# **FEDERAL RESERVE statistical release**



Sept. '08 to

G.17 (419)

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Percent change

#### INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION

Industrial production rose 0.7 percent in September after an upwardly revised gain of 1.2 percent in August. For the third quarter as a whole, output advanced at an annual rate of 5.2 percent, the first quarterly gain since the first quarter of 2008 and the largest gain since the first quarter of 2005. Production in manufacturing

(over)

## INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION: SUMMARY

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|                                | 2007              |        |                   |       |                   |                    | 2007              |      |                   |      |                   |                    | Sept. 00 to  |
|--------------------------------|-------------------|--------|-------------------|-------|-------------------|--------------------|-------------------|------|-------------------|------|-------------------|--------------------|--------------|
| Industrial production          | Apr. <sup>r</sup> | May    | June <sup>r</sup> | July  | Aug. <sup>r</sup> | Sept. <sup>p</sup> | Apr. <sup>r</sup> | May  | June <sup>r</sup> | July | Aug. <sup>r</sup> | Sept. <sup>p</sup> | Sept. '09    |
|                                |                   |        |                   |       |                   |                    |                   |      |                   |      |                   |                    |              |
| Total index                    | 97.2              | 96.2   | 95.8              | 96.6  | 97.8              | 98.5               | 5                 | -1.1 | 4                 | .9   | 1.2               | .7                 | -6.1         |
| Previous estimates             | 97.2              | 96.1   | 95.8              | 96.7  | 97.4              |                    | 6                 | -1.1 | 4                 | 1.0  | .8                |                    |              |
|                                |                   |        |                   |       |                   |                    |                   |      |                   |      |                   |                    |              |
| Major market groups            |                   |        |                   |       |                   |                    |                   |      |                   |      |                   |                    |              |
| Final Products                 | 100.7             | 99.5   | 99.0              | 99.8  | 101.2             | 102.2              | 8                 | -1.2 | 5                 | .8   | 1.4               | .9                 | -3.9         |
| Consumer goods                 | 97.9              | 96.9   | 96.4              | 97.0  | 98.5              | 99.6               | 4                 | -1.0 | 5                 | .6   | 1.6               | 1.1                | -1.7         |
| Business equipment             | 108.5             | 106.2  | 105.9             | 106.9 | 108.1             | 108.3              | -1.9              | -2.2 | 3                 | 1.0  | 1.1               | .1                 | -8.0         |
| Nonindustrial supplies         | 91.1              | 90.5   | 90.5              | 90.6  | 91.1              | 90.8               | 3                 | 8    | .1                | .1   | .6                | 4                  | -11.6        |
| Construction                   | 82.0              | 82.0   | 82.0              | 82.4  | 82.8              | 82.5               | 9                 | .1   | .0                | .5   | .4                | 4                  | -16.7        |
| Materials                      | 96.2              | 95.2   | 94.7              | 95.9  | 97.1              | 97.9               | 3                 | -1.0 | 5                 | 1.3  | 1.3               | .8                 | -6.1         |
|                                |                   |        |                   |       |                   |                    |                   |      |                   |      |                   |                    |              |
| Major industry groups          |                   |        |                   |       |                   |                    |                   |      |                   |      |                   |                    |              |
| Manufacturing (see note below) | 95.7              | 94.8   | 94.5              | 95.6  | 96.7              | 97.5               | 4                 | 9    | 3                 | 1.2  | 1.2               | .9                 | -7.7         |
| Previous estimates             | 95.6              | 94.7   | 94.4              | 95.7  | 96.3              |                    | 5                 | 9    | 3                 | 1.4  | .6                |                    |              |
| Mining                         | 96.1              | 95.0   | 93.7              | 94.9  | 95.9              | 96.6               | -2.6              | -1.1 | -1.4              | 1.2  | 1.1               | .7                 | .2           |
| Utilities                      | 106.4             | 104.3  | 103.8             | 102.3 | 104.2             | 103.5              | .3                | -2.0 | 5                 | -1.5 | 1.9               | 7                  | -2.1         |
|                                |                   |        |                   |       |                   |                    |                   |      |                   |      |                   |                    |              |
|                                |                   |        |                   |       |                   |                    |                   |      |                   |      |                   |                    | Capacity     |
|                                |                   |        |                   |       | Perce             | ent of cap         | acity             |      |                   |      |                   |                    | growth       |
|                                | Average           | 1988-  | 1990-             | 1994- | 2001-             |                    | Ī                 |      |                   |      |                   |                    |              |
|                                | 1972-             | 89     | 91                | 95    | 02                | 2008               | 2009              |      |                   |      |                   |                    | Sept. '08 to |
| Capacity utilization           | 2008              | high   | low               | high  | low               | Sept.              | Apr.r             | May  | June <sup>r</sup> | July | Aug.r             | Sept. <sup>p</sup> | Sept. '09    |
|                                |                   |        |                   |       |                   | -                  |                   |      |                   |      |                   |                    |              |
| Total industry                 | 80.9              | 85.1   | 78.7              | 84.9  | 73.5              | 74.5               | 69.2              | 68.5 | 68.3              | 69.0 | 69.9              | 70.5               | 6            |
| Previous estimates             |                   |        |                   |       |                   |                    | 69.2              | 68.5 | 68.3              | 69.0 | 69.6              |                    |              |
|                                |                   |        |                   |       |                   |                    |                   |      |                   |      |                   |                    |              |
| Manufacturing (see note below) | 79.6              | 85.4   | 77.2              | 84.5  | 71.4              | 72.5               | 65.8              | 65.2 | 65.1              | 66.0 | 66.8              | 67.5               | 9            |
| Previous estimates             |                   |        |                   |       |                   |                    | 65.7              | 65.2 | 65.1              | 66.1 | 66.6              |                    |              |
| Mining                         | 87.6              | 86.5   | 83.8              | 89.1  | 84.9              | 83.1               | 82.7              | 81.8 | 80.8              | 81.9 | 82.9              | 83.6               | 4            |
| Utilities                      | 86.8              | 92.8   | 84.2              | 93.3  | 84.2              | 81.2               | 80.9              | 79.2 | 78.7              | 77.4 | 78.7              | 78.1               | 1.8          |
|                                |                   |        |                   |       |                   |                    |                   |      |                   |      |                   |                    |              |
| Stage-of-process groups        |                   |        |                   |       |                   |                    |                   |      |                   |      |                   |                    |              |
| Crude                          | 86.6              | 88.3   | 84.7              | 89.9  | 81.7              | 78.7               | 79.5              | 79.7 | 79.4              | 80.3 | 81.4              | 82.5               | 8            |
| Primary and semifinished       | 82.0              | 86.5   | 77.9              | 87.9  | 74.3              | 74.9               | 67.0              | 65.9 | 65.8              | 66.3 | 67.0              | 67.3               | 8            |
| Finished                       | 77.7              | 83.0   | 77.2              | 80.3  | 70.0              | 72.2               | 67.6              | 67.0 | 66.7              | 67.5 | 68.6              | 69.3               | 3            |
|                                |                   | 1 00.0 |                   |       | , 0.0             |                    | 07.0              | 00   | 00.7              | 07.0 | 00.0              | 07.0               |              |

r Revised. p Preliminary.

Note. The statistics in this release cover output, capacity, and capacity utilization in the U.S. industrial sector, which is defined by the Federal Reserve to comprise manufacturing, mining, and electric and gas utilities. Mining is defined as all industries in sector 21 of the North American Industry Classification System (NAICS); electric and gas utilities are those in NAICS sectors 2211 and 2212. Manufacturing comprises NAICS manufacturing industries (sector 31-33) plus the logging industry and the newspaper, periodical, book, and directory publishing industries. Logging and publishing are classified elsewhere in NAICS (under agriculture and information respectively), but historically they were considered to be manufacturing and were included in the industrial sector under the Standard Industrial Classification (SIC) system. In December 2002 the Federal Reserve reclassified all its industrial output data from the SIC system to NAICS.

increased 0.9 percent in September, and the index excluding motor vehicles and parts rose 0.5 percent. Mining output strengthened 0.7 percent, while the output of utilities fell 0.7 percent. At 98.5 percent of its 2002 average, total industrial production was 6.1 percent below its level of a year earlier. In September, the capacity utilization rate for total industry increased to 70.5 percent, a level 10.4 percentage points below its average for 1972 through 2008.

## Market Groups

The production of consumer goods advanced 1.1 percent in September, and the index rose at an annual rate of 5.5 percent for the third quarter. The gain in September was led by an increase of 3.5 percent in durables. The output of automotive products moved up 7.4 percent after having posted monthly gains in July and August that averaged about 11 percent. Production in the other major categories of durables was mixed in September: The index for home electronics fell 1.3 percent; the index for appliances, furniture, and carpeting moved up 0.4 percent; and the index for miscellaneous goods rose 0.3 percent. The production of nondurable consumer goods increased 0.5 percent, with gains in the output of most major categories. The index for non-energy nondurables advanced 0.3 percent. The production indexes for foods and tobacco, for clothing, and for chemical products moved higher, while the index for paper products fell back 1.3 percent. The output of consumer energy goods climbed 1.2 percent largely because of increases in petroleum refining.

The index for business equipment edged up 0.1 percent in September after having advanced about 1 percent per month in July and August; for the third quarter as a whole, the index rose at an annual rate of 3.5 percent. Within business equipment, the production of transit equipment strengthened 2.4 percent in September, supported primarily by the gain in motor vehicle assemblies. The output of information processing equipment edged up 0.2 percent. The output of industrial and other equipment fell 0.6 percent; decreases in several categories, including general purpose machinery, farm machinery, and office furniture, more than offset strength in other categories such as semiconductor machinery. The index for defense and space equipment rose 1.1 percent and increased at an annual rate of nearly 15 percent in the third quarter.

The output of construction supplies decreased 0.4 percent in September after having advanced a similar amount in August. The index for business supplies also decreased 0.4 percent in September, as both general business supplies and commercial energy products posted declines.

The production of materials increased 0.8 percent in September, with widespread gains among its components, and advanced at an annual rate of 7.0 percent in the third quarter. The output of durables moved up 1.3 percent in September. Consumer parts production expanded 3.3 percent; gains in the output of motor vehicle parts contributed significantly to the increase. The index for equipment parts rose 1.2 percent, while the index for other durable materials moved up 0.8 percent. The output of nondurable materials gained 0.7 percent, with the largest contribution coming from higher production of chemical materials. Energy materials edged up 0.2 percent; increases in petroleum refining and in oil and gas support activities more than offset lower output of electricity.

## **Industry Groups**

Manufacturing production expanded 0.9 percent in September following an upwardly revised gain of 1.2 percent in August. The factory operating rate climbed to 67.5 percent but remained 12.1 percentage points below its 1972–2008 average. For the third quarter, manufacturing output advanced at an annual rate of 7.1 percent.

The index for durable goods increased 1.2 percent in September, the third consecutive gain of at least

1.0 percent. In addition to the continued rebound in motor vehicles and parts, the index for primary metals has also advanced strongly in recent months. Led by a surge in steel production, primary metals jumped at an annual rate of 87 percent in the third quarter; nevertheless, the index in September was 28 percent below its year-earlier level. Elsewhere in durables, the output of computer and electronic products rose 0.5 percent in September, and the indexes for wood products; fabricated metal products; and electrical equipment, appliances, and components edged up, The output of nonmetallic mineral products fell 0.7 percent, and the indexes for machinery and for furniture and related products each declined about 1 percent.

The production of nondurables moved up 0.8 percent, with gains widespread across its components. The indexes for textile and product mills, for apparel and leather, and for petroleum and coal products all increased at least 1 percent. In addition, the output of chemicals gained 0.8 percent, and the output of food, beverage, and tobacco products increased 0.5 percent. However, the indexes for paper, for printing and related support activities, and for plastics and rubber products all declined modestly.

The index for other manufacturing (non-NAICS), which consists of publishing and logging, fell 1.3 percent in September.

The index for utilities slipped 0.7 percent, mainly because of lower electricity output. The operating rate for utilities dropped 0.6 percentage point, to 78.1 percent. Mining production expanded 0.7 percent, and its utilization rate rose to 83.6 percent, a rate 4.0 percentage points below its 1972–2008 average.

Capacity utilization rates at industries grouped by stage of process were as follows: For the crude stage, utilization rose 1.1 percentage points, to 82.5 percent, a rate about 4 percentage points below its 1972–2008 average; for the primary and semifinished stages, utilization edged up 0.3 percentage point, to 67.3 percent, a rate 14.7 percentage points below its long-run average; and for the finished stage, utilization increased 0.7 percentage point, to 69.3 percent, a rate 8.4 percentage points below its long-run average.

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Further detail is available on the Board's website (www.federalreserve.gov/releases/G17/).

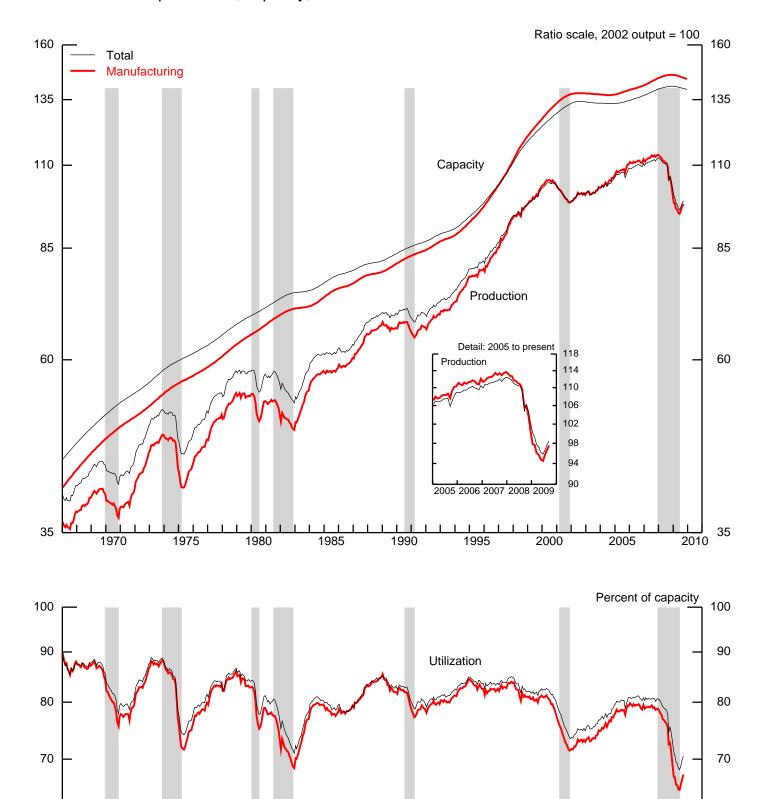
## **Revision of Industrial Production and Capacity Utilization**

The Federal Reserve Board plans to issue its annual revision to the index of industrial production (IP) and the related measures of capacity utilization in late March 2010. The revised IP indexes will incorporate detailed data from the 2007 Economic Census and the 2008 Annual Survey of Manufactures (ASM), both conducted by the U.S. Census Bureau; the date for the issuance of the revision will depend on when the 2008 ASM becomes available. Data from selected editions of the Census Bureau's 2008 Current Industrial Reports and annual data from the U.S. Geological Survey regarding metallic and nonmetallic minerals (except fuels) for 2008 will also be incorporated. The update will include revisions to the monthly indicator (either product data or input data) and to seasonal factors for each industry as well as changes in the estimation methods for some series. Any changes to the methods for estimating the output of an industry will affect the index from 1972 to the present.

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

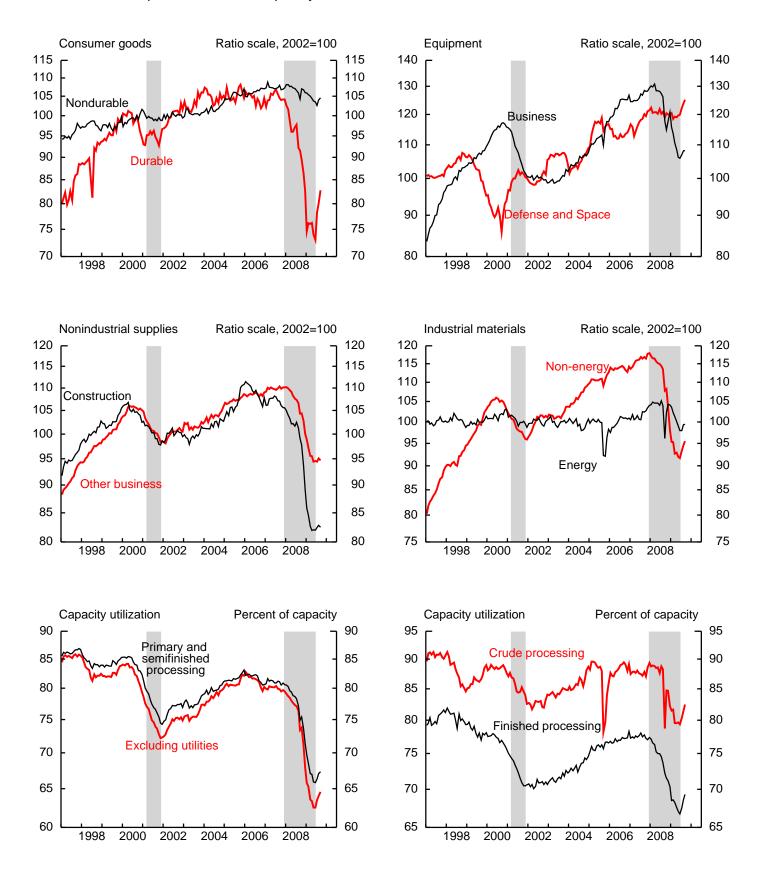
Once the revision is published, it will be available on the Board's website at www.federalreserve.gov/releases/G17. The revised data will also be available through the website of the Department of Commerce. Further information on the revision can be obtained from the Board's Industrial Output Section (telephone number 202-452-3197).

# 1. Industrial production, capacity, and utilization



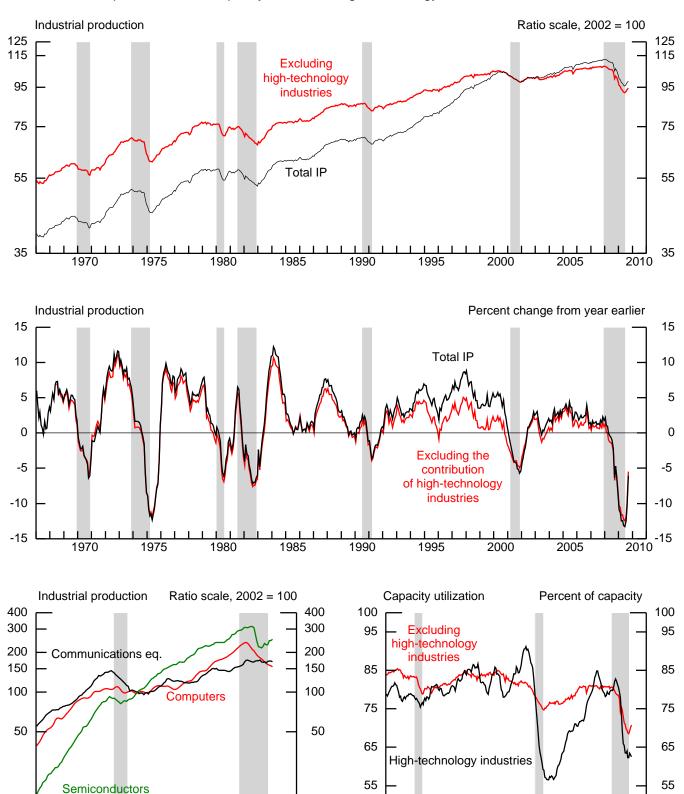
Notes: The shaded areas are periods of business recession as defined by the National Bureau of Economic Research (NBER). The last shaded area begins with the peak as defined by the NBER and ends at the trough of a 3 month moving average of manufacturing IP.

## 2. Industrial production and capacity utilization



Notes: The shaded areas are periods of business recession as defined by the National Bureau of Economic Research (NBER). The last shaded area begins with the peak as defined by the NBER and ends at the trough of a 3 month moving average of manufacturing IP.

## 3. Industrial production and capacity utilization, high-technology industries



Notes: High-technology industries are defined as semiconductors and related electronic components (NAICS 334412-9), computers (NAICS 3341), and communications equipment (NAICS 3342).

The shaded areas are periods of business recession as defined by the NBER. The last shaded area begins with the peak as defined by the NBER and ends at the trough of a 3 month moving average of manufacturing IP.

Table 1 Industrial Production: Market and Industry Group Summary

Percent change, seasonally adjusted

| Percent change, seasonally adjusted           |            |                                 |             | rth quarto<br>ırth quar |                |                | nnual ra        | te              |                           |                  | Month             | nly rate    |                   |                    | Sept. '08       |
|---|------------|---------------------------------|-------------|-------------------------|----------------|----------------|-----------------|-----------------|---------------------------|------------------|-------------------|-------------|-------------------|--------------------|-----------------|
| Item  |            | 2008<br>proportion <sup>1</sup> | 2006        | 2007                    | 2008           | 2009<br>Q1     | Q2 <sup>r</sup> | Q3 <sup>p</sup> | 2009<br>Apr. <sup>r</sup> | May <sup>r</sup> | June <sup>r</sup> | July        | Aug. <sup>r</sup> | Sept. <sup>p</sup> | to<br>Sept. '09 |
| Total IP                                      |            | 100.00                          | 1.8         | 1.8                     | -6.7           | -19.0          | -10.3           | 5.2             | 5                         | -1.1             | 4                 | .9          | 1.2               | .7                 | -6.1            |
| MARKET GROUPS                                 |            |                                 |             |                         |                |                |                 |                 |                           |                  |                   |             |                   |                    |                 |
| Final products and nonindustrial supplie      | es         | 57.05                           | 1.1         | .8                      | -5.8           | -16.9          | -10.4           | 4.0             | 7                         | -1.1             | 3                 | .6          | 1.2               | .6                 | -6.0            |
| Consumer goods                                |            | 29.54<br>6.32                   | .1<br>-3.2  | .2                      | -4.2           | -12.5<br>-40.8 | -5.8<br>-6.0    | 5.5<br>35.7     | 4                         | -1.0<br>-2.9     | 5<br>-1.4         | .6<br>7.1   | 1.6<br>2.3        | 1.1<br>3.5         | -1.7<br>-9.5    |
| Durable Automotive products                   |            | 2.88                            | -5.2        | 1.1                     | -17.2<br>-22.4 | -58.0          | 6.0             | 103.8           | .2                        | -2.9<br>-4.5     | -1.4              | 15.1        | 6.8               | 7.4                | -9.5<br>-2.9    |
| Home electronics                              |            | .34                             | 8.8         | 15.3                    | 1.6            | -7.4           | -26.5           | -14.9           | -2.9                      | -3.4             | -1.4              | 6           | -1.3              | -1.3               | -16.4           |
| Appliances, furniture, carpeting              |            | .99                             | -5.6        | -5.1                    | -20.4          | -20.9          | -10.7           | -10.1           | 1.3                       | -1.4             | -3.1              | 1.3         | -2.1              | .4                 | -16.7           |
| Miscellaneous goods                           |            | 2.11                            | 7           | -1.0                    | -10.9          | -26.8          | -12.8           | 4.8             | .2                        | -1.5             | .6                | 1.8         | 9                 | .3                 | -13.9           |
| Nondurable                                    |            | 23.22                           | 1.2         | 1                       | 4              | -4.2           | -5.7            | 7               | 6                         | 6                | 3                 | 8           | 1.4               | .5                 | .3              |
| Non-energy                                    |            | 17.12                           | 1.6         | 9                       | -1.8           | -5.7           | -3.3            | 1.4             | 9                         | .1               | 3                 | 7           | 1.6               | .3                 | -2.3            |
| Foods and tobacco                             |            | 9.39                            | .0          | 1.1                     | -1.2           | -5.2           | 7               | 1.6             | 9                         | 1.2              | -1.1              | 9           | 2.2               | .6                 | 6               |
| Clothing                                      |            | .42<br>5.09                     | -4.8<br>5.8 | 5<br>-4.2               | -6.7<br>-2.2   | -23.8<br>-2.3  | -12.5<br>-3.6   | 3.9<br>1.5      | .2<br>-1.2                | -1.4<br>-1.4     | -5.5<br>1.7       | 3.2<br>9    | 2.0               | 2.3                | -11.4<br>-2.2   |
| Chemical products Paper products              |            | 1.70                            | 3.8         | -4.2                    | -2.2           | -13.3          | -16.0           | -1.5            | -1.2                      | -1.4             | 2                 | 9<br>1      | 1.1               | -1.3               | -2.2            |
| Energy  |            | 6.10                            | 1           | 1.9                     | 3.6            | 8              | -12.4           | -7.3            | .4                        | -2.7             | 4                 | -1.4        | .5                | 1.2                | 6.4             |
| Energy  |            | 0.10                            |             | 1.,                     | 5.0            |                | 12              | 710             |                           | 2.,              |                   |             |                   | 1.2                | 0               |
| Business equipment                            |            | 9.48                            | 7.4         | 2.3                     | -8.4           | -14.3          | -20.9           | 3.5             | -1.9                      | -2.2             | 3                 | 1.0         | 1.1               | .1                 | -8.0            |
| Transit                                       |            | 1.53                            | 9.2         | -1.4                    | -29.0          | 49.1           | -23.5           | 25.2            | -4.0                      | -3.2             | .9                | 4.7         | 1.1               | 2.4                | 31.0            |
| Information processing                        |            | 2.92                            | 10.8        | 6.6                     | 2.0            | -13.3          | -7.1            | 2.3             | .0                        | 8                | 1                 | .7          | .3                | .2                 | -5.6            |
| Industrial and other                          |            | 5.03                            | 4.8         | 1.1                     | -7.4           | -27.1          | -27.7           | -1.9            | -2.3                      | -2.7             | 8                 | .1          | 1.7               | 6                  | -17.7           |
| Defense and space equipment                   |            | 1.66                            | -1.9        | 5.7                     | 5              | -2.4           | .6              | 14.7            | 2                         | .6               | .2                | 1.9         | 1.2               | 1.1                | 5.3             |
| Construction supplies<br>Business supplies    |            | 4.87<br>10.65                   | -3.3<br>.4  | -1.0<br>1.3             | -11.6<br>-6.9  | -33.7<br>-18.6 | -10.8<br>-9.4   | 2.9<br>5        | 9<br>1                    | .1<br>-1.1       | .0<br>.1          | .5<br>1     | .4<br>.7          | 4<br>4             | -16.7<br>-9.2   |
| Materials                                     |            | 42.95                           | 2.7         | 3.2                     | -7.9           | -21.8          | -10.3           | 7.0             | 3                         | -1.0             | 5                 | 1.3         | 1.3               | .8                 | -6.1            |
| Non-energy                                    |            | 28.99                           | 1.4         | 3.5                     | -12.0          | -30.2          | -9.2            | 10.2            | .2                        | -1.0             | 3                 | 1.8         | 1.3               | 1.0                | -11.4           |
| Durable                                       |            | 16.83                           | .4          | 4.7                     | -12.0          | -40.2          | -21.2           | 11.8            | -1.0                      | -2.6             | 9                 | 3.1         | 1.2               | 1.3                | -20.4           |
| Consumer parts                                |            | 2.69                            | -5.7        | -2.2                    | -20.3          | -63.7          | -24.4           | 36.1            | .2                        | -5.3             | -4.6              | 10.5        | 2.5               | 3.3                | -26.7           |
| Equipment parts                               |            | 5.93                            | 6.9         | 10.3                    | -6.5           | -29.8          | -18.0           | 5.5             | 6                         | -2.9             | 7                 | 2.0         | .7                | 1.2                | -17.6           |
| Other   |            | 8.21                            | -1.8        | 3.2                     | -12.9          | -38.6          | -22.7           | 10.5            | -1.6                      | -1.6             | 1                 | 2.0         | 1.2               | .8                 | -20.4           |
| Nondurable<br>Textile                         |            | 12.16<br>.50                    | 3.1         | 1.8<br>-6.9             | -12.0<br>-13.7 | -14.6<br>-32.5 | 7.7<br>-6.7     | 8.3             | 1.7<br>2.5                | .9<br>-1.3       | .4<br>.7          | .3<br>-3.5  | 1.4               | .7<br>.4           | 1.9<br>-18.7    |
| Paper   |            | 2.32                            | 1.8         | -0.9<br>-1.4            | -13.7          | -32.3          | -6.7<br>-5.0    | 14.2            | -1.0                      | -1.3<br>2.7      | 1.7               | -3.3<br>.3  | 1.5               | .0                 | -18.7<br>-9.5   |
| Chemical                                      |            | 5.87                            | 6.9         | 4.3                     | -15.8          | -9.6           | 21.7            | 13.7            | 4.6                       | .1               | .8                | 1.2         | 1.5               | 1.5                | 14.6            |
| Energy  |            | 13.96                           | 5.5         | 2.5                     | .2             | -4.6           | -12.6           | 3               | -1.3                      | -1.1             | -1.0              | .0          | 1.4               | .2                 | 3.5             |
| INDUSTRY GROUPS                               |            | 79.00                           | 1.0         | 1.0                     | 0.7            | 22.0           | 0.7             | 7.1             | 4                         | 0                | 2                 | 1.2         | 1.2               | 0                  | 7.7             |
| Manufacturing (NAICS)                         | 31–33      | 78.99<br>75.29                  | 1.2         | 1.9                     | -8.7<br>-8.7   | -22.0<br>-21.7 | -8.7<br>-8.1    | 7.1             | 4<br>3                    | 9<br>9           | 3<br>3            | 1.2         | 1.2               | .9<br>1.0          | -7.7<br>-7.2    |
| Durable manufacturing                         | 31-33      | 38.10                           | 1.3         | 3.2                     | -0.7           | -31.6          | -15.9           | 12.4            | 7                         | -2.1             | 3<br>7            | 2.9         | 1.3               | 1.0                | -13.7           |
| Wood products                                 | 321        | 1.02                            | -13.0       | -7.5                    | -20.7          | -35.7          | -9.6            | 1.4             | -1.1                      | 3                | 1.4               | 9           | .5                | .1                 | -20.3           |
| Nonmetallic mineral products                  | 327        | 2.23                            | -3.6        | -1.2                    | -10.3          | -37.8          | -10.2           | 10.7            | .9                        | 9                | 1                 | 4.1         | -1.3              | 7                  | -15.8           |
| Primary metal                                 | 331        | 2.49                            | -4.2        | 4.3                     | -26.8          | -62.8          | -22.6           | 87.1            | 8                         | -1.7             | 3.1               | 9.6         | 6.0               | 3.4                | -28.1           |
| Fabricated metal products                     | 332        | 5.91                            | 3.3         | 3.3                     | -7.0           | -33.4          | -26.3           | -3.1            | -2.1                      | -2.0             | 4                 | 3           | .6                | .2                 | -19.7           |
| Machinery                                     | 333        | 4.89                            | 2.8         | -1.0                    | -10.6          | -34.4          | -33.0           | -5.2            | -2.4                      | -3.4             | -2.0              | .1          | 2.0               | 9                  | -22.6           |
| Computer and electronic products              | 334        | 6.89                            | 9.3         | 11.0                    | -2.6           | -18.6          | -3.6            | 8.6             | .7                        | -1.2             | 2                 | 2.1         | .4                | .5                 | -9.6            |
| Electrical equip., appliances, and components | 335        | 2.00                            | 4           | 3.3                     | -2.9           | -22.3          | -18.0           | -2.1            | 7                         | -1.1             | -1.4              | .0          | 1.0               | .2                 | -12.1           |
| Motor vehicles and parts                      | 3361–3     | 4.51                            | -6.2        | -1.9                    | -23.3          | -69.5          | -10.4           | 103.0           | 2                         | -7.6             | -3.9              | 17.8        | 6.1               | 8.1                | -14.9           |
| Aerospace and miscellaneous                   | 2201 2     | 1101                            | 0.2         | 1.,                     | 20.0           | 07.0           | 10              | 100.0           | .2                        | 7.0              | 5.7               | 17.0        | 0.1               | 0.1                | 1               |
| transportation equipment                      | 3364-9     | 3.54                            | 5.6         | 11.1                    | -12.7          | 29.3           | -12.8           | 7.5             | -1.6                      | -1.3             | .1                | 1.7         | .1                | 1.5                | 13.6            |
| Furniture and related products                | 337        | 1.33                            | -1.7        | -2.6                    | -17.8          | -23.6          | -24.3           | -12.0           | -3.6                      | 5                | -1.6              | .7          | -3.5              | -1.0               | -22.4           |
| Miscellaneous                                 | 339        | 3.27                            | 3.5         | 2.9                     | -2.3           | -10.8          | -1.2            | 4.4             | 1.3                       | 5                | 3                 | .7          | 1.1               | 1                  | -3.5            |
| Nondurable manufacturing                      |            | 37.20                           | 1.4         | .8                      | -6.3           | -11.1          | 2               | 3.4             | .0                        | .1               | .0                | 2           | 1.1               | .8                 | 5               |
| Food, beverage, and tobacco products          | 311,2      | 11.46                           | .2          | .8<br>1.9               | -0.3<br>-1.6   | -4.3           | 2<br>2          | .2              | 8                         | 1.3              | -1.3              | -1.0        | 1.1               | .s<br>.5           | 3<br>8          |
| Textile and product mills                     | 313,4      | .89                             | -11.4       | -7.3                    | -13.8          | -29.9          | -13.7           | -7.3            | 1.0                       | -1.9             | -1.3              | -2.0        | .7                | 1.0                | -18.1           |
| Apparel and leather                           | 315,6      | .57                             | 4           | 8                       | -8.2           | -24.6          | -16.8           | -1.6            | -2.1                      | .1               | -5.5              | 2.4         | .9                | 1.4                | -15.5           |
| Paper   | 322        | 2.62                            | .5          | -2.1                    | -10.9          | -21.5          | 3               | 16.9            | 9                         | 3.4              | 2.0               | .2          | 2.2               | 4                  | -7.8            |
| Printing and support                          | 323        | 1.80                            | 2.4         | -1.5                    | -9.6           | -26.9          | -14.7           | 1.3             | -1.9                      | 6                | .8                | 4           | .6                | 1                  | -12.9           |
| Petroleum and coal products                   | 324        | 4.72                            | 2.3         | .3                      | .5             | -7.6           | 1.2             | 1.6             | .2                        | -2.0             | 1.4               | 4           | 9                 | 3.6                | 12.2            |
| Chemical Plastics and rubber products         | 325<br>326 | 12.06<br>3.08                   | 5.1<br>-3.0 | .7<br>4.5               | -9.8<br>-11.9  | -7.4<br>-27.4  | 7.1             | 5.6             | 1.5<br>7                  | 5<br>8           | .6                | .2<br>1.2   | 1.0               | .8<br>1            | 3.9<br>-14.6    |
| Other manufacturing (non-NAICS)               | 1133,5111  | 3.70                            | -1.2        | -1.8                    | -8.8           | -27.6          | -21.5           | -5.2            | -1.3                      | 9                | .1                | 9           | .3                | -1.3               | -17.1           |
| Mining  | 21         | 10.40                           | 8.7         | 2                       | 0              | 11.7           | 21.7            | 3.7             | 26                        | 1.1              | 1 /               | 1.2         | 1.1               | 7                  | .2              |
| Mining<br>Utilities                           | 2211,2     | 10.60<br>10.41                  | 6           | 3.1                     | .8             | -11.7<br>-4.1  | -21.7<br>-11.2  | -5.8            | -2.6                      | -1.1<br>-2.0     | -1.4<br>5         | 1.2<br>-1.5 | 1.1               | .7<br>7            | -2.1            |
| Electric                                      | 2211,2     | 8.65                            | -1.1        | 3.5                     | 8              | -2.9           | -9.7            | -7.7            | .1                        | -1.4             | -1.3              | -1.8        | 2.3               | 8                  | -2.7            |
| Natural gas                                   | 2212       | 1.76                            | 1.4         | 1.6                     | 5.9            | -10.2          | -18.7           | 6.2             | 1.6                       | -5.0             | 4.3               | .7          | 3                 | 2                  | .6              |
|   |            |                                 | 1           |                         |                |                |                 |                 | I                         |                  |                   |             |                   |                    |                 |

NOTE. Under the industry groups, the figures to the right of the series descriptions are 2002 North American Industry Classification System (NAICS) codes. The abbreviation pt denotes part of a NAICS code. Additional industry detail is available on the Board's web site (www.federalreserve.gov/releases/G17). Under market groups, in the products category, miscellaneous consumer nondurables, oil and gas drilling, and manufactured homes are not shown separately; in the nondurable materials category, containers and miscellaneous nondurable materials are not shown

<sup>1.</sup> The proportion data are the relative weights for the rates of change for each series in the computation of the change in total industrial production in the following year.

Table 2
INDUSTRIAL PRODUCTION: SPECIAL AGGREGATES AND SELECTED DETAIL
Percent change, seasonally adjusted
Fourth quarter to

|   |          |                    |            | rth quarte<br>urth quar |                | I              | Annual ra       | te              |                           |                  | Month             | nly rate          |            |                    | Sept. '08       |
|---|----------|--------------------|------------|-------------------------|----------------|----------------|-----------------|-----------------|---------------------------|------------------|-------------------|-------------------|------------|--------------------|-----------------|
| Item  |          | 2008<br>proportion | 2006       | 2007                    | 2008           | 2009<br>Q1     | Q2 <sup>r</sup> | Q3 <sup>p</sup> | 2009<br>Apr. <sup>r</sup> | May <sup>r</sup> | June <sup>r</sup> | July <sup>r</sup> | Aug.r      | Sept. <sup>p</sup> | to<br>Sept. '09 |
| Total industry  |          | 100.00             | 1.8        | 1.8                     | -6.7           | -19.0          | -10.3           | 5.2             | 5                         | -1.1             | 4                 | .9                | 1.2        | .7                 | -6.1            |
| Energy  |          | 23.88              | 3.9        | 2.1                     | 1.3            | -6.5           | -14.4           | -2.5            | 8                         | -1.8             | 8                 | 4                 | 1.1        | .5                 | 1.7             |
| Consumer products   |          | 6.10               | 1          | 1.9                     | 3.6            | 8              | -12.4           | -7.3            | .4                        | -2.7             | 4                 | -1.4              | .5         | 1.2                | 6.4             |
| Commercial products   |          | 3.04               | 1.2        | 1.9                     | .5             | 8              | -8.7            | 7               | .5                        | -2.6             | .1                | .0                | 1.2        | 3                  | 3               |
| Oil and gas well drilling   | 213111   | .78                | 14.9       | 7                       | 6.9            | -72.3          | -75.0           | -9.3            | -10.0                     | -5.6             | -4.0              | 2                 | 1.2        | 5.0                | -50.4           |
| Converted fuel<br>Primary energy  |          | 4.25<br>9.71       | 2.6<br>6.8 | 5.7<br>1.2              | -4.4<br>2.0    | -9.9<br>-2.4   | -11.4<br>-13.2  | 8<br>.0         | -1.4<br>-1.2              | 3<br>-1.5        | -1.9<br>5         | .2<br>1           | 1.7<br>1.2 | 2<br>.4            | -1.6<br>5.5     |
| Non-energy  |          | 76.12              | 1.2        | 1.7                     | -9.4           | -23.1          | -9.0            | 7.4             | 4                         | 9                | 3                 | 1.2               | 1.3        | .7                 | -8.9            |
| Selected high-technology industries   |          | 4.17               | 13.1       | 18.2                    | -6.9           | -24.3          | 1               | 10.7            | 1.6                       | -2.1             | .8                | 2.8               | .0         | .0                 | -13.9           |
| Computers and peripheral equipment  | 3341     | 1.02               | 22.1       | 24.2                    | -11.9          | -26.5          | -25.1           | -16.9           | -2.8                      | -2.4             | -1.8              | -1.2              | -1.4       | -1.4               | -24.2           |
| Communications equipment  | 3342     | 1.32               | 12.4       | 6.6                     | 10.4           | -3.5           | -4.1            | 6.3             | 1.2                       | -2.0             | 2.9               | .5                | .3         | -1.1               | .8              |
| Semiconductors and related electronic components  | 334412–9 | 1.84               | 9.8        | 22.3                    | -15.0          | -38.1          | 22.3            | 33.2            | 4.6                       | -2.0             | .2                | 7.1               | .4         | 1.8                | -18.6           |
| Excluding selected high-technology industries   |          | 71.95              | .4         | .7                      | -9.5           | -23.1          | -9.5            | 7.2             | 6                         | 8                | 4                 | 1.1               | 1.4        | .7                 | -8.6            |
| Motor vehicles and parts  | 3361-3   | 4.51               | -6.2       | -1.9                    | -23.3          | -69.5          | -10.4           | 103.0           | 2                         | -7.6             | -3.9              | 17.8              | 6.1        | 8.1                | -14.9           |
| Motor vehicles  | 3361     | 1.92               | -7.6       | -1.9                    | -30.3          | -83.7          | 6               | 295.2           | .0                        | -12.6            | -6.0              | 36.3              | 11.5       | 14.8               | -10.9           |
| Motor vehicle parts   | 3363     | 2.30               | -4.3       | .3                      | -14.8          | -53.7          | -17.2           | 30.5            | .0                        | -5.6             | -3.5              | 8.7               | 2.5        | 3.2                | -17.7           |
| Excluding motor vehicles and parts  |          | 67.44              | .9         | .9                      | -8.5           | -19.1          | -9.4            | 3.7             | 6                         | 4                | 2                 | .3                | 1.1        | .3                 | -8.2            |
| Consumer goods  |          | 20.65              | .8         | -1.1                    | -4.2           | -9.2           | -4.9            | 1.4             | 7                         | 1                | 3                 | 4                 | 1.3        | .3                 | -4.4            |
| Business equipment  |          | 7.43               | 6.2        | 2.3                     | -8.8           | -5.9           | -22.1           | 1.3             | -2.0                      | -2.0             | 6                 | .6                | 1.2        | 1                  | -5.7            |
| Construction supplies Business supplies   |          | 4.83               | -3.4       | -1.0                    | -11.8          | -34.1          | -10.7           | 2.9             | 9                         | .1               | 1                 | .5                | .4         | 4                  | -16.9           |
| Materials   |          | 7.32<br>25.51      | 6<br>1.4   | .4<br>2.4               | -9.8<br>-11.2  | -24.8<br>-26.5 | -10.7<br>-9.4   | -1.2<br>7.4     | 5<br>.0                   | 5<br>5           | .2<br>1           | 4<br>.9           | .4<br>1.2  | 5<br>.8            | -12.6<br>-9.8   |
| Measures excluding selected high-technology industries  |          | 07.02              | 1.2        | 1.1                     |                | 10.0           | 10.7            | 5.0             |                           | 1.0              |                   | 0                 | 1.2        | 7                  |                 |
| Total industry  |          | 95.83              | 1.2        | 1.1                     | -6.7           | -18.8          | -10.7           | 5.0             | 6                         | -1.0             | 5                 | .8                | 1.3        | .7                 | -5.7            |
| Manufacturing <sup>1</sup> Durable  |          | 74.82<br>34.07     | .4<br>4    | .9<br>1.4               | -8.9<br>-11.7  | -21.9<br>-32.3 | -9.2<br>-17.7   | 6.9<br>12.6     | 5<br>-1.0                 | 9<br>-2.1        | 4<br>9            | 1.1<br>2.9        | 1.2<br>1.5 | .9<br>1.3          | -7.3<br>-13.6   |
| Measures excluding motor vehicles and parts   |          |                    |            |                         |                |                |                 |                 |                           |                  |                   |                   |            |                    |                 |
| Total industry  |          | 95.49              | 2.3        | 2.0                     | -5.9           | -16.0          | -10.3           | 2.5             | 5                         | 8                | 3                 | .3                | 1.1        | .4                 | -5.7            |
| Manufacturing <sup>1</sup> Durable  |          | 74.48<br>33.73     | 1.8<br>2.5 | 2.1<br>4.0              | -7.8<br>-9.3   | -18.3<br>-25.0 | -8.7<br>-16.5   | 3.8<br>5.2      | 4<br>8                    | 6<br>-1.5        | 1<br>3            | .5<br>1.4         | .9<br>.7   | .5<br>.3           | -7.3<br>-13.5   |
| Measures excluding selected high-technology industries  |          |                    |            |                         |                |                |                 |                 |                           |                  |                   |                   |            |                    |                 |
| and motor vehicles and parts  |          | 01.22              | 17         | 1.2                     | 50             | 15.6           | 10.7            | 2.2             | 6                         | 0                | 2                 | 2                 | 1.1        |                    | 5.2             |
| Total industry  Manufacturing <sup>1</sup>  |          | 91.32<br>70.31     | 1.7        | 1.2                     | -5.8<br>-7.8   | -15.6<br>-18.0 | -10.7<br>-9.1   | 3.4             | 6<br>5                    | 8<br>6           | 3<br>2            | .3                | 1.1        | .5                 | -5.3<br>-6.9    |
| Stage-of-process components<br>of non-energy materials,<br>measures of the input to<br>Finished processors<br>Primary and semifinished processors |          | 11.43<br>17.56     | 1.7        | 4.0 3.2                 | -11.1<br>-12.5 | -38.2<br>-24.5 | -16.1<br>-4.6   | 12.1<br>9.0     | 4<br>.6                   | -2.1<br>3        | 9<br>.0           | 2.9               | 1.2<br>1.3 | 1.3                | -18.1<br>-6.9   |

Table 3
MOTOR VEHICLE ASSEMBLIES
Millions of units, seasonally adjusted annual rate

|         |      | 2009   |   |   | 2009   |   |  |   |  |   |
|---------|------|--|---|---|--|---|--|---|--|---|
| average | Q4   | Q1   | Q2  | Q3  | Apr.   | May   | June   | July  | Aug.   | Sept.   |
| 8 67    | 7 27 | 4 57   | 4 56  | 6.49  | 5 10   | 4 40  | 4 18   | 5 75  | 6.45   | 7.29  |
|         | 3.34 | 1.66   | 1.91  |   |  | 1.91  | 1.89   |   |  | 2.84  |
| 4.90    | 3.93 | 2.91   | 2.66  | 3.97  | 3.18   | 2.49  | 2.30   | 3.54  | 3.91   | 4.44  |
| 4.67    | 3.73 | 2.76   | 2.55  | 3.84  | 3.08   | 2.40  | 2.17   | 3.41  | 3.79   | 4.31  |
| .22     | .20  | .15  | .11   | .13   | .10  | .10   | .13  | .13   | .12  | .14   |
|         |      |  |   |   |  |   |  |   |  |   |
| 8.45    | 7.07 | 4.42   | 4.45  | 6.37  | 5.01   | 4.31  | 4.05   | 5.62  | 6.33   | 7.15  |
|         | 4.67 | 3.78<br>4.90<br>3.93<br>4.67<br>.22<br>3.73<br>.20 | 3.78 3.34 1.66<br>4.90 3.93 2.91<br>4.67 3.73 2.76<br>.22 .20 .15 | 3.78     3.34     1.66     1.91       4.90     3.93     2.91     2.66       4.67     3.73     2.76     2.55       .22     .20     .15     .11 | 3.78     3.34     1.66     1.91     2.53       4.90     3.93     2.91     2.66     3.97       4.67     3.73     2.76     2.55     3.84       .22     .20     .15     .11     .13 | 3.78     3.34     1.66     1.91     2.53     1.93       4.90     3.93     2.91     2.66     3.97     3.18       4.67     3.73     2.76     2.55     3.84     3.08       .22     .20     .15     .11     .13     .10 | 3.78     3.34     1.66     1.91     2.53     1.93     1.91       4.90     3.93     2.91     2.66     3.97     3.18     2.49       4.67     3.73     2.76     2.55     3.84     3.08     2.40       .22     .20     .15     .11     .13     .10     .10 | 3.78     3.34     1.66     1.91     2.53     1.93     1.91     1.89       4.90     3.93     2.91     2.66     3.97     3.18     2.49     2.30       4.67     3.73     2.76     2.55     3.84     3.08     2.40     2.17       .22     .20     .15     .11     .13     .10     .10     .13 | 3.78     3.34     1.66     1.91     2.53     1.93     1.91     1.89     2.21       4.90     3.93     2.91     2.66     3.97     3.18     2.49     2.30     3.54       4.67     3.73     2.76     2.55     3.84     3.08     2.40     2.17     3.41       .22     .20     .15     .11     .13     .10     .10     .13     .13 | 3.78     3.34     1.66     1.91     2.53     1.93     1.91     1.89     2.21     2.54       4.90     3.93     2.91     2.66     3.97     3.18     2.49     2.30     3.54     3.91       4.67     3.73     2.76     2.55     3.84     3.08     2.40     2.17     3.41     3.79       .22     .20     .15     .11     .13     .10     .10     .13     .13     .12 |

NOTE. Seasonal factors and underlying data for auto, light truck, and medium and heavy truck production are available on the Board's web site, www.federalreserve.gov/releases/G17/mvsf.htm

r Revised. p Preliminary.

1. Refer to note on cover page.

 Table 4

 INDUSTRIAL PRODUCTION INDEXES: MARKET AND INDUSTRY GROUP SUMMARY

 2002 = 100, seasonally adjusted

| 2002 = 100, seasonally adjusted           |           |                       |                         |                        |                        |                        |                        |                        |                        |                        |                        |
|---|-----------|-----------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Item                                      |           | 2008<br>proportion    | 2009<br>Jan.            | Feb.                   | Mar.                   | Apr.r                  | May <sup>r</sup>       | June <sup>r</sup>      | July <sup>r</sup>      | Aug.r                  | Sept. <sup>p</sup>     |
| Total IP                                  |           | 100.00                | 100.1                   | 99.3                   | 97.7                   | 97.2                   | 96.2                   | 95.8                   | 96.6                   | 97.8                   | 98.5                   |
| MARKET GROUPS                             |           |                       |                         |                        |                        |                        |                        |                        |                        |                        |                        |
| Final products and nonindustrial supplies |           | 57.05                 | 101.0                   | 100.0                  | 98.8                   | 98.1                   | 97.0                   | 96.7                   | 97.2                   | 98.4                   | 99.0                   |
| Consumer goods                            |           | 29.54                 | 98.6                    | 98.7                   | 98.3                   | 97.9                   | 96.9                   | 96.4                   | 97.0                   | 98.5                   | 99.6                   |
| Durable                                   |           | 6.32                  | 74.6                    | 76.1                   | 76.1                   | 76.2                   | 74.0                   | 73.0                   | 78.2                   | 80.0                   | 82.8                   |
| Automotive products                       |           | 2.88                  | 58.7                    | 64.2                   | 66.2                   | 66.4                   | 63.5                   | 62.0                   | 71.3                   | 76.2                   | 81.8                   |
| Home electronics                          |           | .34                   | 176.3                   | 174.3                  | 170.1                  | 165.1                  | 159.6                  | 157.3                  | 156.4                  | 154.3                  | 152.2                  |
| Appliances, furniture, carpeting          |           | .99                   | 72.2                    | 70.9                   | 69.4                   | 70.2                   | 69.2                   | 67.1                   | 67.9                   | 66.5                   | 66.7                   |
| Miscellaneous goods                       |           | 2.11                  | 89.4                    | 86.6                   | 84.5                   | 84.6                   | 83.3                   | 83.8                   | 85.4                   | 84.6                   | 84.8                   |
| Nondurable                                |           | 23.22                 | 105.9                   | 105.5                  | 105.0                  | 104.4                  | 103.8                  | 103.5                  | 102.6                  | 104.0                  | 104.6                  |
| Non-energy                                |           | 17.12                 | 102.8                   | 103.4                  | 103.2                  | 102.3                  | 102.4                  | 102.1                  | 101.4                  | 103.1                  | 103.4                  |
| Foods and tobacco                         |           | 9.39                  | 105.6                   | 106.6                  | 106.6                  | 105.6                  | 106.9                  | 105.7                  | 104.8                  | 107.1                  | 107.7                  |
| Clothing                                  |           | .42<br>5.09           | 60.2<br>108.5           | 58.8<br>109.0          | 58.8<br>109.9          | 58.9<br>108.6          | 58.1<br>107.0          | 54.9<br>108.9          | 56.7<br>107.9          | 57.8<br>108.7          | 59.1<br>109.0          |
| Chemical products                         |           | 1.70                  | 88.2                    | 88.9                   | 84.5                   | 84.2                   | 83.2                   | 83.0                   | 82.9                   | 83.8                   | 82.7                   |
| Paper products Energy                     |           | 6.10                  | 114.8                   | 111.2                  | 110.2                  | 110.5                  | 107.5                  | 107.1                  | 105.6                  | 106.1                  | 107.4                  |
|   |           |                       |                         |                        |                        |                        |                        |                        |                        |                        |                        |
| Business equipment                        |           | 9.48                  | 115.7<br>96.9           | 113.6                  | 110.6<br>96.6          | 108.5<br>92.7          | 106.2<br>89.7          | 105.9<br>90.5          | 106.9<br>94.8          | 108.1<br>95.9          | 108.3<br>98.1          |
| Transit Information processing            |           | 1.53<br>2.92          | 155.6                   | 98.4<br>151.8          | 150.9                  | 150.8                  | 149.7                  | 149.5                  | 150.5                  | 150.9                  | 151.2                  |
| Industrial and other                      |           | 5.03                  | 102.3                   | 99.6                   | 95.6                   | 93.4                   | 90.8                   | 90.1                   | 90.2                   | 91.7                   | 91.1                   |
| Defense and space equipment               |           | 1.66                  | 120.5                   | 118.4                  | 119.2                  | 119.0                  | 119.7                  | 119.9                  | 122.2                  | 123.7                  | 125.1                  |
|   |           |                       |                         |                        |                        |                        |                        |                        |                        |                        |                        |
| Construction supplies                     |           | 4.87                  | 85.8                    | 84.6                   | 82.7                   | 82.0                   | 82.0                   | 82.0                   | 82.4                   | 82.8                   | 82.5                   |
| Business supplies                         |           | 10.65                 | 98.9                    | 97.3                   | 95.6                   | 95.5                   | 94.5                   | 94.6                   | 94.5                   | 95.1                   | 94.7                   |
| Materials                                 |           | 42.95                 | 99.0                    | 98.5                   | 96.5                   | 96.2                   | 95.2                   | 94.7                   | 95.9                   | 97.1                   | 97.9                   |
| Non-energy                                |           | 28.99                 | 95.4                    | 95.3                   | 92.7                   | 92.9                   | 92.0                   | 91.7                   | 93.3                   | 94.5                   | 95.5                   |
| Durable                                   |           | 16.83                 | 98.9                    | 97.0                   | 93.8                   | 92.9                   | 90.4                   | 89.6                   | 92.4                   | 93.5                   | 94.7                   |
| Consumer parts                            |           | 2.69                  | 57.4                    | 57.6                   | 55.8                   | 55.9                   | 52.9                   | 50.5                   | 55.8                   | 57.2                   | 59.1                   |
| Equipment parts                           |           | 5.93                  | 149.1                   | 146.1                  | 142.9                  | 142.1                  | 137.9                  | 136.9                  | 139.6                  | 140.6                  | 142.3                  |
| Other                                     |           | 8.21                  | 87.7                    | 85.5                   | 81.9                   | 80.6                   | 79.4                   | 79.3                   | 80.9                   | 81.9                   | 82.5                   |
| Nondurable                                |           | 12.16                 | 89.2                    | 91.2                   | 89.5                   | 91.0                   | 91.8                   | 92.1                   | 92.4                   | 93.7                   | 94.3                   |
| Textile                                   |           | .50<br>2.32           | 62.3<br>81.4            | 58.9<br>83.2           | 57.4<br>79.1           | 58.9<br>78.3           | 58.1<br>80.5           | 58.5<br>81.8           | 56.5<br>82.1           | 56.9<br>83.3           | 57.1<br>83.3           |
| Paper<br>Chemical                         |           | 5.87                  | 93.5                    | 97.1                   | 95.5                   | 99.8                   | 99.9                   | 100.7                  | 101.9                  | 103.4                  | 105.0                  |
| Energy                                    |           | 13.96                 | 103.6                   | 102.2                  | 101.3                  | 100.1                  | 99.0                   | 98.0                   | 98.0                   | 99.3                   | 99.5                   |
| Y   |           |                       |                         |                        |                        |                        |                        |                        |                        |                        |                        |
| INDUSTRY GROUPS Manufacturing             |           | 78.99                 | 97.8                    | 97.7                   | 96.1                   | 95.7                   | 94.8                   | 94.5                   | 95.6                   | 96.7                   | 97.5                   |
| Manufacturing (NAICS)                     | 31–33     | 75.29                 | 98.8                    | 98.7                   | 97.3                   | 96.9                   | 96.0                   | 95.7                   | 96.9                   | 98.1                   | 99.0                   |
| Durable manufacturing                     | 01 00     | 38.10                 | 99.9                    | 98.7                   | 96.4                   | 95.7                   | 93.7                   | 93.0                   | 95.7                   | 97.0                   | 98.1                   |
| Wood products                             | 321       | 1.02                  | 67.7                    | 68.1                   | 66.2                   | 65.5                   | 65.3                   | 66.2                   | 65.6                   | 66.0                   | 66.0                   |
| Nonmetallic mineral products              | 327       | 2.23                  | 86.4                    | 84.9                   | 81.9                   | 82.7                   | 81.9                   | 81.9                   | 85.2                   | 84.1                   | 83.5                   |
| Primary metal                             | 331       | 2.49                  | 67.3                    | 64.5                   | 60.7                   | 60.3                   | 59.2                   | 61.1                   | 66.9                   | 70.9                   | 73.4                   |
| Fabricated metal products                 | 332       | 5.91                  | 98.2                    | 95.6                   | 91.3                   | 89.4                   | 87.6                   | 87.2                   | 87.0                   | 87.5                   | 87.7                   |
| Machinery                                 | 333       | 4.89                  | 96.2                    | 94.0                   | 88.7                   | 86.6                   | 83.7                   | 82.0                   | 82.1                   | 83.8                   | 83.0                   |
| Computer and electronic products          | 334       | 6.89                  | 174.9                   | 171.6                  | 171.4                  | 172.5                  | 170.5                  | 170.2                  | 173.9                  | 174.6                  | 175.5                  |
| Electrical equip., appliances,            | 335       | 2.00                  | 98.2                    | 95.8                   | 92.7                   | 92.0                   | 91.0                   | 89.8                   | 89.8                   | 90.7                   | 90.9                   |
| and components  Motor vehicles and parts  | 3361–3    | 4.51                  | 51.2                    | 95.8<br>55.8           | 56.7                   | 92.0<br>56.6           | 52.3                   | 50.3                   | 59.8<br>59.3           | 62.9                   | 67.9                   |
| Aerospace and miscellaneous               | 3301-3    | 7.31                  | 31.2                    | 55.0                   | 50.7                   | 50.0                   | 34.3                   | 50.5                   | 37.3                   | 04.7                   | 07.7                   |
| transportation equipment                  | 3364-9    | 3.54                  | 119.3                   | 117.8                  | 116.8                  | 115.0                  | 113.5                  | 113.6                  | 115.5                  | 115.6                  | 117.2                  |
| Furniture and related products            | 337       | 1.33                  | 79.1                    | 76.5                   | 75.1                   | 72.3                   | 72.0                   | 70.8                   | 71.3                   | 68.9                   | 68.2                   |
| Miscellaneous                             | 339       | 3.27                  | 114.6                   | 112.4                  | 111.6                  | 113.0                  | 112.4                  | 112.1                  | 113.0                  | 114.2                  | 114.1                  |
| Nondurable manufacturing                  |           | 37.20                 | 96.7                    | 97.7                   | 96.9                   | 97.0                   | 97.1                   | 97.1                   | 96.9                   | 98.0                   | 98.7                   |
| Food, beverage, and tobacco products      | 311,2     | 11.46                 | 106.1                   | 107.3                  | 107.3                  | 106.4                  | 107.7                  | 106.4                  | 105.4                  | 107.4                  | 107.9                  |
| Textile and product mills                 | 311,2     | .89                   | 63.9                    | 61.7                   | 59.7                   | 60.3                   | 59.2                   | 59.1                   | 57.9                   | 58.3                   | 58.9                   |
| Apparel and leather                       | 315,6     | .57                   | 68.1                    | 66.8                   | 66.8                   | 65.4                   | 65.5                   | 61.9                   | 63.3                   | 63.9                   | 64.7                   |
| Paper                                     | 322       | 2.62                  | 80.1                    | 82.9                   | 78.9                   | 78.2                   | 80.9                   | 82.5                   | 82.7                   | 84.5                   | 84.2                   |
| Printing and support                      | 323       | 1.80                  | 85.3                    | 82.7                   | 81.6                   | 80.1                   | 79.6                   | 80.2                   | 79.9                   | 80.4                   | 80.3                   |
| Petroleum and coal products               | 324       | 4.72                  | 105.7                   | 108.7                  | 108.8                  | 109.0                  | 106.9                  | 108.3                  | 107.8                  | 106.9                  | 110.7                  |
| Chemical                                  | 325       | 12.06                 | 99.8                    | 101.6                  | 101.3                  | 102.7                  | 102.3                  | 102.9                  | 103.1                  | 104.1                  | 104.9                  |
| Plastics and rubber products              | 326       | 3.08                  | 88.2                    | 86.0                   | 83.4                   | 82.9                   | 82.2                   | 82.2                   | 83.2                   | 83.5                   | 83.5                   |
| Other manufacturing (non-NAICS)           | 1133,5111 | 3.70                  | 81.4                    | 80.4                   | 76.1                   | 75.1                   | 74.4                   | 74.4                   | 73.8                   | 74.0                   | 73.1                   |
| Mining                                    | 21        | 10.60                 | 102.8                   | 101.3                  | 98.7                   | 96.1                   | 95.0                   | 93.7                   | 94.9                   | 95.9                   | 96.6                   |
| Mining                                    |           |                       |                         |                        |                        |                        |                        |                        |                        |                        | 103.5                  |
| Utilities                                 | 2211,2    | 10.41                 | 111.5                   | 106.4                  | 106.1                  | 106.4                  | 104.3                  | 103.8                  | 102.3                  | 104.2                  |                        |
|   |           | 10.41<br>8.65<br>1.76 | 111.5<br>112.3<br>107.4 | 106.4<br>108.5<br>96.4 | 106.1<br>108.5<br>95.0 | 106.4<br>108.5<br>96.5 | 104.3<br>107.0<br>91.6 | 103.8<br>105.5<br>95.6 | 102.3<br>103.6<br>96.3 | 104.2<br>105.9<br>96.0 | 105.5<br>105.1<br>95.8 |

r Revised. p Preliminary. NOTE. Refer to notes on table 1.

 Table 5

 INDUSTRIAL PRODUCTION INDEXES: SPECIAL AGGREGATES

 2002 = 100, seasonally adjusted

| 002 = 100, seasonally adjusted  |          | 2000               | 2000         |              |              |              |                  |                   |                   |              |                              |
|---|----------|--------------------|--------------|--------------|--------------|--------------|------------------|-------------------|-------------------|--------------|------------------------------|
| Item  |          | 2008<br>proportion | 2009<br>Jan. | Feb.         | Mar.         | Apr.r        | May <sup>r</sup> | June <sup>r</sup> | July <sup>r</sup> | Aug.r        | Sept. <sup>I</sup>           |
| Total industry  |          | 100.00             | 100.1        | 99.3         | 97.7         | 97.2         | 96.2             | 95.8              | 96.6              | 97.8         | 98.5                         |
| Energy  |          | 23.88              | 108.7        | 106.1        | 104.8        | 104.0        | 102.1            | 101.3             | 100.9             | 102.0        | 102.5                        |
| Consumer products   |          | 6.10               | 114.8        | 111.2        | 110.2        | 110.5        | 107.5            | 107.1             | 105.6             | 106.1        | 107.4                        |
| Commercial products   |          | 3.04               | 117.1        | 114.1        | 113.8        | 114.4        | 111.4            | 111.5             | 111.5             | 112.8        | 112.                         |
| Oil and gas well drilling   | 213111   | .78                | 154.4        | 130.7        | 108.3        | 97.5         | 92.1             | 88.4              | 88.3              | 89.3         | 93.                          |
| Converted fuel  |          | 4.25               | 103.7        | 101.0        | 101.1        | 99.7         | 99.4             | 97.5              | 97.7              | 99.3         | 99.                          |
| Primary energy  |          | 9.71               | 103.2        | 102.4        | 101.0        | 99.8         | 98.3             | 97.8              | 97.7              | 98.9         | 99.                          |
| Non-energy  |          | 76.12              | 96.8         | 96.6         | 94.9         | 94.5         | 93.7             | 93.4              | 94.5              | 95.7         | 96.                          |
| Selected high-technology industries   |          | 4.17               | 204.2        | 199.5        | 200.4        | 203.6        | 199.4            | 200.9             | 206.5             | 206.4        | 206.                         |
| Computers and peripheral equipment  | 3341     | 1.02               | 181.7        | 177.2        | 173.7        | 168.9        | 164.8            | 161.8             | 159.9             | 157.7        | 155.                         |
| Communications equipment  | 3342     | 1.32               | 175.2        | 169.1        | 167.6        | 169.5        | 166.1            | 170.9             | 171.8             | 172.2        | 170.                         |
| Semiconductors and related  | 33 12    | 1.52               | 173.2        | 107.1        | 107.0        | 107.5        | 100.1            | 170.7             | 171.0             | 172.2        | 170.                         |
| electronic components   | 334412-9 | 1.84               | 218.0        | 215.8        | 222.9        | 233.1        | 228.4            | 229.0             | 245.2             | 246.1        | 250.                         |
| Excluding selected high-technology industries   |          | 71.95              | 91.8         | 91.7         | 90.0         | 89.5         | 88.8             | 88.4              | 89.4              | 90.6         | 91.                          |
| Motor vehicles and parts  | 3361-3   | 4.51               | 51.2         | 55.8         | 56.7         | 56.6         | 52.3             | 50.3              | 59.3              | 62.9         | 67.                          |
| Motor vehicles  | 3361     | 1.92               | 35.8         | 44.7         | 47.4         | 47.4         | 41.4             | 38.9              | 53.0              | 59.1         | 67.                          |
| Motor vehicle parts   | 3363     | 2.30               | 65.2         | 66.5         | 66.1         | 66.1         | 62.4             | 60.2              | 65.4              | 67.0         | 69.                          |
| Excluding motor vehicles and parts  |          | 67.44              | 95.2         | 94.7         | 92.8         | 92.3         | 91.9             | 91.7              | 92.0              | 93.0         | 93.                          |
| Consumer goods  |          | 20.65              | 99.1         | 99.3         | 98.7         | 97.9         | 97.9             | 97.6              | 97.2              | 98.5         | 98.                          |
| Business equipment  |          | 7.43               | 109.8        | 107.6        | 104.4        | 102.3        | 100.3            | 99.6              | 100.3             | 101.5        | 101.                         |
| Construction supplies   |          | 4.83               | 85.3         | 84.0         | 82.1         | 81.4         | 81.5             | 81.5              | 81.9              | 82.3         | 82.                          |
| Business supplies   |          | 7.32               | 88.7         | 87.7         | 85.5         | 85.1         | 84.7             | 84.8              | 84.5              | 84.9         | 84.                          |
| Materials   |          | 25.51              | 91.1         | 90.9         | 88.2         | 88.2         | 87.8             | 87.7              | 88.5              | 89.6         | 90.                          |
| Measures excluding selected high-technology industries  |          |                    |              |              |              |              |                  |                   |                   |              |                              |
| Total industry  |          | 95.83              | 96.1         | 95.4         | 93.8         | 93.3         | 92.3             | 91.9              | 92.6              | 93.8         | 94.                          |
| Manufacturing <sup>1</sup>  |          | 74.82              | 92.9         | 92.9         | 91.2         | 90.7         | 89.9             | 89.6              | 90.6              | 91.7         | 92.                          |
| Durable   |          | 34.07              | 89.9         | 89.0         | 86.6         | 85.8         | 83.9             | 83.2              | 85.6              | 86.9         | 88.                          |
| Measures excluding motor vehicles and parts   |          | 31.07              | 07.7         | 07.0         | 50.0         | 05.0         | 03.7             | 03.2              | 05.0              | 00.7         | 00.                          |
| Total industry  |          | 95.49              | 103.2        | 102.1        | 100.3        | 99.8         | 98.9             | 98.6              | 98.9              | 100.0        | 100.                         |
| Manufacturing <sup>1</sup>  |          | 74.48              | 101.6        | 101.1        | 99.3         | 98.9         | 98.2             | 98.1              | 98.6              | 99.5         | 99                           |
| Durable   |          | 33.73              | 109.3        | 107.0        | 104.1        | 103.2        | 101.7            | 101.3             | 102.8             | 103.5        | 103                          |
| Measures excluding selected high-technology   |          |                    |              | /.0          |              |              |                  |                   |                   |              | 100                          |
|   |          |                    | 1            |              |              |              |                  |                   |                   |              |                              |
| industries and motor vehicles and parts   |          |                    |              |              |              |              |                  |                   |                   |              |                              |
| industries and motor vehicles and parts Total industry  |          | 91.32              | 98.9         | 97.9         | 96.1         | 95.5         | 94.8             | 94.5              | 94.6              | 95.7         | 96.                          |
|   |          | 91.32<br>70.31     | 98.9<br>96.2 | 97.9<br>95.9 | 96.1<br>94.0 | 95.5<br>93.5 | 94.8<br>93.0     | 94.5<br>92.8      | 94.6<br>93.1      | 95.7<br>94.1 |                              |
| Total industry Manufacturing <sup>1</sup> Stage-of-process components of non-energy materials, measures of the input to |          | 70.31              | 96.2         | 95.9         | 94.0         | 93.5         | 93.0             | 92.8              | 93.1              | 94.1         | 94.                          |
| Total industry Manufacturing <sup>1</sup> Stage-of-process components of non-energy                                     |          |                    |              |              |              |              |                  |                   |                   |              | 96.1<br>94.1<br>98.1<br>92.1 |

Table 6 DIFFUSION INDEXES OF INDUSTRIAL PRODUCTION

| Item                 | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------------------|------|------|------|------|------|------|------|------|-------|------|------|------|
| One month earlier    |      |      |      |      |      |      |      |      |       |      |      |      |
| 2007                 | 44.9 | 57.7 | 54.5 | 59.9 | 45.8 | 58.3 | 51.9 | 45.5 | 58.3  | 45.5 | 58.0 | 53.8 |
| 2008                 | 43.9 | 42.0 | 46.2 | 42.3 | 50.3 | 50.6 | 46.2 | 41.3 | 29.5  | 39.7 | 28.8 | 20.2 |
| 2009                 | 33.0 | 41.5 | 33.0 | 45.8 | 40.4 | 41.7 | 60.6 | 56.9 |       |      |      |      |
| Three months earlier |      |      |      |      |      |      |      |      |       |      |      |      |
| 2007                 | 50.0 | 55.6 | 52.1 | 63.1 | 58.7 | 56.7 | 54.8 | 52.9 | 54.5  | 44.6 | 56.1 | 51.9 |
| 2008                 | 49.4 | 40.7 | 37.5 | 40.1 | 44.2 | 41.0 | 43.6 | 38.1 | 26.6  | 30.1 | 23.1 | 22.4 |
| 2009                 | 16.3 | 20.2 | 30.4 | 38.8 | 34.8 | 38.5 | 44.2 | 53.5 |       |      |      |      |
| Six months earlier   |      |      |      |      |      |      |      |      |       |      |      |      |
| 2007                 | 43.3 | 46.9 | 49.5 | 56.3 | 58.2 | 53.1 | 59.9 | 54.5 | 53.8  | 47.1 | 52.2 | 56.4 |
| 2008                 | 46.5 | 47.4 | 47.1 | 44.9 | 39.1 | 34.6 | 36.9 | 38.5 | 25.0  | 25.3 | 25.6 | 16.7 |
| 2009                 | 16.0 | 16.0 | 21.8 | 17.9 | 20.2 | 31.1 | 38.6 | 39.7 |       |      |      |      |

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.

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1. Refer to note on cover page.

Table 7 CAPACITY UTILIZATION

| Percent of | capacity. | seasonally | adjusted |
|------------|-----------|------------|----------|
|            |           |            |          |

|                                      |           |            | 1972- | 1994- | 2001- |      |                 |                 |       |                  |                   |                   |       |        |
|--------------------------------------|-----------|------------|-------|-------|-------|------|-----------------|-----------------|-------|------------------|-------------------|-------------------|-------|--------|
| Item                                 |           | 2008       | 2008  | 95    | 02    | 2009 |                 |                 | 2009  |                  |                   |                   |       |        |
| 110111                               |           | proportion | ave.  | high  | low   | 01   | Q2 <sup>r</sup> | O3 <sup>p</sup> | Apr.r | May <sup>r</sup> | June <sup>r</sup> | July <sup>r</sup> | Aug.r | Sept.p |
| -                                    |           | FroFormula |       |       |       |      | -               | - (-            | F     |                  |                   |                   |       | ~-F    |
| Total industry                       |           | 100.00     | 80.9  | 84.9  | 73.5  | 70.4 | 68.7            | 69.8            | 69.2  | 68.5             | 68.3              | 69.0              | 69.9  | 70.5   |
| Manufacturing <sup>1</sup>           |           | 79.68      | 79.6  | 84.5  | 71.4  | 66.7 | 65.4            | 66.8            | 65.8  | 65.2             | 65.1              | 66.0              | 66.8  | 67.5   |
| Manufacturing (NAICS)                | 31–33     | 76.08      | 79.4  | 84.6  | 70.9  | 66.7 | 65.5            | 67.0            | 65.9  | 65.4             | 65.2              | 66.1              | 67.0  | 67.8   |
| Manufacturing (NAICS)                | 31–33     | 70.08      | 17.4  | 04.0  | 70.9  | 00.7 | 05.5            | 07.0            | 03.9  | 05.4             | 03.2              | 00.1              | 07.0  | 07.0   |
| Durable manufacturing                |           | 39.36      | 77.8  | 83.7  | 67.8  | 61.0 | 58.5            | 60.4            | 59.4  | 58.2             | 57.9              | 59.6              | 60.4  | 61.2   |
| Wood products                        | 321       | 1.27       | 79.2  | 87.5  | 70.4  | 49.4 | 48.6            | 49.3            | 48.3  | 48.3             | 49.2              | 48.9              | 49.3  | 49.6   |
| Nonmetallic mineral products         | 327       | 2.42       | 77.7  | 82.5  | 70.4  | 56.1 | 54.8            | 56.5            | 55.1  | 54.7             | 54.7              | 57.0              | 56.4  | 56.1   |
| Primary metal                        | 331       | 2.69       | 80.5  | 94.7  | 68.0  | 48.0 | 45.0            | 52.8            | 45.1  | 44.3             | 45.7              | 50.2              | 53.2  | 55.1   |
| Fabricated metal products            | 332       | 5.61       | 77.5  | 85.5  | 69.4  | 67.1 | 62.5            | 62.5            | 63.4  | 62.2             | 62.1              | 62.0              | 62.5  | 62.8   |
| Machinery                            | 333       | 4.80       | 78.6  | 87.9  | 62.8  | 63.3 | 57.5            | 57.0            | 59.1  | 57.2             | 56.2              | 56.3              | 57.5  | 57.1   |
| Computer and electronic products     | 334       | 7.11       | 78.3  | 84.4  | 58.8  | 65.1 | 63.7            | 64.0            | 64.5  | 63.4             | 63.0              | 64.0              | 64.0  | 64.0   |
| Electrical equip., appliances,       | 331       | 7.11       | 70.5  | 01.1  | 30.0  | 05.1 | 05.7            | 01.0            | 01.5  | 05.1             | 05.0              | 01.0              | 01.0  | 01.0   |
| and components                       | 335       | 1.83       | 83.2  | 93.1  | 72.1  | 73.6 | 70.1            | 70.0            | 70.9  | 70.2             | 69.3              | 69.3              | 70.1  | 70.4   |
| Motor vehicles and parts             | 3361–3    | 5.52       | 76.7  | 88.7  | 69.2  | 40.0 | 39.3            | 47.6            | 41.8  | 38.8             | 37.4              | 44.3              | 47.2  | 51.2   |
| Aerospace and miscellaneous          | 3301-3    | 3.32       | 70.7  | 00.7  | 07.2  | 40.0 | 37.3            | 47.0            | 41.0  | 30.0             | 37.4              | 44.5              | 47.2  | 31.2   |
| transportation equipment             | 3364–9    | 3.32       | 73.2  | 68.6  | 64.4  | 76.7 | 74.1            | 75.4            | 74.7  | 73.7             | 73.8              | 75.0              | 75.1  | 76.2   |
| Furniture and related products       | 3304–9    | 1.39       | 78.4  |       |       |      | 58.2            |                 | 58.5  |                  |                   | 58.5              | 56.7  |        |
|                                      |           |            |       | 83.1  | 68.3  | 61.6 |                 | 57.2            |       | 58.4             | 57.8              |                   |       | 56.5   |
| Miscellaneous                        | 339       | 3.40       | 76.5  | 81.3  | 71.0  | 67.2 | 66.9            | 67.6            | 67.2  | 66.8             | 66.7              | 67.2              | 67.9  | 67.9   |
| Nondurable manufacturing             |           | 36.72      | 81.5  | 85.7  | 75.0  | 72.8 | 73.1            | 74.1            | 72.9  | 73.1             | 73.3              | 73.2              | 74.2  | 74.9   |
| Food, beverage, and tobacco products | 311,2     | 10.86      | 81.5  | 85.0  | 75.6  | 76.2 | 76.3            | 76.4            | 75.9  | 76.9             | 76.0              | 75.3              | 76.8  | 77.2   |
| Textile and product mills            | 313,4     | .96        | 81.6  | 91.7  | 68.7  | 60.1 | 59.0            | 58.9            | 59.4  | 58.6             | 58.9              | 58.1              | 58.8  | 59.8   |
| Apparel and leather                  | 315,6     | .56        | 79.5  | 88.1  | 63.6  | 67.9 | 65.6            | 66.1            | 66.5  | 66.8             | 63.4              | 65.2              | 66.0  | 67.2   |
| Paper Paper                          | 322       | 2.41       | 87.6  | 92.7  | 78.8  | 70.3 | 70.5            | 73.8            | 68.4  | 70.9             | 72.4              | 72.7              | 74.4  | 74.2   |
| Printing and support                 | 323       | 1.79       | 83.4  | 87.0  | 72.7  | 68.2 | 66.7            | 68.1            | 66.4  | 66.3             | 67.3              | 67.4              | 68.3  | 68.6   |
| Petroleum and coal products          | 324       | 5.00       | 86.1  | 91.1  | 86.0  | 83.9 | 84.2            | 84.7            | 84.9  | 83.3             | 84.5              | 84.1              | 83.4  | 86.5   |
| Chemical                             | 325       | 12.17      | 78.2  | 81.1  | 69.5  | 68.8 | 70.3            | 71.6            | 70.3  | 70.0             | 70.5              | 70.8              | 71.6  | 72.3   |
| Plastics and rubber products         | 326       | 2.97       | 83.6  | 92.2  | 74.6  | 67.3 | 65.1            | 66.5            | 65.3  | 64.9             | 65.1              | 66.1              | 66.6  | 66.7   |
| Other manufacturing (non-NAICS)      | 1133,5111 | 3.61       | 84.2  | 83.0  | 79.8  | 66.9 | 63.1            | 62.5            | 63.4  | 62.9             | 63.0              | 62.5              | 62.8  | 62.1   |
| Other manufacturing (non-tyares)     | 1133,3111 | 3.01       | 04.2  | 65.0  | 13.0  | 00.9 | 03.1            | 02.3            | 03.4  | 02.9             | 03.0              | 02.3              | 02.8  | 02.1   |
| Mining                               | 21        | 11.14      | 87.6  | 89.1  | 84.9  | 86.8 | 81.8            | 82.8            | 82.7  | 81.8             | 80.8              | 81.9              | 82.9  | 83.6   |
| Utilities                            | 2211,2    | 9.17       | 86.8  | 93.3  | 84.2  | 82.4 | 79.6            | 78.1            | 80.9  | 79.2             | 78.7              | 77.4              | 78.7  | 78.1   |
|                                      |           |            |       |       |       |      |                 |                 |       |                  |                   |                   |       |        |
| Selected high-technology industries  |           | 4.24       | 78.2  | 86.5  | 56.5  | 64.1 | 62.9            | 63.0            | 64.1  | 62.3             | 62.3              | 63.5              | 63.0  | 62.5   |
| Computers and peripheral equipment   | 3341      | .98        | 78.1  | 87.3  | 66.8  | 68.9 | 63.5            | 59.5            | 65.2  | 63.3             | 61.8              | 60.7              | 59.5  | 58.3   |
| Communications equipment             | 3342      | .64        | 76.2  | 82.9  | 41.6  | 72.0 | 69.9            | 69.8            | 70.6  | 68.8             | 70.3              | 70.3              | 70.1  | 68.9   |
| Semiconductors and related           |           |            |       |       |       |      |                 |                 |       |                  |                   |                   |       |        |
| electronic components                | 334412-9  | 1.92       | 80.6  | 91.7  | 58.0  | 56.4 | 57.9            | 60.5            | 59.2  | 57.5             | 57.1              | 60.6              | 60.2  | 60.7   |
| Measures excluding selected          |           |            |       |       |       |      |                 |                 |       |                  |                   |                   |       |        |
| high-technology industries           |           |            |       |       |       |      |                 |                 |       |                  |                   |                   |       |        |
| Total industry                       |           | 95.76      | 81.0  | 84.9  | 74.7  | 70.7 | 68.9            | 70.0            | 69.4  | 68.8             | 68.6              | 69.2              | 70.2  | 70.8   |
| Manufacturing <sup>1</sup>           |           | 75.44      | 79.7  | 84.4  | 72.7  | 66.8 | 65.5            | 67.0            | 65.9  | 65.4             | 65.3              | 66.1              | 67.0  | 67.8   |
| manatacturing                        |           | 75.44      | 17.1  | 04.4  | 12.1  | 00.0 | 05.5            | 07.0            | 05.7  | 05.4             | 05.5              | 00.1              | 07.0  | 07.0   |
| STAGE-OF-PROCESS GROUPS              |           |            |       |       |       |      |                 |                 |       |                  |                   |                   |       |        |
| STAGE-OF-PROCESS GROUPS<br>Crude     |           | 15.83      | 86.6  | 89.9  | 81.7  | 80.9 | 79.5            | 81.4            | 79.5  | 79.7             | 79.4              | 80.3              | 81.4  | 82.5   |
|                                      |           |            |       |       |       |      |                 |                 |       |                  |                   |                   |       |        |
| Primary and semifinished             |           | 46.62      | 82.0  | 87.9  | 74.3  | 68.4 | 66.2            | 66.9            | 67.0  | 65.9             | 65.8              | 66.3              | 67.0  | 67.3   |
| Finished                             |           | 37.55      | 77.7  | 80.3  | 70.0  | 68.4 | 67.1            | 68.4            | 67.6  | 67.0             | 66.7              | 67.5              | 68.6  | 69.3   |
|                                      |           |            |       |       |       |      |                 |                 |       |                  |                   |                   |       |        |

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1. Refer to note on cover page.

Table 8 INDUSTRIAL CAPACITY

Percent change

|  |           |            |            |          |            |            |            |              |            |           |           |              | Monthly |
|--|-----------|------------|------------|----------|------------|------------|------------|--------------|------------|-----------|-----------|--------------|---------|
|  | A         | Average ar | nnual rate |          | Fourth     | quarter to | o fourth o | quarter      |            | Annual    | rate      |              | rate    |
| Item   | 1972-     | 1980-      | 1989-      | 1995-    |            |            |            |              | 2008       | 2009      |           |              | 2009    |
|  | 79        | 88         | 94         | 2009     | 2006       | 2007       | 2008       | 2009         | Q4         | Q1        | Q2        | Q3           | Sept.   |
| Total industry   | 3.1       | 1.9        | 2.3        | 2.7      | 1.5        | 2.0        | 1.1        | 9            | .4         | 2         | 8         | -1.3         | 1       |
| Manufacturing <sup>1</sup>   | 3.3       | 2.2        | 2.5        | 3.1      | 1.4        | 2.2        | 1.3        | -1.2         | .4         | 4         | -1.1      | -1.5         | 1       |
| Mining<br>Utilities  | .7<br>4.2 | .0<br>2.2  | 8<br>1.8   | 3<br>2.2 | 2.3<br>1.3 | 1.4<br>1.3 | 1.1<br>2.3 | 7<br>1.8     | 1.0<br>1.9 | .3<br>1.8 | 5<br>1.7  | -1.3<br>1.8  | 1<br>.2 |
| Selected high-technology industries                                | 19.8      | 17.3       | 15.6       | 22.3     | 5.7        | 22.9       | 6.3        | 8.4          | 3.6        | 5.8       | 8.4       | 9.8          | .8      |
| Manufacturing <sup>1</sup> ex. selected high-technology industries | 2.6       | 1.3        | 1.6        | 1.4      | 1.1        | 1.0        | 1.0        | -1.6         | .2         | 7         | -1.6      | -2.1         | 2       |
| STAGE-OF-PROCESS GROUPS<br>Crude<br>Primary and semifinished       | 1.7       | .3<br>1.4  | 4<br>2.5   | .0 3.2   | 1.5<br>1.3 | 1.4<br>2.0 | 1.2        | -1.2<br>-1.0 | .7         | 2<br>5    | -1.1<br>9 | -1.8<br>-1.2 | 2<br>1  |
| Finished   | 3.9       | 3.3        | 2.7        | 3.0      | 1.8        | 2.4        | 2.2        | 6            | 1.2        | .2        | 5         | -1.0         | 1       |

<sup>1.</sup> Refer to note on cover page.

Table 9
GROSS VALUE OF FINAL PRODUCTS AND NONINDUSTRIAL SUPPLIES
Billions of 2000 dollars at annual rate, seasonally adjusted

| •                                |         |         | 2009    |                 |                 | 2009    |                  |                   |                   |         |        |
|----------------------------------|---------|---------|---------|-----------------|-----------------|---------|------------------|-------------------|-------------------|---------|--------|
| Item                             | 2000    | 2008    | Q1      | Q2 <sup>r</sup> | Q3 <sup>p</sup> | Apr.r   | May <sup>r</sup> | June <sup>r</sup> | July <sup>r</sup> | Aug.r   | Sept.  |
| Final products and nonindustrial |         |         |         |                 |                 |         |                  |                   |                   |         |        |
| supplies                         | 2,815.3 | 2,946.7 | 2,717.3 | 2,650.6         | 2,691.2         | 2,678.5 | 2,640.9          | 2,632.3           | 2,659.4           | 2,691.8 | 2,722. |
| Final products                   | 2,106.9 | 2,238.6 | 2,085.3 | 2,032.0         | 2,072.2         | 2,056.9 | 2,024.4          | 2,014.5           | 2,041.0           | 2,071.0 | 2,104. |
| Consumer goods                   | 1,475.5 | 1,559.7 | 1,472.6 | 1,452.9         | 1,483.5         | 1,469.5 | 1,449.2          | 1,439.9           | 1,458.7           | 1,481.5 | 1,510. |
| Durable                          | 472.7   | 445.6   | 341.3   | 338.9           | 378.0           | 349.3   | 336.8            | 330.5             | 362.8             | 376.3   | 394.   |
| Automotive products              | 278.7   | 258.1   | 178.0   | 181.4           | 221.9           | 189.7   | 179.7            | 174.8             | 205.3             | 220.9   | 239.   |
| Other durable goods              | 194.0   | 187.5   | 162.9   | 157.2           | 156.4           | 159.3   | 156.8            | 155.4             | 157.5             | 155.7   | 155.   |
| Nondurable                       | 1,002.9 | 1,097.3 | 1,092.5 | 1,076.5         | 1,072.8         | 1,083.6 | 1,074.6          | 1,071.2           | 1,062.2           | 1,072.3 | 1,083. |
| Equipment, total                 | 631.4   | 689.7   | 616.1   | 577.6           | 586.9           | 586.2   | 573.4            | 573.2             | 580.8             | 587.9   | 591.   |
| Business and defense             | 615.0   | 671.4   | 605.9   | 573.2           | 583.0           | 581.3   | 568.9            | 569.5             | 577.0             | 584.4   | 587.   |
| Business                         | 560.4   | 599.1   | 532.0   | 497.7           | 504.5           | 506.5   | 493.1            | 493.5             | 499.5             | 505.9   | 508.   |
| Defense and space                | 54.5    | 72.5    | 71.9    | 72.1            | 74.5            | 71.8    | 72.1             | 72.3              | 73.6              | 74.5    | 75.    |
| Nonindustrial supplies           | 708.4   | 709.6   | 635.5   | 621.8           | 623.4           | 625.2   | 619.6            | 620.5             | 621.9             | 625.0   | 623.   |
| Construction supplies            | 211.8   | 202.9   | 169.4   | 165.1           | 166.9           | 164.8   | 165.2            | 165.4             | 166.6             | 167.3   | 167.   |
| Business supplies                | 496.5   | 507.3   | 467.7   | 458.3           | 457.9           | 462.2   | 455.9            | 456.6             | 456.7             | 459.2   | 457.   |
| Commercial energy products       | 135.7   | 156.7   | 154.7   | 151.3           | 151.2           | 154.2   | 149.7            | 150.0             | 150.6             | 151.6   | 151.   |

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Table 10 GROSS-VALUE-WEIGHTED INDUSTRIAL PRODUCTION: STAGE-OF-PROCESS GROUPS

|              | Fou                      | rth quarte     | er to |      |             |          |                 |       |                  |                   |                   |       |        |           |
|--------------|--------------------------|----------------|-------|------|-------------|----------|-----------------|-------|------------------|-------------------|-------------------|-------|--------|-----------|
|              |                          | fourth quarter |       |      | Annual rate |          |                 |       |                  | Sept. '08         |                   |       |        |           |
| Item         | 2008                     |                |       |      | 2009        |          |                 | 2009  |                  |                   |                   |       |        | to        |
|              | gross value <sup>1</sup> | 2006           | 2007  | 2008 | Q1          | $Q2^{r}$ | Q3 <sup>p</sup> | Apr.r | May <sup>r</sup> | June <sup>r</sup> | July <sup>r</sup> | Aug.r | Sept.p | Sept. '09 |
|              |                          |                |       |      |             |          |                 |       |                  |                   |                   |       |        |           |
| Finished     | 1926.7                   | 2.2            | 1.0   | -7.6 | -20.3       | -9.5     | 12.7            | -1.2  | -1.1             | 8                 | 2.2               | 1.9   | 1.5    | -5.5      |
| Semifinished | 1668.3                   | -1.5           | 2.1   | -7.7 | -26.5       | -14.1    | 1.3             | 3     | -1.5             | -1.1              | .9                | 1.0   | .3     | -13.3     |
| Primary      | 960.3                    | 3              | 2.2   | -7.2 | -16.1       | -8.0     | 4.5             | .1    | -2.0             | 1.2               | .2                | .5    | 1.4    | 8         |
| Crude        | 417.8                    | 7.8            | 2.0   | -7.9 | -10.2       | 4.9      | 10.6            | 1.1   | .8               | .2                | .9                | 1.3   | 1.0    | 7.9       |

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<sup>1.</sup> Billions of 2000 dollars.

Table 11 HISTORICAL STATISTICS FOR INDUSTRIAL PRODUCTION, CAPACITY, AND UTILIZATION: Total Industry

| 2008 1<br>2009 1<br>Capacity<br>(percent of   | 3<br>.0<br>.2<br>5<br>5<br>6<br>.5<br>.4<br>.3<br>7<br>.1<br>.5<br>.5<br>.0<br>7<br>.5<br>.7<br>.3<br>.4<br>.0<br>5<br>5       | 1.3<br>.4<br>.4<br>.9<br>6<br>.8<br>.3<br>.0<br>.0<br>1.7<br>1.2<br>.0<br>.4<br>.4<br>6<br>.0<br>.3<br>.5<br>.6<br>.0 | .1<br>.2<br>.3<br>.5<br>5<br>.8<br>.0<br>1.1<br>.2<br>2<br>.8<br>.1<br>.2<br>.4<br>3<br>.8<br>1<br>6<br>1<br>.2                    | .6<br>.5<br>.0<br>-1<br>.2<br>.7<br>.3<br>.5<br>.0<br>.8<br>.0<br>.4<br>.2<br>.6<br>.3<br>.3<br>.5<br>.0<br>.4<br>.2<br>.4<br>.2<br>.4<br>.6<br>.6<br>.6<br>.7<br>.7<br>.7<br>.7<br>.7<br>.7<br>.7<br>.7<br>.7<br>.7<br>.7<br>.7<br>.7 | .717 .2 1.0 .44 .6 .2 .6 .7 .7 .7 .27 .5 .0 .7 .31                            | .5<br>.2<br>.0<br>.3<br>1.0<br>.0<br>.2<br>.7<br>.3<br>.9<br>.5<br>6<br>2<br>.1<br>6 | .6<br>.2<br>9<br>1<br>.0<br>.8<br>.4<br>.2<br>4<br>1<br>.5<br>4<br>.6<br>2<br>4 | .7<br>.5<br>.9<br>.2<br>.1<br>5<br>.0<br>.5<br>1.4<br>.6<br>1.4<br>2.1<br>.5<br>2<br>4 | .3<br>3<br>3<br>.2<br>.9<br>.2<br>.4<br>.2<br>.4<br>.6<br>.9<br>3<br>3<br>.5<br>3 | 1.5<br>.5<br>1<br>7<br>2<br>.7<br>.7<br>.9<br>2<br>.0<br>.7<br>.7<br>.7<br>1.4<br>4<br>6 | .5<br>.2<br>.3<br>-1.2<br>1<br>.4<br>.6<br>.3<br>.8<br>.9<br>1<br>.6<br>.0<br>5 | .5<br>.4<br>.6<br>7<br>4<br>.0<br>.5<br>1.1<br>.4<br>.6<br>.4<br>.3<br>.8<br>4<br>.0 | 5.5<br>3.6<br>1.6<br>3.1<br>-7.4<br>5<br>3.6<br>5.2<br>5.1<br>2.9<br>7.9<br>4.4<br>4.8<br>-5.7<br>2.5<br>2.9 | 7.0<br>3.6<br>-1.7<br>2.8<br>2.6<br>7.2<br>.9<br>7.5<br>1.2<br>8.1<br>6.4<br>3.2<br>3.7<br>4.9<br>-5.3 | 7.3 2.1 -2.4 1.2 5.5 2.9 2.1 5.1 3.9 5.4 9.6 2.9 4.13 -5.7 2.1 2.6                             | 10.2<br>2.9<br>1.8<br>-6.1<br>.9<br>4.0<br>6.0<br>8.1<br>3.4<br>5.6<br>10.4<br>5.1<br>8.1<br>-1.2<br>-5.0 | 5.2<br>5.2<br>.9<br>1.0<br>-1.6<br>2.8<br>3.3<br>5.3<br>4.8<br>4.4<br>7.3<br>5.9<br>4.3<br>4.2<br>-3.4 |
|---|--|---|--|--|---|--|---|--|---|--|---|--|--|--|--|---|--|
| change)1 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 IP (2002=100) 2009 1 Capacity (percent of | .0<br>.2<br>5<br>5<br>6<br>.5<br>.4<br>.3<br>7<br>.1<br>.5<br>.5<br>.5<br>.0<br>7<br>.5<br>.7<br>.3<br>.4<br>.0<br>5<br>7      | .4<br>4<br>.9<br>6<br>.8<br>.3<br>.0<br>.0<br>1.7<br>1.2<br>.0<br>.4<br>.4<br>6                                       | .2<br>.3<br>.5<br>5<br>.8<br>.0<br>1.1<br>.2<br>2<br>.8<br>.1<br>.2<br>.4<br>3<br>.8<br>1<br>6<br>1<br>.2                          | .5<br>.0<br>-1<br>.2<br>.7<br>.3<br>.5<br>.0<br>.8<br>.0<br>.4<br>.2<br>.6<br>.3<br>.3<br>.5<br>.0<br>.4<br>.2<br>.6<br>.3<br>.5<br>.0<br>.4<br>.2<br>.6<br>.6<br>.6<br>.6<br>.6<br>.6<br>.6<br>.6<br>.6<br>.6<br>.6<br>.6<br>.6       | 1<br>7<br>.2<br>1.0<br>.4<br>4<br>.6<br>.2<br>.6<br>.7<br>.7<br>.7<br>.2<br>7 | .2<br>.0<br>.3<br>1.0<br>.0<br>.2<br>.7<br>.3<br>.9<br>.5<br>6<br>2<br>.1<br>6       | .2<br>9<br>1<br>.0<br>.8<br>.4<br>.2<br>4<br>1<br>.5<br>4<br>.6<br>2<br>4       | .5<br>.9<br>.2<br>.1<br>5<br>.0<br>.5<br>1.4<br>.6<br>1.4<br>2.1<br>.5<br>2<br>4       | 3329242469333333  | .5<br>1<br>7<br>2<br>.7<br>.7<br>.9<br>2<br>.0<br>.7<br>.7<br>.1.4<br>4<br>6             | .2<br>.3<br>-1.2<br>1<br>.4<br>.4<br>.6<br>.3<br>.8<br>.9<br>1<br>.6<br>.0<br>5 | .4<br>.6<br>7<br>4<br>.0<br>.5<br>1.1<br>.4<br>.6<br>.4<br>.3<br>.8<br>4<br>.0       | 3.6<br>1.6<br>3.1<br>-7.4<br>5<br>3.6<br>5.2<br>5.1<br>2.9<br>7.9<br>4.4<br>4.8<br>-5.7                      | 3.6<br>-1.7<br>2.8<br>2.6<br>7.2<br>.9<br>7.5<br>1.2<br>8.1<br>6.4<br>3.2<br>3.7<br>4.9<br>-5.3        | 2.1<br>-2.4<br>1.2<br>5.5<br>2.9<br>2.1<br>5.1<br>3.9<br>5.4<br>9.6<br>2.9<br>4.1<br>3<br>-5.7 | 2.9<br>1.8<br>-6.1<br>.9<br>4.0<br>6.0<br>8.1<br>3.4<br>5.6<br>10.4<br>5.1<br>8.1<br>-1.2<br>-5.0         | 5.2<br>.9<br>1.0<br>-1.6<br>2.8<br>3.3<br>5.3<br>4.8<br>4.4<br>7.3<br>5.9<br>4.3<br>4.2<br>-3.4        |
| 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009  IP (2002=100) 2009 1 Capacity (percent of         | .0<br>.2<br>5<br>5<br>6<br>.5<br>.4<br>.3<br>7<br>.1<br>.5<br>.5<br>.5<br>.0<br>7<br>.5<br>.7<br>.3<br>.4<br>.0<br>5<br>7      | .4<br>4<br>.9<br>6<br>.8<br>.3<br>.0<br>.0<br>1.7<br>1.2<br>.0<br>.4<br>.4<br>6                                       | .2<br>.3<br>.5<br>5<br>.8<br>.0<br>1.1<br>.2<br>2<br>.8<br>.1<br>.2<br>.4<br>3<br>.8<br>1<br>6<br>1<br>.2                          | .5<br>.0<br>-1<br>.2<br>.7<br>.3<br>.5<br>.0<br>.8<br>.0<br>.4<br>.2<br>.6<br>.3<br>.3<br>.5<br>.0<br>.4<br>.2<br>.6<br>.3<br>.5<br>.0<br>.4<br>.2<br>.6<br>.6<br>.6<br>.6<br>.6<br>.6<br>.6<br>.6<br>.6<br>.6<br>.6<br>.6<br>.6       | 1<br>7<br>.2<br>1.0<br>.4<br>4<br>.6<br>.2<br>.6<br>.7<br>.7<br>.7<br>.2<br>7 | .2<br>.0<br>.3<br>1.0<br>.0<br>.2<br>.7<br>.3<br>.9<br>.5<br>6<br>2<br>.1<br>6       | .2<br>9<br>1<br>.0<br>.8<br>.4<br>.2<br>4<br>1<br>.5<br>4<br>.6<br>2<br>4       | .5<br>.9<br>.2<br>.1<br>5<br>.0<br>.5<br>1.4<br>.6<br>1.4<br>2.1<br>.5<br>2<br>4       | 3329242469333333  | .5<br>1<br>7<br>2<br>.7<br>.7<br>.9<br>2<br>.0<br>.7<br>.7<br>.1.4<br>4<br>6             | .2<br>.3<br>-1.2<br>1<br>.4<br>.4<br>.6<br>.3<br>.8<br>.9<br>1<br>.6<br>.0<br>5 | .4<br>.6<br>7<br>4<br>.0<br>.5<br>1.1<br>.4<br>.6<br>.4<br>.3<br>.8<br>4<br>.0       | 3.6<br>1.6<br>3.1<br>-7.4<br>5<br>3.6<br>5.2<br>5.1<br>2.9<br>7.9<br>4.4<br>4.8<br>-5.7                      | 3.6<br>-1.7<br>2.8<br>2.6<br>7.2<br>.9<br>7.5<br>1.2<br>8.1<br>6.4<br>3.2<br>3.7<br>4.9<br>-5.3        | 2.1<br>-2.4<br>1.2<br>5.5<br>2.9<br>2.1<br>5.1<br>3.9<br>5.4<br>9.6<br>2.9<br>4.1<br>3<br>-5.7 | 2.9<br>1.8<br>-6.1<br>.9<br>4.0<br>6.0<br>8.1<br>3.4<br>5.6<br>10.4<br>5.1<br>8.1<br>-1.2<br>-5.0         | 5.2<br>.9<br>1.0<br>-1.6<br>2.8<br>3.3<br>5.3<br>4.8<br>4.4<br>7.3<br>5.9<br>4.3<br>4.2<br>-3.4        |
| 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 IP (2002=100) 2008 1 2009 1 Capacity (percent of             | .2<br>5<br>5<br>6<br>.5<br>.4<br>.3<br>7<br>.1<br>.5<br>.5<br>.0<br>7<br>.5<br>.7<br>.3<br>.4<br>.0<br>5<br>5<br>.7<br>.3<br>7 | 4<br>.9<br>6<br>.8<br>.3<br>.0<br>.0<br>.1.7<br>1.2<br>.0<br>.4<br>.4<br>6  | .3<br>.5<br>5<br>.8<br>.0<br>1.1<br>.2<br>.2<br>.4<br>3<br>.8<br>.1<br>.2<br>.4<br>3<br>.8<br>.1<br>.2<br>.4<br>1<br>.6<br>1<br>.2 | .0<br>1<br>.2<br>.7<br>.3<br>.5<br>.0<br>.8<br>.0<br>.4<br>.2<br>.6<br>3<br>.3<br>8<br>.5<br>.0  | 7 .2 1.0 .4 .4 .6 .2 .6 .7 .7 .7 .27 .2 .7 .2 .7 .3                           | .0<br>.3<br>1.0<br>.0<br>.2<br>.7<br>.3<br>.9<br>.5<br>6<br>2<br>.1<br>6             | 91 .0 .8 .4 .241 .54 .6243 .4 .7  | .9<br>.2<br>.1<br>5<br>.0<br>.5<br>1.4<br>.6<br>1.4<br>2.1<br>.5<br>2<br>4             | 3<br>.2<br>.9<br>.2<br>.4<br>.2<br>.4<br>.6<br>.9<br>3<br>.5<br>3                 | 1<br>7<br>2<br>.7<br>.7<br>.9<br>2<br>.0<br>.7<br>.7<br>.1.4<br>4<br>6                   | .3<br>-1.2<br>1<br>.4<br>.4<br>.6<br>.3<br>.8<br>.9<br>1<br>.6<br>.0<br>5       | .6<br>7<br>4<br>.0<br>.5<br>1.1<br>.4<br>.6<br>.4<br>.3<br>.8<br>4<br>.0             | 1.6<br>3.1<br>-7.4<br>5<br>3.6<br>5.2<br>5.1<br>2.9<br>7.9<br>4.4<br>4.4<br>4.8<br>-5.7                      | -1.7<br>2.8<br>2.6<br>7.2<br>.9<br>7.5<br>1.2<br>8.1<br>6.4<br>3.2<br>3.7<br>4.9<br>-5.3               | -2.4<br>1.2<br>5.5<br>2.9<br>2.1<br>5.1<br>3.9<br>5.4<br>9.6<br>2.9<br>4.1<br>-3<br>-5.7       | 1.8<br>-6.1<br>.9<br>4.0<br>6.0<br>8.1<br>3.4<br>5.6<br>10.4<br>5.1<br>8.1<br>-1.2<br>-5.0                | .9<br>1.0<br>-1.6<br>2.8<br>3.3<br>5.3<br>4.8<br>4.4<br>7.3<br>5.9<br>4.3<br>4.2<br>-3.4               |
| 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 IP (2002=100) 2007 2008 2009  Capacity (percent of                | 5<br>5<br>6<br>.5<br>.4<br>.3<br>7<br>.1<br>.5<br>.5<br>.0<br>7<br>.5<br>.7<br>.3<br>.4<br>.0<br>5<br>1<br>2<br>2              | .96 .8 .3 .0 .0 1.7 1.2 .0 .4 .46 .0 .3 .5 .6 .0 .8   | .5<br>5<br>.8<br>.0<br>1.1<br>.2<br>2<br>.8<br>.1<br>.2<br>.4<br>3<br>.8<br>1<br>6<br>1<br>.2                                      | 1<br>.2<br>.7<br>.3<br>.5<br>.0<br>.8<br>.0<br>.4<br>.2<br>.6<br>.3<br>.3<br>.8<br>.5<br>.0  | .2<br>1.0<br>.4<br>4<br>.6<br>.2<br>.6<br>.7<br>.7<br>.7<br>.2<br>7           | .3 1.0 .0 .2 .7 .3 .9 .562 .16   | 1<br>.0<br>.8<br>.4<br>.2<br>4<br>1<br>.5<br>4<br>.6<br>2<br>4                  | .2<br>.1<br>5<br>.0<br>.5<br>1.4<br>.6<br>1.4<br>2.1<br>.5<br>2<br>4                   | .2<br>.9<br>.2<br>.4<br>.2<br>.4<br>.6<br>.9<br>.3<br>.3<br>.5<br>.3              | 7<br>2<br>.7<br>.7<br>.9<br>2<br>.0<br>.7<br>.7<br>.7<br>.1.4<br>6                       | -1.2<br>1<br>.4<br>.6<br>.3<br>.8<br>.9<br>1<br>.6<br>.0<br>5                   | 7<br>4<br>.0<br>.5<br>1.1<br>.4<br>.6<br>.4<br>.3<br>.8<br>4<br>.0                   | 3.1<br>-7.4<br>5<br>3.6<br>5.2<br>5.1<br>2.9<br>7.9<br>4.4<br>4.4<br>4.8<br>-5.7                             | 2.8<br>2.6<br>7.2<br>.9<br>7.5<br>1.2<br>8.1<br>6.4<br>3.2<br>3.7<br>4.9<br>-5.3                       | 1.2<br>5.5<br>2.9<br>2.1<br>5.1<br>3.9<br>5.4<br>9.6<br>2.9<br>4.1<br>3<br>-5.7                | -6.1<br>.9<br>4.0<br>6.0<br>8.1<br>3.4<br>5.6<br>10.4<br>5.1<br>8.1<br>-1.2<br>-5.0                       | 1.0<br>-1.6<br>2.8<br>3.3<br>5.3<br>4.8<br>4.4<br>7.3<br>5.9<br>4.3<br>4.2<br>-3.4                     |
| 1991  1992  1993  1994  1995  1996  1997  1998  1999  2000  2001  2002  2003  2004  2005  2006  2007  2008  2009  IP (2002=100)  2009  Capacity (percent of           | 56 .5 .4 .37 .1 .5 .5 .07 .5 .7 .3 .4 .051 -2.2  | 6 .8 .3 .0 .0 .1.7 .1.2 .0 .4 .46 .0 .3 .5 .6 .0 .8   | 5 .8 .0 1.1 .22 .8 .1 .2 .43 .8161 .24   | .2<br>.7<br>.3<br>.5<br>.0<br>.8<br>.0<br>.4<br>.2<br>.6<br>.3<br>.3<br>8<br>.5<br>.0<br>.4  | 1.0  .4 4  .6  .2  .6  .7  .7  .7  .2 7  .5  .0  .7  .3                       | 1.0 .0 .2 .7 .3 .9 .562 .16  | .0<br>.8<br>.4<br>.2<br>4<br>1<br>.5<br>4<br>.6<br>2<br>4                       | .1<br>5<br>.0<br>.5<br>1.4<br>.6<br>1.4<br>2.1<br>.5<br>2<br>4                         | .9<br>.2<br>.4<br>.2<br>.4<br>.6<br>.9<br>3<br>3<br>.5<br>3                       | 2<br>.7<br>.7<br>.9<br>2<br>.0<br>.7<br>.7<br>.7<br>.7<br>.4<br>4<br>6                   | 1<br>.4<br>.4<br>.6<br>.3<br>.8<br>.9<br>1<br>.6<br>.0<br>5                     | 4<br>.0<br>.5<br>1.1<br>.4<br>.6<br>.4<br>.3<br>.8<br>4<br>.0                        | -7.4<br>5<br>3.6<br>5.2<br>5.1<br>2.9<br>7.9<br>4.4<br>4.4<br>4.8<br>-5.7                                    | 2.6 7.2 .9 7.5 1.2 8.1 6.4 3.2 3.7 4.9 -5.3  | 5.5<br>2.9<br>2.1<br>5.1<br>3.9<br>5.4<br>9.6<br>2.9<br>4.1<br>3<br>-5.7                       | .9 4.0 6.0 8.1 3.4 5.6 10.4 5.1 8.1 -1.2 -5.0   | 7.3<br>5.9<br>4.8<br>4.2<br>-3.4   |
| 1992 1993 1994 1994 1995 1996  1997 1998 1999 2000 2001  2002 2003 2004 2005 2006  2007 2008 2009  IP (2002=100) 2008 2009  Capacity (percent of                      | 6 .5 .4 .37 .1 .5 .5 .07 .5 .7 .3 .4 .051 -2.2   | .8<br>.3<br>.0<br>.0<br>.1.7<br>1.2<br>.0<br>.4<br>.4<br>6<br>.0<br>.3<br>.5<br>.6<br>.0                              | .8 .0 1.1 .22 .8 .1 .2 .43 .8161 .224  | .7<br>.3<br>.5<br>.0<br>.8<br>.0<br>.4<br>.2<br>.6<br>.3<br>.3<br>.8<br>.5<br>.0   | .4<br>4<br>.6<br>.2<br>.6<br>.7<br>.7<br>.7<br>.7<br>.2<br>7                  | .0<br>.2<br>.7<br>.3<br>.9<br>.5<br>6<br>2<br>.1<br>6                                | .8<br>.4<br>.2<br>4<br>1<br>.5<br>4<br>.6<br>2<br>4                             | 5<br>.0<br>.5<br>1.4<br>.6<br>1.4<br>2.1<br>.5<br>2<br>4                               | .2<br>.4<br>.2<br>.4<br>.6<br>.9<br>3<br>3<br>.5<br>3                             | .7<br>.7<br>.9<br>2<br>.0<br>.7<br>.7<br>.1.4<br>4<br>6                                  | .4<br>.4<br>.6<br>.3<br>.8<br>.9<br>1<br>.6<br>.0<br>5                          | .0<br>.5<br>1.1<br>.4<br>.6<br>.4<br>.3<br>.8<br>4<br>.0                             | 5<br>3.6<br>5.2<br>5.1<br>2.9<br>7.9<br>4.4<br>4.4<br>4.8<br>-5.7  | 7.2<br>.9<br>7.5<br>1.2<br>8.1<br>6.4<br>3.2<br>3.7<br>4.9<br>-5.3                                     | 2.9<br>2.1<br>5.1<br>3.9<br>5.4<br>9.6<br>2.9<br>4.1<br>3<br>-5.7                              | 4.0<br>6.0<br>8.1<br>3.4<br>5.6<br>10.4<br>5.1<br>8.1<br>-1.2<br>-5.0                                     | 2.8<br>3.3<br>5.3<br>4.8<br>4.4<br>7.3<br>5.9<br>4.3<br>4.2<br>-3.4                                    |
| 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 IP (2002=100) 2008 1 2009 1 Capacity (percent of                                 | .5<br>.4<br>.3<br>.7<br>.1<br>.5<br>.5<br>.5<br>.0<br>7<br>.5<br>.7<br>.3<br>.4<br>.0<br>5<br>5                                | .3<br>.0<br>.0<br>1.7<br>1.2<br>.0<br>.4<br>.4<br>6   | .0<br>1.1<br>.2<br>2<br>.8<br>.1<br>.2<br>.4<br>3<br>.8<br>1<br>6<br>1<br>.2   | .3<br>.5<br>.0<br>.8<br>.0<br>.4<br>.2<br>.6<br>3<br>.3<br>8<br>.5<br>.0   | 4<br>.6<br>.2<br>.6<br>.7<br>.7<br>.7<br>.2<br>7                              | .2<br>.7<br>.3<br>.9<br>.5<br>6<br>2<br>.1<br>6                                      | .4<br>.2<br>4<br>1<br>.5<br>4<br>.6<br>2<br>4                                   | .0<br>.5<br>1.4<br>.6<br>1.4<br>2.1<br>.5<br>2<br>4                                    | .4<br>.2<br>.4<br>.6<br>.9<br>3<br>3<br>.5<br>3                                   | .7<br>.9<br>2<br>.0<br>.7<br>.7<br>.7<br>1.4<br>4<br>6                                   | .4<br>.6<br>.3<br>.8<br>.9<br>1<br>.6<br>.0<br>5                                | .5<br>1.1<br>.4<br>.6<br>.4<br>.3<br>.8<br>4<br>.0                                   | 3.6<br>5.2<br>5.1<br>2.9<br>7.9<br>4.4<br>4.4<br>4.8<br>-5.7   | .9<br>7.5<br>1.2<br>8.1<br>6.4<br>3.2<br>3.7<br>4.9<br>-5.3  | 2.1<br>5.1<br>3.9<br>5.4<br>9.6<br>2.9<br>4.1<br>-3<br>-5.7                                    | 6.0<br>8.1<br>3.4<br>5.6<br>10.4<br>5.1<br>8.1<br>-1.2<br>-5.0  | 3.3<br>5.3<br>4.8<br>4.4<br>7.3<br>5.9<br>4.3<br>4.2<br>-3.4   |
| 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 IP (2002=100) 2009 Capacity (percent of  | .5<br>.4<br>.3<br>.7<br>.1<br>.5<br>.5<br>.5<br>.0<br>7<br>.5<br>.7<br>.3<br>.4<br>.0<br>5<br>5                                | .3<br>.0<br>.0<br>1.7<br>1.2<br>.0<br>.4<br>.4<br>6   | .0<br>1.1<br>.2<br>2<br>.8<br>.1<br>.2<br>.4<br>3<br>.8<br>1<br>6<br>1<br>.2   | .3<br>.5<br>.0<br>.8<br>.0<br>.4<br>.2<br>.6<br>3<br>.3<br>8<br>.5<br>.0   | 4<br>.6<br>.2<br>.6<br>.7<br>.7<br>.7<br>.2<br>7                              | .2<br>.7<br>.3<br>.9<br>.5<br>6<br>2<br>.1<br>6                                      | .4<br>.2<br>4<br>1<br>.5<br>4<br>.6<br>2<br>4                                   | .0<br>.5<br>1.4<br>.6<br>1.4<br>2.1<br>.5<br>2<br>4                                    | .4<br>.2<br>.4<br>.6<br>.9<br>3<br>3<br>.5<br>3                                   | .7<br>.9<br>2<br>.0<br>.7<br>.7<br>.7<br>1.4<br>4<br>6                                   | .4<br>.6<br>.3<br>.8<br>.9<br>1<br>.6<br>.0<br>5                                | .5<br>1.1<br>.4<br>.6<br>.4<br>.3<br>.8<br>4<br>.0                                   | 3.6<br>5.2<br>5.1<br>2.9<br>7.9<br>4.4<br>4.4<br>4.8<br>-5.7   | .9<br>7.5<br>1.2<br>8.1<br>6.4<br>3.2<br>3.7<br>4.9<br>-5.3  | 2.1<br>5.1<br>3.9<br>5.4<br>9.6<br>2.9<br>4.1<br>-3<br>-5.7                                    | 6.0<br>8.1<br>3.4<br>5.6<br>10.4<br>5.1<br>8.1<br>-1.2<br>-5.0  | 3.3<br>5.3<br>4.8<br>4.4<br>7.3<br>5.9<br>4.3<br>4.2<br>-3.4   |
| 1995 1996  1997 1998 1999 2000 2001  2002 2003 2004 2005 2006  2007 2008 2009  IP (2002=100) 2007 1 2008 2009  Capacity (percent of                                   | .3<br>7<br>.1<br>.5<br>.5<br>.0<br>7<br>.5<br>.7<br>.3<br>.4<br>.0<br>5<br>1<br>-2.2   | .0<br>1.7<br>1.2<br>.0<br>.4<br>.4<br>6<br>.0<br>.3<br>.5<br>.6<br>.0   | .2<br>2<br>.8<br>.1<br>.2<br>.4<br>3<br>.8<br>1<br>6<br>1<br>.2  | .0<br>.8<br>.0<br>.4<br>.2<br>.6<br>3<br>.3<br>.8<br>.5<br>.0<br>.4  | .2<br>.6<br>.7<br>.7<br>.7<br>.7<br>.2<br>7<br>.5<br>.0<br>.7<br>.3           | .3<br>.9<br>.5<br>6<br>2<br>.1<br>6  | 4<br>1<br>.5<br>4<br>.6<br>2<br>4<br>3<br>.4                                    | 1.4<br>.6<br>1.4<br>2.1<br>.5<br>2<br>4  | .4<br>.6<br>.9<br>3<br>3<br>.5<br>3   | 2<br>.0<br>.7<br>.7<br>.7<br>1.4<br>4<br>6   | .3<br>.8<br>.9<br>1<br>.6<br>.0<br>5  | .4<br>.6<br>.4<br>.3<br>.8<br>4<br>.0  | 5.1<br>2.9<br>7.9<br>4.4<br>4.4<br>4.8<br>-5.7   | 1.2<br>8.1<br>6.4<br>3.2<br>3.7<br>4.9<br>-5.3   | 3.9<br>5.4<br>9.6<br>2.9<br>4.1<br>3<br>-5.7   | 3.4<br>5.6<br>10.4<br>5.1<br>8.1<br>-1.2<br>-5.0<br>4<br>4.1  | 4.8<br>4.4<br>7.3<br>5.9<br>4.3<br>4.2<br>-3.4<br>1<br>1.3   |
| 1996  1997 1998 1999 2000 2001  2002 2003 2004 2005 2006  2007 2008 2009  IP (2002=100) 2007 2008 2009  Capacity (percent of  | 7 .1 .5 .5 .07 .5 .7 .3 .4 .051 -2.2   | 1.7 1.2 .0 .4 .46 .0 .3 .5 .6 .0 .83  | 2 .8 .1 .2 .43 .8161 .22   | .8<br>.0<br>.4<br>.2<br>.6<br>3<br>.3<br>8<br>.5<br>.0<br>.4   | .6 .7 .7 .7 .7 .27 .5 .0 .7 .3  | .9 .562 .16 .9 .19   | 1<br>.5<br>4<br>.6<br>2<br>4<br>3<br>.4   | .6 1.4 2.1 .524 .11  | .6<br>.9<br>3<br>3<br>.5<br>3   | .0<br>.7<br>.7<br>1.4<br>4<br>6  | .8<br>.9<br>1<br>.6<br>.0<br>5  | .6<br>.4<br>.3<br>.8<br>4<br>.0  | 2.9<br>7.9<br>4.4<br>4.4<br>4.8<br>-5.7  | 8.1<br>6.4<br>3.2<br>3.7<br>4.9<br>-5.3  | 5.4<br>9.6<br>2.9<br>4.1<br>3<br>-5.7<br>2.1<br>2.6  | 5.6<br>10.4<br>5.1<br>8.1<br>-1.2<br>-5.0<br>4<br>4.1   | 4.4<br>7.3<br>5.9<br>4.3<br>4.2<br>-3.4<br>1<br>1.3  |
| 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006  2007 2008 2009  IP (2002=100) 2008 2009  Capacity (percent of  | .1<br>.5<br>.5<br>.0<br>7<br>.5<br>.7<br>.3<br>.4<br>.0<br>5<br>1<br>-2.2  | 1.2<br>.0<br>.4<br>.4<br>6<br>.0<br>.3<br>.5<br>.6<br>.0  | .8<br>.1<br>.2<br>.4<br>3<br>.8<br>1<br>6<br>1<br>.2   | .0<br>.4<br>.2<br>.6<br>3<br>.3<br>8<br>.5<br>.0<br>.4   | .7<br>.7<br>.7<br>.2<br>7<br>.5<br>.0<br>.7                                   | .5<br>6<br>2<br>.1<br>6<br>.9<br>.1<br>9   | .5<br>4<br>.6<br>2<br>4<br>3<br>.4  | 1.4<br>2.1<br>.5<br>2<br>4   | .9<br>3<br>3<br>.5<br>3   | .7<br>.7<br>1.4<br>4<br>6  | .9<br>1<br>.6<br>.0<br>5  | .4<br>.3<br>.8<br>4<br>.0  | 7.9<br>4.4<br>4.4<br>4.8<br>-5.7   | 6.4<br>3.2<br>3.7<br>4.9<br>-5.3   | 9.6<br>2.9<br>4.1<br>3<br>-5.7   | 10.4<br>5.1<br>8.1<br>-1.2<br>-5.0  | 7.3<br>5.9<br>4.3<br>4.2<br>-3.4   |
| 1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009<br>IP (2002=100)<br>2007<br>2008<br>2009<br>1 Capacity<br>(percent of    | .5<br>.5<br>.0<br>7<br>.5<br>.7<br>.3<br>.4<br>.0<br>5<br>1<br>-2.2  | .0<br>.4<br>.4<br>6<br>.0<br>.3<br>.5<br>.6<br>.0   | .1<br>.2<br>.4<br>3<br>.8<br>1<br>6<br>1<br>.2<br>2  | .4<br>.2<br>.6<br>3<br>.3<br>8<br>.5<br>.0<br>.4   | .7<br>.7<br>.2<br>7<br>.5<br>.0<br>.7   | 6<br>2<br>.1<br>6<br>.9<br>.1<br>9   | 4<br>.6<br>2<br>4<br>3<br>.4<br>.7  | 2.1<br>.5<br>2<br>4  | 3<br>3<br>.5<br>3   | .7<br>1.4<br>4<br>6  | 1<br>.6<br>.0<br>5  | .3<br>.8<br>4<br>.0  | 4.4<br>4.4<br>4.8<br>-5.7  | 3.2<br>3.7<br>4.9<br>-5.3  | 2.9<br>4.1<br>3<br>-5.7<br>2.1<br>2.6  | 5.1<br>8.1<br>-1.2<br>-5.0<br>4<br>4.1  | 5.9<br>4.3<br>4.2<br>-3.4<br>1<br>1.3  |
| 1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009<br>IP (2002=100)<br>2007<br>2008<br>2009<br>1 Capacity<br>(percent of    | .5<br>.5<br>.0<br>7<br>.5<br>.7<br>.3<br>.4<br>.0<br>5<br>1<br>-2.2  | .0<br>.4<br>.4<br>6<br>.0<br>.3<br>.5<br>.6<br>.0   | .1<br>.2<br>.4<br>3<br>.8<br>1<br>6<br>1<br>.2<br>2  | .4<br>.2<br>.6<br>3<br>.3<br>8<br>.5<br>.0<br>.4   | .7<br>.7<br>.2<br>7<br>.5<br>.0<br>.7   | 6<br>2<br>.1<br>6<br>.9<br>.1<br>9   | 4<br>.6<br>2<br>4<br>3<br>.4<br>.7  | 2.1<br>.5<br>2<br>4  | 3<br>3<br>.5<br>3   | .7<br>1.4<br>4<br>6  | 1<br>.6<br>.0<br>5  | .3<br>.8<br>4<br>.0  | 4.4<br>4.4<br>4.8<br>-5.7  | 3.2<br>3.7<br>4.9<br>-5.3  | 2.9<br>4.1<br>3<br>-5.7<br>2.1<br>2.6  | 5.1<br>8.1<br>-1.2<br>-5.0<br>4<br>4.1  | 5.9<br>4.3<br>4.2<br>-3.4<br>1<br>1.3  |
| 2000 2001  2002 2003 2004 2005 2006  2007 2008 2009  IP (2002=100) 2007 1 2008 1 2009 1 Capacity (percent of  | .0<br>7<br>.5<br>.7<br>.3<br>.4<br>.0<br>5<br>1<br>-2.2  | .4<br>6<br>.0<br>.3<br>.5<br>.6<br>.0   | .4<br>3<br>.8<br>1<br>6<br>1<br>.2<br>2<br>4   | .6<br>3<br>.3<br>8<br>.5<br>.0<br>.4   | .2<br>7<br>.5<br>.0<br>.7<br>.3   | .1<br>6<br>.9<br>.1<br>9   | 2<br>4<br>3<br>.4<br>.7   | 2<br>4<br>.1<br>1  | .5<br>3   | 4<br>6   | .0<br>5   | 4<br>.0  | 4.8<br>-5.7<br>2.5   | 4.9<br>-5.3<br>5.9   | 3<br>-5.7<br>2.1<br>2.6  | -1.2<br>-5.0<br>4<br>4.1  | 4.2<br>-3.4<br>1<br>1.3  |
| 2001  2002 2003 2004 2005 2006  2007 2008 2009  IP (2002=100) 2007 1 2008 1 2009 1 Capacity (percent of   | 7 .5 .7 .3 .4 .051 -2.2  | 6 .0 .3 .5 .6 .0 .83  | 3  .8 1 6 1  .2 2 4  | 38504  | 7<br>.5<br>.0<br>.7<br>.3   | 6<br>.9<br>.1<br>9   | 4<br>3<br>.4<br>.7  | 4<br>.1<br>1   | 3   | 6<br>3   | 5<br>.4   | .0   | -5.7<br>2.5  | -5.3<br>5.9  | -5.7<br>2.1<br>2.6   | -5.0<br>4<br>4.1  | -3.4<br>1<br>1.3   |
| 2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009<br>IP (2002=100)<br>2007 1<br>2008 1<br>2009 1   | .5<br>.7<br>.3<br>.4<br>.0<br>5<br>1<br>-2.2   | .0<br>.3<br>.5<br>.6<br>.0  | .8<br>1<br>6<br>1<br>.2<br>2<br>4  | .3<br>8<br>.5<br>.0<br>.4  | .5<br>.0<br>.7<br>.3  | .9<br>.1<br>9  | 3<br>.4<br>.7   | .1<br>1  | .1  | 3  | .4  | 5  | 2.5  | 5.9  | 2.1<br>2.6   | 4<br>4.1  | 1<br>1.3   |
| 2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009<br>IP (2002=100)<br>2007<br>2008<br>1<br>2009<br>1<br>Capacity<br>(percent of                                    | .7<br>.3<br>.4<br>.0<br>5<br>1<br>-2.2   | .3<br>.5<br>.6<br>.0  | 1<br>6<br>1<br>.2<br>2<br>4  | 8<br>.5<br>.0<br>.4  | .0<br>.7<br>.3  | .1<br>9<br>.4  | .4<br>.7  | 1  |   |  |   |  |  |  | 2.6  | 4.1   | 1.3  |
| 2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009<br>IP (2002=100)<br>2007<br>1 2008<br>1 2009<br>1 Capacity<br>(percent of  | .7<br>.3<br>.4<br>.0<br>5<br>1<br>-2.2   | .3<br>.5<br>.6<br>.0  | 1<br>6<br>1<br>.2<br>2<br>4  | 8<br>.5<br>.0<br>.4  | .0<br>.7<br>.3  | .1<br>9<br>.4  | .4<br>.7  | 1  |   |  |   |  |  |  | 2.6  | 4.1   | 1.3  |
| 2004<br>2005<br>2006<br>2007<br>2008<br>2009<br>IP (2002=100)<br>2007<br>2008<br>1<br>2009<br>1<br>Capacity<br>(percent of  | .3<br>.4<br>.0<br>5<br>1<br>-2.2   | .5<br>.6<br>.0<br>.8<br>3   | 6<br>1<br>.2<br>2<br>4   | .5<br>.0<br>.4   | .7<br>.3  | 9<br>.4  | .7  |  |   | . 1  | .7  | 1  |  |  |  |   |  |
| 2006 2007 2008 2009 IP (2002=100) 2007 1 2008 1 2009 1 Capacity (percent of   | .0<br>5<br>1<br>-2.2   | .0<br>.8<br>3   | .2<br>2<br>4   | .4<br>.4   |   |  |   | .2   | .0  | .9   | .2  | .7   | 2.8  | 1.8  | 1.9  |   |  |
| 2007<br>2008<br>2009<br>IP (2002=100)<br>2007 1<br>2008 1<br>2009 1<br>Capacity<br>(percent of  | 5<br>1<br>-2.2   | .8  | 2<br>4   | .4   | 1   |  | 1   | .2   | -1.7  | 1.1  | 1.1   | .6   | 5.7  | 1.7  | 7  | 4.0   | 3.3  |
| 2008<br>2009<br>IP (2002=100)<br>2007 1<br>2008 1<br>2009 1<br>Capacity<br>(percent of  | 1<br>-2.2<br>109.9   | 3   | 4  |  |   | .4   | .2  | .2   | 3   | 1  | 2   | .8   | 3.6  | 2.2  | 2.0  | 6   | 2.3  |
| 2008<br>2009<br>IP (2002=100)<br>2007 1<br>2008 1<br>2009 1<br>Capacity<br>(percent of  | 1<br>-2.2<br>109.9   | 3   | 4  |  | .1  | .0   | .3  | .1   | .4  | 5  | .6  | .3   | 1.8  | 2.4  | 2.1  | .8  | 1.5  |
| IP (2002=100) 2007  | 109.9  | 8   | -1.6   | 6  | 3   | 2  | 1   | -1.1   | -4.0  | 1.3  | -1.3  | -2.3   | .2   | -4.6   | -9.0   | -13.0   | -2.2   |
| 2007 1<br>2008 1<br>2009 1<br>Capacity<br>(percent of   |  |   |  | 5  | -1.1  | 4  | .9  | 1.2  | .7  |  |   |  | -19.0  | -10.3  | 5.2  |   |  |
| 2007 1<br>2008 1<br>2009 1<br>Capacity (percent of  |  |   |  |  |   |  |   |  |   |  |   |  |  |  |  |   |  |
| 2008 1<br>2009 1<br>Capacity<br>(percent of   |  | 110.8   | 110.6  | 111.1  | 111.1   | 111.2  | 1115  | 1116   | 112.0   | 111.4  | 112.1   | 112.4  | 110.5  | 111.1  | 111.7  | 112.0   | 111 2  |
| 2009 1  Capacity (percent of  | 112.3  | 110.8   | 110.6<br>111.6   | 111.1  | 110.7   | 110.4  | 111.5<br>110.4  | 111.6<br>109.2   | 104.8   | 106.2  | 112.1<br>104.8  | 102.4  | 110.5  | 111.1  | 108.1  | 104.4   | 111.3<br>108.8   |
| (percent of   | 100.1  | 99.3  | 97.7   | 97.2   | 96.2  | 95.8   | 96.6  | 97.8   | 98.5  | 100.2  | 101.0   | 102.1  | 99.1   | 96.4   | 97.6   | 101.1   | 100.0  |
|   | 136.9<br>139.6   | 137.1<br>139.8  | 137.3<br>139.9   | 137.6<br>140.1   | 137.8<br>140.2  | 138.0<br>140.4   | 138.3<br>140.5  | 138.5<br>140.6   | 138.7<br>140.7  | 139.0<br>140.7   | 139.2<br>140.7  | 139.4<br>140.7   | 137.1<br>139.8   | 137.8<br>140.2   | 138.5<br>140.6   | 139.2<br>140.7  | 138.1<br>140.3   |
|   | 140.7  | 140.7   | 140.6  | 140.5  | 140.4   | 140.2  | 140.1   | 139.9  | 139.8   |  |   |  | 140.7  | 140.4  | 139.9  |   |  |
|   |  |   |  |  |   |  |   |  |   |  |   |  |  |  |  |   |  |
| Utilization (percent)   |  |   |  |  |   |  |   |  |   |  |   |  |  |  |  |   |  |
|   | 79.0   | 79.9  | 79.9   | 80.2   | 80.6  | 80.8   | 81.2  | 81.6   | 81.7  | 82.8   | 83.1  | 83.4   | 79.6   | 80.5   | 81.5   | 83.1  | 81.2   |
|   | 83.4   | 83.6  | 83.8   | 84.2   | 84.1  | 84.2   | 84.3  | 84.7   | 84.3  | 84.7   | 84.8  | 85.0   | 83.6   | 84.2   | 84.4   | 84.8  | 84.3   |
|   | 85.1   | 84.6  | 84.7   | 84.6   | 83.8  | 83.7   | 82.8  | 83.3   | 83.0  | 82.7   | 82.8  | 83.1   | 84.8   | 84.0   | 83.0   | 82.9  | 83.7   |
|   | 82.5   | 83.1  | 83.3   | 83.0   | 83.0  | 83.1   | 82.8  | 82.9   | 82.9  | 82.2   | 81.0  | 80.3   | 83.0   | 83.1   | 82.9   | 81.2  | 82.5   |
| 1991  | 79.9   | 79.2  | 78.7   | 78.8   | 79.5  | 80.1   | 80.0  | 80.0   | 80.6  | 80.4   | 80.2  | 79.8   | 79.3   | 79.5   | 80.2   | 80.1  | 79.8   |
| 1992  | 79.1   | 79.6  | 80.1   | 80.5   | 80.6  | 80.5   | 81.0  | 80.4   | 80.5  | 80.9   | 81.1  | 80.9   | 79.6   | 80.6   | 80.6   | 81.0  | 80.4   |
|   | 81.2   | 81.4  | 81.3   | 81.4   | 81.0  | 81.1   | 81.3  | 81.2   | 81.4  | 81.9   | 82.1  | 82.3   | 81.3   | 81.2   | 81.3   | 82.1  | 81.5   |
| 1994  | 82.5   | 82.3  | 83.0   | 83.2   | 83.4  | 83.7   | 83.6  | 83.7   | 83.6  | 84.1   | 84.3  | 84.9   | 82.6   | 83.4   | 83.6   | 84.4  | 83.5   |
|   | 84.9   | 84.6  | 84.4   | 84.1   | 84.0  | 83.9   | 83.3  | 84.2   | 84.2  | 83.7   | 83.6  | 83.6   | 84.6   | 84.0   | 83.9   | 83.6  | 84.0   |
| 1996  | 82.6   | 83.6  | 83.1   | 83.4   | 83.5  | 83.9   | 83.4  | 83.5   | 83.6  | 83.2   | 83.5  | 83.7   | 83.1   | 83.6   | 83.5   | 83.5  | 83.4   |
| 1997  | 83.3   | 83.9  | 84.2   | 83.8   | 83.9  | 83.8   | 83.8  | 84.4   | 84.7  | 84.7   | 85.0  | 84.7   | 83.8   | 83.8   | 84.3   | 84.8  | 84.2   |
|   | 84.6   | 84.1  | 83.6   | 83.5   | 83.6  | 82.6   | 81.8  | 83.1   | 82.4  | 82.6   | 82.1  | 82.0   | 84.1   | 83.2   | 82.4   | 82.2  | 83.0   |
| 1999  | 82.1   | 82.1  | 81.9   | 81.7   | 82.0  | 81.5   | 81.8  | 81.9   | 81.3  | 82.1   | 82.2  | 82.6   | 82.0   | 81.8   | 81.6   | 82.3  | 81.9   |
|   | 82.3   | 82.4  | 82.4   | 82.6   | 82.5  | 82.3   | 81.8  | 81.4   | 81.5  | 80.9   | 80.7  | 80.1   | 82.4   | 82.5   | 81.6   | 80.6  | 81.7   |
| 2001  | 79.3   | 78.6  | 78.1   | 77.7   | 76.9  | 76.2   | 75.7  | 75.2   | 74.7  | 74.1   | 73.6  | 73.5   | 78.7   | 76.9   | 75.2   | 73.7  | 76.1   |
| 2002  | 73.7   | 73.6  | 74.1   | 74.2   | 74.5  | 75.2   | 74.9  | 75.0   | 75.0  | 74.9   | 75.2  | 74.9   | 73.8   | 74.7   | 75.0   | 75.0  | 74.6   |
|   | 75.5   | 75.8  | 75.7   | 75.1   | 75.2  | 75.3   | 75.6  | 75.6   | 76.0  | 76.1   | 76.8  | 76.7   | 75.6   | 75.2   | 75.7   | 76.5  | 75.8   |
| 2004  | 77.0   | 77.4  | 76.9   | 77.3   | 77.9  | 77.2   | 77.7  | 77.9   | 77.9  | 78.7   | 78.8  | 79.4   | 77.1   | 77.5   | 77.9   | 79.0  | 77.9   |
|   | 79.7   | 80.2  | 80.1   | 80.0   | 80.2  | 80.4   | 80.3  | 80.4   | 78.9  | 79.7   | 80.5  | 80.9   | 80.0   | 80.2   | 79.9   | 80.4  | 80.1   |
| 2006  | 80.9   | 80.8  | 80.8   | 81.0   | 80.8  | 81.1   | 81.1  | 81.2   | 80.8  | 80.6   | 80.3  | 80.9   | 80.8   | 81.0   | 81.1   | 80.6  | 80.9   |
| 2007  | 80.3   | 80.8  | 80.6   | 80.7   | 80.7  | 80.6   | 80.7  | 80.6   | 80.7  | 80.2   | 80.5  | 80.6   | 80.6   | 80.6   | 80.7   | 80.4  | 80.6   |
|   | 80.5   | 80.2  | 79.8   | 79.2   | 78.9  | 78.7   | 78.6  | 77.6   | 74.5  | 75.4   | 74.4  | 72.7   | 80.1   | 78.9   | 76.9   | 74.2  | 77.6   |
|   | 71.1   | 70.6  | 69.5   | 69.2   | 68.5  | 68.3   | 69.0  | 69.9   | 70.5  |  |   |  | 70.4   | 68.7   | 69.8   |   | 1  |

<sup>1.</sup> Quarterly changes are at annual rates. Annual changes are calculated from annual averages.

Table 12 HISTORICAL STATISTICS FOR INDUSTRIAL PRODUCTION, CAPACITY, AND UTILIZATION: Manufacturing <sup>1</sup> Seasonally adjusted

| easonally adjusted<br>Year   | Jan.   | Feb.   | Mar.   | Apr.   | May  | June   | July   | Aug.   | Sept.  | Oct.   | Nov.   | Dec.   | Q1   | Q2   | Q3   | Q4   | Annı   |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  | Jan.   | 100.   | iviai.   | Api.   | way  | June   | July   | Aug.   | Бері.  | Oct.   | 1101.  | Dcc.   | Q1   | Q2   | Q3   | Q+   | Aiiii  |
| IP (percent  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| change) <sup>2</sup><br>1987   | 3  | 1.4  | .1   | .5   | .7   | .4   | .7   | .5   | .6   | 1.6  | .6   | .6   | 6.1  | 6.7  | 7.1  | 11.7   | 4  |
| 1988   | 2  | .2   | .3   | .9   | 1  | .1   | .1   | .1   | .3   | .5   | .3   | .4   | 2.6  | 4.5  | 1.4  | 4.5  | 4  |
| 1989   | .8   | 9  | 1  | .1   | 1<br>9   | .2   | -1.1   | .9   | 2  | 2  | .2   | .1   | 1.8  | -3.1   | -2.9   | .6   | _  |
| 1990   | 1  | 1.4  | .5   | 3  | .1   | .2   | 2  | .2   | .0   | 8  | -1.1   | 8  | 4.6  | 2.7  | .6   | -6.7   |  |
| 1991   | 8  | 6  | 7  | .3   | .7   | 1.1  | .2   | .2   | 1.1  | 2  | 3  | 1  | -8.8   | 2.1  | 7.1  | 1.6  | -2   |
| 1992   | 6  | .9   | 1.0  | .5   | .6   | .3   | .8   | 4  | .1   | .6   | .4   | 2  | .6   | 8.2  | 4.0  | 2.8  | 3  |
| 1993   | 1.1  | .1   | 2  | .6   | 1  | 1  | .3   | 1  | .6   | .8   | .4   | .5   | 4.5  | 1.4  | 1.3  | 6.8  | 3  |
| 1994   | .2   | .1   | 1.3  | .8   | .7   | .3   | .4   | .7   | .3   | 1.0  | .8   | 1.1  | 5.0  | 9.5  | 5.9  | 9.8  | 4  |
| 1995   | .3   | 1  | .2   | 1  | .0   | .4   | 6  | 1.2  | .9   | 1  | .1   | .4   | 5.4  | .6   | 3.2  | 4.2  | 5  |
| 1996   | 8  | 1.7  | 2  | 1.0  | .7   | 1.1  | .3   | .6   | .7   | 1  | .8   | .9   | 2.1  | 9.1  | 7.8  | 5.8  |  |
| 1997<br>1998   | .1<br>.8   | 1.4  | 1.2<br>1   | 2<br>.6  | .9<br>.6   | .7<br>7  | .4<br>5  | 1.7<br>2.5   | .9<br>3  | .6<br>.9   | 1.1  | .5<br>.5   | 9.4<br>6.0   | 7.6<br>2.7   | 10.8<br>3.0  | 11.1<br>7.3  | 8  |
| 1999   | .4   | .7   | 1  | .3   | .9   | 4  | .5   | .8   | 3  | 1.6  | .7   | .7   | 5.0  | 4.2  | 3.8  | 9.8  | 4  |
| 2000   | .1   | .3   | .7   | .6   | 1  | .2   | .0   | 5  | .5   | 4  | 3  | 7  | 5.3  | 4.7  | 5  | -2.8   | 4  |
| 2001   | 6  | 6  | 3  | 2  | 8  | 7  | 3  | 7  | 3  | 7  | 2  | .2   | -6.6   | -5.5   | -6.3   | -4.8   | -4   |
| 2002   | .4   | .0   | .7   | .0   | .7   | 1.1  | 4  | .3   | .1   | 5  | .4   | 5  | 3.0  | 5.2  | 2.9  | 9  |  |
| 2003   | .6   | .1   | .3   | -1.0   | .1   | .5   | .1   | 2  | .8   | .1   | 1.1  | 2  | 2.4  | -2.0   | 2.3  | 4.6  |  |
| 2004   | .1   | .7   | 3  | .5   | .7   | 8  | .8   | .6   | 2  | 1.0  | .0   | .7   | 2.5  | 2.9  | 3.6  | 5.2  | 3  |
| 2005   | .7   | .8   | 4  | .1   | .5   | .2   | .0   | .3   | -1.0   | 1.6  | .9   | .1   | 6.2  | 1.9  | .5   | 6.6  | 4  |
| 2006   | .7   | 3  | 1  | .5   | 3  | .3   | .1   | .3   | 2  | 5  | 2  | 1.2  | 3.3  | 1.0  | 1.4  | 9  |  |
| 2007   | 6  | .3   | .4   | .3   | .0   | .3   | .6   | 4  | .4   | 4  | .4   | .3   | 1.7  | 3.2  | 2.4  | .1   | 1  |
| 2008<br>2009   | 3  | 5<br>1   | 1<br>-1.7  | 9<br>4   | 2<br>9   | 4<br>3   | 3<br>1.2   | 9<br>1.2   | -3.7<br>.9   | .3   | -2.2   | -2.9   | -1.2<br>-22.0  | -5.4<br>-8.7   | -9.3<br>7.1  | -18.1  | -3   |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>IP</b> (2002=100)<br>2007   | 111.4  | 111.7  | 112.2  | 112.5  | 112.5  | 112.9  | 113.5  | 113.0  | 113.4  | 112.9  | 113.3  | 113.7  | 111.7  | 112.6  | 113.3  | 113.3  | 112  |
| 2007   | 111.4  | 111.7  | 112.2  | 111.7  | 111.5  | 111.0  | 110.8  | 109.7  | 105.7  | 106.0  | 103.6  | 100.6  | 111.7  | 111.4  | 108.7  | 103.4  | 109  |
| 2008   | 97.8   | 97.7   | 96.1   | 95.7   | 94.8   | 94.5   | 95.6   | 96.7   | 97.5   | 100.0  | 105.0  | 100.0  | 97.2   | 95.0   | 96.6   | 103.4  | 103  |
| Capacity<br>(percent of<br>2002 output)<br>2007  | 141.3  | 141.5  | 141.8  | 142.0  | 142.3  | 142.6  | 142.9  | 143.2  | 143.4  | 143.7  | 144.0  | 144.2  | 141.5  | 142.3  | 143.1  | 144.0  | 142  |
| 2008<br>2009   | 144.5<br>145.7   | 144.7<br>145.7   | 144.9<br>145.6   | 145.1<br>145.4   | 145.3<br>145.3   | 145.5<br>145.1   | 145.6<br>144.9   | 145.7<br>144.7   | 145.8<br>144.5   | 145.8  | 145.8  | 145.8  | 144.7<br>145.7   | 145.3<br>145.3   | 145.7<br>144.7   | 145.8  | 145  |
| Utilization  | 113.7  | 113.7  | 113.0  | 113.1  | 110.0  | 113.1  | 111.7  | 111.7  | 111.5  |  |  |  | 115.7  | 110.0  | 111.7  |  |  |
| (percent)  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1987   | 79.0   | 79.9   | 79.8   | 80.0   | 80.4   | 80.5   | 80.8   | 81.1   | 81.4   | 82.5   | 82.9   | 83.3   | 79.6   | 80.3   | 81.1   | 82.9   | 81   |
| 1988   | 83.0   | 83.1   | 83.3   | 84.0   | 83.8   | 83.9   | 84.0   | 84.0   | 84.2   | 84.6   | 84.7   | 84.9   | 83.2   | 83.9   | 84.0   | 84.7   | 84   |
| 1989<br>1990   | 85.4<br>81.6   | 84.5<br>82.6   | 84.3<br>82.8   | 84.2<br>82.4   | 83.3<br>82.3   | 83.3<br>82.3   | 82.2<br>82.0   | 82.7<br>82.0   | 82.3<br>81.8   | 82.0<br>81.0   | 82.0<br>80.0   | 81.9<br>79.2   | 84.7<br>82.3   | 83.6<br>82.3   | 82.4<br>81.9   | 82.0<br>80.1   | 83   |
| 1990   | 78.5   | 77.9   | 77.2   | 77.4   | 77.8   | 78.5   | 78.6   | 78.7   | 79.4   | 79.2   | 78.9   | 78.7   | 77.9   | 77.9   | 78.9   | 78.9   | 7  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 7  |
| 1992   | 78.0   | 78.6   | 79.2   | 79.4   | 79.7   | 79.8   | 80.2   | 79.7   | 79.6   | 79.9   | 80.0   | 79.7   | 78.6   | 79.6   | 79.8   | 79.8   |  |
|  | 78.0<br>80.4   | 78.6<br>80.3   | 79.2<br>80.1   | 79.4<br>80.4   | 79.7<br>80.2   | 79.8<br>80.0   | 80.2<br>80.1   | 79.7<br>79.9   | 79.6<br>80.3   | 79.9<br>80.8   | 80.0<br>81.0   | 79.7<br>81.2   | 78.6<br>80.2   | 79.6<br>80.2   | 79.8<br>80.1   | 79.8<br>81.0   | 8  |
| 1993   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 80   |
| 1993<br>1994   | 80.4   | 80.3<br>81.1<br>84.0   | 80.1   | 80.4<br>82.4<br>83.5   | 80.2<br>82.7<br>83.2   | 80.0<br>82.7<br>83.2   | 80.1<br>82.7<br>82.4   | 79.9<br>83.0<br>83.0   | 80.3<br>83.0<br>83.4   | 80.8<br>83.5<br>82.9   | 81.0<br>83.8<br>82.5   | 81.2   | 80.2   | 80.2<br>82.6<br>83.3   | 80.1<br>82.9<br>82.9   | 81.0   | 8<br>8<br>8  |
| 1993<br>1994<br>1995   | 80.4<br>81.2   | 80.3<br>81.1   | 80.1<br>82.0   | 80.4<br>82.4   | 80.2<br>82.7   | 80.0<br>82.7   | 80.1<br>82.7   | 79.9<br>83.0   | 80.3<br>83.0   | 80.8<br>83.5   | 81.0<br>83.8   | 81.2<br>84.5   | 80.2<br>81.4   | 80.2<br>82.6   | 80.1<br>82.9   | 81.0<br>83.9   | 8<br>8<br>8  |
| 1993<br>1994<br>1995<br>1996   | 80.4<br>81.2<br>84.4<br>81.4   | 80.3<br>81.1<br>84.0<br>82.3   | 80.1<br>82.0<br>83.9<br>81.7   | 80.4<br>82.4<br>83.5<br>82.1   | 80.2<br>82.7<br>83.2<br>82.2   | 80.0<br>82.7<br>83.2<br>82.6   | 80.1<br>82.7<br>82.4<br>82.4<br>82.7   | 79.9<br>83.0<br>83.0<br>82.5   | 80.3<br>83.0<br>83.4<br>82.6   | 80.8<br>83.5<br>82.9<br>82.1   | 81.0<br>83.8<br>82.5<br>82.3   | 81.2<br>84.5<br>82.5<br>82.5<br>83.7   | 80.2<br>81.4<br>84.1<br>81.8   | 80.2<br>82.6<br>83.3<br>82.3   | 80.1<br>82.9<br>82.9<br>82.5   | 81.0<br>83.9<br>82.6<br>82.3   | 81<br>82<br>83<br>83   |
| 1993<br>1994<br>1995<br>1996<br>1997<br>1998   | 80.4<br>81.2<br>84.4<br>81.4<br>82.1<br>83.8   | 80.3<br>81.1<br>84.0<br>82.3<br>82.8<br>83.2   | 80.1<br>82.0<br>83.9<br>81.7<br>83.3<br>82.5   | 80.4<br>82.4<br>83.5<br>82.1<br>82.6<br>82.4   | 80.2<br>82.7<br>83.2<br>82.2<br>82.9<br>82.3   | 80.0<br>82.7<br>83.2<br>82.6<br>82.9<br>81.2   | 80.1<br>82.7<br>82.4<br>82.4<br>82.7<br>80.3   | 79.9<br>83.0<br>83.0<br>82.5<br>83.5<br>81.8   | 80.3<br>83.0<br>83.4<br>82.6<br>83.7<br>81.0   | 80.8<br>83.5<br>82.9<br>82.1<br>83.6<br>81.3   | 81.0<br>83.8<br>82.5<br>82.3<br>83.9<br>81.0   | 81.2<br>84.5<br>82.5<br>82.5<br>83.7<br>81.0   | 80.2<br>81.4<br>84.1<br>81.8<br>82.8<br>83.2   | 80.2<br>82.6<br>83.3<br>82.3<br>82.8<br>82.0   | 80.1<br>82.9<br>82.9<br>82.5<br>83.3<br>81.0   | 81.0<br>83.9<br>82.6<br>82.3<br>83.7<br>81.1   | 81<br>83<br>83<br>83<br>83   |
| 1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999   | 80.4<br>81.2<br>84.4<br>81.4<br>82.1<br>83.8<br>80.9   | 80.3<br>81.1<br>84.0<br>82.3<br>82.8<br>83.2<br>81.1   | 80.1<br>82.0<br>83.9<br>81.7<br>83.3<br>82.5<br>80.6   | 80.4<br>82.4<br>83.5<br>82.1<br>82.6<br>82.4<br>80.5   | 80.2<br>82.7<br>83.2<br>82.2<br>82.9<br>82.3<br>80.9   | 80.0<br>82.7<br>83.2<br>82.6<br>82.9<br>81.2<br>80.3   | 80.1<br>82.7<br>82.4<br>82.4<br>82.7<br>80.3<br>80.3   | 79.9<br>83.0<br>83.0<br>82.5<br>83.5<br>81.8<br>80.5   | 80.3<br>83.0<br>83.4<br>82.6<br>83.7<br>81.0<br>79.9   | 80.8<br>83.5<br>82.9<br>82.1<br>83.6<br>81.3<br>80.8   | 81.0<br>83.8<br>82.5<br>82.3<br>83.9<br>81.0<br>81.0   | 81.2<br>84.5<br>82.5<br>82.5<br>83.7<br>81.0<br>81.3   | 80.2<br>81.4<br>84.1<br>81.8<br>82.8<br>83.2<br>80.9   | 80.2<br>82.6<br>83.3<br>82.3<br>82.8<br>82.0<br>80.6   | 80.1<br>82.9<br>82.9<br>82.5<br>83.3<br>81.0<br>80.3   | 81.0<br>83.9<br>82.6<br>82.3<br>83.7<br>81.1<br>81.0   | 8<br>8<br>8<br>8<br>8  |
| 1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000   | 80.4<br>81.2<br>84.4<br>81.4<br>82.1<br>83.8   | 80.3<br>81.1<br>84.0<br>82.3<br>82.8<br>83.2   | 80.1<br>82.0<br>83.9<br>81.7<br>83.3<br>82.5   | 80.4<br>82.4<br>83.5<br>82.1<br>82.6<br>82.4   | 80.2<br>82.7<br>83.2<br>82.2<br>82.9<br>82.3   | 80.0<br>82.7<br>83.2<br>82.6<br>82.9<br>81.2   | 80.1<br>82.7<br>82.4<br>82.4<br>82.7<br>80.3   | 79.9<br>83.0<br>83.0<br>82.5<br>83.5<br>81.8   | 80.3<br>83.0<br>83.4<br>82.6<br>83.7<br>81.0   | 80.8<br>83.5<br>82.9<br>82.1<br>83.6<br>81.3   | 81.0<br>83.8<br>82.5<br>82.3<br>83.9<br>81.0   | 81.2<br>84.5<br>82.5<br>82.5<br>83.7<br>81.0   | 80.2<br>81.4<br>84.1<br>81.8<br>82.8<br>83.2   | 80.2<br>82.6<br>83.3<br>82.3<br>82.8<br>82.0   | 80.1<br>82.9<br>82.9<br>82.5<br>83.3<br>81.0   | 81.0<br>83.9<br>82.6<br>82.3<br>83.7<br>81.1   | 8<br>8<br>8<br>8<br>8<br>8   |
| 1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001   | 80.4<br>81.2<br>84.4<br>81.4<br>82.1<br>83.8<br>80.9<br>81.0   | 80.3<br>81.1<br>84.0<br>82.3<br>82.8<br>83.2<br>81.1<br>80.9   | 80.1<br>82.0<br>83.9<br>81.7<br>83.3<br>82.5<br>80.6<br>81.1   | 80.4<br>82.4<br>83.5<br>82.1<br>82.6<br>82.4<br>80.5<br>81.3   | 80.2<br>82.7<br>83.2<br>82.2<br>82.9<br>82.3<br>80.9<br>80.8   | 80.0<br>82.7<br>83.2<br>82.6<br>82.9<br>81.2<br>80.3<br>80.7   | 80.1<br>82.7<br>82.4<br>82.4<br>82.7<br>80.3<br>80.3<br>80.3   | 79.9<br>83.0<br>83.0<br>82.5<br>83.5<br>81.8<br>80.5<br>79.6   | 80.3<br>83.0<br>83.4<br>82.6<br>83.7<br>81.0<br>79.9<br>79.6   | 80.8<br>83.5<br>82.9<br>82.1<br>83.6<br>81.3<br>80.8<br>79.0   | 81.0<br>83.8<br>82.5<br>82.3<br>83.9<br>81.0<br>81.0<br>78.5   | 81.2<br>84.5<br>82.5<br>82.5<br>83.7<br>81.0<br>81.3<br>77.7   | 80.2<br>81.4<br>84.1<br>81.8<br>82.8<br>83.2<br>80.9<br>81.0   | 80.2<br>82.6<br>83.3<br>82.3<br>82.8<br>82.0<br>80.6<br>80.9   | 80.1<br>82.9<br>82.9<br>82.5<br>83.3<br>81.0<br>80.3<br>79.9<br>72.8   | 81.0<br>83.9<br>82.6<br>82.3<br>83.7<br>81.1<br>81.0<br>78.4<br>71.5   | 8<br>8<br>8<br>8<br>8<br>8<br>8<br>7                                 |
| 1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003                                 | 80.4<br>81.2<br>84.4<br>81.4<br>82.1<br>83.8<br>80.9<br>81.0<br>76.9   | 80.3<br>81.1<br>84.0<br>82.3<br>82.8<br>83.2<br>81.1<br>80.9<br>76.2<br>71.7                                 | 80.1<br>82.0<br>83.9<br>81.7<br>83.3<br>82.5<br>80.6<br>81.1<br>75.7<br>72.1<br>73.7                         | 80.4<br>82.4<br>83.5<br>82.1<br>82.6<br>82.4<br>80.5<br>81.3<br>75.3   | 80.2<br>82.7<br>83.2<br>82.2<br>82.9<br>82.3<br>80.9<br>80.8<br>74.5   | 80.0<br>82.7<br>83.2<br>82.6<br>82.9<br>81.2<br>80.3<br>80.7<br>73.8                                 | 80.1<br>82.7<br>82.4<br>82.4<br>82.7<br>80.3<br>80.3<br>73.4<br>73.0<br>73.6                         | 79.9<br>83.0<br>83.0<br>82.5<br>83.5<br>81.8<br>80.5<br>79.6<br>72.7   | 80.3<br>83.0<br>83.4<br>82.6<br>83.7<br>81.0<br>79.9<br>79.6<br>72.3   | 80.8<br>83.5<br>82.9<br>82.1<br>83.6<br>81.3<br>80.8<br>79.0<br>71.7   | 81.0<br>83.8<br>82.5<br>82.3<br>83.9<br>81.0<br>81.0<br>78.5<br>71.4   | 81.2<br>84.5<br>82.5<br>82.5<br>83.7<br>81.0<br>81.3<br>77.7<br>71.5   | 80.2<br>81.4<br>84.1<br>81.8<br>82.8<br>83.2<br>80.9<br>81.0<br>76.3<br>71.8<br>73.5                         | 80.2<br>82.6<br>83.3<br>82.3<br>82.8<br>82.0<br>80.6<br>80.9<br>74.5   | 80.1<br>82.9<br>82.9<br>82.5<br>83.3<br>81.0<br>80.3<br>79.9<br>72.8   | 81.0<br>83.9<br>82.6<br>82.3<br>83.7<br>81.1<br>81.0<br>78.4<br>71.5   | 88<br>88<br>88<br>88<br>88<br>77<br>77                               |
| 1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004                         | 80.4<br>81.2<br>84.4<br>81.4<br>82.1<br>83.8<br>80.9<br>81.0<br>76.9<br>71.7<br>73.3<br>74.8                 | 80.3<br>81.1<br>84.0<br>82.3<br>82.8<br>83.2<br>81.1<br>80.9<br>76.2<br>71.7<br>73.5<br>75.4                 | 80.1<br>82.0<br>83.9<br>81.7<br>83.3<br>82.5<br>80.6<br>81.1<br>75.7<br>72.1<br>73.7<br>75.2                 | 80.4<br>82.4<br>83.5<br>82.1<br>82.6<br>82.4<br>80.5<br>81.3<br>75.3<br>72.1<br>73.0<br>75.6                 | 80.2<br>82.7<br>83.2<br>82.2<br>82.9<br>82.3<br>80.9<br>80.8<br>74.5<br>72.5<br>73.1<br>76.1                 | 80.0<br>82.7<br>83.2<br>82.6<br>82.9<br>81.2<br>80.3<br>80.7<br>73.8<br>73.5<br>75.5                 | 80.1<br>82.7<br>82.4<br>82.4<br>82.7<br>80.3<br>80.3<br>73.4<br>73.0<br>73.6<br>76.2                 | 79.9<br>83.0<br>83.0<br>82.5<br>83.5<br>81.8<br>80.5<br>79.6<br>72.7<br>73.2<br>73.4<br>76.6                 | 80.3<br>83.0<br>83.4<br>82.6<br>83.7<br>81.0<br>79.9<br>79.6<br>72.3<br>73.3<br>74.0<br>76.5                 | 80.8<br>83.5<br>82.9<br>82.1<br>83.6<br>81.3<br>80.8<br>79.0<br>71.7<br>72.9<br>74.1<br>77.2                 | 81.0<br>83.8<br>82.5<br>82.3<br>83.9<br>81.0<br>78.5<br>71.4<br>73.2<br>74.9<br>77.2                         | 81.2<br>84.5<br>82.5<br>82.5<br>83.7<br>81.0<br>81.3<br>77.7<br>71.5<br>72.9<br>74.8<br>77.6                 | 80.2<br>81.4<br>84.1<br>81.8<br>82.8<br>83.2<br>80.9<br>81.0<br>76.3<br>71.8<br>73.5<br>75.1                 | 80.2<br>82.6<br>83.3<br>82.3<br>82.8<br>82.0<br>80.6<br>80.9<br>74.5<br>72.6<br>73.2<br>75.7                 | 80.1<br>82.9<br>82.9<br>82.5<br>83.3<br>81.0<br>80.3<br>79.9<br>72.8<br>73.1<br>73.7<br>76.4                 | 81.0<br>83.9<br>82.6<br>82.3<br>83.7<br>81.1<br>81.0<br>78.4<br>71.5   | 88<br>88<br>88<br>88<br>77<br>77                                     |
| 1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2002<br>2003<br>2004<br>2005         | 80.4<br>81.2<br>84.4<br>81.4<br>82.1<br>83.8<br>80.9<br>81.0<br>76.9   | 80.3<br>81.1<br>84.0<br>82.3<br>82.8<br>83.2<br>81.1<br>80.9<br>76.2<br>71.7                                 | 80.1<br>82.0<br>83.9<br>81.7<br>83.3<br>82.5<br>80.6<br>81.1<br>75.7<br>72.1<br>73.7                         | 80.4<br>82.4<br>83.5<br>82.1<br>82.6<br>82.4<br>80.5<br>81.3<br>75.3   | 80.2<br>82.7<br>83.2<br>82.2<br>82.9<br>82.3<br>80.9<br>80.8<br>74.5   | 80.0<br>82.7<br>83.2<br>82.6<br>82.9<br>81.2<br>80.3<br>80.7<br>73.8                                 | 80.1<br>82.7<br>82.4<br>82.4<br>82.7<br>80.3<br>80.3<br>73.4<br>73.0<br>73.6                         | 79.9<br>83.0<br>83.0<br>82.5<br>83.5<br>81.8<br>80.5<br>79.6<br>72.7   | 80.3<br>83.0<br>83.4<br>82.6<br>83.7<br>81.0<br>79.9<br>79.6<br>72.3   | 80.8<br>83.5<br>82.9<br>82.1<br>83.6<br>81.3<br>80.8<br>79.0<br>71.7   | 81.0<br>83.8<br>82.5<br>82.3<br>83.9<br>81.0<br>81.0<br>78.5<br>71.4   | 81.2<br>84.5<br>82.5<br>82.5<br>83.7<br>81.0<br>81.3<br>77.7<br>71.5   | 80.2<br>81.4<br>84.1<br>81.8<br>82.8<br>83.2<br>80.9<br>81.0<br>76.3<br>71.8<br>73.5                         | 80.2<br>82.6<br>83.3<br>82.3<br>82.8<br>82.0<br>80.6<br>80.9<br>74.5   | 80.1<br>82.9<br>82.9<br>82.5<br>83.3<br>81.0<br>80.3<br>79.9<br>72.8   | 81.0<br>83.9<br>82.6<br>82.3<br>83.7<br>81.1<br>81.0<br>78.4<br>71.5   | 8<br>8<br>8<br>8<br>8<br>8<br>7<br>7<br>7<br>7<br>7                  |
| 1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006         | 80.4<br>81.2<br>84.4<br>81.4<br>82.1<br>83.8<br>80.9<br>81.0<br>76.9<br>71.7<br>73.3<br>74.8<br>78.1         | 80.3<br>81.1<br>84.0<br>82.3<br>82.8<br>83.2<br>81.1<br>80.9<br>76.2<br>71.7<br>73.5<br>75.4<br>78.7         | 80.1<br>82.0<br>83.9<br>81.7<br>83.3<br>82.5<br>80.6<br>81.1<br>75.7<br>72.1<br>73.7<br>75.2<br>78.3<br>79.3 | 80.4<br>82.4<br>83.5<br>82.1<br>82.6<br>82.4<br>80.5<br>81.3<br>75.3<br>72.1<br>73.0<br>75.6<br>78.3         | 80.2<br>82.7<br>83.2<br>82.2<br>82.9<br>82.3<br>80.9<br>80.8<br>74.5<br>72.5<br>73.1<br>76.1<br>78.5<br>79.3 | 80.0<br>82.7<br>83.2<br>82.6<br>82.9<br>81.2<br>80.3<br>80.7<br>73.8<br>73.5<br>75.5<br>78.6         | 80.1<br>82.7<br>82.4<br>82.4<br>82.7<br>80.3<br>80.3<br>73.4<br>73.0<br>73.6<br>76.2<br>78.4<br>79.5 | 79.9<br>83.0<br>83.0<br>82.5<br>83.5<br>81.8<br>80.5<br>72.7<br>73.2<br>73.4<br>76.6<br>78.6<br>79.6         | 80.3<br>83.0<br>83.4<br>82.6<br>83.7<br>81.0<br>79.9<br>79.6<br>72.3<br>73.3<br>74.0<br>76.5<br>77.7<br>79.4 | 80.8<br>83.5<br>82.9<br>82.1<br>83.6<br>81.3<br>80.8<br>79.0<br>71.7<br>72.9<br>74.1<br>77.2<br>78.8<br>78.9 | 81.0<br>83.8<br>82.5<br>82.3<br>83.9<br>81.0<br>81.0<br>78.5<br>71.4<br>73.2<br>74.9<br>77.2<br>79.4<br>78.7 | 81.2<br>84.5<br>82.5<br>82.5<br>83.7<br>81.0<br>81.3<br>77.7<br>71.5<br>72.9<br>74.8<br>77.6<br>79.4         | 80.2<br>81.4<br>84.1<br>81.8<br>82.8<br>83.2<br>80.9<br>81.0<br>76.3<br>71.8<br>73.5<br>75.1<br>78.3<br>79.6 | 80.2<br>82.6<br>83.3<br>82.3<br>82.8<br>82.0<br>80.6<br>80.9<br>74.5<br>72.6<br>73.2<br>75.7<br>78.5         | 80.1<br>82.9<br>82.9<br>82.5<br>83.3<br>81.0<br>80.3<br>79.9<br>72.8<br>73.1<br>73.7<br>76.4<br>78.2         | 81.0<br>83.9<br>82.6<br>82.3<br>83.7<br>81.1<br>81.0<br>78.4<br>71.5<br>73.0<br>74.6<br>77.3<br>79.2         | 88<br>88<br>88<br>88<br>77<br>77<br>77<br>77                         |
| 1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006         | 80.4<br>81.2<br>84.4<br>81.4<br>82.1<br>83.8<br>80.9<br>81.0<br>76.9<br>71.7<br>73.3<br>74.8<br>78.1<br>79.8 | 80.3<br>81.1<br>84.0<br>82.3<br>82.8<br>83.2<br>81.1<br>80.9<br>76.2<br>71.7<br>73.5<br>75.4<br>78.7<br>79.5 | 80.1<br>82.0<br>83.9<br>81.7<br>83.3<br>82.5<br>80.6<br>81.1<br>75.7<br>72.1<br>73.7<br>75.2<br>78.3<br>79.3 | 80.4<br>82.4<br>83.5<br>82.1<br>82.6<br>82.4<br>80.5<br>81.3<br>75.3<br>72.1<br>73.0<br>75.6<br>78.3<br>79.6 | 80.2<br>82.7<br>83.2<br>82.2<br>82.9<br>82.3<br>80.9<br>80.8<br>74.5<br>72.5<br>73.1<br>76.1<br>78.5<br>79.3 | 80.0<br>82.7<br>83.2<br>82.6<br>82.9<br>81.2<br>80.3<br>80.7<br>73.8<br>73.5<br>75.5<br>78.6<br>79.5 | 80.1<br>82.7<br>82.4<br>82.4<br>82.7<br>80.3<br>80.3<br>73.4<br>73.0<br>73.6<br>76.2<br>78.4<br>79.5 | 79.9<br>83.0<br>83.0<br>82.5<br>83.5<br>81.8<br>80.5<br>79.6<br>72.7<br>73.2<br>73.4<br>76.6<br>79.6<br>79.6 | 80.3<br>83.0<br>83.4<br>82.6<br>83.7<br>81.0<br>79.9<br>79.6<br>72.3<br>74.0<br>76.5<br>77.7<br>79.4         | 80.8<br>83.5<br>82.9<br>82.1<br>83.6<br>81.3<br>80.8<br>79.0<br>71.7<br>72.9<br>74.1<br>77.2<br>78.8<br>78.9 | 81.0<br>83.8<br>82.5<br>82.3<br>83.9<br>81.0<br>81.0<br>78.5<br>71.4<br>73.2<br>74.9<br>77.2<br>79.4<br>78.7 | 81.2<br>84.5<br>82.5<br>82.5<br>83.7<br>81.0<br>81.3<br>77.7<br>71.5<br>72.9<br>74.8<br>77.6<br>79.4<br>79.5 | 80.2<br>81.4<br>84.1<br>81.8<br>82.8<br>83.2<br>80.9<br>81.0<br>76.3<br>71.8<br>73.5<br>75.1<br>78.3<br>79.6 | 80.2<br>82.6<br>83.3<br>82.3<br>82.8<br>82.0<br>80.6<br>80.9<br>74.5<br>72.6<br>73.2<br>75.7<br>78.5<br>79.5 | 80.1<br>82.9<br>82.9<br>82.5<br>83.3<br>81.0<br>80.3<br>79.9<br>72.8<br>73.1<br>73.7<br>76.4<br>78.2<br>79.5 | 81.0<br>83.9<br>82.6<br>82.3<br>83.7<br>81.1<br>81.0<br>78.4<br>71.5<br>73.0<br>74.6<br>77.3<br>79.2<br>79.0 | 88<br>88<br>88<br>88<br>88<br>81<br>77<br>77<br>77<br>77<br>77<br>77 |
| 1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006 | 80.4<br>81.2<br>84.4<br>81.4<br>82.1<br>83.8<br>80.9<br>81.0<br>76.9<br>71.7<br>73.3<br>74.8<br>78.1         | 80.3<br>81.1<br>84.0<br>82.3<br>82.8<br>83.2<br>81.1<br>80.9<br>76.2<br>71.7<br>73.5<br>75.4<br>78.7         | 80.1<br>82.0<br>83.9<br>81.7<br>83.3<br>82.5<br>80.6<br>81.1<br>75.7<br>72.1<br>73.7<br>75.2<br>78.3<br>79.3 | 80.4<br>82.4<br>83.5<br>82.1<br>82.6<br>82.4<br>80.5<br>81.3<br>75.3<br>72.1<br>73.0<br>75.6<br>78.3         | 80.2<br>82.7<br>83.2<br>82.2<br>82.9<br>82.3<br>80.9<br>80.8<br>74.5<br>72.5<br>73.1<br>76.1<br>78.5<br>79.3 | 80.0<br>82.7<br>83.2<br>82.6<br>82.9<br>81.2<br>80.3<br>80.7<br>73.8<br>73.5<br>75.5<br>78.6         | 80.1<br>82.7<br>82.4<br>82.4<br>82.7<br>80.3<br>80.3<br>73.4<br>73.0<br>73.6<br>76.2<br>78.4<br>79.5 | 79.9<br>83.0<br>83.0<br>82.5<br>83.5<br>81.8<br>80.5<br>72.7<br>73.2<br>73.4<br>76.6<br>78.6<br>79.6         | 80.3<br>83.0<br>83.4<br>82.6<br>83.7<br>81.0<br>79.9<br>79.6<br>72.3<br>73.3<br>74.0<br>76.5<br>77.7<br>79.4 | 80.8<br>83.5<br>82.9<br>82.1<br>83.6<br>81.3<br>80.8<br>79.0<br>71.7<br>72.9<br>74.1<br>77.2<br>78.8<br>78.9 | 81.0<br>83.8<br>82.5<br>82.3<br>83.9<br>81.0<br>81.0<br>78.5<br>71.4<br>73.2<br>74.9<br>77.2<br>79.4<br>78.7 | 81.2<br>84.5<br>82.5<br>82.5<br>83.7<br>81.0<br>81.3<br>77.7<br>71.5<br>72.9<br>74.8<br>77.6<br>79.4         | 80.2<br>81.4<br>84.1<br>81.8<br>82.8<br>83.2<br>80.9<br>81.0<br>76.3<br>71.8<br>73.5<br>75.1<br>78.3<br>79.6 | 80.2<br>82.6<br>83.3<br>82.3<br>82.8<br>82.0<br>80.6<br>80.9<br>74.5<br>72.6<br>73.2<br>75.7<br>78.5         | 80.1<br>82.9<br>82.9<br>82.5<br>83.3<br>81.0<br>80.3<br>79.9<br>72.8<br>73.1<br>73.7<br>76.4<br>78.2         | 81.0<br>83.9<br>82.6<br>82.3<br>83.7<br>81.1<br>81.0<br>78.4<br>71.5<br>73.0<br>74.6<br>77.3<br>79.2         | 88<br>88<br>88<br>88<br>77<br>77<br>77<br>77                         |

Refer to note on cover page.
 Quarterly changes are at annual rates. Annual changes are calculated from annual averages.

Table 13
HISTORICAL STATISTICS FOR INDUSTRIAL PRODUCTION, CAPACITY, AND UTILIZATION: Total Industry Excluding Selected
High-Technology Industries

Seasonally adjusted

Veer June July Aug. Sept. Oct. New Dec. July Ol. Oct. New Dec. July Approximately Appr

| Year Year                               | Jan.          | Feb.          | Mar.          | Apr.          | May           | June          | July          | Aug.          | Sept.         | Oct.         | Nov.         | Dec.          | Q1            | Q2            | Q3            | Q4           | Annual       |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|---------------|---------------|---------------|---------------|--------------|--------------|
| <b>IP</b> (percent change) <sup>2</sup> |               |               |               |               |               |               |               |               |               |              |              |               |               |               |               |              |              |
| 1987                                    | 5             | 1.2           | .2            | .5            | .6            | .4            | .5            | .6            | .2            | 1.4          | .5           | .4            | 4.5           | 6.2           | 6.0           | 9.1          | 4.3          |
| 1988                                    | .0            | .4            | .2            | .5            | 1             | .2            | .1            | .5            | 4             | .5           | .2           | .4            | 3.1           | 2.8           | 1.5           | 2.6          | 4.4          |
| 1989<br>1990                            | .3<br>7       | 4<br>.9       | .3            | 1<br>2        | 7<br>.1       | .0            | -1.1<br>2     | .9            | 3<br>.2       | 2<br>8       | .2<br>-1.3   | .6<br>7       | 1.9           | -1.8<br>2.3   | -3.3<br>.9    | 1.0          | .6           |
| 1991                                    | 7             | .9<br>7       | 6             | .2            | 1.0           | 1.0           | .0            | .0            | .9            | 8            | -1.3         | <i>1</i><br>5 | -8.0          | 2.3           | 5.4           | -6.7<br>.5   | -2.0         |
| 1992<br>1993                            | 8<br>.5       | .7            | .8<br>1       | .6            | .3<br>5       | 1<br>.2       | .8<br>.4      | 6<br>1        | .1            | .6<br>.7     | .3           | .0            | -2.0<br>3.2   | 6.1           | 1.8<br>1.5    | 2.9<br>5.1   | 1.9<br>2.5   |
| 1994                                    | .4            | .0            | .9            | .3            | .4            | .6            | .0            | .3            | .0            | .6           | .4           | .9            | 4.4           | 5.4           | 3.2           | 5.6          | 4.0          |
| 1995                                    | .2            | 2             | 1             | 3             | .0            | .1            | 5             | 1.1           | .1            | 5            | .1           | .2            | 3.0           | -1.4          | 1.4           | .4           | 2.4          |
| 1996                                    | -1.0          | 1.4           | 3             | .7            | .5            | .7            | 4             | .4            | .4            | 3            | .8           | .5            | 4             | 6.2           | 2.2           | 3.2          | 1.7          |
| 1997<br>1998                            | 1<br>.2       | .9<br>1       | .5<br>1       | 4<br>.2       | .3<br>.6      | .2<br>9       | .2<br>8       | 1.1<br>2.0    | .7<br>6       | .6<br>.5     | .7<br>3      | .1<br>.0      | 5.1<br>1.9    | 2.2<br>1.0    | 6.0<br>3      | 7.9<br>2.0   | 4.2<br>3.1   |
| 1999                                    | .2            | .1            | 1             | 1             | .6            | 5             | .3            | .4            | 5             | 1.2          | .3           | .5            | .8            | .3            | 1.2           | 5.8          | 1.2          |
| 2000                                    | 4             | .1            | .1            | .4            | 1             | .0            | 5             | 4             | .4            | 5            | 2            | 6             | .4            | 1.7           | -2.7          | -2.7         | 1.1          |
| 2001                                    | 7             | 5             | 3             | 1             | 7             | 5             | 3             | 3             | 4             | 6            | 4            | 1             | -6.3          | -4.4          | -4.6          | -4.9         | -4.0         |
| 2002<br>2003                            | .7            | 1<br>.1       | .8<br>3       | .2<br>-1.0    | .5<br>1       | .8            | 4<br>.2       | .0<br>1       | .1            | 3<br>1       | .4           | 6<br>1        | 2.8<br>1.5    | 5.4<br>-4.5   | 1.3           | -1.0<br>3.2  | 1            |
| 2004                                    | .2            | .5            | 6             | .5            | .8            | 9             | .7            | .2            | 1             | .9           | .3           | .7            | 2.0           | 1.9           | 1.5           | 5.4          | 1.8          |
| 2005                                    | .4            | .6            | 2             | 1             | .2            | .3            | 2             | .0            | -2.0          | 1.1          | 1.1          | .6            | 5.0           | .9            | -2.1          | 2.8          | 2.6          |
| 2006                                    | .0            | 1             | .2            | .3            | 2             | .3            | .2            | .1            | 4             | 1            | 2            | .9            | 3.1           | 1.5           | 1.2           | 9            | 1.5          |
| 2007                                    | 5             | .8            | 3             | .3            | .0            | 1             | .2            | .0            | .3<br>-4.1    | 7<br>1.5     | .5<br>-1.1   | .3<br>-2.2    | 1.7           | 1.8           | 1.0           | 1            | .9           |
| 2008<br>2009                            | 1<br>-2.3     | 4<br>7        | 5<br>-1.7     | 7<br>6        | 3<br>-1.0     | 2<br>5        | .0            | -1.1<br>1.3   | -4.1<br>.7    | 1.5          | -1.1         | -2.2          | 6<br>-18.8    | -5.3<br>-10.7 | -9.0<br>5.0   | -11.7        | -2.8         |
| <b>IP</b> (2002=100)                    |               |               |               |               |               |               |               |               |               |              |              |               |               |               |               |              |              |
| 2007                                    | 106.3         | 107.2         | 106.9         | 107.2         | 107.3         | 107.2         | 107.4         | 107.4         | 107.7         | 107.0        | 107.5        | 107.8         | 106.8         | 107.2         | 107.5         | 107.5        | 107.2        |
| 2008<br>2009                            | 107.7<br>96.1 | 107.3<br>95.4 | 106.8<br>93.8 | 106.1<br>93.3 | 105.8<br>92.3 | 105.6<br>91.9 | 105.6<br>92.6 | 104.4<br>93.8 | 100.2<br>94.4 | 101.7        | 100.6        | 98.4          | 107.3<br>95.1 | 105.8<br>92.5 | 103.4<br>93.6 | 100.2        | 104.2        |
| Capacity (percent of 2002 output)       | 132.4         | 132.5         | 132.6         | 132.7         | 132.8         | 132.9         | 133.0         | 133.1         | 133.2         | 133.4        | 133.5        | 133.6         | 132.5         | 132.8         | 133.1         | 133.5        | 133.0        |
| 2007                                    | 133.8         | 133.9         | 134.0         | 134.2         | 134.3         | 134.4         | 134.5         | 134.6         | 134.7         | 134.7        | 134.7        | 134.7         | 133.9         | 134.3         | 134.6         | 134.7        | 134.4        |
| 2009                                    | 134.7         | 134.6         | 134.5         | 134.3         | 134.2         | 134.0         | 133.8         | 133.6         | 133.4         |              |              |               | 134.6         | 134.2         | 133.6         |              |              |
| Utilization<br>(percent)                |               |               |               |               |               |               |               |               |               |              |              |               |               |               |               |              |              |
| 1987<br>1988                            | 79.2<br>83.6  | 80.1<br>84.0  | 80.1<br>84.1  | 80.4<br>84.5  | 80.8<br>84.3  | 81.1<br>84.5  | 81.4<br>84.5  | 81.8<br>84.9  | 81.9<br>84.5  | 83.0<br>84.9 | 83.4<br>85.0 | 83.7<br>85.3  | 79.8<br>83.9  | 80.8<br>84.4  | 81.7<br>84.7  | 83.4<br>85.1 | 81.4<br>84.5 |
| 1989                                    | 85.4          | 85.0          | 85.2          | 85.0          | 84.2          | 84.1          | 83.1          | 83.7          | 83.3          | 83.0         | 83.0         | 83.4          | 85.2          | 84.4          | 83.3          | 83.1         | 84.0         |
| 1990                                    | 82.7          | 83.3          | 83.6          | 83.3          | 83.3          | 83.4          | 83.1          | 83.2          | 83.2          | 82.5         | 81.3         | 80.6          | 83.2          | 83.3          | 83.2          | 81.4         | 82.8         |
| 1991                                    | 80.1          | 79.4          | 78.9          | 78.9          | 79.6          | 80.3          | 80.2          | 80.1          | 80.8          | 80.5         | 80.3         | 79.8          | 79.5          | 79.6          | 80.4          | 80.2         | 79.9         |
| 1992                                    | 79.0          | 79.6          | 80.1          | 80.5          | 80.6          | 80.5          | 81.0          | 80.5          | 80.5          | 80.9         | 81.1         | 81.1          | 79.6          | 80.5          | 80.7          | 81.0         | 80.4         |
| 1993<br>1994                            | 81.4<br>82.6  | 81.6<br>82.5  | 81.4<br>83.1  | 81.6<br>83.2  | 81.1<br>83.4  | 81.2<br>83.8  | 81.4<br>83.7  | 81.3<br>83.8  | 81.5<br>83.7  | 82.0<br>84.1 | 82.1<br>84.3 | 82.4<br>84.9  | 81.5<br>82.8  | 81.3<br>83.5  | 81.4<br>83.7  | 82.2<br>84.4 | 81.6<br>83.6 |
| 1995                                    | 84.9          | 84.6          | 84.4          | 84.0          | 83.9          | 83.8          | 83.2          | 84.0          | 84.0          | 83.5         | 83.4         | 83.4          | 84.6          | 83.9          | 83.8          | 83.4         | 83.9         |
| 1996                                    | 82.4          | 83.4          | 83.0          | 83.4          | 83.7          | 84.1          | 83.6          | 83.7          | 83.8          | 83.4         | 83.9         | 84.1          | 82.9          | 83.7          | 83.7          | 83.8         | 83.5         |
| 1997                                    | 83.8          | 84.3          | 84.5          | 83.9          | 83.9          | 83.8          | 83.7          | 84.3          | 84.6          | 84.8         | 85.0         | 84.8          | 84.2          | 83.9          | 84.2          | 84.9         | 84.3         |
| 1998<br>1999                            | 84.7<br>82.2  | 84.3<br>82.1  | 84.0<br>81.8  | 83.8<br>81.5  | 84.1<br>81.8  | 83.0<br>81.3  | 82.1<br>81.3  | 83.5<br>81.5  | 82.7<br>81.0  | 82.9<br>81.9 | 82.4<br>81.9 | 82.2<br>82.3  | 84.3<br>82.0  | 83.7<br>81.5  | 82.8<br>81.3  | 82.5<br>82.0 | 83.3<br>81.7 |
| 2000                                    | 81.8          | 81.7          | 81.7          | 81.9          | 81.7          | 81.6          | 81.1          | 80.7          | 80.9          | 80.4         | 80.2         | 79.6          | 81.7          | 81.8          | 80.9          | 80.1         | 81.1         |
| 2001                                    | 79.0          | 78.5          | 78.1          | 77.9          | 77.3          | 76.8          | 76.5          | 76.2          | 75.8          | 75.3         | 74.9         | 74.7          | 78.5          | 77.4          | 76.2          | 75.0         | 76.7         |
| 2002<br>2003                            | 75.2<br>76.8  | 75.1<br>77.0  | 75.6<br>76.9  | 75.8<br>76.2  | 76.1<br>76.2  | 76.7          | 76.4<br>76.5  | 76.4<br>76.4  | 76.5<br>76.9  | 76.3<br>76.9 | 76.7         | 76.2          | 75.3<br>76.9  | 76.2<br>76.2  | 76.5          | 76.4<br>77.3 | 76.1<br>76.7 |
| 2003                                    | 76.8<br>77.6  | 77.0<br>77.9  | 76.9<br>77.4  | 76.2<br>77.9  | 76.2<br>78.5  | 76.2<br>77.7  | 78.3          | 76.4<br>78.4  | 76.9<br>78.4  | 76.9<br>79.1 | 77.5<br>79.4 | 77.4<br>79.9  | 76.9          | 76.2<br>78.0  | 76.6<br>78.4  | 77.3<br>79.5 | 78.4         |
| 2005                                    | 80.2          | 80.7          | 80.6          | 80.5          | 80.7          | 80.9          | 80.7          | 80.7          | 79.1          | 79.9         | 80.7         | 81.1          | 80.5          | 80.7          | 80.2          | 80.5         | 80.5         |
| 2006                                    | 81.0          | 80.8          | 80.9          | 81.0          | 80.8          | 81.0          | 81.0          | 81.0          | 80.6          | 80.4         | 80.2         | 80.8          | 80.9          | 80.9          | 80.9          | 80.5         | 80.8         |
| 2007<br>2008                            | 80.3<br>80.5  | 80.9<br>80.2  | 80.6<br>79.7  | 80.8<br>79.1  | 80.8<br>78.8  | 80.7<br>78.6  | 80.7<br>78.5  | 80.7<br>77.6  | 80.8<br>74.4  | 80.2<br>75.5 | 80.6<br>74.6 | 80.7<br>73.0  | 80.6<br>80.1  | 80.7<br>78.8  | 80.7<br>76.8  | 80.5<br>74.4 | 80.6<br>77.5 |
| 2008                                    | 71.4          | 70.9          | 69.8          | 69.4          | 68.8          | 68.6          | 69.2          | 70.2          | 70.8          | 13.3         | 74.0         | 73.0          | 70.7          | 68.9          | 70.8          | 74.4         | 11.3         |
|   |               |               |               |               |               |               |               |               |               |              |              |               |               |               |               |              |              |

<sup>1.</sup> Selected high-technology industries are computers, communications equipment, and semiconductors and related electronic components.

2. Quarterly changes are at annual rates. Annual changes are calculated from annual averages.

Table 14
HISTORICAL STATISTICS FOR INDUSTRIAL PRODUCTION, CAPACITY, AND UTILIZATION: Manufacturing Excluding Selected High-Technology Industries Seasonally adjusted

| Year                                    | Jan.          | Feb.          | Mar.          | Apr.          | May           | June          | July          | Aug.          | Sept.        | Oct.         | Nov.         | Dec.         | Q1            | Q2            | Q3            | Q4           | Annual       |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|--------------|--------------|
| <b>IP</b> (percent change) <sup>3</sup> |               |               |               |               |               |               |               |               |              |              |              |              |               |               |               |              |              |
| 1987                                    | 4             | 1.4           | .1            | .4            | .6            | .2            | .6            | .4            | .5           | 1.5          | .6           | .5           | 4.9           | 5.7           | 5.5           | 10.5         | 4.6          |
| 1988<br>1989                            | 2<br>.8       | .2<br>-1.0    | .2<br>.0      | .8<br>.0      | 2<br>9        | .1<br>.2      | .0<br>-1.3    | .1<br>.9      | .3<br>3      | .5<br>3      | .3<br>.1     | .4<br>.0     | 2.0<br>2.2    | 3.6<br>-3.4   | .6<br>-4.0    | 4.2<br>5     | 4.4          |
| 1990                                    | 2             | 1.4           | .4            | 3             | 9             | .2            | -1.3          | .2            | 1            | 9            | -1.2         | 8            | 3.7           | 2.0           | -4.0          | -7.5         | .0           |
| 1991                                    | 8             | 7             | 8             | .4            | .6            | 1.1           | .3            | .1            | 1.1          | 2            | 3            | 3            | -9.6          | 1.5           | 7.1           | 1.2          | -2.6         |
| 1992<br>1993                            | 9<br>1.1      | .9<br>.0      | .9<br>3       | .4            | .5<br>2       | .1<br>2       | .8            | 5<br>2        | 1<br>.5      | .4<br>.8     | .3           | 2<br>.5      | -1.2<br>4.1   | 6.9<br>.5     | 2.6           | 1.4<br>5.7   | 2.6<br>2.5   |
| 1994                                    | .1            | .1            | 1.2           | .5            | .5            | .2            | .3            | .5            | .1           | .7           | .5           | .9           | 4.0           | 7.1           | 3.7           | 6.9          | 4.4          |
| 1995                                    | .2            | 3             | 1             | 4             | 2             | .2            | 8             | .9            | .6           | 4            | 1            | .1           | 3.0           | -2.5          | .3            | .8           | 2.5          |
| 1996                                    | -1.2          | 1.4           | 5             | 1.0           | .5            | .8            | .0            | .3            | .5           | 4            | .7           | .7           | -1.9          | 7.0           | 4.2           | 3.0          | 1.5          |
| 1997<br>1998                            | 2<br>.6       | 1.1<br>2      | .9<br>3       | 7<br>.3       | .5<br>.5      | .4<br>-1.1    | .0<br>9       | 1.4<br>2.4    | .6<br>7      | .5<br>.7     | .9<br>1      | .2<br>.2     | 6.2<br>3.1    | 2.7           | 6.5<br>6      | 8.3<br>3.8   | 4.9<br>3.5   |
| 1999                                    | .0            | .4            | 4             | .0            | .8            | 7             | .0            | .7            | 5            | 1.5          | .4           | .4           | .8            | .2            | .4            | 7.2          | 1.4          |
| 2000                                    | 4             | 1             | .3            | .4            | 5             | .1            | 3             | 8             | .4           | 5            | 6            | 9            | .1            | .9            | -3.4          | -4.7         | .8           |
| 2001                                    | 6             | 5             | 3             | 1             | 7             | 5             | 1             | 7             | 3            | 7            | 2            | .1           | -7.4          | -4.5          | -5.0          | -4.8         | -4.9         |
| 2002<br>2003                            | .6<br>.6      | 1<br>1        | .8<br>.1      | 1<br>-1.1     | .6<br>.0      | 1.0           | 5<br>1        | .2<br>3       | .1<br>.8     | 5<br>1       | .3<br>1.0    | 7<br>3       | 3.5           | 4.6<br>-3.8   | 1.9           | -1.7<br>3.6  | .0           |
| 2004                                    | 1             | .7            | 3             | .5            | .8            | 9             | .9            | .6            | 3            | 1.0          | .0           | .6           | 1.5           | 3.1           | 3.3           | 4.9          | 2.2          |
| 2005                                    | .6            | .7            | 5             | .0            | .4            | .1            | 2             | .1            | -1.3         | 1.5          | .8           | .0           | 5.5           | .9            | -1.2          | 5.1          | 3.2          |
| 2006                                    | .7            | 4             | 2             | .5            | 4             | .2            | .0            | .2            | 3            | 5            | 2            | 1.2          | 2.6           | .0            | .3            | -1.2         | 1.5          |
| 2007                                    | 7             | .3            | .4            | .2            | .0            | .2            | .4            | 5             | .3           | 6            | .3           | .2           | 1.5           | 2.4           | 1.0           | -1.2         | .7           |
| 2008<br>2009                            | 3<br>-2.9     | 7<br>.0       | 2<br>-1.8     | -1.0<br>5     | 2<br>9        | 4<br>4        | 2<br>1.1      | 9<br>1.2      | -3.8<br>.9   | .6           | -2.0         | -2.9         | -2.3<br>-21.9 | -6.4<br>-9.2  | -9.3<br>6.9   | -16.8        | -4.0         |
| <b>IP</b> (2002=100)                    |               |               |               |               |               |               |               |               |              |              |              |              |               |               |               |              |              |
| 2007                                    | 106.9         | 107.1         | 107.5         | 107.8         | 107.7         | 107.9         | 108.4         | 107.8         | 108.1        | 107.5        | 107.8        | 108.0        | 107.2         | 107.8         | 108.1         | 107.7        | 107.7        |
| 2008<br>2009                            | 107.7<br>92.9 | 107.0<br>92.9 | 106.7<br>91.2 | 105.6<br>90.7 | 105.4<br>89.9 | 105.0<br>89.6 | 104.8<br>90.6 | 103.8<br>91.7 | 99.9<br>92.5 | 100.5        | 98.5         | 95.6         | 107.1<br>92.3 | 105.4<br>90.1 | 102.8<br>91.6 | 98.2         | 103.4        |
| Capacity (percent of 2002 output)       |               |               |               |               |               |               |               |               |              |              |              |              |               |               |               |              |              |
| 2007                                    | 135.8         | 135.9         | 136.0         | 136.1         | 136.2         | 136.3         | 136.4         | 136.5         | 136.7        | 136.8        | 137.0        | 137.1        | 135.9         | 136.2         | 136.5         | 137.0        | 136.4        |
| 2008                                    | 137.3         | 137.5         | 137.6         | 137.8         | 137.9         | 138.1         | 138.2         | 138.3         | 138.3        | 138.4        | 138.3        | 138.3        | 137.5         | 137.9         | 138.3         | 138.3        | 138.0        |
| 2009                                    | 138.2         | 138.1         | 137.9         | 137.8         | 137.5         | 137.3         | 137.1         | 136.8         | 136.6        |              |              |              | 138.1         | 137.5         | 136.8         |              |              |
| Utilization<br>(percent)                |               |               |               |               |               |               |               |               |              |              |              |              |               |               |               |              |              |
| 1987<br>1988                            | 79.2<br>83.4  | 80.2<br>83.5  | 80.1<br>83.7  | 80.3<br>84.3  | 80.7<br>84.2  | 80.8<br>84.2  | 81.1<br>84.2  | 81.3<br>84.2  | 81.7<br>84.4 | 82.8<br>84.8 | 83.2<br>85.0 | 83.6<br>85.2 | 79.8<br>83.5  | 80.6<br>84.2  | 81.4<br>84.3  | 83.2<br>85.0 | 81.3<br>84.3 |
| 1989                                    | 85.9          | 84.9          | 84.8          | 84.7          | 83.8          | 83.7          | 82.5          | 83.1          | 82.7         | 82.3         | 82.3         | 82.1         | 85.2          | 84.1          | 82.8          | 82.2         | 83.6         |
| 1990                                    | 81.8          | 82.9          | 83.0          | 82.6          | 82.6          | 82.6          | 82.3          | 82.3          | 82.2         | 81.3         | 80.2         | 79.4         | 82.6          | 82.6          | 82.2          | 80.3         | 81.9         |
| 1991                                    | 78.7          | 78.0          | 77.3          | 77.4          | 77.8          | 78.6          | 78.7          | 78.7          | 79.5         | 79.3         | 78.9         | 78.6         | 78.0          | 78.0          | 79.0          | 78.9         | 78.5         |
| 1992                                    | 77.8          | 78.4          | 79.1          | 79.3          | 79.6          | 79.7          | 80.2          | 79.7          | 79.5         | 79.8         | 80.0         | 79.7         | 78.5          | 79.5          | 79.8          | 79.8         | 79.4         |
| 1993<br>1994                            | 80.5          | 80.5          | 80.2          | 80.5          | 80.3          | 80.0          | 80.2          | 80.0          | 80.3         | 80.8         | 81.0         | 81.3         | 80.4          | 80.3          | 80.2          | 81.0         | 80.5         |
| 1994                                    | 81.3<br>84.4  | 81.2<br>84.0  | 82.1<br>83.8  | 82.4<br>83.3  | 82.7<br>83.0  | 82.7<br>83.0  | 82.8<br>82.2  | 83.1<br>82.7  | 83.0<br>83.1 | 83.5<br>82.5 | 83.8<br>82.3 | 84.4<br>82.2 | 81.5<br>84.1  | 82.6<br>83.1  | 83.0<br>82.6  | 83.9<br>82.3 | 82.7<br>83.0 |
| 1996                                    | 81.0          | 81.9          | 81.4          | 82.0          | 82.2          | 82.7          | 82.5          | 82.6          | 82.7         | 82.2         | 82.6         | 82.9         | 81.4          | 82.3          | 82.6          | 82.6         | 82.2         |
| 1997                                    | 82.5          | 83.1          | 83.6          | 82.7          | 82.8          | 82.8          | 82.5          | 83.3          | 83.5         | 83.5         | 83.9         | 83.7         | 83.1          | 82.7          | 83.1          | 83.7         | 83.1         |
| 1998                                    | 83.8          | 83.3          | 82.7          | 82.7          | 82.8          | 81.5          | 80.5          | 82.1          | 81.3         | 81.5         | 81.2         | 81.1         | 83.3          | 82.3          | 81.3          | 81.3         | 82.1         |
| 1999<br>2000                            | 80.9<br>80.3  | 81.0<br>80.0  | 80.4<br>80.2  | 80.2<br>80.3  | 80.6<br>79.8  | 79.8<br>79.7  | 79.7<br>79.3  | 80.0<br>78.6  | 79.4<br>78.8 | 80.4<br>78.3 | 80.6<br>77.7 | 80.7<br>76.9 | 80.8<br>80.2  | 80.2<br>79.9  | 79.7<br>78.9  | 80.6<br>77.6 | 80.3<br>79.1 |
| 2001                                    | 76.3          | 75.8          | 75.5          | 75.4          | 74.8          | 74.3          | 74.2          | 73.6          | 73.4         | 72.8         | 72.7         | 72.8         | 75.9          | 74.8          | 73.7          | 72.7         | 74.3         |
| 2002                                    | 73.2          | 73.1          | 73.7          | 73.7          | 74.1          | 74.9          | 74.5          | 74.7          | 74.8         | 74.5         | 74.8         | 74.3         | 73.3          | 74.2          | 74.7          | 74.5         | 74.2         |
| 2003<br>2004                            | 74.8          | 74.8          | 74.9          | 74.1          | 74.1          | 74.5          | 74.5          | 74.3          | 74.9         | 74.8         | 75.6         | 75.4         | 74.8          | 74.2          | 74.5          | 75.3         | 74.7         |
| 2004                                    | 75.3<br>78.6  | 75.9<br>79.2  | 75.7<br>78.7  | 76.1<br>78.7  | 76.7<br>79.0  | 76.0<br>79.1  | 76.7<br>78.9  | 77.1<br>78.9  | 76.9<br>77.9 | 77.7<br>79.0 | 77.7<br>79.5 | 78.2<br>79.4 | 75.6<br>78.8  | 76.3<br>78.9  | 76.9<br>78.5  | 77.8<br>79.3 | 76.7<br>78.9 |
| 2006                                    | 79.9          | 79.5          | 79.3          | 79.6          | 79.2          | 79.3          | 79.2          | 79.3          | 79.0         | 78.6         | 78.4         | 79.3         | 79.6          | 79.4          | 79.2          | 78.8         | 79.2         |
| 2007                                    | 78.7          | 78.8          | 79.1          | 79.2          | 79.1          | 79.2          | 79.4          | 78.9          | 79.1         | 78.5         | 78.7         | 78.8         | 78.9          | 79.2          | 79.2          | 78.7         | 79.0         |
| 2008                                    | 78.4          | 77.8          | 77.5          | 76.6          | 76.4          | 76.1          | 75.8          | 75.1          | 72.2         | 72.6         | 71.2         | 69.1         | 77.9          | 76.4          | 74.4          | 71.0         | 74.9         |
| 2009                                    | 67.2          | 67.2          | 66.1          | 65.9          | 65.4          | 65.3          | 66.1          | 67.0          | 67.8         |              |              |              | 66.8          | 65.5          | 67.0          |              |              |

<sup>I. Refer to note on cover page.

2. Selected high-technology industries are computers, communications equipment, and semiconductors and related electronic components.

3. Quarterly changes are at annual rates. Annual changes are calculated from annual averages.</sup> 

#### EXPLANATORY NOTE

The Industrial Production and Capacity Utilization statistical release, which is published around the middle of the month, reports measures of output, capacity, and capacity utilization in manufacturing, mining, and the electric and gas utilities industries. More detailed descriptions of industrial production and capacity utilization are available on the Board's website at www.federalreserve.gov/releases/G17. In addition, the website includes files containing data shown in the release, more detailed series that are published in a monthly supplement to the G.17, and historical data. Instructions on searching for and downloading specific series are provided as well. For paid access to the data files through the Department of Commerce's Economic Bulletin Board or World Wide Web site, please call STAT-USA at 1-800-STAT-USA or 202-452-1986. Diskettes containing historical data and the data published in this release also 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 the real output of the manufacturing, mining, and electric and gas utilities industries; the reference period for the index is 2002. Manufacturing consists of those industries included in the North American Industry Classification System (NAICS) definition of manufacturing plus those industries— newspaper, periodical, book, and directory publishing plus logging—that have traditionally been considered to be manufacturing. For the period since 1997, the total IP index has been constructed from 312 individual series based on the 2002 NAICS codes. These individual series are classified in two ways: (1) market groups, and (2) industry groups. Market groups consist of products and materials. Total products are the aggregate of final products, such as consumer goods and equipment, and nonindustrial supplies (which are inputs to nonindustrial sectors). Materials are inputs in the manufacture of products. Major industry groups include three-digit NAICS industries and aggregates of these industries—for example, durable and nondurable manufacturing, mining, and utilities. A complete description of the market and industry structures, including details regarding series classification, relative importance weights, and data sources, is available on the Board's web site (www.federalreserve.gov/releases/G17/About.htm).

Source data. 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 and from government agencies; data of this type are used to estimate monthly IP wherever possible and appropriate. Production indexes for a few industries are derived by dividing estimated nominal output (calculated using unit production and unit values or sales) by a corresponding Fisher price index; the most notable of these fall within the high-technology grouping and include computers, communications equipment, and semiconductors. When suitable direct measures of product are not available, estimates of output are based on production-worker hours by industry. Data on hours worked by production workers are collected in the monthly establishment survey conducted by the Bureau of Labor Statistics. The factors used to convert inputs into estimates of production are based on historical relationships between the inputs and the comprehensive annual data used to benchmark the IP indexes; these factors also may be influenced by technological or cyclical developments. The annual data used in benchmarking 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 United States Geological Survey of the Department of the Interior; and publications of the Department of Energy.

**Aggregation Methodology and Weights.** The aggregation method for the IP index is a version of the Fisher-ideal index formula. (For a detailed discussion of the aggregation method, see the *Federal Reserve Bulletins* of February 1997 and March 2001.) In the IP index, series that measure the output of an individual industry are combined using weights derived from their proportion in the total value-added

output of all industries. The IP index, which extends back to 1919, is built as a chain-type index since 1972. The current formula for the growth in monthly IP (or any of the sub-aggregates) since 1972 is shown below. An output index for month m is denoted by  $I_m^A$  for aggregate A and  $I_m$  for each of its components. The monthly price measure in the formula  $(p_m)$  is interpolated from an annual series of value added divided by the average annual IP index.

$$\frac{I_{m}^{A}}{I_{m-1}^{A}} = \sqrt{\frac{\sum I_{m}p_{m-1}}{\sum I_{m-1}p_{m-1}}} \times \frac{\sum I_{m}p_{m}}{\sum I_{m-1}p_{m}}$$

The IP proportions (typically shown in the first column of the relevant tables in the G.17 release) are estimates of the industries' relative contributions to overall growth in the following year. For example, the relative importance weight of the motor vehicles and parts industry is about 8 percent. If output in this industry increased 10 percent in a month, then this gain would boost growth in total IP by 8/10 percentage point (0.08 x 10% = 0.8%). To assist users with calculations, the Federal Reserve's web site provides supplemental monthly statistics that represent the exact proportionate contribution of a monthly change in a component index to the monthly change in the total index (www.federalreserve.gov/releases/G17/ipdisk/IPWeightsSa.txt).

**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 five months as new source data become available. (Revised estimates are denoted by the superscript "r" in tables.) For the first estimate of output for a given month, about 72 percent of the source data (in value-added terms) are available; the fraction of available source data increases to 86 percent for estimates in the second month that the estimate is published, 95 percent in the third month, 98 percent in the fourth month, 99 percent in the fifth month, and 99 percent in the sixth month. Data availability by data type in late 2008 is summarized in the table below:

**Availability of Monthly IP Data in Publication Window** (Percent of value added in 2008)

|                         | Month of estimate |     |     |     |     |     |  |  |  |  |  |
|-------------------------|-------------------|-----|-----|-----|-----|-----|--|--|--|--|--|
| Type of data            | 1st               | 2nd | 3rd | 4th | 5th | 6th |  |  |  |  |  |
| Physical product        | 30                | 44  | 54  | 56  | 57  | 57  |  |  |  |  |  |
| Production-worker hours | 42                | 42  | 42  | 42  | 42  | 42  |  |  |  |  |  |
| IP data received        | 72                | 86  | 95  | 98  | 99  | 99  |  |  |  |  |  |
| IP data estimated       | 28                | 14  | 5   | 2   | 1   | 1   |  |  |  |  |  |

The physical product group includes series based on either monthly or quarterly data. As can be seen in the first row of the table, in the first month, a physical product indicator is available for about half of the series (in terms of value added) that ultimately are based on physical product data (30 percent out of a total of 57 percent). Of the 30 percent, about two-thirds (19 percent of total IP) include series that are derived from weekly physical product data and for which actual monthly data may lag up to several months. On average, quarterly product data are received for the fourth estimate of industrial production. Specifically, quarterly data are available for the third estimate of the last month of a quarter, the fourth estimate of the second month of a quarter, and the fifth estimate of the first month of a quarter.

Seasonal adjustment. Individual series are seasonally adjusted using Census X-12 ARIMA. For series based on production-worker hours, the current seasonal factors were estimated with data through February 2009; for other series, the factors were estimated with data through at least September 2008. Series are pre-adjusted for the effects of holidays or business cycles when appropriate. For the data since 1972, 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 0.26 percent during the 1987–2008 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 1987–2008 period. In most cases (about 85 percent), the direction of the 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

Overview. The Federal Reserve Board constructs estimates of capacity and capacity utilization for industries in manufacturing, mining, and electric and gas utilities. For a given industry, the capacity utilization rate is equal to an output index (seasonally adjusted) divided by a capacity index. The Federal Reserve Board's capacity indexes attempt to capture the concept of *sustainable maximum output*—the greatest level of output a plant can maintain within the framework of a realistic work schedule, after factoring in normal downtime and assuming sufficient availability of inputs to operate the capital in place.

Coverage. Capacity indexes are constructed for 87 detailed industries (69 in manufacturing, 16 in mining, and 2 in utilities), which mostly correspond to industries at the three- and four-digit NAICS level. Estimates of capacity and utilization are available for a variety of groups, including durable and nondurable manufacturing, total manufacturing, mining, utilities, and total industry. Manufacturing consists of those industries included in the North American Industry Classification System (NAICS) definition of manufacturing *plus* those industries— newspaper, periodical, book, and directory publishing plus logging—that have traditionally been considered to be manufacturing. Also, special aggregates are available, such as high-technology industries and manufacturing excluding high-technology industries.

Source Data. The monthly rates of capacity utilization are designed to be consistent with both the monthly data on production and the periodically available data on capacity and utilization. Because there is no direct monthly information on overall industrial capacity or utilization rates, the Federal Reserve first estimates annual capacity indexes from the source data. Capacity data reported in physical units from government sources (primarily from the U.S. Geological Survey and the Department of Energy's Energy Information Administration) and trade sources are available for portions of several industries in manufacturing (e.g., paper, industrial chemicals, petroleum refining, motor vehicles), as well as for electric utilities and mining; these industries represent about 25 percent of total industrial capacity. When physical product data are unavailable for manufacturing industries, capacity indexes are based on responses to the Bureau of the Census's Quarterly Survey of Plant Capacity (QSPC); these industries account for a bit less than 70 percent of total industry capacity. In the absence of utilization data for a few mining and petroleum series, capacity is based on trends through peaks in production (roughly 5 percent of total industry capacity). A detailed description of the methodology used to construct the capacity indexes is available on the Board's web site (www.federalreserve.gov/releases/G17/CapNotes.htm).

Aggregation Methodology. Monthly capacity aggregates are calculated in three steps: (1) utilization aggregates are calculated on an annual basis through the most recent full year as capacity-weighted aggregates of individual utilization rates; (2) the annual aggregate capacity is derived from the corresponding production and utilization aggregates; (3) the monthly capacity aggregate is obtained by interpolating the annual capacity aggregate with a Fisher index of its constituent monthly capacity series. Utilization rates for the individual series and aggregates are calculated by dividing the pertinent monthly production index by the related capacity index.

**Consistency.** A major aim is that the Federal Reserve utilization rates be consistent over time so that, for example, a rate of 85 percent means about the same degree of tightness that it meant in the past. A

major task for the Federal Reserve in developing reasonable and consistent time series of capacity and utilization is dealing with inconsistencies between the movements of the industrial production index and the survey-based utilization rates. The McGraw-Hill/DRI Survey, now discontinued, was the primary source of manufacturing utilization rates for many years. This was a survey of large companies that reported, on average, higher utilization rates than those reported by establishments covered by the Census Bureau's annual Survey of Plant Capacity (the predecessor to the QSPC) for the fourteen years they overlapped. Adjustments have been made to keep the industry utilization rates currently reported by the Federal Reserve roughly in line with rates formerly reported by McGraw-Hill. As a consequence, the rates reported by the Federal Reserve tend to be higher than the rates reported in the QSPC.

**Perspective.** Over the 1972–2007 period, the average total industry utilization rate is 81.0 percent; for manufacturing, the average factory operating rate has been 79.7 percent. 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. The highs and lows in capacity utilization shown in table 7 are specific to each series and do not all occur in the same month.

#### REFERENCES AND RELEASE DATES

**References.** The release for the annual revision that was published on March 27, 2009 is available on the Board's website (www.federal reserve.gov/releases/g17/revisions/Current/DefaultRev.htm). A more detailed version is provided in the *Federal Reserve Bulletin*, vol. 95 (August 2009), pp. A125–A145. The annual revision published in March 2008 is described in an article published in the Federal Reserve Bulletin, vol. 94 (August 2008), pp. Â41-A60. A summary of the annual revision that incorporated back to 1972 production and capacity indexes reclassified according to the North American Industry Classification System is available in an article in the Federal Reserve Bulletin, vol. 89 (April 2003), pp. 151–176. 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. The Federal Reserve methodology for constructing industry-level measures of capital is detailed in "Capital Stock Estimates for Manufacturing Industries: Methods and Data" by Mike Mohr and Charles Gilbert (1996), which can be obtained at: www.federalreserve.gov/releases/g17/CapitalStockDocLatest.pdf.

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. 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, January 1996, February 1997, February 1998, January 1999, March 2000, March 2001, March 2002, April 2003, Winter 2004, Winter 2005, March 2006, May 2007, August 2008).

## Release Schedule

At 9:15 a.m. on

**2009**: January 16, February 18, March 16, April 15, May 15, June 16, July 15, August 14, September 16, October 16, November 17, and December 15.

**2010**: January 15, February 17, March 15, April 15, May 14, June 16, July 15, August 17, September 15, October 18, November 16, and December 15.