | .1 | 1.0 |
| Nonenergy | 2.0 | 1.2 | 5.1 | 1.8 | -1.3 | .7 | -.3 | -.8 | -.1 | .0 | 1.5 | 5.0 | -1.3 | .6 |
| Foods and tobacco | 1.5 | 1.1 | 4.1 | 7.2 | -2.3 | .5 | .1 | -1.5 | -.2 | -.4 | 1.9 | 5.1 | -3.6 | .5 |
| Clothing | -1.5 | .1 | -1.6 | -4.4 | -2.3 | .1 | -1.3 | -.3 | -.3 | -.3 | 3.1 | 3.4 | -5.2 | -2.8 |
| Chemical products | 4.0 | -.6 | 11.5 | 1.0 | 5.2 | 1.5 | -.5 | .5 | -.5 | .9 | 2.1 | 9.1 | 3.8 | 5.2 |
| Paper products | 2.8 | 4.8 | 2.8 | -10.1 | -7.7 | .5 | -.9 | -.6 | 1.1 | .2 | -1.6 | -.7 | .7 | -4.0 |
| Energy products | 1.9 | 3.9 | 7.4 | -20.4 | 21.1 | -2.1 | 3.6 | 1.7 | .0 | -14.9 | -5.9 | 5.0 | 9.7 | 3.3 |
| Fuels | 1.7 | -2.2 | -3.1 | 4.8 | 2.4 | .4 | -.7 | .0 | 1.9 | 4.9 | 1.1 | .6 | 1.1 | 4.0 |
| Utilities | 1.9 | 7.0 | 12.9 | -30.5 | 31.7 | -3.4 | 5.8 | 2.4 | -.9 | -23.1 | -9.9 | 7.7 | 14.8 | 3.0 |
| Equipment, total | 8.8 | 10.6 | 7.7 | 3.1 | 4.6 | .5 | .0 | -.1 | -1.0 | -1.3 | 1.3 | 2.0 | -4.6 | 3.9 |
| Business equipment | 10.8 | 13.5 | 10.7 | 1.1 | 7.8 | 1.0 | .0 | .3 | -.9 | -1.2 | 1.4 | 2.7 | -4.9 | 5.6 |
| Information processing & related | 12.2 | 16.4 | 9.4 | 6.3 | 15.6 | 1.8 | .4 | 1.3 | 1.2 | 1.4 | 1.4 | 5.8 | 2.1 | 11.2 |
| Computer and office | 34.5 | 48.3 | 26.8 | 53.1 | 55.6 | 3.8 | 2.6 | 3.5 | 3.1 | 7.1 | 3.1 | 11.8 | 7.2 | 44.8 |
| Industrial | 5.6 | 9.0 | 6.8 | -2.0 | 5.6 | .1 | -.9 | 2.4 | -.9 | -2.5 | .7 | 5.2 | -4.7 | 3.5 |
| Transit | 17.6 | 21.4 | 25.8 | 1.5 | -2.2 | .9 | 1.4 | -5.3 | -6.9 | -3.8 | 3.5 | -7.6 | -18.1 | -.7 |
| Autos and trucks | 8.5 | 14.0 | 21.8 | -15.5 | -10.3 | 1.9 | .7 | -12.3 | -17.1 | -4.7 | 3.5 | -18.0 | -38.9 | -21.6 |
| Other | 9.5 | 3.4 | 1.5 | -8.8 | 6.3 | .8 | -1.1 | 1.6 | 3.0 | -1.6 | -.3 | 3.7 | -6.1 | 3.3 |
| Defense and space equipment | -2.6 | -4.2 | -1.5 | 5.8 | -1.9 | -.3 | .5 | -.2 | -.1 | -3.0 | 1.5 | .5 | -1.5 | .4 |
| Oil and gas well drilling | 9.1 | 4.8 | -11.1 | 26.0 | -26.8 | -5.1 | -1.6 | -7.1 | -4.0 | -.1 | -.9 | -5.9 | -2.1 | -13.2 |
| Manufactured homes | -1.2 | -3.5 | -11.7 | 33.7 | 6.2 | 1.1 | 1.1 | .3 | -1.5 | 4.7 | -1.1 | 5.8 | -18.5 | 2.3 |
| Intermediate products | 3.7 | 1.0 | 6.9 | 1.6 | 1.9 | .1 | 1.0 | -.6 | .0 | 1.0 | 1.8 | 4.2 | .6 | 2.9 |
| Construction supplies | 2.2 | -2.0 | 4.1 | 8.5 | 1.0 | .4 | 1.1 | -.3 | .3 | 2.0 | 4.3 | 4.5 | -2.6 | 4.0 |
| Business supplies | 4.6 | 2.9 | 8.7 | -2.5 | 2.4 | .0 | .9 | -.8 | -.2 | .4 | .2 | 3.9 | 2.7 | 2.2 |
| Materials | 7.3 | 8.4 | 7.6 | 1.7 | 1.1 | .3 | .4 | -1.4 | -.4 | -1.3 | .8 | .0 | -3.6 | 1.5 |
| Durable | 11.2 | 12.1 | 12.1 | 3.0 | 1.1 | .7 | .2 | -2.0 | -.9 | -1.2 | 1.4 | -1.0 | -5.6 | 2.3 |
| Consumer parts | 7.0 | 12.5 | 10.8 | -12.3 | -3.7 | 1.2 | 1.5 | -9.9 | -5.4 | -2.3 | 2.2 | -10.9 | -21.2 | -12.4 |
| Equipment parts | 21.5 | 20.9 | 19.1 | 15.9 | 6.2 | .8 | .3 | -.1 | 1.0 | -1.8 | 2.2 | 1.3 | -1.1 | 12.5 |
| Other | 4.6 | 4.8 | 6.9 | -.6 | -1.2 | .4 | -.5 | -.4 | -.7 | -.2 | .4 | 1.4 | -3.3 | .3 |
| Basic metals | 4.7 | 5.2 | 5.6 | 3.8 | -8.5 | .0 | -.6 | -1.5 | -.9 | -1.1 | -1.1 | -1.7 | -4.2 | -1.7 |
| Nondurable | 3.5 | 2.8 | 5.3 | -.8 | -3.1 | .3 | -.6 | -.3 | -.8 | 1.0 | -2.0 | .8 | -3.7 | -1.3 |
| Textile | 3.9 | 11.0 | 3.9 | -12.9 | -3.0 | .0 | .1 | -1.3 | -.5 | .2 | 1.8 | -3.4 | -8.2 | -5.9 |
| Paper | 3.3 | 5.7 | -1.9 | -1.4 | -4.3 | .0 | -.9 | .7 | -2.5 | -.2 | -1.8 | 2.4 | -4.3 | -4.4 |
| Chemical | 3.3 | 2.0 | 7.0 | 3.3 | -4.6 | .6 | -.9 | -.3 | -.2 | 2.0 | -2.6 | -.1 | -2.0 | .3 |
| Other | 3.8 | -1.9 | 9.7 | -3.1 | 1.6 | .2 | .2 | -.7 | -.6 | .2 | -2.5 | 3.6 | -4.9 | .3 |
| Energy | 1.1 | 4.4 | -1.5 | .8 | 5.7 | -.9 | 1.8 | -1.0 | 1.0 | -4.0 | 2.2 | 2.1 | 1.8 | 2.3 |
| Primary | .4 | 2.7 | -3.9 | 8.2 | .9 | -.7 | .9 | -1.0 | 1.1 | -2.9 | 1.1 | 1.1 | -.4 | 2.0 |
| Converted fuel | 2.2 | 7.5 | 3.1 | -11.6 | 15.1 | -1.2 | 3.6 | -1.0 | .8 | -5.9 | 4.3 | 3.9 | 5.8 | 2.7 |
| SPECIAL AGGREGATES | | | | | | | | | | | | | | |
| Total excluding: | | | | | | | | | | | | | | |
| Autos and trucks | 5.6 | 5.7 | 6.6 | 1.7 | 2.3 | .3 | .4 | -.7 | -.1 | -1.1 | .9 | 2.5 | -1.9 | 2.5 |
| Motor vehicles and parts | 5.4 | 5.3 | 6.4 | 2.4 | 2.7 | .3 | .4 | -.4 | .1 | -1.1 | .9 | 2.9 | -1.2 | 3.0 |
| Computers | 5.3 | 5.4 | 6.9 | .4 | 1.0 | .3 | .4 | -1.2 | -.6 | -1.4 | .9 | 1.5 | -3.1 | 1.1 |
| Computers and semiconductors | 4.1 | 4.2 | 6.1 | -.6 | .6 | .2 | .3 | -1.3 | -.7 | -1.5 | .9 | 1.5 | -3.2 | .4 |
| Consumer goods excluding: | | | | | | | | | | | | | | |
| Autos and trucks | 2.4 | 1.8 | 5.0 | -.1 | 2.2 | .3 | .4 | -.5 | .1 | -2.1 | .3 | 4.5 | -.6 | 1.5 |
| Energy | 3.0 | 2.4 | 6.4 | 2.0 | -1.0 | .8 | .1 | -1.9 | -1.0 | -.6 | 1.3 | 2.5 | -4.4 | -.1 |
| Business equipment excluding: | | | | | | | | | | | | | | |
| Autos and trucks | 11.0 | 13.5 | 9.6 | 3.0 | 9.8 | .9 | .0 | 1.6 | .6 | -.9 | 1.2 | 4.9 | -1.8 | 8.3 |
| Computer and office equipment | 9.0 | 11.1 | 9.6 | -2.4 | 4.2 | .7 | -.2 | .0 | -1.2 | -1.9 | 1.3 | 1.8 | -5.8 | 2.8 |
| Materials excluding: | | | | | | | | | | | | | | |
| Energy | 9.0 | 9.4 | 10.1 | 2.0 | .0 | .6 | .0 | -1.6 | -.9 | -.6 | .5 | -.5 | -5.1 | 1.3 |

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

Table 2A
INDUSTRIAL PRODUCTION: INDUSTRY GROUPS

| Item | SIC | 1997 IP Proportion ¹ | Index, 1992=100 | | | | | | | | | | | |
|---|---------|---------------------------------------|---------------------|-------|-------------------|------------------|-------------------|-------------------|-------------------------|-------|-------------------|------------------|-------------------|-------------------|
| | | | Seasonally Adjusted | | | | | | Not seasonally adjusted | | | | | |
| | | | 1998 Feb. | Mar. | Apr. ^f | May ^f | June ^f | July ^p | 1998 Feb. | Mar. | Apr. ^f | May ^f | June ^f | July ^p |
| Total index | | 100.00 | 127.3 | 128.0 | 128.4 | 128.9 | 127.5 | 126.8 | 127.2 | 127.6 | 126.0 | 127.2 | 129.4 | 125.7 |
| Manufacturing | | 85.97 | 130.6 | 130.8 | 131.6 | 131.7 | 130.2 | 129.3 | 129.4 | 130.2 | 129.8 | 131.0 | 133.0 | 127.7 |
| Primary processing | | 27.58 | 120.1 | 119.8 | 120.5 | 120.2 | 119.3 | 118.9 | 119.3 | 119.4 | 120.3 | 120.1 | 121.5 | 117.3 |
| Advanced processing | | 58.39 | 135.8 | 136.3 | 137.2 | 137.6 | 135.7 | 134.4 | 134.4 | 135.6 | 134.5 | 136.4 | 138.7 | 132.9 |
| Durable | | 46.43 | 147.8 | 148.6 | 149.7 | 150.2 | 147.9 | 146.2 | 149.0 | 150.4 | 148.4 | 150.5 | 150.6 | 141.3 |
| Lumber and products | 24 | 2.08 | 116.7 | 115.6 | 116.7 | 116.7 | 117.2 | 118.0 | 114.0 | 114.5 | 116.9 | 115.3 | 121.0 | 116.4 |
| Furniture and fixtures | 25 | 1.39 | 120.4 | 123.0 | 122.3 | 121.8 | 122.4 | 122.6 | 120.2 | 120.6 | 120.3 | 118.3 | 123.5 | 121.0 |
| Stone, clay, and glass products | 32 | 2.24 | 121.4 | 120.7 | 120.2 | 120.9 | 120.5 | 120.6 | 115.7 | 117.3 | 120.3 | 122.0 | 125.0 | 121.7 |
| Primary metals | 33 | 3.47 | 128.1 | 127.1 | 128.2 | 126.1 | 123.3 | 122.2 | 131.8 | 130.8 | 130.0 | 127.3 | 123.5 | 117.0 |
| Iron and steel | 331,2 | 1.86 | 127.0 | 126.7 | 126.4 | 124.0 | 120.4 | 119.9 | 131.4 | 130.7 | 130.0 | 125.6 | 120.5 | 115.7 |
| Raw steel | | .09 | 123.7 | 119.5 | 122.8 | 122.3 | 115.9 | 115.6 | 128.5 | 124.8 | 125.3 | 122.5 | 116.1 | 110.7 |
| Nonferrous | 333-6,9 | 1.61 | 129.4 | 127.5 | 130.4 | 128.7 | 126.8 | 125.0 | 132.2 | 131.0 | 130.1 | 129.3 | 127.1 | 118.6 |
| Fabricated metal products | 34 | 5.25 | 124.3 | 125.0 | 125.6 | 126.4 | 125.7 | 125.0 | 122.5 | 123.8 | 122.0 | 125.0 | 128.0 | 123.8 |
| Industrial machinery and equipment | 35 | 8.66 | 179.4 | 183.8 | 186.3 | 188.2 | 190.5 | 191.0 | 181.5 | 185.2 | 184.8 | 188.5 | 197.4 | 189.7 |
| Computer and office equip. | 357 | 1.48 | 476.6 | 500.5 | 520.1 | 534.2 | 553.7 | 571.8 | 461.0 | 470.1 | 503.8 | 519.9 | 582.1 | 624.9 |
| Electrical machinery | 36 | 8.33 | 254.1 | 254.9 | 257.5 | 257.9 | 258.4 | 261.3 | 253.3 | 253.8 | 250.6 | 254.6 | 260.0 | 256.0 |
| Semiconductors | 3672-9 | 3.37 | 584.0 | 586.0 | 593.4 | 599.2 | 601.6 | 611.3 | 582.6 | 585.9 | 581.1 | 595.2 | 604.1 | 600.5 |
| Transportation equipment | 37 | 8.95 | 118.8 | 118.7 | 119.4 | 120.7 | 110.8 | 102.3 | 125.6 | 127.6 | 122.1 | 125.6 | 112.5 | 88.0 |
| Motor vehicles and parts | 371 | 5.16 | 136.7 | 136.6 | 138.3 | 140.2 | 119.9 | 101.5 | 150.4 | 154.0 | 146.3 | 150.6 | 122.6 | 74.2 |
| Autos and light trucks | | 2.59 | 126.7 | 127.4 | 129.5 | 131.4 | 109.3 | 88.1 | 143.2 | 147.4 | 136.4 | 142.6 | 111.9 | 59.1 |
| Aerospace and misc. | 372-6,9 | 3.79 | 101.1 | 101.0 | 100.7 | 101.4 | 101.4 | 102.3 | 101.3 | 101.9 | 98.4 | 101.1 | 102.0 | 100.1 |
| Instruments | 38 | 4.68 | 109.6 | 109.9 | 110.4 | 110.3 | 109.9 | 110.9 | 108.2 | 108.7 | 107.5 | 108.3 | 111.6 | 112.6 |
| Miscellaneous | 39 | 1.37 | 128.4 | 128.5 | 129.1 | 127.3 | 127.0 | 127.0 | 126.1 | 127.9 | 125.4 | 126.3 | 127.3 | 123.0 |
| Nondurable | | 39.54 | 113.0 | 112.6 | 113.2 | 113.0 | 112.1 | 111.9 | 109.6 | 109.9 | 110.9 | 111.3 | 115.0 | 113.3 |
| Foods | 20 | 9.30 | 112.0 | 111.4 | 112.2 | 112.3 | 110.7 | 110.3 | 106.1 | 106.8 | 107.7 | 109.8 | 113.0 | 112.7 |
| Tobacco products | 21 | 1.30 | 115.9 | 114.7 | 114.0 | 114.0 | 113.1 | 113.9 | 119.8 | 121.3 | 110.3 | 108.7 | 128.6 | 97.1 |
| Textile mill products | 22 | 1.52 | 109.6 | 108.9 | 109.2 | 111.5 | 108.0 | 108.6 | 108.0 | 108.5 | 112.9 | 114.1 | 113.3 | 106.1 |
| Apparel products | 23 | 1.77 | 97.7 | 98.2 | 98.3 | 97.2 | 97.1 | 96.8 | 95.9 | 97.2 | 94.9 | 97.5 | 99.8 | 95.4 |
| Paper and products | 26 | 3.42 | 114.6 | 112.4 | 113.2 | 112.7 | 112.1 | 110.4 | 115.8 | 113.0 | 114.0 | 111.1 | 113.7 | 109.1 |
| Printing and publishing | 27 | 6.58 | 105.6 | 105.0 | 104.8 | 104.5 | 103.3 | 103.8 | 100.8 | 100.2 | 102.9 | 101.4 | 104.6 | 108.0 |
| Chemicals and products | 28 | 10.01 | 117.6 | 117.7 | 118.7 | 118.2 | 118.2 | 117.7 | 114.7 | 114.9 | 116.5 | 116.5 | 121.4 | 122.2 |
| Petroleum products | 29 | 1.82 | 111.9 | 114.8 | 114.4 | 112.7 | 113.3 | 114.1 | 103.4 | 107.0 | 112.5 | 114.6 | 118.0 | 118.9 |
| Rubber and plastics products | 30 | 3.65 | 129.4 | 129.7 | 131.9 | 131.5 | 130.7 | 130.6 | 129.5 | 130.2 | 129.0 | 131.2 | 132.8 | 126.5 |
| Leather and products | 31 | .18 | 70.8 | 69.4 | 67.7 | 67.3 | 66.6 | 65.4 | 69.2 | 69.2 | 67.1 | 67.8 | 68.5 | 62.8 |
| Mining | | 6.40 | 108.8 | 108.0 | 107.4 | 107.7 | 105.7 | 106.1 | 107.1 | 105.8 | 105.4 | 107.5 | 107.1 | 106.2 |
| Metal mining | 10 | .42 | 119.5 | 105.5 | 103.0 | 104.7 | 105.1 | 104.5 | 117.7 | 105.0 | 101.8 | 104.6 | 107.9 | 106.0 |
| Coal mining | 12 | .86 | 108.4 | 109.4 | 110.6 | 118.2 | 111.7 | 114.8 | 113.8 | 114.7 | 110.4 | 111.6 | 110.8 | 106.5 |
| Oil and gas extraction | 13 | 4.53 | 105.9 | 106.5 | 105.3 | 104.3 | 102.4 | 102.6 | 106.3 | 105.4 | 104.8 | 103.8 | 101.9 | 101.6 |
| Stone and earth minerals | 14 | .60 | 122.6 | 117.2 | 120.8 | 120.0 | 121.5 | 121.6 | 90.8 | 90.8 | 101.3 | 130.1 | 141.0 | 140.4 |
| Utilities | | 7.62 | 108.2 | 114.3 | 111.8 | 116.8 | 117.5 | 117.4 | 119.8 | 118.2 | 103.1 | 103.8 | 110.4 | 118.6 |
| Electric | 491,3pt | 6.08 | 110.6 | 115.6 | 114.2 | 118.8 | 118.1 | 117.9 | 110.5 | 110.2 | 102.8 | 110.1 | 122.4 | 133.3 |
| Gas | 492,3pt | 1.55 | 99.0 | 109.5 | 102.4 | 108.8 | 115.1 | 115.8 | 157.3 | 150.4 | 105.6 | 80.7 | 65.1 | 63.0 |
| SPECIAL AGGREGATES | | | | | | | | | | | | | | |
| Computers, communications eq. and semiconductors | | 6.90 | 408.4 | 412.4 | 421.6 | 426.1 | 432.5 | 439.4 | 405.6 | 406.9 | 411.8 | 421.3 | 439.0 | 443.5 |
| Manufacturing excluding: | | | | | | | | | | | | | | |
| Motor vehicles and parts | | 80.82 | 130.2 | 130.5 | 131.2 | 131.3 | 130.8 | 130.9 | 128.2 | 128.8 | 128.8 | 129.8 | 133.6 | 130.9 |
| Computer and office equipment | | 84.50 | 127.1 | 127.2 | 127.9 | 127.9 | 126.3 | 125.3 | 125.9 | 126.7 | 126.1 | 127.2 | 128.8 | 123.5 |
| Computers and semiconductors | | 81.12 | 119.0 | 119.0 | 119.7 | 119.6 | 118.0 | 117.0 | 117.9 | 118.6 | 118.1 | 119.0 | 120.5 | 115.4 |
| Computers, communications eq. and semiconductors | | 79.08 | 117.8 | 117.9 | 118.4 | 118.4 | 116.7 | 115.6 | 116.7 | 117.5 | 116.9 | 117.8 | 119.3 | 114.1 |
| Memo: Motor vehicle assemblies² | | | | | | | | | | | | | | |
| Total | | | 12.0 | 12.0 | 12.2 | 12.4 | 10.3 | 8.3 | 12.3 | 13.9 | 12.9 | 12.8 | 10.6 | 5.9 |
| Autos | | | 5.4 | 5.4 | 5.5 | 5.5 | 4.8 | 4.0 | 5.5 | 6.3 | 5.8 | 5.8 | 4.9 | 2.9 |
| Trucks | | | 6.6 | 6.6 | 6.7 | 6.8 | 5.5 | 4.3 | 6.8 | 7.7 | 7.1 | 7.0 | 5.7 | 3.0 |
| Light | | | 6.3 | 6.3 | 6.4 | 6.5 | 5.2 | 4.0 | 6.5 | 7.3 | 6.8 | 6.7 | 5.4 | 2.7 |
| Heavy and medium | | | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.3 | 0.3 | 0.3 |

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

2. Millions of units at an annual rate.

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 | 1996 Q4 to 1997 Q4 | Seasonally adjusted annual rate | | | | Seasonally adjusted | | | | Not seasonally adjusted | | | | July 97 to July 98 |
|---|---------|--------------------------|------------------------------------|------|------------|-----------------|---------------------------|------------------|-------------------|-------------------|---------------------------|------------------|-------------------|-------------------|--------------------------|
| | | | 1997 Q3 | Q4 | 1998 Q1 | Q2 ^r | 1998 Apr. ^r | May ^r | June ^r | July ^p | 1998 Apr. ^r | May ^r | June ^r | July ^p | |
| Total index | | 5.8 | 6.0 | 7.2 | 1.2 | 1.9 | .3 | .4 | -1.1 | -6 | -1.3 | 1.0 | 1.7 | -2.9 | 1.8 |
| Manufacturing | | 6.3 | 6.1 | 8.1 | 2.3 | 1.1 | .6 | .1 | -1.2 | -7 | -.3 | .9 | 1.5 | -4.0 | 1.8 |
| Primary processing | | 3.5 | 2.6 | 4.5 | 1.2 | -6 | .6 | -.3 | -.8 | -.3 | .8 | -.2 | 1.2 | -3.5 | .5 |
| Advanced processing | | 7.6 | 7.8 | 9.8 | 2.8 | 1.8 | .6 | .3 | -1.4 | -9 | -.8 | 1.4 | 1.7 | -4.2 | 2.5 |
| Durable | | 9.5 | 10.1 | 10.3 | 2.6 | 2.8 | .7 | .4 | -1.5 | -1.2 | -1.3 | 1.4 | .0 | -6.1 | 2.7 |
| Lumber and products | 24 | 2.1 | -5.1 | -7 | 3.4 | 4.0 | .9 | .0 | .5 | .7 | 2.1 | -1.4 | 5.0 | -3.8 | 1.7 |
| Furniture and fixtures | 25 | 3.6 | -3.2 | 4.8 | -5.9 | .5 | -.6 | -.4 | .5 | .2 | -.3 | -1.6 | 4.4 | -2.0 | -1.3 |
| Stone, clay, and glass products | 32 | 4.6 | 2.4 | 4.3 | -2.2 | -3.1 | -.4 | .6 | -.3 | .1 | 2.6 | 1.4 | 2.5 | -2.6 | -.3 |
| Primary metals | 33 | 5.6 | 5.7 | 7.5 | 1.0 | -6.9 | .9 | -1.6 | -2.2 | -.9 | -.6 | -2.1 | -2.9 | -5.3 | -2.4 |
| Iron and steel | 331,2 | 5.7 | .8 | 12.6 | 2.3 | -10.9 | -.2 | -1.9 | -2.9 | -.4 | -.6 | -3.4 | -4.0 | -4.0 | -1.9 |
| Raw steel | | 7.3 | 6.5 | 8.3 | 9.4 | -5.4 | 2.8 | -.4 | -5.2 | -.3 | .4 | -2.2 | -5.2 | -4.7 | .1 |
| Nonferrous | 333-6,9 | 5.5 | 11.8 | 1.9 | -.4 | -1.9 | 2.3 | -1.3 | -1.5 | -1.4 | -.7 | -.6 | -1.6 | -6.8 | -3.0 |
| Fabricated metal products | 34 | 3.7 | 1.0 | 8.9 | -.9 | 2.9 | .4 | .6 | -.5 | -.6 | -1.4 | 2.5 | 2.4 | -3.2 | 2.1 |
| Industrial machinery and equipment | 35 | 11.3 | 14.3 | 8.7 | 8.3 | 16.8 | 1.4 | 1.0 | 1.2 | .3 | -.2 | 2.0 | 4.7 | -3.9 | 10.9 |
| Computer and office equip. | 357 | 36.3 | 50.2 | 28.3 | 56.6 | 58.1 | 3.9 | 2.7 | 3.7 | 3.3 | 7.2 | 3.2 | 12.0 | 7.4 | 47.2 |
| Electrical machinery | 36 | 18.5 | 19.0 | 16.9 | 13.6 | 6.4 | 1.0 | .2 | .2 | 1.1 | -1.3 | 1.6 | 2.1 | -1.5 | 11.0 |
| Semiconductors | 3672-9 | 39.8 | 40.3 | 31.5 | 30.8 | 11.1 | 1.3 | 1.0 | .4 | 1.6 | -.8 | 2.4 | 1.5 | -.6 | 22.5 |
| Transportation equipment | 37 | 12.2 | 17.2 | 18.8 | -6.3 | -7.2 | .6 | 1.1 | -8.2 | -7.6 | -4.3 | 2.9 | -10.5 | -21.7 | -8.8 |
| Motor vehicles and parts | 371 | 11.9 | 20.5 | 23.1 | -17.7 | -12.1 | 1.3 | 1.4 | -14.5 | -15.3 | -5.0 | 2.9 | -18.6 | -39.5 | -21.9 |
| Autos and light trucks | | 9.6 | 19.0 | 27.8 | -14.9 | -14.4 | 1.6 | 1.5 | -16.8 | -19.4 | -7.5 | 4.6 | -21.6 | -47.2 | -23.3 |
| Aerospace and misc. | 372-6,9 | 12.7 | 12.7 | 13.1 | 11.3 | -.5 | -.3 | .7 | -.1 | .9 | -.3 | 2.7 | .9 | -1.9 | 8.1 |
| Instruments | 38 | 3.2 | 5.1 | 2.6 | .4 | 2.6 | .4 | .0 | -.4 | .9 | -1.1 | .8 | 3.1 | .9 | 2.7 |
| Miscellaneous | 39 | 4.8 | 3.3 | 1.6 | 3.9 | -1.5 | .5 | -1.4 | -.2 | .0 | -1.9 | .7 | .8 | -3.3 | .0 |
| Nondurable | | 2.6 | 1.5 | 5.5 | 1.8 | -1.1 | .5 | -.2 | -.7 | -.2 | .9 | .4 | 3.4 | -1.5 | .9 |
| Foods | 20 | 1.8 | .4 | 4.3 | 6.6 | -1.3 | .7 | .1 | -1.5 | -.4 | .8 | 2.0 | 2.9 | -.2 | .2 |
| Tobacco products | 21 | 1.9 | 1.9 | 12.3 | 3.2 | -7.2 | -.6 | -.1 | -.8 | .7 | -9.1 | -1.5 | 18.3 | -24.5 | 3.0 |
| Textile mill products | 22 | 4.1 | 9.3 | 2.1 | -4.9 | -2.0 | .3 | 2.1 | -3.2 | .6 | 4.0 | 1.1 | -.7 | -6.4 | -1.9 |
| Apparel products | 23 | -1.9 | -1.8 | -1.0 | -2.6 | -3.6 | .1 | -1.1 | -.1 | -.3 | -2.4 | 2.7 | 2.4 | -4.4 | -2.9 |
| Paper and products | 26 | 3.1 | 6.9 | -2.1 | -1.3 | -1.7 | .6 | -.4 | -.5 | -1.6 | .9 | -2.6 | 2.3 | -4.0 | -3.4 |
| Printing and publishing | 27 | 4.0 | .9 | 9.9 | -4.9 | -5.6 | -.2 | -.3 | -1.1 | .5 | 2.7 | -1.5 | 3.1 | 3.3 | -.3 |
| Chemicals and products | 28 | 2.9 | .1 | 8.3 | 3.1 | 1.0 | .8 | -.4 | .0 | -.4 | 1.4 | .0 | 4.2 | .7 | 2.9 |
| Petroleum products | 29 | 2.2 | -5.0 | 1.0 | 12.2 | 1.7 | -.3 | -1.5 | .5 | .7 | 5.1 | 1.9 | 3.0 | .7 | 4.8 |
| Rubber and plastics products | 30 | 3.8 | 6.6 | 5.2 | 2.2 | 5.9 | 1.7 | -.3 | -.6 | -.1 | -.9 | 1.7 | 1.2 | -4.8 | 3.7 |
| Leather and products | 31 | -7.3 | -15.3 | -2.4 | -9.4 | -14.4 | -2.4 | -.6 | -1.1 | -1.8 | -3.1 | 1.1 | 1.0 | -8.4 | -11.6 |
| Mining | | 2.1 | 1.8 | -2.1 | 9.9 | -5.2 | -.5 | .2 | -1.9 | .4 | -.3 | 1.9 | -.4 | -.8 | -.4 |
| Metal mining | 10 | 2.7 | -5.6 | 15.4 | 2.6 | -19.5 | -2.3 | 1.6 | .4 | -.5 | -3.0 | 2.8 | 3.1 | -1.8 | -.7 |
| Coal mining | 12 | 4.7 | .6 | 11.2 | -5.1 | 8.4 | 1.1 | 6.8 | -5.4 | 2.7 | -3.7 | 1.1 | -.7 | -3.9 | 2.4 |
| Oil and gas extraction | 13 | 1.9 | 3.0 | -6.2 | 13.7 | -6.6 | -1.1 | -1.0 | -1.8 | .1 | -.6 | -.9 | -1.9 | -.2 | -1.3 |
| Stone and earth minerals | 14 | .6 | -.7 | .4 | 9.9 | -2.0 | 3.1 | -.7 | 1.2 | .1 | 11.6 | 28.5 | 8.4 | -.4 | 3.2 |
| Utilities | | 2.4 | 8.3 | 5.5 | -16.5 | 19.1 | -2.2 | 4.5 | .6 | .0 | -12.7 | .7 | 6.3 | 7.5 | 3.2 |
| Electric | 491,3pt | 2.8 | 11.1 | 5.1 | -11.7 | 18.7 | -1.2 | 4.1 | -.6 | -.2 | -6.7 | 7.2 | 11.1 | 8.9 | 3.5 |
| Gas | 492,3pt | .8 | -2.0 | 7.1 | -33.3 | 20.5 | -6.4 | 6.3 | 5.7 | .6 | -29.7 | -23.6 | -19.3 | -3.3 | 2.0 |
| SPECIAL AGGREGATES | | | | | | | | | | | | | | | |
| Computers, communications eq. and semiconductors | | 30.6 | 34.2 | 24.6 | 26.6 | 20.3 | 2.2 | 1.1 | 1.5 | 1.6 | 1.2 | 2.3 | 4.2 | 1.0 | 22.9 |
| Manufacturing excluding: | | | | | | | | | | | | | | | |
| Motor vehicles and parts | | 6.0 | 5.2 | 7.2 | 3.7 | 1.9 | .6 | .0 | -.3 | .1 | .0 | .8 | 2.9 | -2.0 | 3.3 |
| Computer and office equipment | | 5.8 | 5.4 | 7.8 | 1.4 | .0 | .6 | .0 | -1.3 | -.8 | -.5 | .9 | 1.3 | -4.2 | 1.1 |
| Computers and semiconductors | | 4.4 | 4.0 | 6.8 | .2 | -.5 | .5 | .0 | -1.4 | -.9 | -.5 | .8 | 1.3 | -4.3 | .2 |
| Computers, communications eq. and semiconductors | | 4.2 | 3.7 | 6.7 | .2 | -.7 | .5 | .0 | -1.5 | -.9 | -.5 | .8 | 1.3 | -4.4 | .0 |

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 | 1997 Proportion | 1967- 1997 Ave. | 1973 High | 1978- 1980 High | 1982 Low | 1988- 1989 High | 1990- 1991 Low | 1997 July | 1998 Feb. | Mar. | Apr. ^f | May ^f | June ^f | July ^p |
|---|---------|--------------------|-----------------------|--------------|-----------------------|-------------|-----------------------|----------------------|--------------|--------------|------|-------------------|------------------|-------------------|-------------------|
| Total industry | | 100.00 | 82.1 | 89.2 | 87.3 | 71.1 | 85.4 | 78.1 | 82.6 | 82.2 | 82.4 | 82.4 | 82.4 | 81.2 | 80.5 |
| Manufacturing | | 87.20 | 81.1 | 88.5 | 86.9 | 69.0 | 85.7 | 76.6 | 81.5 | 81.4 | 81.2 | 81.4 | 81.1 | 79.9 | 79.0 |
| Primary processing | | 26.38 | 82.4 | 91.2 | 88.1 | 66.2 | 88.9 | 77.7 | 86.0 | 85.5 | 85.1 | 85.4 | 85.0 | 84.1 | 83.6 |
| Advanced processing | | 60.83 | 80.5 | 87.2 | 86.7 | 70.4 | 84.2 | 76.1 | 79.6 | 79.6 | 79.5 | 79.6 | 79.5 | 78.0 | 76.9 |
| Durable | | 47.85 | 79.4 | 89.2 | 87.7 | 63.9 | 84.6 | 73.1 | 80.8 | 80.2 | 80.2 | 80.3 | 80.1 | 78.3 | 77.0 |
| Lumber and products | 24 | 2.10 | 82.6 | 88.7 | 87.9 | 60.8 | 93.6 | 75.5 | 83.2 | 82.0 | 81.2 | 81.9 | 81.8 | 82.1 | 82.6 |
| Furniture and fixtures | 25 | 1.43 | 81.5 | 96.8 | 85.5 | 68.9 | 86.6 | 72.5 | 81.5 | 77.2 | 78.7 | 78.1 | 77.6 | 77.9 | 77.9 |
| Stone, clay, and glass products | 32 | 2.24 | 78.2 | 88.8 | 88.0 | 64.3 | 83.5 | 69.7 | 82.2 | 80.7 | 80.1 | 79.5 | 79.8 | 79.3 | 79.2 |
| Primary metals | 33 | 3.11 | 81.2 | 100.2 | 94.2 | 45.1 | 92.7 | 73.7 | 91.5 | 91.4 | 90.3 | 90.8 | 89.0 | 86.6 | 85.5 |
| Iron and steel | 331,2 | 1.70 | 81.0 | 105.8 | 95.8 | 37.0 | 95.2 | 71.8 | 89.7 | 91.1 | 90.5 | 89.9 | 87.8 | 84.9 | 84.1 |
| Raw steel | | .08 | 80.9 | 102.7 | 95.8 | 35.2 | 92.7 | 71.5 | 88.9 | 91.9 | 88.4 | 90.4 | 89.7 | 84.6 | 84.0 |
| Nonferrous | 333-6,9 | 1.41 | 81.5 | 90.8 | 91.1 | 60.1 | 89.3 | 74.2 | 93.8 | 92.0 | 90.3 | 92.1 | 90.6 | 88.9 | 87.3 |
| Primary copper | 3331 | .07 | 74.9 | 93.4 | 81.5 | 42.1 | 86.3 | 73.5 | 96.4 | 93.8 | 90.9 | 92.1 | 88.7 | 87.1 | |
| Primary aluminum | 3334 | .13 | 88.4 | 95.7 | 97.6 | 58.6 | 100.4 | 97.3 | 85.8 | 86.4 | 87.3 | 88.5 | 88.6 | 88.9 | |
| Fabricated metal products | 34 | 5.42 | 77.9 | 87.8 | 83.9 | 63.7 | 82.0 | 71.9 | 79.1 | 78.0 | 78.1 | 78.2 | 78.4 | 77.7 | 77.0 |
| Industrial machinery and equipment | 35 | 8.64 | 81.4 | 96.0 | 93.2 | 64.0 | 85.4 | 72.3 | 85.0 | 83.1 | 84.4 | 84.9 | 85.0 | 85.3 | 84.9 |
| Computer and office equip. | 357 | 1.76 | 81.0 | 90.9 | 92.6 | 65.5 | 86.9 | 66.9 | 81.4 | 81.6 | 83.3 | 84.1 | 83.9 | 84.4 | 84.7 |
| Electrical machinery | 36 | 8.89 | 81.0 | 89.2 | 89.4 | 71.6 | 84.0 | 75.0 | 82.7 | 80.5 | 79.7 | 79.4 | 78.5 | 77.6 | 77.5 |
| Semiconductors | 3672-9 | 3.68 | 79.8 | 95.6 | 91.7 | 75.7 | 81.0 | 75.5 | 86.8 | 84.1 | 82.4 | 81.4 | 80.2 | 78.6 | 78.0 |
| Transportation equipment | 37 | 9.78 | 75.8 | 86.1 | 84.8 | 57.2 | 85.8 | 68.5 | 73.1 | 75.9 | 75.6 | 75.8 | 76.4 | 69.9 | 64.4 |
| Motor vehicles and parts | 371 | 5.67 | 76.6 | 93.4 | 95.0 | 45.5 | 89.1 | 55.9 | 70.7 | 72.4 | 72.1 | 72.7 | 73.5 | 62.6 | 52.8 |
| Autos and light trucks ¹ | | 2.66 | | | 94.6 | 40.6 | 92.3 | 53.3 | 71.2 | 77.4 | 77.6 | 78.7 | 79.7 | 66.1 | 53.2 |
| Aerospace and misc. | 372-6,9 | 4.11 | 75.2 | 78.4 | 81.9 | 66.6 | 87.3 | 79.2 | 76.4 | 80.6 | 80.4 | 79.9 | 80.3 | 80.1 | 80.6 |
| Instruments | 38 | 4.84 | 81.7 | 89.9 | 92.7 | 78.4 | 81.4 | 77.2 | 80.1 | 80.2 | 80.2 | 80.3 | 80.0 | 79.5 | 80.0 |
| Miscellaneous | 39 | 1.40 | 75.4 | 82.9 | 79.4 | 65.4 | 79.0 | 71.7 | 81.2 | 80.5 | 80.4 | 80.5 | 79.2 | 78.8 | 78.5 |
| Nondurable | | 39.36 | 83.4 | 87.8 | 87.5 | 76.4 | 87.3 | 80.7 | 82.3 | 82.8 | 82.4 | 82.7 | 82.4 | 81.7 | 81.4 |
| Foods | 20 | 9.50 | 82.9 | 86.0 | 84.6 | 79.1 | 85.4 | 82.7 | 80.8 | 81.2 | 80.7 | 81.1 | 81.1 | 79.8 | 79.4 |
| Textile mill products | 22 | 1.51 | 85.5 | 91.4 | 91.2 | 72.3 | 90.4 | 77.7 | 84.2 | 82.5 | 81.9 | 82.1 | 83.7 | 81.0 | 81.5 |
| Apparel products | 23 | 1.93 | 81.0 | 84.2 | 87.5 | 77.5 | 85.1 | 75.5 | 75.8 | 74.3 | 74.8 | 74.9 | 74.1 | 74.1 | 73.9 |
| Paper and products | 26 | 3.13 | 89.3 | 97.1 | 96.1 | 80.6 | 93.5 | 85.0 | 90.8 | 90.0 | 88.1 | 88.5 | 88.0 | 87.4 | 85.9 |
| Pulp and paper | 261-3 | 1.37 | 92.4 | 97.2 | 98.3 | 82.0 | 98.0 | 89.9 | 93.8 | 93.7 | 91.6 | 92.1 | 91.0 | 90.8 | |
| Printing and publishing | 27 | 6.49 | 85.7 | 89.7 | 93.9 | 82.0 | 91.7 | 79.6 | 81.9 | 82.7 | 82.2 | 81.9 | 81.6 | 80.7 | 81.0 |
| Chemicals and products | 28 | 10.40 | 79.5 | 87.6 | 84.6 | 69.9 | 86.2 | 79.3 | 78.4 | 79.1 | 79.0 | 79.5 | 79.1 | 79.0 | 78.5 |
| Plastics materials | 2821 | .82 | 86.7 | 102.0 | 90.9 | 63.4 | 97.0 | 74.8 | 94.4 | 90.3 | 89.0 | 91.8 | 90.2 | | |
| Synthetic fibers | 2823,4 | .33 | 85.1 | 93.8 | 98.6 | 64.4 | 99.7 | 77.6 | 90.9 | 91.5 | 89.9 | 91.6 | 85.7 | 87.2 | |
| Petroleum products | 29 | 1.57 | 86.6 | 96.7 | 90.0 | 66.8 | 88.5 | 85.1 | 94.7 | 96.3 | 98.6 | 97.9 | 96.2 | 96.4 | 96.9 |
| Rubber and plastics products | 30 | 3.44 | 84.8 | 95.5 | 91.2 | 72.7 | 89.6 | 77.4 | 86.8 | 87.2 | 87.2 | 88.5 | 88.0 | 87.2 | 87.0 |
| Leather and products | 31 | .21 | 80.8 | 81.3 | 92.1 | 75.8 | 83.3 | 76.1 | 69.5 | 67.7 | 66.7 | 65.3 | 65.3 | 64.9 | 64.0 |
| Mining | | 5.84 | 87.5 | 94.3 | 96.0 | 80.3 | 88.0 | 87.0 | 90.3 | 91.9 | 91.2 | 90.6 | 90.8 | 89.0 | 89.3 |
| Metal mining | 10 | .38 | 79.0 | 89.6 | 87.9 | 44.4 | 89.4 | 79.9 | 89.1 | 100.4 | 88.5 | 86.4 | 87.7 | 87.9 | 87.3 |
| Coal mining | 12 | .82 | 86.9 | 91.0 | 99.4 | 76.6 | 91.5 | 83.4 | 88.7 | 84.9 | 85.6 | 86.4 | 92.2 | 87.1 | 89.3 |
| Oil and gas extraction | 13 | 4.07 | 88.6 | 96.9 | 97.3 | 82.3 | 88.2 | 88.7 | 91.4 | 93.3 | 93.7 | 92.7 | 91.7 | 90.0 | 90.1 |
| Oil and gas well drilling | 138 | .82 | 74.2 | 93.0 | 104.3 | 50.9 | 69.3 | 60.0 | 86.9 | 90.1 | 89.9 | 85.1 | 83.7 | 77.6 | 74.5 |
| Stone and earth minerals | 14 | .57 | 84.8 | 95.0 | 92.7 | 63.3 | 89.0 | 79.4 | 84.5 | 86.1 | 82.1 | 84.4 | 83.6 | 84.3 | 84.2 |
| Utilities | | 6.96 | 87.3 | 96.2 | 89.1 | 75.9 | 92.6 | 83.4 | 89.9 | 84.9 | 89.6 | 87.6 | 91.4 | 91.9 | 91.8 |
| Electric | 491,3pt | 5.43 | 89.1 | 99.0 | 88.2 | 78.9 | 95.0 | 87.1 | 91.2 | 87.9 | 91.8 | 90.7 | 94.3 | 93.6 | 93.4 |
| Gas | 492,3pt | 1.52 | 82.4 | 94.1 | 93.7 | 69.1 | 85.0 | 67.1 | 83.8 | 72.4 | 79.9 | 74.7 | 79.2 | 83.7 | 84.1 |
| SPECIAL AGGREGATES | | | | | | | | | | | | | | | |
| Computers, communications eq. and semiconductors | | 7.71 | 80.1 | 84.0 | 90.9 | 77.3 | 81.9 | 72.4 | 82.5 | 80.8 | 79.8 | 79.8 | 79.0 | 78.4 | 78.0 |
| Manufacturing ex. computers, communications eq., and semiconductors | | 79.50 | 81.2 | 88.8 | 87.0 | 68.0 | 86.1 | 76.8 | 81.5 | 81.6 | 81.4 | 81.7 | 81.5 | 80.1 | 79.2 |

1. Series begins in 1977.

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 | | | | | | |
|---|---------|----------------|----------------|----------------|----------------------|------|------|------|-------------------|------------------------|-----------|-------|-------|-------|-------|-------|
| | | Annual rate | | | December to December | | | | | Percent of 1992 output | | | | | | |
| | | 1967-1998 Ave. | 1967-1975 Ave. | 1975-1998 Ave. | 1994 | 1995 | 1996 | 1997 | 1998 ^p | 1997 July | 1998 Feb. | Mar. | Apr. | May | June | July |
| Total industry | | 3.0 | 3.8 | 2.7 | 3.9 | 5.0 | 4.5 | 4.7 | 4.3 | 150.7 | 154.8 | 155.4 | 155.9 | 156.5 | 157.0 | 157.5 |
| Manufacturing | | 3.4 | 4.0 | 3.1 | 4.2 | 5.6 | 5.1 | 5.3 | 4.9 | 155.7 | 160.4 | 161.1 | 161.7 | 162.4 | 163.0 | 163.6 |
| Primary processing | | 2.3 | 4.1 | 1.6 | 2.4 | 3.0 | 3.4 | 3.4 | 3.1 | 137.7 | 140.4 | 140.7 | 141.1 | 141.4 | 141.8 | 142.1 |
| Advanced processing | | 3.9 | 4.0 | 3.9 | 5.2 | 6.9 | 5.9 | 6.3 | 5.7 | 164.9 | 170.7 | 171.5 | 172.3 | 173.1 | 174.0 | 174.7 |
| Durable | | 3.9 | 3.7 | 3.9 | 6.1 | 8.5 | 7.4 | 8.0 | 7.5 | 176.1 | 184.2 | 185.3 | 186.4 | 187.6 | 188.8 | 189.8 |
| Lumber and products | 24 | 2.0 | 2.9 | 1.6 | 3.0 | 3.9 | 4.5 | 4.0 | 1.3 | 139.5 | 142.2 | 142.4 | 142.5 | 142.6 | 142.8 | 142.9 |
| Furniture and fixtures | 25 | 3.2 | 4.5 | 2.6 | 2.5 | 4.0 | 6.0 | 4.8 | 2.3 | 152.3 | 156.1 | 156.3 | 156.6 | 156.9 | 157.2 | 157.5 |
| Stone, clay, and glass products | 32 | 1.6 | 2.5 | 1.2 | .9 | 2.4 | 3.4 | 3.7 | 3.3 | 147.1 | 150.3 | 150.7 | 151.1 | 151.5 | 151.9 | 152.3 |
| Primary metals | | .5 | 1.7 | .0 | 2.7 | 2.4 | 3.7 | 3.7 | 5.0 | 136.8 | 140.1 | 140.7 | 141.2 | 141.8 | 142.3 | 142.9 |
| Iron and steel | 331,2 | -2 | .7 | -6 | 3.1 | 1.4 | 4.5 | 3.8 | 5.3 | 136.2 | 139.4 | 140.0 | 140.6 | 141.3 | 141.9 | 142.5 |
| Raw steel | | -5 | .3 | -9 | 1.4 | 3.3 | 2.7 | 6.1 | 5.5 | 130.0 | 134.6 | 135.2 | 135.8 | 136.4 | 137.0 | 137.6 |
| Nonferrous | | 1.8 | 3.8 | 1.0 | 2.2 | 3.5 | 2.8 | 3.7 | 4.6 | 137.3 | 140.7 | 141.2 | 141.7 | 142.1 | 142.6 | 143.1 |
| Primary copper | 3331 | .7 | 1.8 | .3 | 3.2 | 8.3 | -1.8 | 1.2 | 1.6 | 143.8 | 144.9 | 145.1 | 145.3 | 145.5 | 145.7 | 145.9 |
| Primary aluminum | 3334 | 1.2 | 5.2 | -3 | .5 | .0 | .2 | .2 | .0 | 104.1 | 104.2 | 104.2 | 104.2 | 104.2 | 104.2 | 104.2 |
| Fabricated metal products | | 2.0 | 3.1 | 1.6 | 2.5 | 4.1 | 4.7 | 5.1 | 4.6 | 154.9 | 159.4 | 160.0 | 160.6 | 161.2 | 161.8 | 162.4 |
| Industrial machinery and equipment | 35 | 5.6 | 4.7 | 5.9 | 8.6 | 11.0 | 11.4 | 11.6 | 10.4 | 202.7 | 215.9 | 217.7 | 219.5 | 221.4 | 223.3 | 225.0 |
| Computer and office equip. | 357 | 21.3 | 12.0 | 25.1 | 21.9 | 32.0 | 40.6 | 41.0 | 41.7 | 477.5 | 583.8 | 601.0 | 618.7 | 637.0 | 655.8 | 675.1 |
| Electrical machinery | 36 | 8.5 | 5.9 | 9.6 | 19.1 | 26.5 | 18.6 | 19.3 | 17.6 | 284.9 | 315.5 | 319.8 | 324.1 | 328.6 | 333.1 | 337.4 |
| Semiconductors | 3672-9 | 19.4 | 13.1 | 21.9 | 43.0 | 57.1 | 29.6 | 37.6 | 34.8 | 574.6 | 694.0 | 711.2 | 728.8 | 746.8 | 765.2 | 784.1 |
| Transportation equipment | | 2.7 | 3.0 | 2.6 | 3.4 | 3.8 | 2.3 | 3.5 | 3.7 | 153.5 | 156.6 | 157.1 | 157.5 | 158.0 | 158.5 | 159.0 |
| Motor vehicles and parts | 371 | 3.4 | 4.4 | 3.0 | 7.5 | 8.1 | 4.5 | 4.6 | 4.3 | 184.0 | 188.8 | 189.5 | 190.1 | 190.8 | 191.5 | 192.2 |
| Autos and light trucks ¹ | | | | | 5.9 | 5.7 | .8 | 2.4 | 2.6 | 161.4 | 163.7 | 164.1 | 164.5 | 164.9 | 165.3 | 165.6 |
| Aerospace and misc. | 372-6,9 | 1.6 | 1.1 | 1.8 | -1.1 | -1.2 | -7 | 2.1 | 2.8 | 123.9 | 125.4 | 125.7 | 126.0 | 126.3 | 126.6 | 126.9 |
| Instruments | | 4.6 | 7.6 | 3.4 | .0 | .5 | .8 | 1.9 | 3.4 | 134.9 | 136.7 | 137.1 | 137.5 | 137.9 | 138.2 | 138.6 |
| Miscellaneous | | 2.4 | 4.4 | 1.6 | 1.9 | 2.9 | 3.2 | 3.2 | 3.6 | 156.3 | 159.4 | 159.9 | 160.3 | 160.8 | 161.3 | 161.7 |
| Nondurable | | 2.7 | 4.3 | 2.1 | 2.0 | 2.4 | 2.4 | 2.2 | 1.7 | 134.7 | 136.5 | 136.6 | 136.8 | 137.0 | 137.2 | 137.4 |
| Foods | 20 | 2.4 | 3.0 | 2.2 | 2.1 | 2.9 | 2.5 | 2.4 | 1.9 | 136.1 | 137.9 | 138.1 | 138.3 | 138.5 | 138.7 | 138.9 |
| Textile mill products | 22 | 2.2 | 4.4 | 1.3 | 3.9 | 3.1 | 2.0 | 1.8 | 1.0 | 131.5 | 132.9 | 133.0 | 133.1 | 133.2 | 133.2 | 133.3 |
| Apparel products | 23 | 1.1 | 2.3 | .7 | 1.6 | 2.2 | .1 | .0 | -8 | 131.4 | 131.4 | 131.3 | 131.2 | 131.1 | 131.0 | 130.9 |
| Paper and products | 26 | 2.7 | 3.9 | 2.3 | 1.3 | 2.5 | 2.3 | 1.8 | 2.1 | 125.8 | 127.4 | 127.6 | 127.8 | 128.1 | 128.3 | 128.5 |
| Pulp and paper | 261-3 | 2.4 | 2.9 | 2.2 | 2.0 | 2.9 | 2.0 | 1.8 | 1.6 | 120.8 | 122.0 | 122.2 | 122.4 | 122.5 | 122.7 | 122.8 |
| Printing and publishing | 27 | 2.7 | 3.0 | 2.5 | .8 | .7 | 1.0 | .7 | .9 | 127.1 | 127.7 | 127.8 | 127.9 | 128.0 | 128.0 | 128.1 |
| Chemicals and products | | 3.8 | 6.8 | 2.6 | 2.7 | 2.8 | 3.6 | 3.3 | 2.2 | 145.9 | 148.7 | 148.9 | 149.2 | 149.4 | 149.7 | 149.9 |
| Plastics materials | 2821 | 6.5 | 12.7 | 4.1 | 6.2 | 5.3 | 6.6 | 5.5 | 3.9 | 139.4 | 143.7 | 144.1 | 144.5 | 145.0 | 145.4 | 145.8 |
| Synthetic fibers | 2823,4 | 3.7 | 9.7 | 1.5 | .4 | .4 | -4 | 3.9 | 1.7 | 122.2 | 124.8 | 124.9 | 125.1 | 125.2 | 125.4 | 125.6 |
| Petroleum products | 29 | 1.5 | 4.2 | .5 | 2.1 | -5 | .4 | 1.8 | 3.1 | 115.0 | 116.2 | 116.5 | 116.8 | 117.2 | 117.5 | 117.8 |
| Rubber and plastics products | 30 | 5.3 | 8.4 | 4.1 | 4.4 | 5.1 | 4.4 | 4.2 | 3.2 | 145.0 | 148.3 | 148.7 | 149.1 | 149.4 | 149.8 | 150.2 |
| Leather and products | 31 | -3.3 | -1.5 | -4.0 | -2.1 | -2.6 | -2.3 | -2.8 | -5.2 | 106.4 | 104.5 | 104.0 | 103.6 | 103.1 | 102.6 | 102.1 |
| Mining | | .2 | -1 | .3 | 1.1 | -7 | .4 | .7 | 1.1 | 118.0 | 118.4 | 118.4 | 118.5 | 118.6 | 118.7 | 118.8 |
| Metal mining | 10 | 1.3 | .5 | 1.6 | -1.8 | 1.2 | .5 | .8 | 1.4 | 118.0 | 118.9 | 119.1 | 119.2 | 119.4 | 119.5 | 119.7 |
| Coal mining | 12 | 2.3 | 2.4 | 2.3 | 4.3 | -7 | 1.2 | 1.7 | 1.7 | 126.3 | 127.6 | 127.8 | 128.0 | 128.2 | 128.3 | 128.5 |
| Oil and gas extraction | 13 | -5 | -1.0 | -2 | .3 | -1.2 | -1 | .1 | .6 | 113.7 | 113.6 | 113.6 | 113.7 | 113.7 | 113.8 | 113.8 |
| Oil and gas well drilling | 138 | .7 | .8 | .7 | -6 | -1.6 | -1.2 | 1.1 | 1.4 | 175.1 | 176.3 | 176.5 | 176.7 | 176.9 | 177.1 | 177.3 |
| Stone and earth minerals | 14 | 1.4 | 2.6 | 1.0 | 2.3 | 2.4 | 3.5 | 4.0 | 3.6 | 139.4 | 142.4 | 142.8 | 143.2 | 143.6 | 144.0 | 144.4 |
| Utilities | | 2.7 | 6.1 | 1.4 | 1.2 | 2.1 | 1.5 | 1.3 | 1.0 | 126.5 | 127.4 | 127.5 | 127.6 | 127.7 | 127.8 | 127.9 |
| Electric | 491,3pt | 3.7 | 7.8 | 2.2 | 1.0 | 2.8 | 1.5 | 1.3 | 1.0 | 124.8 | 125.7 | 125.8 | 126.0 | 126.1 | 126.2 | 126.3 |
| Gas | 492,3pt | .4 | 2.3 | -3 | .4 | .5 | 2.2 | 1.9 | 1.6 | 135.3 | 136.8 | 137.0 | 137.1 | 137.3 | 137.5 | 137.7 |
| SPECIAL AGGREGATES | | | | | | | | | | | | | | | | |
| Computers, communications eq. and semiconductors | | 15.6 | 9.5 | 18.1 | 28.3 | 38.7 | 29.3 | 30.5 | 29.6 | 433.0 | 505.8 | 516.8 | 528.0 | 539.6 | 551.5 | 563.2 |
| Manufacturing ex. computers, communications eq., and semiconductors | | 2.4 | 3.7 | 1.9 | 2.4 | 3.0 | 2.9 | 3.1 | 2.7 | 141.8 | 144.4 | 144.7 | 145.0 | 145.3 | 145.6 | 145.9 |

p. Preliminary estimate for current year.
1. Series begins in 1977.

Table 5A
INDUSTRIAL PRODUCTION, CAPACITY AND UTILIZATION FOR TOTAL INDUSTRY: 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 Change¹ | | | | | | | | | | | | | | | | | |
| 1986 | .6 | -.7 | -1.0 | .8 | -.2 | -.3 | .3 | .3 | -.1 | .9 | .5 | .9 | 2.0 | -1.7 | .7 | 6.5 | 1.1 |
| 1987 | -.6 | 1.2 | .4 | .4 | .4 | .9 | .6 | .1 | -.1 | 1.4 | .3 | .6 | 4.2 | 6.7 | 5.6 | 7.1 | 4.6 |
| 1988 | .1 | .3 | .0 | .6 | .1 | .1 | .7 | .5 | -.4 | .3 | .8 | .5 | 3.2 | 3.1 | 3.9 | 3.6 | 4.5 |
| 1989 | .6 | -.8 | .9 | .2 | -.6 | -.2 | -1.0 | .4 | -.2 | -.5 | .4 | .5 | 3.8 | .5 | -4.4 | -.1 | 1.8 |
| 1990 | -.5 | .5 | .5 | -.6 | .4 | .0 | .0 | .2 | .1 | -.6 | -1.3 | -.6 | 2.0 | .6 | 1.0 | -5.8 | -.2 |
| 1991 | -.5 | -.8 | -.9 | .3 | .8 | 1.2 | .1 | .1 | 1.0 | -.1 | -.1 | -.6 | -8.3 | 1.5 | 6.2 | 1.1 | -2.0 |
| 1992 | .2 | .6 | .7 | .8 | .2 | -.3 | .7 | -.3 | .5 | .8 | .5 | .1 | 1.4 | 6.2 | 1.9 | 5.5 | 3.1 |
| 1993 | .5 | .4 | .1 | .4 | -.6 | .2 | .4 | -.2 | 1.0 | .3 | .4 | .8 | 4.4 | 1.1 | 2.1 | 5.8 | 3.6 |
| 1994 | .3 | .5 | .7 | .5 | .7 | .5 | .5 | .3 | .2 | .7 | .8 | 1.0 | 6.0 | 7.1 | 5.5 | 7.5 | 5.4 |
| 1995 | .6 | -.1 | .1 | .0 | .3 | .3 | .0 | 1.0 | .4 | -.4 | .2 | -.1 | 5.9 | 1.6 | 4.5 | 1.1 | 4.9 |
| 1996 | -.2 | 1.2 | -.4 | 1.1 | .6 | .5 | .0 | .3 | .3 | .0 | .8 | .3 | 2.0 | 7.5 | 3.6 | 3.8 | 3.5 |
| 1997 | .3 | .6 | .3 | .5 | .2 | .2 | .8 | .6 | .3 | .8 | .8 | .3 | 5.2 | 4.6 | 6.0 | 7.2 | 5.0 |
| 1998 | -.1 | -.4 | .5 | .3 | .4 | -1.1 | -.6 | | | | | | 1.2 | 1.9 | | | |
| Industrial Production | | | | | | | | | | | | | | | | | |
| 1986 | 89.6 | 89.0 | 88.1 | 88.7 | 88.6 | 88.2 | 88.5 | 88.8 | 88.7 | 89.5 | 89.9 | 90.8 | 88.9 | 88.5 | 88.7 | 90.1 | 89.0 |
| 1987 | 90.2 | 91.2 | 91.6 | 92.0 | 92.4 | 93.2 | 93.7 | 93.8 | 93.7 | 95.0 | 95.3 | 95.9 | 91.0 | 92.5 | 93.8 | 95.4 | 93.2 |
| 1988 | 95.9 | 96.2 | 96.3 | 96.8 | 96.9 | 97.0 | 97.6 | 98.1 | 97.8 | 98.0 | 98.8 | 99.3 | 96.1 | 96.9 | 97.8 | 98.7 | 97.4 |
| 1989 | 99.8 | 99.0 | 100.0 | 100.2 | 99.6 | 99.4 | 98.4 | 98.8 | 98.6 | 98.2 | 98.6 | 99.0 | 99.6 | 99.7 | 98.6 | 98.6 | 99.1 |
| 1990 | 98.6 | 99.1 | 99.6 | 99.0 | 99.4 | 99.3 | 99.3 | 99.5 | 99.6 | 99.1 | 97.7 | 97.2 | 99.1 | 99.2 | 99.5 | 98.0 | 98.9 |
| 1991 | 96.7 | 95.9 | 95.0 | 95.4 | 96.1 | 97.2 | 97.3 | 97.4 | 98.4 | 98.3 | 98.1 | 97.5 | 95.9 | 96.2 | 97.7 | 98.0 | 97.0 |
| 1992 | 97.7 | 98.3 | 99.0 | 99.8 | 100.0 | 99.7 | 100.3 | 100.0 | 100.5 | 101.2 | 101.8 | 101.8 | 98.3 | 99.8 | 100.3 | 101.6 | 100.0 |
| 1993 | 102.4 | 102.8 | 102.9 | 103.3 | 102.7 | 102.9 | 103.3 | 103.1 | 104.1 | 104.4 | 104.9 | 105.7 | 102.7 | 103.0 | 103.5 | 105.0 | 103.6 |
| 1994 | 106.0 | 106.5 | 107.2 | 107.7 | 108.5 | 109.0 | 109.6 | 109.9 | 110.1 | 110.9 | 111.8 | 112.9 | 106.6 | 108.4 | 109.9 | 111.9 | 109.2 |
| 1995 | 113.5 | 113.4 | 113.6 | 113.6 | 113.9 | 114.3 | 114.3 | 115.4 | 115.9 | 115.4 | 115.6 | 115.5 | 113.5 | 113.9 | 115.2 | 115.5 | 114.5 |
| 1996 | 115.3 | 116.7 | 116.3 | 117.5 | 118.3 | 118.9 | 118.9 | 119.3 | 119.6 | 119.7 | 120.6 | 120.9 | 116.1 | 118.2 | 119.3 | 120.4 | 118.5 |
| 1997 | 121.3 | 122.1 | 122.5 | 123.1 | 123.3 | 123.5 | 124.5 | 125.2 | 125.6 | 126.5 | 127.5 | 127.9 | 121.9 | 123.3 | 125.1 | 127.3 | 124.5 |
| 1998 | 127.8 | 127.3 | 128.0 | 128.4 | 128.9 | 127.5 | 126.8 | | | | | | 127.7 | 128.3 | | | |
| Capacity | | | | | | | | | | | | | | | | | |
| 1986 | 112.2 | 112.4 | 112.6 | 112.7 | 112.9 | 113.0 | 113.2 | 113.3 | 113.5 | 113.6 | 113.7 | 113.9 | 112.4 | 112.9 | 113.3 | 113.7 | 113.1 |
| 1987 | 114.0 | 114.1 | 114.2 | 114.3 | 114.4 | 114.5 | 114.6 | 114.7 | 114.9 | 115.0 | 115.1 | 115.2 | 114.1 | 114.4 | 114.7 | 115.1 | 114.6 |
| 1988 | 115.3 | 115.5 | 115.6 | 115.7 | 115.8 | 115.9 | 116.0 | 116.2 | 116.3 | 116.4 | 116.5 | 116.7 | 115.5 | 115.8 | 116.2 | 116.5 | 116.0 |
| 1989 | 116.8 | 117.0 | 117.2 | 117.4 | 117.6 | 117.8 | 118.0 | 118.2 | 118.4 | 118.6 | 118.8 | 119.0 | 117.0 | 117.6 | 118.2 | 118.8 | 117.9 |
| 1990 | 119.2 | 119.3 | 119.5 | 119.7 | 119.9 | 120.1 | 120.2 | 120.4 | 120.6 | 120.8 | 121.0 | 121.2 | 119.3 | 119.9 | 120.4 | 121.0 | 120.2 |
| 1991 | 121.4 | 121.6 | 121.7 | 121.9 | 122.1 | 122.2 | 122.4 | 122.6 | 122.7 | 122.9 | 123.0 | 123.2 | 121.6 | 122.1 | 122.6 | 123.0 | 122.3 |
| 1992 | 123.4 | 123.6 | 123.8 | 124.1 | 124.3 | 124.5 | 124.8 | 125.0 | 125.2 | 125.4 | 125.6 | 125.8 | 123.6 | 124.3 | 125.0 | 125.6 | 124.6 |
| 1993 | 126.1 | 126.3 | 126.5 | 126.8 | 127.0 | 127.2 | 127.5 | 127.7 | 128.0 | 128.2 | 128.5 | 128.7 | 126.3 | 127.0 | 127.7 | 128.5 | 127.4 |
| 1994 | 129.1 | 129.5 | 129.9 | 130.3 | 130.7 | 131.2 | 131.6 | 132.0 | 132.4 | 132.8 | 133.3 | 133.7 | 129.5 | 130.7 | 132.0 | 133.3 | 131.4 |
| 1995 | 134.2 | 134.8 | 135.3 | 135.9 | 136.5 | 137.1 | 137.6 | 138.1 | 138.7 | 139.2 | 139.8 | 140.4 | 134.8 | 136.5 | 138.1 | 139.8 | 137.3 |
| 1996 | 140.9 | 141.4 | 142.0 | 142.5 | 143.0 | 143.6 | 144.1 | 144.6 | 145.1 | 145.6 | 146.1 | 146.7 | 141.4 | 143.0 | 144.6 | 146.1 | 143.8 |
| 1997 | 147.2 | 147.8 | 148.4 | 149.0 | 149.6 | 150.2 | 150.7 | 151.3 | 151.9 | 152.4 | 153.0 | 153.6 | 147.8 | 149.6 | 151.3 | 153.0 | 150.4 |
| 1998 | 154.2 | 154.8 | 155.4 | 155.9 | 156.5 | 157.0 | 157.5 | | | | | | 154.8 | 156.5 | | | |
| Utilization | | | | | | | | | | | | | | | | | |
| 1986 | 79.8 | 79.2 | 78.2 | 78.7 | 78.4 | 78.1 | 78.2 | 78.3 | 78.2 | 78.8 | 79.1 | 79.7 | 79.1 | 78.4 | 78.2 | 79.2 | 78.7 |
| 1987 | 79.1 | 80.0 | 80.2 | 80.5 | 80.7 | 81.4 | 81.8 | 81.8 | 81.6 | 82.6 | 82.8 | 83.2 | 79.8 | 80.8 | 81.7 | 82.9 | 81.3 |
| 1988 | 83.2 | 83.4 | 83.3 | 83.7 | 83.7 | 83.6 | 84.1 | 84.5 | 84.1 | 84.2 | 84.8 | 85.1 | 83.3 | 83.7 | 84.2 | 84.7 | 84.0 |
| 1989 | 85.4 | 84.6 | 85.3 | 85.3 | 84.7 | 84.4 | 83.4 | 83.6 | 83.3 | 82.8 | 83.0 | 83.2 | 85.1 | 84.8 | 83.4 | 83.0 | 84.1 |
| 1990 | 82.7 | 83.0 | 83.3 | 82.7 | 82.9 | 82.7 | 82.6 | 82.6 | 82.6 | 82.0 | 80.8 | 80.2 | 83.0 | 82.8 | 82.6 | 81.0 | 82.3 |
| 1991 | 79.6 | 78.9 | 78.1 | 78.2 | 78.7 | 79.6 | 79.5 | 79.5 | 80.2 | 80.0 | 79.8 | 79.2 | 78.9 | 78.8 | 79.7 | 79.6 | 79.3 |
| 1992 | 79.2 | 79.5 | 79.9 | 80.4 | 80.4 | 80.0 | 80.4 | 80.0 | 80.2 | 80.7 | 81.0 | 80.9 | 79.5 | 80.3 | 80.2 | 80.9 | 80.2 |
| 1993 | 81.2 | 81.4 | 81.3 | 81.5 | 80.9 | 80.9 | 81.0 | 80.7 | 81.4 | 81.4 | 81.6 | 82.1 | 81.3 | 81.1 | 81.0 | 81.7 | 81.3 |
| 1994 | 82.1 | 82.2 | 82.5 | 82.7 | 83.0 | 83.1 | 83.3 | 83.3 | 83.2 | 83.5 | 83.9 | 84.4 | 82.3 | 82.9 | 83.2 | 83.9 | 83.1 |
| 1995 | 84.6 | 84.2 | 83.9 | 83.6 | 83.5 | 83.4 | 83.1 | 83.6 | 83.6 | 82.9 | 82.7 | 82.3 | 84.2 | 83.5 | 83.4 | 82.6 | 83.4 |
| 1996 | 81.8 | 82.5 | 81.9 | 82.5 | 82.7 | 82.8 | 82.6 | 82.5 | 82.4 | 82.2 | 82.5 | 82.5 | 82.1 | 82.7 | 82.5 | 82.4 | 82.4 |
| 1997 | 82.4 | 82.6 | 82.5 | 82.6 | 82.4 | 82.3 | 82.6 | 82.8 | 82.7 | 83.0 | 83.3 | 83.3 | 82.5 | 82.4 | 82.7 | 83.2 | 82.7 |
| 1998 | 82.9 | 82.2 | 82.4 | 82.4 | 82.4 | 81.2 | 80.5 | | | | | | 82.5 | 82.0 | | | |

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

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 Change¹ | | | | | | | | | | | | | | | | | |
| 1986 | 1.5 | -5 | -9 | 1.4 | -1 | -3 | .3 | .6 | .0 | .8 | .4 | 1.2 | 4.5 | 1.7 | 1.7 | 6.7 | 2.8 |
| 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 | .4 | .7 | .8 | .7 | .4 | -1 | .6 | -3 | .4 | .7 | .6 | -1 | 2.8 | 7.0 | 2.4 | 5.0 | 4.0 |
| 1993 | 1.0 | .2 | .1 | .6 | -5 | .0 | .4 | -3 | 1.1 | .2 | .5 | .9 | 5.0 | 1.6 | 1.6 | 6.2 | 3.8 |
| 1994 | .1 | .6 | .8 | .8 | .8 | .2 | .7 | .4 | .3 | .9 | .9 | 1.0 | 6.3 | 8.8 | 6.2 | 9.0 | 6.0 |
| 1995 | .6 | -2 | .2 | .0 | .2 | .4 | -2 | .9 | .7 | -4 | .0 | -1 | 6.4 | 1.4 | 3.9 | 1.5 | 5.4 |
| 1996 | -1 | 1.2 | -6 | 1.4 | .6 | .6 | .4 | .2 | .3 | .0 | .8 | .5 | 1.5 | 8.1 | 4.9 | 4.2 | 3.6 |
| 1997 | .3 | .7 | .4 | .4 | .2 | .3 | .6 | .7 | .1 | .8 | 1.0 | .4 | 6.2 | 4.9 | 6.1 | 8.1 | 5.7 |
| 1998 | .2 | -4 | .2 | .6 | .1 | -1.2 | -7 | | | | | | 2.3 | 1.1 | | | |
| Industrial Production | | | | | | | | | | | | | | | | | |
| 1986 | 87.9 | 87.4 | 86.6 | 87.8 | 87.7 | 87.5 | 87.7 | 88.2 | 88.2 | 88.9 | 89.3 | 90.3 | 87.3 | 87.7 | 88.0 | 89.5 | 88.1 |
| 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 | 99.8 | 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 | 97.4 | 98.1 | 98.9 | 99.6 | 100.0 | 99.8 | 100.5 | 100.2 | 100.6 | 101.3 | 101.9 | 101.7 | 98.1 | 99.8 | 100.4 | 101.6 | 100.0 |
| 1993 | 102.7 | 102.9 | 103.0 | 103.6 | 103.1 | 103.1 | 103.5 | 103.2 | 104.4 | 104.6 | 105.2 | 106.0 | 102.9 | 103.3 | 103.7 | 105.3 | 103.8 |
| 1994 | 106.2 | 106.8 | 107.7 | 108.5 | 109.4 | 109.6 | 110.4 | 110.9 | 111.2 | 112.2 | 113.2 | 114.3 | 106.9 | 109.2 | 110.8 | 113.2 | 110.0 |
| 1995 | 115.1 | 114.9 | 115.1 | 115.1 | 115.3 | 115.8 | 115.5 | 116.6 | 117.5 | 117.0 | 117.0 | 116.9 | 115.0 | 115.4 | 116.5 | 116.9 | 116.0 |
| 1996 | 116.7 | 118.1 | 117.4 | 119.0 | 119.7 | 120.4 | 120.9 | 121.1 | 121.5 | 121.5 | 122.5 | 123.1 | 117.4 | 119.7 | 121.1 | 122.4 | 120.2 |
| 1997 | 123.5 | 124.4 | 124.9 | 125.4 | 125.7 | 126.1 | 126.9 | 127.9 | 128.0 | 129.1 | 130.4 | 130.9 | 124.2 | 125.7 | 127.6 | 130.1 | 127.0 |
| 1998 | 131.1 | 130.6 | 130.8 | 131.6 | 131.7 | 130.2 | 129.3 | | | | | | 130.8 | 131.2 | | | |
| Capacity | | | | | | | | | | | | | | | | | |
| 1986 | 111.0 | 111.2 | 111.4 | 111.6 | 111.7 | 111.9 | 112.1 | 112.3 | 112.5 | 112.7 | 112.9 | 113.0 | 111.2 | 111.7 | 112.3 | 112.9 | 112.0 |
| 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 | 125.3 | 125.6 | 125.8 | 126.1 | 126.3 | 126.6 | 126.8 | 127.0 | 127.3 | 124.8 | 125.6 | 126.3 | 127.0 | 125.9 |
| 1993 | 127.6 | 127.8 | 128.1 | 128.3 | 128.6 | 128.9 | 129.1 | 129.4 | 129.7 | 129.9 | 130.2 | 130.5 | 127.8 | 128.6 | 129.4 | 130.2 | 129.0 |
| 1994 | 130.9 | 131.3 | 131.8 | 132.2 | 132.7 | 133.2 | 133.6 | 134.1 | 134.6 | 135.1 | 135.5 | 136.0 | 131.3 | 132.7 | 134.1 | 135.5 | 133.4 |
| 1995 | 136.6 | 137.2 | 137.8 | 138.5 | 139.1 | 139.8 | 140.4 | 141.1 | 141.7 | 142.4 | 143.0 | 143.7 | 137.2 | 139.2 | 141.1 | 143.0 | 140.1 |
| 1996 | 144.3 | 144.9 | 145.6 | 146.2 | 146.8 | 147.4 | 148.0 | 148.6 | 149.2 | 149.8 | 150.4 | 151.0 | 144.9 | 146.8 | 148.6 | 150.4 | 147.7 |
| 1997 | 151.6 | 152.3 | 152.9 | 153.6 | 154.3 | 155.0 | 155.7 | 156.3 | 157.0 | 157.6 | 158.3 | 159.0 | 152.3 | 154.3 | 156.3 | 158.3 | 155.3 |
| 1998 | 159.7 | 160.4 | 161.1 | 161.7 | 162.4 | 163.0 | 163.6 | | | | | | 160.4 | 162.4 | | | |
| Utilization | | | | | | | | | | | | | | | | | |
| 1986 | 79.1 | 78.6 | 77.8 | 78.7 | 78.5 | 78.1 | 78.2 | 78.6 | 78.4 | 78.9 | 79.1 | 79.9 | 78.5 | 78.5 | 78.4 | 79.3 | 78.7 |
| 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 | 78.2 | 78.6 | 79.1 | 79.5 | 79.6 | 79.4 | 79.7 | 79.3 | 79.5 | 79.9 | 80.2 | 79.9 | 78.6 | 79.5 | 79.5 | 80.0 | 79.4 |
| 1993 | 80.5 | 80.5 | 80.4 | 80.7 | 80.2 | 80.0 | 80.2 | 79.8 | 80.5 | 80.5 | 80.8 | 81.3 | 80.5 | 80.3 | 80.1 | 80.8 | 80.5 |
| 1994 | 81.1 | 81.3 | 81.7 | 82.1 | 82.4 | 82.3 | 82.6 | 82.7 | 82.6 | 83.0 | 83.5 | 84.1 | 81.4 | 82.3 | 82.6 | 83.5 | 82.5 |
| 1995 | 84.3 | 83.7 | 83.5 | 83.1 | 82.9 | 82.8 | 82.3 | 82.6 | 82.9 | 82.2 | 81.8 | 81.3 | 83.8 | 82.9 | 82.6 | 81.8 | 82.8 |
| 1996 | 80.8 | 81.5 | 80.6 | 81.4 | 81.6 | 81.7 | 81.7 | 81.5 | 81.4 | 81.1 | 81.5 | 81.5 | 81.0 | 81.6 | 81.5 | 81.4 | 81.4 |
| 1997 | 81.4 | 81.7 | 81.6 | 81.6 | 81.4 | 81.3 | 81.5 | 81.8 | 81.6 | 81.9 | 82.3 | 82.3 | 81.6 | 81.5 | 81.6 | 82.2 | 81.7 |
| 1998 | 82.1 | 81.4 | 81.2 | 81.4 | 81.1 | 79.9 | 79.0 | | | | | | 81.6 | 80.8 | | | |

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 | 1997 IP Proportion | Index, 1992 = 100 | | | | | | | | | | | |
|---------------------------------|------------|--------------------------|---------------------|-------|-------|-------------------|------------------|-------------------|-------------------------|-------|-------|-------------------|------------------|-------------------|
| | | | Seasonally adjusted | | | | | | Not seasonally adjusted | | | | | |
| | | | 1998 Jan. | Feb. | Mar. | Apr. ^f | May ^f | June ^f | 1998 Jan. | Feb. | Mar. | Apr. ^f | May ^f | June ^f |
| Metal mining | 10 | .42 | 105.3 | 119.5 | 105.5 | 103.0 | 104.7 | 105.1 | 101.3 | 117.7 | 105.0 | 101.8 | 104.6 | 107.9 |
| Iron ore | 101 | .06 | 116.8 | 113.8 | 105.9 | 116.1 | 114.3 | 119.0 | 104.9 | 105.2 | 101.1 | 106.5 | 117.6 | 122.5 |
| Nonferrous ores | 102-4,8,9 | .36 | 103.4 | 120.3 | 105.4 | 101.0 | 103.2 | 102.9 | 100.9 | 119.8 | 105.7 | 101.2 | 102.7 | 105.7 |
| Copper | 102 | .12 | 104.1 | 110.1 | 108.9 | 103.0 | 108.7 | 98.2 | 102.3 | 110.7 | 107.0 | 103.2 | 105.9 | 103.1 |
| Coal mining | 12 | .86 | 116.0 | 108.4 | 109.4 | 110.6 | 118.2 | 111.7 | 115.3 | 113.8 | 114.7 | 110.4 | 111.6 | 110.8 |
| Oil and gas extraction | 13 | 4.53 | 105.0 | 105.9 | 106.5 | 105.3 | 104.3 | 102.4 | 105.6 | 106.3 | 105.4 | 104.8 | 103.8 | 101.9 |
| Crude oil and natural gas | 131 | 3.44 | 97.3 | 97.5 | 98.4 | 98.2 | 97.5 | 96.8 | 98.1 | 98.7 | 98.8 | 98.0 | 97.2 | 96.1 |
| Crude oil, total | | 1.83 | 87.4 | 86.4 | 87.4 | 88.3 | 86.0 | 85.9 | 88.0 | 87.5 | 88.0 | 88.1 | 86.1 | 85.5 |
| Natural gas | | 1.61 | 110.9 | 112.7 | 113.6 | 111.8 | 113.3 | 111.9 | 112.1 | 114.2 | 113.7 | 111.6 | 112.5 | 110.7 |
| Natural gas liquids | 132 | .23 | 110.4 | 111.9 | 108.3 | 110.5 | 107.5 | 108.9 | 107.8 | 110.7 | 109.1 | 110.2 | 107.6 | 109.0 |
| Oil and gas well drilling | 138 | .86 | 154.0 | 158.9 | 158.6 | 150.5 | 148.1 | 137.5 | 154.0 | 154.6 | 147.9 | 147.7 | 146.4 | 137.8 |
| Stone and earth minerals | 14 | .60 | 124.3 | 122.6 | 117.2 | 120.8 | 120.0 | 121.5 | 92.1 | 90.8 | 90.8 | 101.3 | 130.1 | 141.0 |
| Foods | 20 | 9.30 | 112.9 | 112.0 | 111.4 | 112.2 | 112.3 | 110.7 | 107.5 | 106.1 | 106.8 | 107.7 | 109.8 | 113.0 |
| Meat products | 201 | 1.32 | 118.8 | 119.0 | 116.3 | 118.9 | 115.9 | 112.8 | 117.2 | 118.0 | 116.2 | 117.0 | 115.7 | 116.7 |
| Beef | | .43 | 112.5 | 115.8 | 113.4 | 114.1 | 112.3 | 109.2 | 110.4 | 112.7 | 108.7 | 109.2 | 113.4 | 117.5 |
| Pork | | .27 | 112.8 | 112.1 | 108.1 | 110.3 | 106.3 | 104.7 | 111.8 | 111.0 | 111.5 | 109.4 | 101.3 | 100.8 |
| Poultry | | .61 | 130.8 | 129.0 | 126.6 | 131.2 | 127.6 | 123.7 | 128.0 | 128.6 | 126.9 | 130.0 | 128.2 | 127.7 |
| Miscellaneous meats | | .01 | 83.4 | 80.1 | 81.1 | 81.4 | 78.2 | 74.3 | 83.4 | 85.7 | 90.8 | 83.4 | 73.8 | 72.3 |
| Dairy products | 202 | .80 | 104.4 | 104.4 | 103.3 | 104.2 | 104.5 | 103.6 | 100.6 | 105.1 | 107.6 | 112.1 | 113.0 | 112.9 |
| Butter | 2021 | .01 | 78.8 | 81.9 | 78.9 | 78.2 | 80.6 | 72.6 | 98.5 | 99.2 | 89.1 | 91.0 | 83.8 | 64.8 |
| Cheese | 2022 | .19 | 115.9 | 114.8 | 114.8 | 119.2 | 115.3 | 116.3 | 112.3 | 115.9 | 117.7 | 120.8 | 119.1 | 120.6 |
| Concentrated milk | 2023 | .14 | 88.7 | 87.4 | 84.3 | 82.4 | 83.7 | 84.1 | 91.1 | 90.8 | 91.5 | 100.7 | 101.1 | 95.1 |
| Frozen desserts | 2024 | .13 | 112.4 | 115.1 | 113.0 | 114.4 | 117.7 | 111.8 | 88.0 | 107.5 | 117.7 | 125.5 | 131.6 | 142.7 |
| Milk and misc. dairy products | 2026 | .33 | 104.3 | 104.4 | 104.0 | 104.5 | 105.4 | 104.9 | 103.7 | 105.8 | 107.4 | 109.1 | 109.9 | 108.7 |
| Canned and frozen food | 203 | 1.21 | 106.7 | 103.7 | 105.6 | 107.0 | 105.1 | 104.7 | 95.2 | 93.2 | 95.9 | 97.5 | 98.2 | 102.1 |
| Grain mill products | 204 | 1.37 | 119.0 | 117.9 | 118.8 | 120.1 | 120.3 | 118.3 | 116.7 | 114.4 | 117.2 | 114.5 | 117.4 | 117.0 |
| Bakery products | 205 | .99 | 106.0 | 104.7 | 103.1 | 103.9 | 104.6 | 103.8 | 98.8 | 95.1 | 94.7 | 97.9 | 101.5 | 108.7 |
| Sugar and confectionery | 206 | .61 | 111.9 | 113.2 | 110.2 | 113.0 | 113.7 | 112.5 | 114.4 | 108.0 | 103.3 | 95.5 | 97.9 | 100.4 |
| Fats and oils | 207 | .25 | 108.4 | 112.1 | 110.3 | 108.6 | 106.2 | 104.8 | 112.1 | 116.6 | 113.7 | 108.9 | 102.0 | 100.8 |
| Beverages | 208 | 1.68 | 114.9 | 114.0 | 114.2 | 112.6 | 115.6 | 113.0 | 105.1 | 103.2 | 108.9 | 112.1 | 116.7 | 122.4 |
| Beer and ale | 2082,3 | .54 | 104.3 | 103.5 | 101.3 | 99.7 | 105.2 | 99.9 | 97.8 | 96.4 | 103.9 | 109.6 | 114.4 | 113.8 |
| Soft drinks | 2086,7 | .94 | 125.9 | 125.5 | 127.2 | 125.3 | 127.1 | 125.8 | 113.9 | 110.8 | 114.7 | 117.9 | 124.0 | 134.5 |
| Coffee and miscellaneous | 209 | 1.06 | 118.6 | 117.1 | 116.0 | 116.1 | 117.5 | 116.1 | 113.3 | 110.5 | 105.5 | 107.3 | 112.6 | 118.3 |
| Roasted coffee | 2095 | .13 | 87.9 | 90.8 | 92.0 | 90.7 | 96.5 | | 97.4 | 102.5 | 76.6 | 82.0 | 90.5 | |
| Tobacco products | 21 | 1.30 | 116.9 | 115.9 | 114.7 | 114.0 | 114.0 | 113.1 | 113.3 | 119.8 | 121.3 | 110.3 | 108.7 | 128.6 |
| Textile mill products | 22 | 1.52 | 111.8 | 109.6 | 108.9 | 109.2 | 111.5 | 108.0 | 105.2 | 108.0 | 108.5 | 112.9 | 114.1 | 113.3 |
| Fabrics | 221-4 | .38 | 105.6 | 109.7 | 108.1 | 109.4 | 107.3 | 106.9 | 106.3 | 109.9 | 110.5 | 112.3 | 112.1 | 107.9 |
| Cotton and synthetic | 221,2 | .31 | 103.7 | 109.3 | 108.0 | 110.1 | 108.2 | | 103.9 | 108.7 | 109.5 | 112.5 | 112.7 | |
| Narrow fabrics | 224 | .04 | 111.6 | 113.5 | 112.7 | 113.0 | 109.1 | 107.3 | 111.0 | 110.7 | 112.0 | 109.3 | 110.1 | 111.3 |
| Knit goods | 225 | .42 | 112.4 | 109.1 | 113.8 | 113.7 | 113.8 | 111.9 | 93.9 | 103.2 | 105.9 | 113.8 | 119.1 | 125.2 |
| Knit garments | 2253,4,7-9 | .31 | 116.6 | 111.8 | 118.3 | 118.5 | 118.9 | 116.4 | 96.6 | 105.9 | 108.5 | 113.2 | 123.6 | 128.2 |
| Fabric finishing | 226 | .13 | 89.1 | 94.1 | 91.9 | 92.9 | 93.6 | | 89.6 | 95.6 | 91.1 | 97.1 | 98.3 | |
| Carpeting | 227 | .19 | 129.6 | 115.4 | 104.7 | 107.1 | 124.6 | 107.2 | 117.1 | 110.3 | 108.6 | 124.9 | 113.8 | 112.7 |
| Yarns and miscellaneous | 228,9 | .40 | 117.9 | 113.4 | 113.6 | 111.9 | 113.9 | 111.5 | 117.3 | 115.3 | 116.8 | 112.9 | 117.3 | 115.4 |
| Cotton and synthetic yarns | 2281,2,4 | .19 | 113.9 | 106.0 | 105.8 | 101.6 | 105.2 | 101.9 | 113.0 | 110.4 | 111.3 | 105.8 | 110.8 | 106.4 |
| Apparel products | 23 | 1.77 | 99.3 | 97.7 | 98.2 | 98.3 | 97.2 | 97.1 | 96.1 | 95.9 | 97.2 | 94.9 | 97.5 | 99.8 |
| Lumber and products | 24 | 2.08 | 114.8 | 116.7 | 115.6 | 116.7 | 116.7 | 117.2 | 109.2 | 114.0 | 114.5 | 116.9 | 115.3 | 121.0 |
| Logging and lumber | 241,2 | .82 | 105.3 | 107.9 | 106.4 | 107.9 | 106.8 | 106.8 | 100.7 | 106.9 | 105.8 | 106.6 | 103.0 | 111.5 |
| Logging | 241 | .28 | 89.7 | 90.6 | 89.6 | 88.2 | 90.2 | 90.6 | 83.6 | 85.9 | 82.9 | 81.4 | 86.3 | 93.0 |
| Lumber products | 243-5,9 | 1.26 | 121.9 | 123.4 | 122.6 | 123.3 | 124.1 | 125.0 | 115.6 | 119.4 | 121.1 | 124.7 | 124.5 | 128.2 |
| Millwork and plywood | 243 | .68 | 121.9 | 123.3 | 121.9 | 122.3 | 122.7 | 123.5 | 115.3 | 116.4 | 118.3 | 120.9 | 123.8 | 126.9 |
| Plywood | 2435,6 | .15 | 102.0 | 100.4 | 100.3 | 105.2 | 102.4 | 103.1 | 98.5 | 100.1 | 101.4 | 104.9 | 104.6 | 106.1 |
| Manufactured homes | 245 | .21 | 144.0 | 148.6 | 145.4 | 146.9 | 148.6 | | 124.3 | 142.1 | 147.8 | 154.6 | 153.0 | |

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 | 1997 IP Proportion ¹ | Index, 1992 = 100 | | | | | | | | | | | |
|--|-----------|---------------------------------------|---------------------|-------|-------|-------------------|------------------|-------------------|-------------------------|-------|-------|-------------------|------------------|-------------------|
| | | | Seasonally adjusted | | | | | | Not seasonally adjusted | | | | | |
| | | | 1998 Jan. | Feb. | Mar. | Apr. ^f | May ^f | June ^f | 1998 Jan. | Feb. | Mar. | Apr. ^f | May ^f | June ^f |
| Furniture and fixtures | 25 | 1.39 | 122.5 | 120.4 | 123.0 | 122.3 | 121.8 | 122.4 | 117.9 | 120.2 | 120.6 | 120.3 | 118.3 | 123.5 |
| Household furniture | 251 | .63 | 120.1 | 118.5 | 120.5 | 120.5 | 121.5 | 120.9 | 116.0 | 120.6 | 120.9 | 121.3 | 117.9 | 121.6 |
| Paper and products | 26 | 3.42 | 112.4 | 114.6 | 112.4 | 113.2 | 112.7 | 112.1 | 113.8 | 115.8 | 113.0 | 114.0 | 111.1 | 113.7 |
| Pulp and paper | 261-3 | 1.57 | 113.2 | 114.4 | 112.0 | 112.7 | 111.5 | 111.4 | 114.3 | 116.1 | 112.5 | 112.6 | 110.6 | 113.0 |
| Wood pulp | 261 | .14 | 101.6 | 103.0 | 101.2 | 102.2 | 104.5 | 99.2 | 103.6 | 104.0 | 99.4 | 103.1 | 102.0 | 99.9 |
| Paper | 262 | .93 | 109.1 | 112.0 | 109.3 | 110.5 | 109.7 | 109.2 | 110.7 | 113.3 | 110.0 | 110.5 | 108.3 | 109.7 |
| Paperboard | 263 | .51 | 124.7 | 122.3 | 120.3 | 120.0 | 116.9 | 119.2 | 124.6 | 124.9 | 121.1 | 119.4 | 117.5 | 123.2 |
| Paper products | 265.7 | 1.85 | 111.5 | 114.6 | 112.6 | 113.4 | 113.5 | 112.6 | 113.2 | 115.4 | 113.2 | 115.0 | 111.3 | 114.0 |
| Paperboard containers | 265 | .63 | 113.6 | 118.1 | 118.5 | 116.6 | 119.4 | 118.4 | 113.9 | 117.6 | 118.9 | 120.9 | 114.5 | 121.8 |
| Converted paper products | 267 | 1.22 | 110.3 | 112.7 | 109.5 | 111.6 | 110.4 | 109.6 | 112.5 | 114.0 | 110.1 | 111.7 | 109.4 | 109.8 |
| Printing and publishing | 27 | 6.58 | 106.5 | 105.6 | 105.0 | 104.8 | 104.5 | 103.3 | 101.0 | 100.8 | 100.2 | 102.9 | 101.4 | 104.6 |
| Newspapers | 271 | 1.53 | 97.9 | 98.1 | 98.3 | 98.3 | 98.7 | 97.7 | 92.8 | 97.7 | 94.2 | 103.2 | 96.4 | 96.0 |
| Periodicals, books, and cards | 272,3,7 | 2.08 | 111.0 | 107.9 | 106.1 | 105.2 | 104.7 | 103.8 | 109.0 | 107.5 | 107.0 | 106.1 | 104.6 | 103.2 |
| Job printing | 274-6,8,9 | 2.97 | 108.2 | 108.2 | 107.8 | 108.0 | 107.4 | 106.1 | 100.1 | 98.0 | 98.8 | 100.4 | 101.9 | 110.2 |
| Chemicals and products | 28 | 10.01 | 118.7 | 117.6 | 117.7 | 118.7 | 118.2 | 118.2 | 115.3 | 114.7 | 114.9 | 116.5 | 116.5 | 121.4 |
| Industrial chemicals and synthetic materials | 281,2,6 | 3.83 | 116.7 | 114.6 | 113.8 | 114.3 | 112.9 | 112.0 | 115.8 | 116.3 | 115.0 | 116.6 | 113.3 | 113.1 |
| Basic chemicals | 281 | .75 | 97.1 | 93.2 | 92.5 | 92.3 | 91.2 | 88.6 | 93.8 | 95.7 | 90.7 | 92.7 | 89.9 | 90.4 |
| Alkalies and chlorine | 2812 | .08 | 123.3 | 120.9 | 117.2 | 112.8 | 121.3 | 109.0 | 122.2 | 120.9 | 116.6 | 112.4 | 117.8 | 110.7 |
| Inorganic pigments | 2816 | .08 | 97.5 | 99.1 | 92.7 | 101.4 | 88.5 | 97.4 | 96.1 | 99.9 | 93.6 | 104.3 | 90.3 | 100.7 |
| Inorganic chemicals, nec | 2819 | .46 | 91.5 | 85.6 | 85.8 | 85.2 | 85.1 | 81.6 | 87.4 | 89.0 | 83.1 | 85.5 | 83.2 | 83.6 |
| Acids and other | | .35 | 114.3 | 106.6 | 104.7 | 105.5 | 105.9 | 105.9 | 107.9 | 111.9 | 100.6 | 106.0 | 103.0 | 109.0 |
| Synthetic materials | 282 | 1.41 | 126.7 | 124.6 | 123.4 | 126.5 | 124.0 | 123.4 | 124.6 | 127.4 | 127.2 | 130.4 | 125.4 | 125.5 |
| Plastics materials | 2821 | .92 | 134.3 | 129.7 | 128.3 | 132.7 | 130.7 | | 131.2 | 132.8 | 132.7 | 137.5 | 132.0 | |
| Synthetic fibers | 2823,4 | .35 | 110.5 | 114.1 | 112.3 | 114.6 | 107.3 | 109.3 | 109.2 | 116.0 | 112.9 | 115.1 | 108.2 | 111.1 |
| Industrial organic chemicals | 286 | 1.67 | 120.6 | 119.4 | 118.9 | 117.8 | 117.1 | 116.8 | 121.8 | 119.8 | 119.7 | 119.8 | 117.6 | 116.7 |
| Chemical products | 283-5,9 | 5.56 | 121.7 | 121.3 | 122.1 | 123.5 | 123.2 | 123.7 | 116.0 | 114.6 | 115.9 | 117.4 | 119.7 | 129.1 |
| Drugs and medicines | 283 | 3.01 | 125.1 | 123.7 | 123.7 | 125.0 | 124.9 | 124.8 | 117.0 | 114.8 | 115.0 | 116.4 | 120.0 | 131.5 |
| Soap and toiletries | 284 | 1.52 | 118.2 | 117.8 | 119.1 | 122.0 | 120.4 | 122.2 | 116.3 | 113.5 | 115.1 | 115.5 | 115.4 | 124.7 |
| Paints | 285 | .41 | 107.9 | 112.3 | 112.7 | 111.3 | 111.9 | 109.7 | 92.1 | 108.4 | 113.0 | 120.2 | 122.2 | 126.0 |
| Agricultural chemicals | 287 | .62 | 105.3 | 104.1 | 104.0 | 103.4 | 106.8 | 108.1 | 105.8 | 105.4 | 105.0 | 107.1 | 107.8 | 106.0 |
| Petroleum products | 29 | 1.82 | 112.3 | 111.9 | 114.8 | 114.4 | 112.7 | 113.3 | 104.0 | 103.4 | 107.0 | 112.5 | 114.6 | 118.0 |
| Petroleum refining and misc. | 291,9 | 1.65 | 110.3 | 108.6 | 111.4 | 111.6 | 109.9 | 110.5 | 103.8 | 101.9 | 105.4 | 110.7 | 111.8 | 114.6 |
| Miscellaneous petroleum products | | .39 | 116.8 | 112.5 | 113.3 | 111.7 | 109.1 | 110.7 | 95.9 | 98.3 | 106.0 | 113.2 | 116.6 | 124.8 |
| Distillate fuel oil | | .29 | 116.2 | 118.0 | 119.1 | 116.0 | 117.5 | | 111.7 | 110.9 | 113.9 | 116.0 | 118.5 | |
| Residual fuel oil | | .05 | 78.3 | 71.4 | 92.2 | 100.8 | 89.9 | | 85.9 | 75.4 | 88.4 | 95.5 | 86.6 | |
| Aviation fuel and kerosene | | .15 | 105.5 | 105.6 | 115.0 | 113.5 | 111.7 | | 110.8 | 105.3 | 109.4 | 108.1 | 107.0 | |
| Automotive gasoline | | .76 | 108.3 | 106.9 | 108.4 | 110.1 | 108.6 | | 105.1 | 102.2 | 102.9 | 109.3 | 110.1 | |
| Paving and roofing materials | 295 | .18 | 129.0 | 140.9 | 144.8 | 138.8 | 137.4 | 138.1 | 103.6 | 115.3 | 119.4 | 127.2 | 139.7 | 148.3 |
| Rubber and plastics products | 30 | 3.65 | 129.3 | 129.4 | 129.7 | 131.9 | 131.5 | 130.7 | 127.3 | 129.5 | 130.2 | 129.0 | 131.2 | 132.8 |
| Tires | 301 | .32 | 120.6 | 123.8 | 124.6 | 127.2 | 135.4 | 120.8 | 123.8 | 135.9 | 137.7 | 129.1 | 132.7 | 126.0 |
| Other rubber products | 302,5,6 | .63 | 126.4 | 123.4 | 124.6 | 128.3 | 126.7 | 126.1 | 117.5 | 123.1 | 124.5 | 126.0 | 124.9 | 129.9 |
| Plastics products, nec | 308 | 2.70 | 131.3 | 131.7 | 131.8 | 133.5 | 132.3 | 133.2 | 130.2 | 130.5 | 130.8 | 129.9 | 132.7 | 134.5 |
| Leather and products | 31 | .18 | 69.4 | 70.8 | 69.4 | 67.7 | 67.3 | 66.6 | 67.6 | 69.2 | 69.2 | 67.1 | 67.8 | 68.5 |
| Shoes | 314 | .07 | 64.6 | 66.3 | 64.5 | 62.2 | 61.9 | 62.4 | 63.4 | 64.0 | 63.2 | 60.7 | 62.4 | 64.3 |
| Stone, clay, and glass products | 32 | 2.24 | 122.3 | 121.4 | 120.7 | 120.2 | 120.9 | 120.5 | 114.7 | 115.7 | 117.3 | 120.3 | 122.0 | 125.0 |
| Pressed and blown glass | 322 | .30 | 106.1 | 103.3 | 103.7 | 104.9 | 103.4 | 104.1 | 102.2 | 104.1 | 104.3 | 106.2 | 105.4 | 108.1 |
| Glass containers | 3221 | .11 | 77.7 | 76.8 | 76.8 | 76.9 | 75.0 | 72.8 | 73.2 | 79.9 | 80.0 | 80.0 | 78.4 | 79.6 |
| Cement | 324 | .19 | 138.0 | 132.8 | 128.1 | 132.9 | 128.8 | | 81.9 | 93.6 | 110.8 | 132.6 | 141.2 | |
| Structural clay products | 325 | .12 | 119.0 | 117.1 | 116.0 | 120.7 | 123.3 | 124.1 | 107.4 | 113.9 | 117.8 | 125.5 | 131.3 | 134.1 |
| Concrete and miscellaneous | 326-9 | 1.35 | 125.9 | 126.8 | 126.1 | 123.6 | 125.1 | 124.7 | 124.0 | 122.8 | 122.8 | 123.7 | 124.3 | 126.7 |

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 | 1997 IP Proportion ¹ | Index, 1992 = 100 | | | | | | | | | | | |
|--|--------------|---------------------------------------|---------------------|-------|-------|-------------------|------------------|-------------------|-------------------------|-------|-------|-------------------|------------------|-------------------|
| | | | Seasonally adjusted | | | | | | Not seasonally adjusted | | | | | |
| | | | 1998 Jan. | Feb. | Mar. | Apr. ^f | May ^f | June ^f | 1998 Jan. | Feb. | Mar. | Apr. ^f | May ^f | June ^f |
| Primary metals | 33 | 3.47 | 129.3 | 128.1 | 127.1 | 128.2 | 126.1 | 123.3 | 128.3 | 131.8 | 130.8 | 130.0 | 127.3 | 123.5 |
| Iron and steel | 331.2 | 1.86 | 127.9 | 127.0 | 126.7 | 126.4 | 124.0 | 120.4 | 126.2 | 131.4 | 130.7 | 130.0 | 125.6 | 120.5 |
| Basic steel and mill products | 331 | 1.43 | 129.5 | 130.7 | 129.3 | 127.7 | 125.6 | 121.6 | 129.4 | 135.7 | 133.5 | 131.0 | 127.8 | 122.1 |
| Basic iron and steel | | .28 | 113.0 | 111.7 | 109.9 | 111.0 | 110.0 | 103.8 | 113.5 | 114.5 | 113.1 | 111.3 | 109.7 | 104.0 |
| Pig iron | | .16 | 112.3 | 109.3 | 108.5 | 109.7 | 108.6 | 101.0 | 113.0 | 111.9 | 111.3 | 108.4 | 107.9 | 101.3 |
| Raw steel | | .09 | 122.8 | 123.7 | 119.5 | 122.8 | 122.3 | 115.9 | 123.1 | 128.5 | 124.8 | 125.3 | 122.5 | 116.1 |
| Steel mill products | | 1.15 | 134.3 | 136.4 | 135.0 | 132.6 | 130.2 | 126.8 | 134.1 | 142.0 | 139.5 | 136.8 | 133.2 | 127.4 |
| Consumer durable steel | | .18 | 130.4 | 136.8 | 138.1 | 135.1 | 130.4 | 117.0 | 130.2 | 147.1 | 149.1 | 140.6 | 139.3 | 117.4 |
| Equipment steel | | .12 | 131.4 | 124.0 | 131.0 | 132.2 | 126.2 | 120.0 | 135.2 | 132.0 | 136.6 | 134.6 | 126.6 | 119.0 |
| Construction steel | | .14 | 157.1 | 159.7 | 155.9 | 158.8 | 159.0 | 160.1 | 147.7 | 157.6 | 150.6 | 158.2 | 161.5 | 159.9 |
| Can and closure steel | | .04 | 116.5 | 108.6 | 108.0 | 105.7 | 96.9 | 105.4 | 102.0 | 102.6 | 110.4 | 102.8 | 100.3 | 105.1 |
| Miscellaneous steel | | .66 | 133.6 | 136.9 | 133.7 | 129.9 | 128.7 | 126.7 | 134.8 | 142.7 | 137.7 | 134.9 | 130.1 | 127.4 |
| Iron and steel foundries | 332 | .43 | 122.7 | 114.9 | 118.4 | 121.9 | 118.3 | 116.3 | 115.8 | 117.7 | 121.6 | 126.3 | 118.1 | 115.1 |
| Nonferrous metals | 333-6.9 | 1.61 | 131.0 | 129.4 | 127.5 | 130.4 | 128.7 | 126.8 | 130.8 | 132.2 | 131.0 | 130.1 | 129.3 | 127.1 |
| Primary nonferrous metals | 333 | .27 | 109.4 | 108.9 | 109.7 | 111.6 | 110.1 | 107.3 | 110.8 | 111.6 | 110.9 | 112.5 | 109.5 | 105.9 |
| Copper | 3331 | .08 | 133.9 | 135.9 | 132.0 | 133.9 | 129.0 | 126.9 | 135.5 | 139.7 | 131.6 | 134.7 | 125.6 | 125.7 |
| Aluminum | 3334 | .14 | 89.8 | 90.0 | 90.9 | 92.1 | 92.3 | 92.6 | 90.3 | 90.5 | 91.3 | 92.0 | 92.2 | 92.6 |
| Nonferrous products | 335.6 | 1.08 | 129.5 | 127.5 | 125.4 | 129.3 | 126.6 | 124.8 | 130.3 | 130.2 | 129.4 | 127.8 | 127.8 | 125.7 |
| Nonferrous mill products | 335 | .78 | 122.7 | 120.3 | 118.2 | 123.5 | 120.4 | 119.5 | 123.6 | 123.5 | 123.2 | 123.4 | 122.1 | 120.7 |
| Aluminum | 3353-5 | .26 | 108.4 | 108.5 | 100.9 | 111.9 | 106.5 | 103.8 | 109.8 | 114.3 | 111.5 | 116.8 | 107.5 | 107.4 |
| Nonferrous foundries | 336 | .30 | 151.9 | 151.5 | 149.1 | 148.7 | 147.3 | 142.5 | 152.7 | 152.4 | 150.1 | 142.7 | 147.2 | 142.6 |
| Fabricated metal products | 34 | 5.25 | 125.6 | 124.3 | 125.0 | 125.6 | 126.4 | 125.7 | 121.3 | 122.5 | 123.8 | 122.0 | 125.0 | 128.0 |
| Metal containers | 341 | .16 | 101.5 | 99.6 | 100.3 | 104.3 | 103.4 | 103.4 | 90.3 | 84.4 | 96.1 | 102.1 | 114.3 | 122.2 |
| Hardware, tools, and cutlery | 342 | .55 | 124.4 | 122.3 | 122.2 | 122.7 | 124.5 | 121.8 | 117.3 | 121.5 | 120.6 | 118.6 | 121.4 | 124.6 |
| Hardware and tools | 3423,5,9 | .47 | 123.3 | 120.8 | 121.3 | 122.0 | 124.1 | 121.0 | 115.5 | 120.1 | 119.5 | 118.0 | 120.8 | 121.0 |
| Structural metal products | 344 | 1.43 | 126.4 | 126.7 | 126.0 | 124.8 | 126.4 | 126.4 | 123.5 | 122.1 | 122.2 | 121.0 | 125.2 | 127.6 |
| Other fabricated metal products | 345-9 | 2.90 | 128.4 | 126.4 | 127.9 | 129.0 | 129.1 | 128.6 | 124.7 | 127.5 | 128.8 | 126.8 | 128.5 | 130.5 |
| Fasteners, stampings, etc. | 345-7 | 1.64 | 133.3 | 130.1 | 132.8 | 134.6 | 135.6 | 134.6 | 126.4 | 131.8 | 134.4 | 133.4 | 134.7 | 137.8 |
| Industrial machinery and equipment | 35 | 8.66 | 180.3 | 179.4 | 183.8 | 186.3 | 188.2 | 190.5 | 175.1 | 181.5 | 185.2 | 184.8 | 188.5 | 197.4 |
| Engines and turbines | 351 | .43 | 118.8 | 116.6 | 120.2 | 120.4 | 118.5 | 117.4 | 120.7 | 118.0 | 121.1 | 115.9 | 119.3 | 116.9 |
| Farm | 352 | .52 | 152.5 | 152.8 | 151.8 | 156.9 | 159.3 | 162.3 | 160.5 | 172.6 | 170.4 | 165.2 | 167.0 | 165.7 |
| Construction and allied | 353 | .94 | 157.0 | 155.7 | 160.0 | 161.8 | 162.9 | 176.8 | 158.2 | 165.3 | 170.2 | 163.5 | 166.8 | 185.1 |
| Metalworking | 354 | 1.13 | 135.4 | 132.0 | 138.7 | 136.9 | 135.5 | 135.6 | 127.4 | 130.7 | 136.2 | 132.9 | 132.5 | 138.7 |
| Special industry machinery | 355 | .91 | 152.3 | 151.0 | 150.7 | 150.9 | 146.0 | 148.6 | 153.2 | 151.6 | 151.9 | 146.9 | 146.4 | 148.2 |
| General industrial machinery | 356 | 1.12 | 126.1 | 122.9 | 125.3 | 126.5 | 126.1 | 127.2 | 121.0 | 122.7 | 124.1 | 122.5 | 124.9 | 129.4 |
| Bearings and gears | 3562,6,8 | .33 | 122.9 | 122.7 | 122.2 | 122.3 | 122.6 | 121.2 | 124.4 | 124.3 | 123.0 | 115.5 | 122.3 | 120.8 |
| Equipment | 3561,3-5,7,9 | .79 | 127.5 | 123.0 | 126.6 | 128.4 | 127.7 | 129.8 | 119.5 | 122.0 | 124.5 | 125.6 | 126.1 | 133.2 |
| Computer and office equip. | 357 | 1.48 | 457.1 | 476.6 | 500.5 | 520.1 | 534.2 | 553.7 | 431.9 | 461.0 | 470.1 | 503.8 | 519.9 | 582.1 |
| Service industry machines | 358 | .82 | 131.6 | 136.0 | 134.3 | 139.3 | 152.0 | 141.6 | 126.3 | 142.6 | 148.6 | 150.9 | 160.2 | 152.6 |
| Refrig. and heating equip. | 3585 | .56 | 131.0 | 136.5 | 133.2 | 139.2 | 158.2 | 142.3 | 123.0 | 146.3 | 154.0 | 158.6 | 169.6 | 158.0 |
| Miscellaneous machinery | 359 | 1.31 | 161.5 | 153.5 | 156.8 | 156.2 | 156.0 | 154.7 | 151.2 | 151.2 | 153.1 | 152.0 | 153.1 | 159.4 |
| Electrical machinery | 36 | 8.33 | 252.9 | 254.1 | 254.9 | 257.5 | 257.9 | 258.4 | 248.2 | 253.3 | 253.8 | 250.6 | 254.6 | 260.0 |
| Major electrical and parts | 361.2 | .98 | 122.4 | 121.2 | 122.6 | 122.1 | 122.7 | 122.5 | 117.1 | 118.9 | 120.5 | 119.2 | 120.9 | 125.7 |
| Electric distribution equip. | 361 | .33 | 117.2 | 116.6 | 117.7 | 119.7 | 120.5 | 119.4 | 110.7 | 113.6 | 114.6 | 113.5 | 116.2 | 121.8 |
| Household appliances | 363 | .44 | 133.7 | 132.3 | 133.0 | 130.6 | 133.5 | 127.1 | 128.8 | 140.6 | 139.2 | 129.3 | 131.9 | 131.6 |
| Cooking equipment | 3631 | .08 | 130.4 | 124.4 | 125.9 | 127.6 | 134.6 | 126.7 | 123.7 | 130.2 | 127.1 | 125.1 | 133.7 | 129.6 |
| Refrigerators and freezers | 3632 | .07 | 129.2 | 140.4 | 132.6 | 136.4 | 131.4 | 127.1 | 119.7 | 148.5 | 142.2 | 139.9 | 141.3 | 141.7 |
| Laundry | 3633 | .08 | 153.3 | 144.2 | 153.1 | 145.9 | 148.3 | 137.6 | 145.6 | 162.1 | 166.0 | 148.6 | 141.8 | 141.6 |
| Miscellaneous | 3634,5,9 | .21 | 128.9 | 127.4 | 128.0 | 123.6 | 127.8 | 122.7 | 127.3 | 133.4 | 132.5 | 119.5 | 123.6 | 124.5 |
| Electrical housewares | 3634 | .05 | 108.9 | 109.3 | 107.5 | 108.3 | 104.0 | 104.9 | 102.2 | 101.9 | 100.7 | 96.5 | 102.5 | 106.3 |
| Appliances, nec | 3639 | .11 | 155.5 | 157.8 | 160.4 | 149.1 | 161.3 | 149.0 | 153.1 | 170.4 | 168.5 | 149.2 | 157.5 | 152.4 |
| Audio and video equipment | 365 | .13 | 99.9 | 93.8 | 101.7 | 94.5 | 71.8 | 78.1 | 92.3 | 91.2 | 100.7 | 85.8 | 69.3 | 75.9 |
| Communication equipment | 366 | 2.05 | 183.6 | 185.1 | 182.8 | 187.4 | 187.0 | 189.8 | 183.4 | 184.3 | 181.6 | 181.7 | 184.0 | 188.0 |
| Electronic components | 367 | 3.44 | 556.5 | 563.4 | 564.8 | 572.7 | 578.0 | 580.3 | 550.6 | 561.9 | 564.5 | 561.0 | 574.7 | 582.1 |
| Semiconductors | 3672-9 | 3.37 | 577.5 | 584.0 | 586.0 | 593.4 | 599.2 | 601.6 | 571.7 | 582.6 | 585.9 | 581.1 | 595.2 | 604.1 |
| Misc. electrical supplies | 369 | .64 | 122.8 | 124.8 | 128.1 | 130.3 | 129.7 | 128.1 | 121.3 | 123.3 | 125.8 | 123.0 | 124.4 | 128.5 |
| Storage batteries | 3691 | .10 | 107.8 | 108.9 | 129.9 | 134.0 | 142.0 | 140.9 | 91.7 | 100.9 | 119.3 | 113.2 | 116.0 | 139.5 |
| Transportation equipment | 37 | 8.95 | 119.9 | 118.8 | 118.7 | 119.4 | 120.7 | 110.8 | 116.7 | 125.6 | 127.6 | 122.1 | 125.6 | 112.5 |
| Motor vehicles and parts | 371 | 5.16 | 138.3 | 136.7 | 136.6 | 138.3 | 140.2 | 119.9 | 131.4 | 150.4 | 154.0 | 146.3 | 150.6 | 122.6 |
| Autos | | 1.33 | 108.0 | 98.4 | 100.1 | 100.9 | 101.9 | 88.2 | 96.2 | 111.5 | 114.5 | 106.1 | 112.2 | 90.0 |
| Trucks and truck trailers | | 1.65 | 160.6 | 164.5 | 163.4 | 167.6 | 170.4 | 144.5 | 145.4 | 184.3 | 187.4 | 177.4 | 182.4 | 147.5 |
| Trucks and buses | | 1.57 | 160.5 | 163.9 | 163.3 | 167.6 | 169.7 | 142.0 | 145.0 | 184.2 | 187.6 | 177.4 | 182.2 | 144.9 |
| Consumer trucks | | .93 | 168.2 | 172.7 | 172.0 | 176.0 | 179.4 | 144.0 | 149.9 | 192.7 | 198.6 | 183.6 | 190.0 | 146.0 |
| Business trucks | | .63 | 152.3 | 154.3 | 153.8 | 158.4 | 158.9 | 141.3 | 137.9 | 172.2 | 172.1 | 168.6 | 171.0 | 143.1 |
| Motor vehicle parts | 3714 | 2.12 | 147.5 | 149.5 | 147.6 | 148.2 | 150.7 | 128.1 | 151.5 | 159.3 | 162.7 | 156.8 | 160.4 | 131.6 |
| Motor homes | 3716 | .06 | 120.0 | 104.7 | 125.6 | 126.9 | 121.7 | 122.8 | 112.4 | 113.5 | 143.2 | 152.5 | 121.1 | 120.0 |
| Aerospace and miscellaneous transportation equipment | 372-6,9 | 3.79 | 101.8 | 101.1 | 101.0 | 100.7 | 101.4 | 101.4 | 102.0 | 101.3 | 101.9 | 98.4 | 101.1 | 102.0 |
| Aircraft and parts | 372 | 2.66 | 110.2 | 108.9 | 109.1 | 109.1 | 109.7 | 109.3 | 110.7 | 109.8 | 110.1 | 106.3 | 109.2 | 110.1 |
| Ships and boats | 373 | .38 | 88.4 | 89.0 | 87.8 | 86.2 | 88.8 | 90.3 | 88.1 | 86.9 | 88.1 | 83.5 | 89.0 | 89.8 |
| Railroad and miscellaneous | 374-6,9 | .76 | 82.4 | 83.0 | 82.7 | 81.9 | 82.1 | 82.4 | 82.0 | 82.4 | 83.1 | 81.4 | 82.1 | 83.0 |

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 | 1997 IP Proportion ¹ | Index, 1992 = 100 | | | | | | | | | | | |
|---------------------------|----------------|---------------------------------------|---------------------|-------|-------|-------------------|------------------|-------------------|-------------------------|-------|-------|-------------------|------------------|-------------------|
| | | | Seasonally adjusted | | | | | | Not seasonally adjusted | | | | | |
| | | | 1998 Jan. | Feb. | Mar. | Apr. ^f | May ^f | June ^f | 1998 Jan. | Feb. | Mar. | Apr. ^f | May ^f | June ^f |
| Instruments | 38 | 4.68 | 109.0 | 109.6 | 109.9 | 110.4 | 110.3 | 109.9 | 106.4 | 108.2 | 108.7 | 107.5 | 108.3 | 111.6 |
| Scientific and medical | 381-4 | 3.83 | 107.9 | 108.5 | 108.9 | 109.3 | 110.2 | 109.9 | 104.9 | 107.0 | 107.5 | 106.1 | 107.8 | 111.8 |
| Medical instruments | 384 | 1.42 | 108.8 | 110.4 | 112.1 | 112.0 | 114.2 | 114.7 | 101.4 | 104.9 | 106.8 | 107.0 | 109.8 | 120.4 |
| Misc. manufactures | 39 | 1.37 | 128.0 | 128.4 | 128.5 | 129.1 | 127.3 | 127.0 | 123.6 | 126.1 | 127.9 | 125.4 | 126.3 | 127.3 |
| Consumer goods | 391,3,4,6 | .67 | 122.1 | 121.6 | 124.0 | 124.0 | 122.0 | 121.7 | 118.4 | 120.1 | 124.1 | 121.5 | 120.9 | 120.7 |
| Business supplies | 395,9 | .70 | 133.9 | 135.2 | 133.2 | 134.4 | 132.7 | 132.5 | 129.0 | 132.0 | 131.7 | 129.4 | 131.7 | 134.0 |
| Electric utilities | 491,3pt | 6.08 | 110.2 | 110.6 | 115.6 | 114.2 | 118.8 | 118.1 | 117.2 | 110.5 | 110.2 | 102.8 | 110.1 | 122.4 |
| Generation | | 2.47 | 108.3 | 110.7 | 115.1 | 112.3 | 116.9 | 116.7 | 113.5 | 113.3 | 110.3 | 102.9 | 112.2 | 123.6 |
| Fossil fuel | | 1.18 | 107.5 | 106.7 | 114.4 | 112.8 | 120.7 | | 109.6 | 104.8 | 104.9 | 99.4 | 111.1 | |
| Hydro and nuclear | | 1.29 | 109.2 | 114.7 | 116.0 | 112.2 | 113.6 | | 117.5 | 121.6 | 115.7 | 106.4 | 113.5 | |
| Sales | | 3.60 | 111.6 | 110.5 | 116.0 | 115.5 | 120.2 | 119.1 | 119.9 | 108.6 | 110.2 | 102.8 | 108.8 | 121.7 |
| Residential | | 1.51 | 110.3 | 106.5 | 117.2 | 115.4 | 121.7 | | 132.1 | 111.5 | 110.6 | 95.4 | 99.8 | |
| Nonresidential | | 2.09 | 112.6 | 113.4 | 115.1 | 115.6 | 119.2 | 117.4 | 111.1 | 106.6 | 109.9 | 108.2 | 115.4 | 122.5 |
| Commercial and other | | 1.29 | 116.7 | 115.7 | 119.7 | 120.1 | 124.4 | | 116.4 | 108.4 | 112.5 | 109.8 | 117.5 | |
| Industrial | | .80 | 106.7 | 110.1 | 108.4 | 109.2 | 111.7 | | 103.5 | 104.0 | 106.2 | 105.9 | 112.3 | |
| Gas utilities | 492,3pt | 1.55 | 103.0 | 99.0 | 109.5 | 102.4 | 108.8 | 115.1 | 182.3 | 157.3 | 150.4 | 105.6 | 80.7 | 65.1 |
| Residential | | .70 | 93.2 | 89.2 | 101.6 | 93.8 | 100.0 | 108.7 | 201.1 | 169.9 | 158.6 | 101.0 | 63.3 | 41.7 |
| Commercial and other | | .27 | 109.7 | 107.3 | 115.4 | 108.2 | 117.8 | 125.5 | 201.1 | 180.8 | 165.5 | 113.8 | 85.7 | 66.5 |
| Gas transmission | | .48 | 107.6 | 103.2 | 112.6 | 106.1 | 110.8 | 113.1 | 152.2 | 132.4 | 133.4 | 105.8 | 95.9 | 88.3 |

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 1992 dollars at annual rates, seasonally adjusted

| Item | 1992 | 1997 | 1997 Q1 | Q2 | Q3 | Q4 | 1998 Q1 | Q2 ^f | 1998 Feb. | Mar. | Apr. ^f | May ^f | June ^f | July ^p |
|------------------------------|--------|--------|------------|--------|--------|--------|------------|-----------------|--------------|--------|-------------------|------------------|-------------------|-------------------|
| Products, total | 2001.9 | 2384.3 | 2343.8 | 2361.5 | 2389.1 | 2431.2 | 2437.7 | 2450.9 | 2427.7 | 2442.6 | 2454.7 | 2465.2 | 2432.7 | 2402.8 |
| Final products | 1552.1 | 1863.3 | 1828.0 | 1840.7 | 1868.0 | 1902.1 | 1906.1 | 1916.3 | 1895.0 | 1911.5 | 1922.9 | 1928.2 | 1897.6 | 1867.2 |
| Consumer goods | 1049.6 | 1201.0 | 1188.3 | 1190.7 | 1199.8 | 1218.6 | 1217.8 | 1219.0 | 1209.6 | 1219.2 | 1225.3 | 1228.9 | 1202.8 | 1185.9 |
| Durable | 238.3 | 314.0 | 309.4 | 305.4 | 311.8 | 322.1 | 322.3 | 320.0 | 320.0 | 322.4 | 325.5 | 328.9 | 305.5 | 287.0 |
| Automotive products | 123.8 | 162.5 | 160.5 | 154.7 | 159.9 | 168.7 | 164.8 | 162.4 | 163.4 | 165.0 | 167.6 | 170.2 | 149.5 | 130.3 |
| Other durable goods | 114.4 | 151.8 | 149.1 | 151.1 | 152.2 | 153.5 | 157.9 | 158.0 | 157.0 | 157.8 | 158.2 | 158.9 | 157.0 | 159.2 |
| Nondurable | 811.3 | 887.4 | 879.3 | 885.4 | 888.5 | 897.4 | 896.5 | 899.8 | 890.6 | 897.7 | 900.9 | 901.4 | 897.0 | 896.7 |
| Equipment, total | 502.5 | 662.0 | 639.3 | 649.6 | 668.0 | 683.6 | 688.5 | 697.6 | 685.5 | 692.6 | 697.9 | 699.6 | 695.4 | 681.6 |
| Business and defense | 483.9 | 634.8 | 612.3 | 621.8 | 640.3 | 657.1 | 659.7 | 670.7 | 656.2 | 663.6 | 670.2 | 672.2 | 669.6 | 656.8 |
| Business | 399.2 | 570.8 | 547.9 | 557.4 | 576.8 | 593.9 | 595.6 | 607.2 | 591.8 | 599.9 | 606.9 | 608.5 | 606.1 | 593.3 |
| Defense and space | 84.7 | 64.1 | 64.5 | 64.5 | 63.7 | 63.5 | 64.4 | 63.9 | 64.6 | 64.0 | 63.7 | 64.0 | 63.9 | 63.7 |
| Intermediate products | 449.9 | 521.7 | 516.1 | 521.1 | 521.9 | 530.1 | 532.4 | 535.5 | 533.3 | 532.1 | 533.0 | 537.9 | 535.5 | 535.1 |
| Construction supplies | 177.2 | 215.9 | 214.3 | 216.6 | 215.3 | 217.4 | 222.3 | 223.2 | 224.4 | 220.8 | 221.9 | 224.2 | 223.4 | 224.2 |
| Business supplies | 272.7 | 305.5 | 301.6 | 304.2 | 306.3 | 312.3 | 309.8 | 311.9 | 308.5 | 310.9 | 310.7 | 313.4 | 311.7 | 310.6 |
| Commercial energy products | 70.4 | 81.5 | 80.3 | 81.9 | 82.2 | 84.2 | 81.4 | 83.8 | 79.8 | 83.0 | 82.4 | 84.3 | 84.8 | 83.8 |

Table 8
DIFFUSION INDEXES OF INDUSTRIAL PRODUCTION

| Percent | | | | | | | | | | | | |
|-----------------------------|------|------|------|------|------|------|------|------|-------|------|------|------|
| Year | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
| One Month Earlier | | | | | | | | | | | | |
| 1996 | 38.9 | 63.8 | 56.6 | 57.4 | 59.6 | 61.9 | 54.0 | 55.5 | 54.3 | 50.6 | 57.0 | 56.4 |
| 1997 | 50.2 | 64.9 | 54.0 | 54.2 | 50.2 | 52.8 | 57.2 | 52.3 | 54.4 | 55.7 | 62.1 | 50.4 |
| 1998 | 54.5 | 46.2 | 47.5 | 58.7 | 49.2 | 39.4 | | | | | | |
| Three Months Earlier | | | | | | | | | | | | |
| 1996 | 43.0 | 53.6 | 54.0 | 69.1 | 66.0 | 67.5 | 62.3 | 60.8 | 56.6 | 58.1 | 55.8 | 58.9 |
| 1997 | 53.2 | 63.0 | 58.9 | 63.0 | 54.7 | 52.8 | 55.1 | 59.3 | 55.9 | 54.2 | 66.7 | 62.9 |
| 1998 | 61.7 | 48.5 | 50.4 | 51.5 | 52.7 | 46.2 | | | | | | |
| Six Months Earlier | | | | | | | | | | | | |
| 1996 | 48.7 | 49.4 | 55.5 | 58.9 | 61.5 | 69.1 | 67.5 | 63.8 | 66.0 | 60.4 | 60.8 | 57.0 |
| 1997 | 63.0 | 65.3 | 64.2 | 60.8 | 59.1 | 61.5 | 63.9 | 60.8 | 60.1 | 60.8 | 66.2 | 64.3 |
| 1998 | 59.5 | 60.6 | 61.4 | 59.8 | 51.9 | 47.0 | | | | | | |

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 | 1987 SIC | 1992 Billion KWH | Index, 1992 = 100 | | | | | | | | | | | |
|-----------------------------------|-----------|------------------------|---------------------|-------|-------|-------------------|------------------|-------------------|-------------------------|-------|-------|-------------------|------------------|-------------------|
| | | | Seasonally adjusted | | | | | | Not seasonally adjusted | | | | | |
| | | | 1998 Jan. | Feb. | Mar. | Apr. ^f | May ^f | June ^p | 1998 Jan. | Feb. | Mar. | Apr. ^f | May ^f | June ^p |
| Total | | 934.1 | 105.8 | 105.2 | 106.5 | 106.2 | 105.8 | 105.5 | 103.5 | 102.3 | 104.3 | 105.0 | 105.3 | 107.0 |
| MAJOR INDUSTRY GROUPS | | | | | | | | | | | | | | |
| Manufacturing | | 854.0 | 106.0 | 105.3 | 106.7 | 106.3 | 105.9 | 105.6 | 103.3 | 102.3 | 104.3 | 105.0 | 105.4 | 107.3 |
| Durable | | 365.8 | 106.5 | 105.0 | 106.3 | 106.2 | 105.3 | 105.4 | 103.5 | 103.0 | 105.5 | 105.8 | 105.6 | 107.8 |
| Nondurable | | 488.3 | 105.7 | 105.5 | 107.0 | 106.4 | 106.4 | 105.8 | 103.2 | 101.7 | 103.3 | 104.4 | 105.2 | 106.9 |
| Mining | | 80.1 | 102.8 | 103.6 | 104.1 | 104.2 | 104.6 | 103.8 | 106.2 | 103.3 | 104.1 | 104.7 | 103.9 | 102.2 |
| INDUSTRY GROUPS and SERIES | | | | | | | | | | | | | | |
| Metal mining | 10 | 18.6 | 118.6 | 119.7 | 118.7 | 121.7 | 116.7 | 119.4 | 121.2 | 115.9 | 117.1 | 118.6 | 115.5 | 113.3 |
| Iron ore | 101 | 7.3 | 128.6 | 129.3 | 122.4 | 122.5 | 117.9 | 123.6 | 128.3 | 124.0 | 122.8 | 119.3 | 118.3 | 114.0 |
| Copper ore | 102 | 6.6 | 121.0 | 120.1 | 123.7 | 129.7 | 125.4 | 124.7 | 123.8 | 119.2 | 120.4 | 127.0 | 122.6 | 120.1 |
| Coal mining | 12 | 12.7 | 95.9 | 96.1 | 99.0 | 96.0 | 98.1 | 101.1 | 106.5 | 107.6 | 107.6 | 101.1 | 95.6 | 96.4 |
| Oil and gas extraction | 13 | 36.0 | 92.5 | 95.2 | 94.3 | 94.0 | 95.7 | 90.9 | 96.9 | 93.6 | 93.2 | 93.9 | 95.0 | 92.4 |
| Crude oil and natural gas | 131 | 31.0 | 92.3 | 96.2 | 93.2 | 93.0 | 94.6 | 89.5 | 96.7 | 94.7 | 92.3 | 93.2 | 94.5 | 90.9 |
| Natural gas liquids | 132 | 3.6 | 87.7 | 79.2 | 89.2 | 85.4 | 85.3 | 84.7 | 91.1 | 75.7 | 86.4 | 85.8 | 85.0 | 87.1 |
| Stone and earth minerals | 14 | 12.8 | 111.5 | 108.5 | 111.2 | 112.3 | 115.5 | 113.9 | 104.6 | 100.8 | 105.2 | 113.3 | 117.6 | 115.9 |
| Crushed stone | 142 | 3.5 | 163.8 | 143.3 | 152.9 | 152.4 | 154.3 | 153.8 | 137.2 | 120.2 | 127.9 | 151.2 | 164.2 | 164.5 |
| Sand and gravel | 144 | 2.7 | 108.9 | 104.3 | 113.2 | 107.2 | 107.6 | 109.3 | 94.7 | 86.1 | 96.9 | 103.9 | 112.2 | 114.7 |
| Chemical and fertilizer materials | 147 | 4.7 | 95.3 | 96.3 | 96.6 | 102.2 | 107.9 | 104.1 | 96.2 | 96.7 | 98.8 | 104.0 | 104.9 | 100.7 |
| Foods | 20 | 58.8 | 114.5 | 112.4 | 113.0 | 113.6 | 113.5 | 112.6 | 108.5 | 104.7 | 104.8 | 107.3 | 109.4 | 114.3 |
| Meat products | 201 | 10.3 | 120.1 | 121.4 | 120.7 | 121.3 | 119.7 | 118.2 | 114.2 | 111.5 | 111.4 | 115.1 | 116.4 | 124.1 |
| Dairy products | 202 | 6.8 | 103.8 | 102.2 | 102.3 | 100.0 | 99.3 | 94.5 | 97.8 | 93.1 | 95.2 | 96.8 | 98.5 | 101.2 |
| Canned and frozen food | 203 | 8.1 | 112.7 | 109.6 | 111.6 | 113.2 | 111.3 | 110.9 | 100.5 | 98.3 | 101.2 | 102.5 | 103.4 | 108.1 |
| Grain mill products | 204 | 11.4 | 123.5 | 118.8 | 120.4 | 122.3 | 124.2 | 126.2 | 122.1 | 117.8 | 117.3 | 121.1 | 123.6 | 123.8 |
| Bakery products | 205 | 3.5 | 113.3 | 111.5 | 109.9 | 111.2 | 112.0 | 111.3 | 105.5 | 101.3 | 100.9 | 105.0 | 109.0 | 116.7 |
| Sugar and confectionery | 206 | 4.0 | 111.1 | 110.5 | 109.3 | 111.9 | 108.3 | 103.6 | 120.1 | 114.5 | 103.8 | 101.6 | 100.2 | 102.8 |
| Fats and oils | 207 | 3.9 | 103.8 | 108.2 | 108.1 | 111.3 | 109.8 | 110.7 | 114.4 | 111.8 | 109.5 | 110.1 | 104.4 | 107.1 |
| Beverages | 208 | 6.1 | 105.2 | 103.5 | 105.6 | 103.8 | 106.0 | 105.6 | 95.1 | 91.4 | 95.2 | 97.9 | 103.7 | 112.3 |
| Coffee and miscellaneous | 209 | 4.7 | 114.7 | 111.8 | 110.0 | 110.7 | 111.2 | 109.9 | 107.3 | 102.6 | 101.2 | 103.7 | 107.6 | 115.0 |
| Tobacco products | 21 | 1.5 | 101.1 | 97.4 | 96.9 | 99.7 | 100.6 | 103.2 | 92.7 | 97.4 | 93.8 | 96.3 | 96.4 | 104.6 |
| Textile mill products | 22 | 31.5 | 116.5 | 112.0 | 118.8 | 116.9 | 114.9 | 116.3 | 99.2 | 107.6 | 112.1 | 113.5 | 116.5 | 123.3 |
| Fabrics | 221-4 | 11.8 | 117.9 | 103.4 | 108.5 | 107.7 | 106.3 | 106.5 | 100.1 | 98.7 | 102.6 | 104.7 | 108.3 | 113.6 |
| Knit goods | 225 | 4.1 | 108.2 | 99.6 | 109.6 | 109.9 | 110.3 | 108.0 | 89.7 | 94.4 | 100.7 | 104.3 | 112.1 | 116.3 |
| Fabric finishing | 226 | 2.5 | 131.0 | 124.3 | 124.6 | 134.3 | 123.6 | 120.2 | 120.0 | 123.9 | 124.6 | 135.0 | 126.0 | 128.0 |
| Yarn and thread | 228 | 8.3 | 102.2 | 106.4 | 114.8 | 110.5 | 109.7 | 117.5 | 85.2 | 100.8 | 108.7 | 107.8 | 112.5 | 126.1 |
| Miscellaneous textiles | 229 | 3.4 | 130.6 | 143.9 | 141.7 | 138.7 | 135.2 | 132.7 | 113.9 | 136.3 | 136.6 | 137.8 | 137.5 | 140.0 |
| Apparel products | 23 | 8.2 | 99.1 | 94.1 | 97.0 | 99.4 | 95.9 | 94.6 | 85.5 | 87.9 | 88.4 | 91.5 | 93.3 | 101.5 |
| Men's outerwear | 231,2 | 2.0 | 83.9 | 85.5 | 87.5 | 88.5 | 84.3 | 79.2 | 74.6 | 80.5 | 81.3 | 85.1 | 86.7 | 92.0 |
| Women's outerwear | 233 | 2.5 | 126.4 | 112.9 | 116.9 | 120.5 | 118.7 | 117.7 | 108.8 | 104.7 | 105.0 | 110.2 | 115.3 | 127.4 |
| Lumber and products | 24 | 19.8 | 117.7 | 115.8 | 121.7 | 121.8 | 121.9 | 124.0 | 118.7 | 120.4 | 121.1 | 122.0 | 119.7 | 121.7 |
| Lumber | 242 | 7.7 | 119.5 | 116.5 | 119.5 | 117.7 | 118.7 | 118.8 | 120.2 | 122.0 | 121.2 | 120.9 | 118.9 | 117.6 |
| Millwork and plywood | 243 | 5.6 | 129.1 | 127.5 | 132.0 | 132.5 | 130.2 | 133.8 | 130.4 | 131.1 | 132.8 | 134.0 | 129.1 | 133.0 |
| Furniture and fixtures | 25 | 6.0 | 116.9 | 114.1 | 117.0 | 117.2 | 116.7 | 117.7 | 111.7 | 114.4 | 115.2 | 116.5 | 114.7 | 119.9 |
| Household furniture | 251 | 3.2 | 111.4 | 109.5 | 112.4 | 113.2 | 114.4 | 114.2 | 107.6 | 111.4 | 112.7 | 114.9 | 112.6 | 116.2 |
| Paper and products | 26 | 113.3 | 103.5 | 101.7 | 103.3 | 102.0 | 102.2 | 102.1 | 103.5 | 99.8 | 101.3 | 101.0 | 101.0 | 102.8 |
| Wood pulp | 261 | 8.8 | 86.3 | 85.5 | 83.7 | 89.0 | 87.7 | 86.8 | 89.1 | 83.8 | 85.3 | 86.1 | 85.9 | 88.0 |
| Paper | 262 | 62.3 | 103.0 | 101.3 | 103.2 | 102.0 | 102.0 | 101.3 | 103.9 | 99.6 | 101.1 | 101.8 | 101.3 | 102.6 |
| Paperboard | 263 | 28.3 | 115.6 | 115.6 | 115.4 | 107.1 | 105.0 | 110.6 | 115.9 | 114.6 | 113.9 | 105.0 | 103.3 | 109.1 |
| Paperboard containers | 265 | 5.1 | 106.4 | 103.4 | 106.4 | 102.6 | 107.2 | 107.6 | 102.3 | 99.8 | 101.7 | 100.7 | 105.1 | 108.5 |
| Converted paper products | 267 | 8.9 | 102.5 | 98.0 | 101.3 | 105.1 | 106.2 | 102.9 | 97.0 | 95.0 | 98.1 | 101.5 | 103.6 | 102.4 |
| Printing and publishing | 27 | 17.3 | 111.9 | 111.3 | 112.1 | 112.6 | 112.3 | 111.8 | 104.2 | 101.2 | 102.8 | 105.6 | 107.7 | 116.3 |
| Newspapers | 271 | 3.6 | 103.1 | 101.9 | 101.9 | 102.9 | 101.8 | 103.0 | 98.6 | 93.8 | 93.5 | 96.1 | 99.3 | 108.7 |
| Commercial printing | 275 | 9.2 | 119.0 | 119.5 | 120.0 | 120.1 | 119.9 | 118.9 | 110.0 | 108.2 | 110.3 | 112.6 | 114.7 | 123.6 |
| Chemicals and products | 28 | 171.7 | 100.3 | 100.6 | 102.4 | 101.4 | 100.9 | 99.9 | 101.5 | 97.8 | 100.0 | 100.1 | 100.2 | 98.8 |
| Basic chemicals | 281 | 78.9 | 92.1 | 93.0 | 93.1 | 91.4 | 91.7 | 87.5 | 94.2 | 90.5 | 93.1 | 92.0 | 92.5 | 86.7 |
| Alkalies and chlorine | 2812 | 14.9 | 85.0 | 81.3 | 79.4 | 78.5 | 78.8 | 78.6 | 83.4 | 79.0 | 81.6 | 81.2 | 80.8 | 79.8 |
| Inorganic chemicals, nec | 2819 | 38.3 | 83.2 | 84.2 | 86.2 | 83.1 | 81.5 | 74.8 | 86.7 | 81.6 | 87.3 | 84.1 | 83.6 | 73.8 |
| Acid and fertilizer materials | | 14.0 | 99.5 | 97.6 | 104.5 | 101.2 | 102.3 | 104.1 | 103.2 | 95.9 | 100.9 | 100.9 | 102.1 | 103.5 |
| Nuclear materials, nondefense | | 24.3 | 75.2 | 77.5 | 77.2 | 74.2 | 71.1 | 60.1 | 78.6 | 74.5 | 80.6 | 75.8 | 74.4 | 59.0 |

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

| Item | 1987 SIC | 1992 Billion KWH | Index, 1992 = 100 | | | | | | | | | | | |
|---|-----------|------------------------|---------------------|-------|-------|-------------------|------------------|-------------------|-------------------------|-------|-------|-------------------|------------------|-------------------|
| | | | Seasonally adjusted | | | | | | Not seasonally adjusted | | | | | |
| | | | 1998 Jan. | Feb. | Mar. | Apr. ^f | May ^f | June ^p | 1998 Jan. | Feb. | Mar. | Apr. ^f | May ^f | June ^p |
| Chemicals and Products (cont.) | | | | | | | | | | | | | | |
| Synthetic materials | 282 | 29.2 | 105.3 | 106.5 | 108.8 | 108.8 | 105.0 | 110.4 | 106.0 | 104.0 | 106.1 | 108.4 | 105.8 | 111.0 |
| Plastics materials | 2821 | 18.3 | 129.5 | 132.1 | 133.2 | 134.3 | 128.6 | 139.4 | 129.1 | 127.4 | 131.7 | 135.2 | 128.4 | 140.5 |
| Drugs and medicines | 283 | 6.7 | 136.4 | 130.4 | 130.2 | 135.7 | 136.2 | 135.6 | 127.6 | 121.1 | 121.2 | 126.5 | 131.6 | 143.0 |
| Soap and toiletries | 284 | 3.0 | 109.8 | 107.1 | 111.5 | 114.8 | 113.7 | 116.3 | 108.1 | 103.2 | 107.9 | 108.5 | 107.9 | 117.8 |
| Industrial organic chemicals | 286 | 39.2 | 111.7 | 110.6 | 110.5 | 106.2 | 102.9 | 105.2 | 112.6 | 108.7 | 110.0 | 107.9 | 105.4 | 105.9 |
| Agricultural chemicals | 287 | 9.7 | 110.6 | 106.3 | 106.4 | 103.7 | 109.7 | 112.1 | 111.5 | 105.4 | 105.3 | 106.4 | 112.3 | 112.6 |
| Petroleum products | 29 | 47.0 | 99.7 | 108.0 | 105.2 | 104.2 | 107.0 | 105.5 | 101.1 | 102.3 | 100.7 | 104.7 | 106.0 | 107.5 |
| Rubber and plastics products | | | | | | | | | | | | | | |
| Tires | 301 | 4.3 | 110.1 | 106.7 | 110.2 | 111.2 | 114.9 | 112.5 | 100.2 | 105.3 | 108.1 | 109.0 | 111.7 | 114.8 |
| Rubber products, nec | 306 | 3.2 | 116.5 | 111.4 | 114.6 | 118.3 | 117.0 | 116.5 | 108.2 | 111.4 | 114.6 | 116.0 | 114.5 | 118.9 |
| Plastics products, nec | 308 | 28.9 | 130.6 | 125.5 | 128.1 | 131.3 | 131.0 | 131.7 | 119.9 | 124.1 | 127.7 | 130.7 | 131.2 | 136.5 |
| Leather and products | | | | | | | | | | | | | | |
| Shoes | 314 | .3 | 82.4 | 79.4 | 81.0 | 77.0 | 75.8 | 73.5 | 76.6 | 77.0 | 76.6 | 74.3 | 75.2 | 79.0 |
| Stone, clay, & glass products | | | | | | | | | | | | | | |
| Flat glass | 321 | 1.5 | 108.7 | 105.8 | 105.8 | 103.6 | 108.7 | 104.7 | 104.2 | 103.2 | 104.6 | 101.9 | 109.0 | 107.2 |
| Pressed and blown glass | 322 | 7.3 | 105.5 | 101.6 | 102.3 | 103.8 | 102.9 | 105.6 | 102.6 | 100.4 | 100.7 | 105.1 | 103.9 | 107.3 |
| Cement | 324 | 9.6 | 114.7 | 113.5 | 114.1 | 116.5 | 113.8 | 112.9 | 106.1 | 94.5 | 99.4 | 113.1 | 118.7 | 119.4 |
| Structural clay products | 325 | 1.4 | 100.7 | 98.7 | 100.3 | 95.8 | 91.6 | 94.4 | 96.3 | 95.1 | 97.9 | 95.4 | 93.0 | 97.2 |
| Concrete products | 327 | 4.7 | 113.3 | 110.9 | 110.7 | 113.5 | 112.2 | 115.0 | 110.5 | 105.6 | 106.7 | 111.9 | 112.1 | 117.4 |
| Primary metals | | | | | | | | | | | | | | |
| Basic steel and mill products | 331 | 57.0 | 109.7 | 111.4 | 111.0 | 108.3 | 105.8 | 107.0 | 111.5 | 111.9 | 115.5 | 112.7 | 110.4 | 109.1 |
| Iron and steel foundries | 332 | 9.9 | 116.6 | 109.5 | 113.1 | 116.7 | 113.6 | 111.9 | 110.1 | 112.1 | 116.1 | 120.0 | 113.4 | 111.2 |
| Primary nonferrous metals | 333 | 66.2 | 76.2 | 76.5 | 75.9 | 74.3 | 75.1 | 75.5 | 77.1 | 73.2 | 77.0 | 74.8 | 76.5 | 77.1 |
| Aluminum | 3334 | 60.3 | 64.6 | 68.8 | 63.4 | 63.0 | 62.0 | 64.9 | 64.0 | 62.5 | 64.1 | 62.8 | 63.8 | 64.7 |
| Nonferrous foundries | 336 | 2.7 | 124.8 | 121.3 | 127.9 | 131.3 | 131.6 | 131.2 | 120.9 | 124.4 | 129.3 | 130.4 | 128.1 | 129.0 |
| Fabricated metal products | | | | | | | | | | | | | | |
| Metal containers | 341 | 2.9 | 108.3 | 106.1 | 105.5 | 101.8 | 103.1 | 104.5 | 103.6 | 105.4 | 106.6 | 103.7 | 104.4 | 108.1 |
| Hardware, tools, and cutlery | 342 | 2.7 | 110.9 | 108.4 | 109.3 | 110.6 | 112.3 | 110.5 | 104.0 | 107.8 | 107.7 | 107.9 | 109.8 | 113.5 |
| Structural metal products | 344 | 5.4 | 109.8 | 109.3 | 112.9 | 112.7 | 112.7 | 113.7 | 108.6 | 111.0 | 114.4 | 111.7 | 112.2 | 114.5 |
| Fasteners | 345 | 1.7 | 117.0 | 111.5 | 115.4 | 118.1 | 116.7 | 117.7 | 110.4 | 112.4 | 115.1 | 115.4 | 113.6 | 119.7 |
| Metal stampings | 346 | 6.7 | 124.8 | 122.2 | 124.2 | 125.0 | 128.0 | 124.9 | 117.8 | 123.9 | 126.3 | 124.7 | 128.2 | 127.0 |
| Industrial machinery and equipment | | | | | | | | | | | | | | |
| Engines and turbines | 351 | 2.6 | 111.1 | 106.3 | 112.1 | 113.1 | 114.8 | 124.3 | 105.6 | 108.3 | 110.4 | 111.6 | 111.9 | 123.6 |
| Farm | 352 | 2.0 | 101.8 | 99.1 | 96.5 | 90.1 | 90.5 | 96.2 | 104.0 | 105.7 | 102.6 | 96.4 | 94.3 | 96.4 |
| Construction and allied | 353 | 3.8 | 112.5 | 110.9 | 111.0 | 114.0 | 113.9 | 113.8 | 106.9 | 110.2 | 108.1 | 110.8 | 114.1 | 118.6 |
| Metalworking | 354 | 4.1 | 109.8 | 105.8 | 112.9 | 111.7 | 110.8 | 111.5 | 103.3 | 104.9 | 110.9 | 108.8 | 108.2 | 114.1 |
| Special industry | 355 | 2.4 | 120.9 | 118.3 | 116.4 | 122.4 | 120.5 | 124.6 | 113.7 | 116.8 | 114.0 | 118.9 | 117.1 | 127.6 |
| General industrial | 356 | 5.2 | 113.9 | 108.7 | 113.2 | 114.8 | 114.1 | 116.1 | 106.8 | 107.8 | 111.3 | 112.3 | 112.1 | 118.5 |
| Computer and office equip. | 357 | 5.1 | 88.0 | 85.6 | 91.2 | 90.9 | 90.8 | 92.8 | 83.2 | 82.8 | 85.7 | 88.7 | 88.9 | 97.0 |
| Service industry machines | 358 | 3.5 | 109.9 | 108.1 | 110.5 | 110.2 | 113.6 | 115.1 | 99.8 | 104.0 | 107.1 | 108.4 | 113.7 | 120.0 |
| Electrical machinery | | | | | | | | | | | | | | |
| Electrical distribution | 361 | 1.3 | 94.0 | 93.4 | 94.1 | 95.7 | 96.2 | 95.2 | 88.8 | 91.0 | 91.7 | 91.0 | 93.0 | 97.7 |
| Electrical industrial | 362 | 4.0 | 96.0 | 93.0 | 96.1 | 94.6 | 95.0 | 95.0 | 92.4 | 91.5 | 94.8 | 94.4 | 95.3 | 98.1 |
| Household appliances | 363 | 2.4 | 99.9 | 99.3 | 101.8 | 103.3 | 99.4 | 96.7 | 96.4 | 98.0 | 101.1 | 103.2 | 103.8 | 104.6 |
| Lighting and wiring products | 364 | 3.0 | 112.8 | 111.0 | 111.4 | 109.6 | 109.6 | 109.8 | 106.0 | 110.9 | 110.2 | 108.7 | 110.3 | 113.9 |
| TV and radio sets | 365 | .8 | 125.4 | 119.0 | 122.2 | 117.9 | 116.8 | 117.4 | 119.6 | 113.5 | 118.1 | 114.3 | 116.8 | 121.9 |
| Communication equipment | 366 | 3.3 | 110.1 | 101.5 | 103.3 | 106.3 | 107.4 | 103.0 | 102.2 | 95.9 | 98.3 | 102.6 | 103.9 | 108.1 |
| Electronic components | 367 | 14.5 | 131.1 | 127.5 | 126.7 | 126.4 | 125.3 | 124.9 | 123.9 | 122.0 | 122.2 | 123.4 | 123.9 | 130.0 |
| Transportation equipment | | | | | | | | | | | | | | |
| Motor vehicles and parts | 371 | 22.8 | 122.9 | 120.4 | 123.6 | 124.5 | 122.9 | 120.2 | 115.7 | 117.3 | 121.2 | 122.3 | 123.1 | 127.5 |
| Aircraft and parts | 372 | 10.7 | 93.5 | 87.1 | 89.2 | 92.7 | 88.3 | 90.0 | 88.3 | 84.7 | 86.2 | 90.4 | 87.3 | 93.1 |
| Ships and boats | 373 | 2.2 | 104.1 | 99.7 | 104.3 | 102.8 | 106.4 | 111.9 | 105.0 | 103.0 | 103.8 | 101.6 | 103.0 | 112.6 |
| Instruments | | | | | | | | | | | | | | |
| Photographic equip. & supplies | 386 | 1.8 | 92.6 | 94.5 | 91.8 | 100.7 | 93.7 | 98.1 | 92.4 | 93.1 | 91.7 | 95.8 | 91.8 | 99.6 |
| Miscellaneous manufactures | | | | | | | | | | | | | | |
| | 39 | 4.5 | 126.8 | 122.2 | 127.5 | 126.9 | 125.7 | 125.0 | 117.1 | 118.9 | 124.0 | 124.3 | 124.0 | 128.5 |
| SUPPLEMENTARY GROUPS | | | | | | | | | | | | | | |
| Total, excluding nuclear nondefense | | 909.8 | 107.2 | 106.4 | 107.8 | 107.6 | 107.4 | 107.5 | 104.7 | 103.6 | 105.3 | 106.3 | 106.7 | 109.2 |
| Utility sales to industry | | 835.3 | 106.3 | 105.1 | 106.1 | 106.2 | 105.4 | 105.3 | 103.6 | 102.8 | 104.6 | 105.7 | 105.7 | 107.5 |
| Industrial generation | | 98.8 | 96.6 | 99.4 | 98.8 | 95.1 | 99.9 | 101.7 | 101.8 | 95.0 | 99.8 | 94.3 | 98.4 | 99.4 |

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. Data in the release and historical data are available under statistical releases at <http://www.federalreserve.gov>, the Board's World Wide Web site. These data are also available on line on the day of issue through the Economic Bulletin Board of the Department of Commerce. For information, call (202) 482-1986. 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 264 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 15th 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.

Seasonal adjustment. 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 1997; for other series, the factors were estimated with data through at least June 1997. In some cases, series were preadjusted for the effects of holidays or the business cycle before using X-11 ARIMA. 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 1987-96

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 1987-96 period. In most cases (about 81 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 December 9, 1997 is described more completely in the February 1998 *Federal Reserve Bulletin*.

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). The basic methodology used to estimate capacity and utilization is discussed in the June 1990 *Federal Reserve Bulletin*.

Release Schedule for 1998

At 9:15 a.m. on January 16, February 17, March 17, April 17, May 15, June 16, July 16, August 14, September 16, October 16, November 16, and December 16.