

**QUARTERLY INDEXES OF INDUSTRIAL PRODUCTION, AUSTRALIA
SEPTEMBER QUARTER 1994**

MAIN FEATURES

NOTE: This issue incorporates a number of revisions to historical data. The sources of these revisions are: (a) the benchmarking of indexes for the mining sector to the 1992-93 Mining Census; and (b) the annual sample revision to the survey on which the indexes for the manufacturing sector are based. The sample revision has had a significant impact on recent estimates of gross product for the Food, beverages and tobacco, Clothing and footwear and Paper, printing and publishing industries. See Explanatory Notes for more detail. Note also that recent trend estimates are provisional and could change when data for further quarters are available.

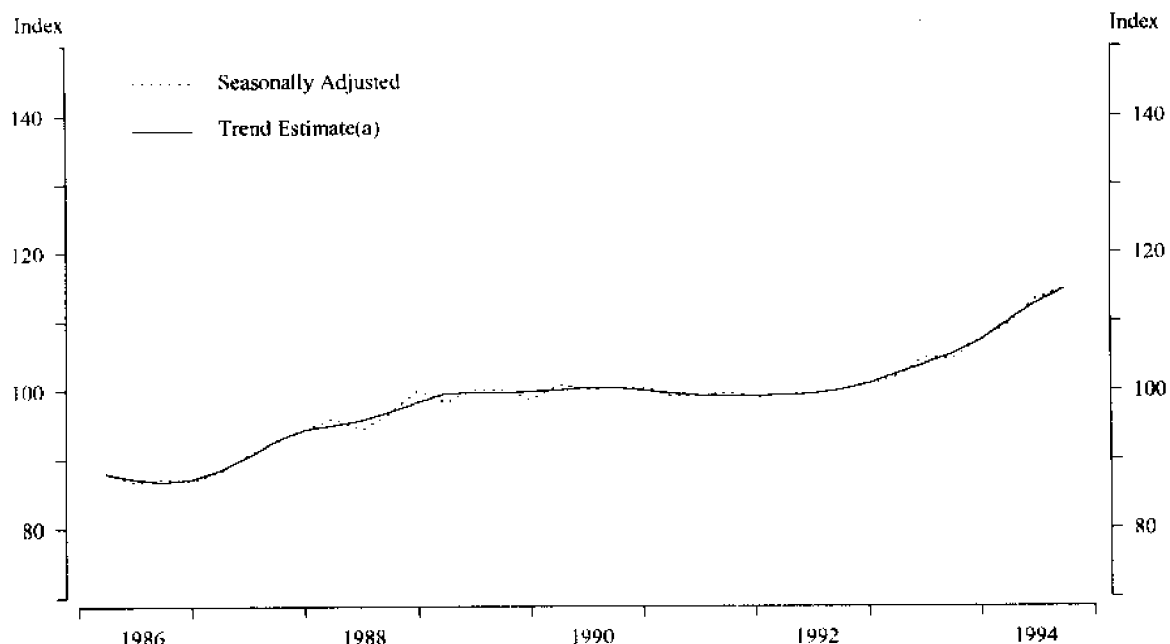
NEXT ISSUE: 15 MARCH 1995

Provisional trend estimates for the September quarter 1994 have the index of industrial production continuing to grow firmly following accelerating growth over the previous ten quarters. The trend in the index has now grown continuously since the December quarter 1991. The trend grew by 1.9 per cent in the September quarter 1994 following growth of 2.5 per cent in each of the last two quarters and is now 9.1 per cent above the September quarter 1993 estimate.

In the latest quarter one of the three component series, utilities, showed weak trend growth, while mining, and manufacturing (the major component), both grew strongly (up 2.4% and 2.1% respectively).

In seasonally adjusted terms a rise of 1.5 per cent in manufacturing was supported by rises of 2.0 per cent in utilities and 0.7 per cent in mining, to give 1.4 per cent growth for the industrial production index overall during the September quarter 1994. This follows rises of 3.3 per cent, 2.1 per cent and 2.8 per cent in the June 1994, March 1994 and December 1993 quarters respectively.

**INDEX OF INDUSTRIAL GROSS PRODUCT AT AVERAGE 1989-90 PRICES
(BASE: 1989-90 = 100.0)**



(a) See paragraphs 21 to 23 of the Explanatory Notes. Trend estimates for the most recent periods are provisional and could change when data for further quarters are available.

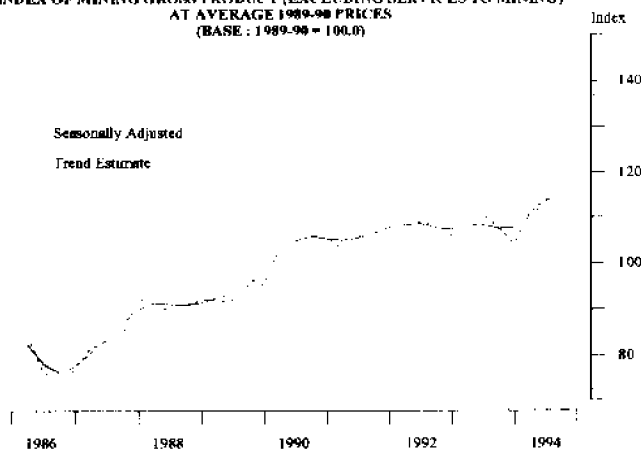
INQUIRIES

- for information about statistics in this publication and the availability of related unpublished statistics, contact Mr Mal Lawrie on Canberra (06) 252 7421 or any ABS State office.
- for information about other ABS statistics and services please contact Information Services on Canberra (06) 252 6627, 252 5402, 252 6007 or any ABS State Office.

SUMMARY OF FINDINGS

*Components of the industrial production index**(i) Mining*

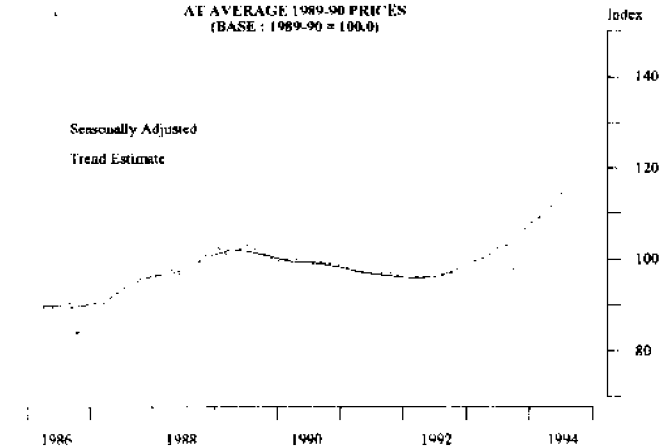
INDEX OF MINING GROSS PRODUCT (EXCLUDING SERVICES TO MINING)
AT AVERAGE 1989-90 PRICES
(BASE: 1989-90 = 100.0)



The provisional trend for the index of mining production showed strong growth over the last three quarters following generally slower steady growth since 1990. The trend grew by 2.4 per cent to a record level in the September quarter 1994, following rises of 3.0 per cent in the June quarter and 2.1 per cent in the March quarter, to be 7.8 per cent up on the September quarter 1993.

(ii) Manufacturing

INDEX OF MANUFACTURING GROSS PRODUCT
AT AVERAGE 1989-90 PRICES
(BASE: 1989-90 = 100.0)



The trend in the index of manufacturing production has now grown consistently for two and a half years, following three years of decline. Strong growth (up 2.1%) in the September quarter 1994 following equally strong growth (2.7%, 3.2%, 2.8% and 2.3% respectively) for the previous four quarters places the trend at record high levels, 11.2 per cent above that recorded in the September quarter 1993 and nearly 21 per cent up since the last trough in March quarter 1992.

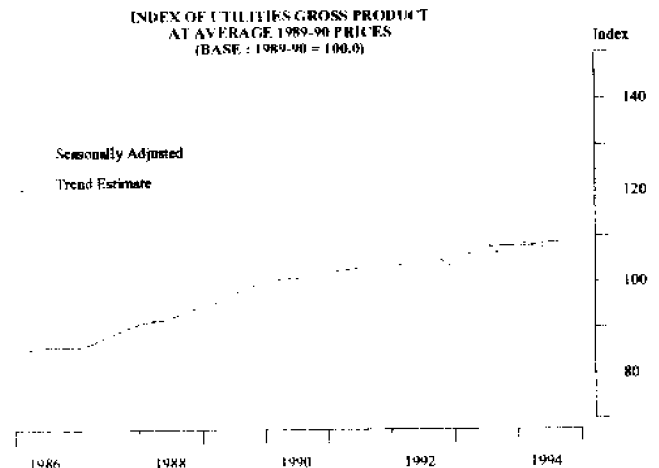
Nine of the twelve manufacturing subdivisions are showing trend growth, two are largely flat, while only clothing and footwear is showing a decline in trend production to the September quarter 1994. Recent movements in the estimates of trend for each manufacturing subdivision are summarized below -

- *Food, beverages and tobacco* production has risen continuously over the last three years to new record levels. The trend is up 9.8 per cent over the year to September quarter 1994 and 28.1 per cent above the September quarter 1991 estimate. Significant revisions have been made to recent quarters' trend estimates.
- Early signs of a turnaround in the trend in *Textiles* production continue with a strong rise over the latest two quarters from a trough in the March quarter. This followed a strong decline over the previous nine quarters.
- The trend in *Clothing and footwear* gross product has been significantly revised as a result of the introduction of a new sample for the source collection (see Explanatory Notes). The series, which had been showing strong growth, now shows a slight decline over the last two quarters.
- Production in the *Wood, wood products and furniture* subdivision has risen very strongly over the last three quarters to reach 19.2 per cent growth over the latest four quarters.

- The trend for the index of *Paper, printing and publishing* gross product has shown continuous strong growth over the latest six quarters to reach record levels, following a long slow decline between the March quarters 1989 and 1993. Since the September quarter 1993 the trend has risen by 23.3 per cent, the second strongest growth of all manufacturing subdivisions. Significant revisions to recent quarters are due to sample revisions (see Explanatory Notes).
- *Chemical, petroleum and coal products* trend production has grown slightly over the latest two quarters following stronger growth in the three previous quarters. The trend remains 6.5 per cent above the September quarter 1993 level.
- The production trend for the *Non-metallic mineral products* subdivision has shown continuous growth over the last three years, since the turning point in the September quarter 1991. Since the September quarter 1993 the trend has risen by 8.7 per cent.
- *Basic metal products* production continues the longer term moderate trend growth to record levels. The index has grown by 3.3 per cent over the last four quarters.
- The trend in the index of *Fabricated metal products* gross product has risen consistently over the last eight quarters following a long term decline over the previous three and a half years. The trend has grown by 5.9 per cent since September quarter 1993.
- Trend estimates for the index of *Transport equipment* gross product continue to show very strong growth, from the latest trough in mid 1992. The series has grown by 47.3 per cent since that trough and by 26.1 per cent over the last four quarters, the strongest growth of all manufacturing subdivisions.
- The trend in the *Other machinery and equipment* production index has flattened slightly over the last two quarters following three quarters of moderately strong growth to record levels. Since the September quarter 1993, trend production is up by 10.6 per cent.

- The *Miscellaneous manufacturing* trend has grown strongly over the last two years, but there are signs that the rate of growth has eased in the September quarter 1994. The trend remains 9.8 per cent above the September quarter 1993 estimate.

(iii) Electricity, gas and water



The provisional trend for the index of gross product for the Electricity, gas and water sector continues to display weak growth to the September quarter 1994. The trend rose by 0.3 per cent in the September quarter 1994, following similar growth in the previous two quarters and is now 0.8 per cent above the trend estimate for the September quarter 1993.

NOTE: Explanatory Notes are published at the back of this publication.

TABLE 1. INDEXES OF INDUSTRIAL GROSS PRODUCT AT AVERAGE 1989-90 PRICES — SEASONALLY ADJUSTED AND TREND ESTIMATES
Index numbers (Base : 1989-90 = 100.0)

| | Quarters ended | | | | | | | | | | | | | |
|---------------------------------------|----------------------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 1992-91 | | | 1991-92 | | | 1992-93 | | | 1993-94 | | | 1994-95 | |
| | June | Sept. | Dec. | June | Sept. | Dec. | June | Sept. | Dec. | June | Sept. | Dec. | June | Sept. |
| | <i>Seasonally adjusted</i> | | | | | | | | | | | | | |
| Mining (excluding services to mining) | 105.6 | 106.7 | 106.8 | 108.0 | 108.9 | 107.7 | 105.9 | 106.8 | 110.5 | 107.6 | 104.1 | 111.1 | 113.8 | 114.6 |
| Manufacturing | 96.8 | 97.1 | 95.9 | 96.2 | 96.2 | 97.0 | 99.2 | 100.0 | 102.3 | 103.5 | 107.9 | 109.8 | 114.4 | 116.1 |
| Electricity, gas and water | 102.3 | 103.2 | 103.6 | 103.4 | 103.7 | 105.3 | 103.1 | 106.3 | 108.8 | 105.6 | 109.0 | 107.6 | 107.4 | 109.6 |
| Total industrial production | 99.2 | 99.7 | 99.0 | 99.4 | 99.6 | 100.1 | 100.9 | 102.1 | 104.7 | 104.5 | 107.4 | 109.7 | 113.3 | 114.9 |
| | <i>Trend estimates</i> | | | | | | | | | | | | | |
| Mining (excluding services to mining) | 105.5 | 106.5 | 107.7 | 108.4 | 108.6 | 107.7 | 107.3 | 108.1 | 108.4 | 107.6 | 107.7 | 110.0 | 113.3 | 116.0 |
| Manufacturing | 96.9 | 96.5 | 96.1 | 95.9 | 96.2 | 97.1 | 98.6 | 100.0 | 101.8 | 104.1 | 107.0 | 110.4 | 113.4 | 115.8 |
| Electricity, gas and water | 103.0 | 103.2 | 103.5 | 103.9 | 104.1 | 104.2 | 105.0 | 106.1 | 107.3 | 107.9 | 107.8 | 108.0 | 108.5 | 108.8 |
| Total industrial production | 99.3 | 99.2 | 99.2 | 99.3 | 99.5 | 100.0 | 101.0 | 102.4 | 103.8 | 105.2 | 107.3 | 110.0 | 112.7 | 114.8 |

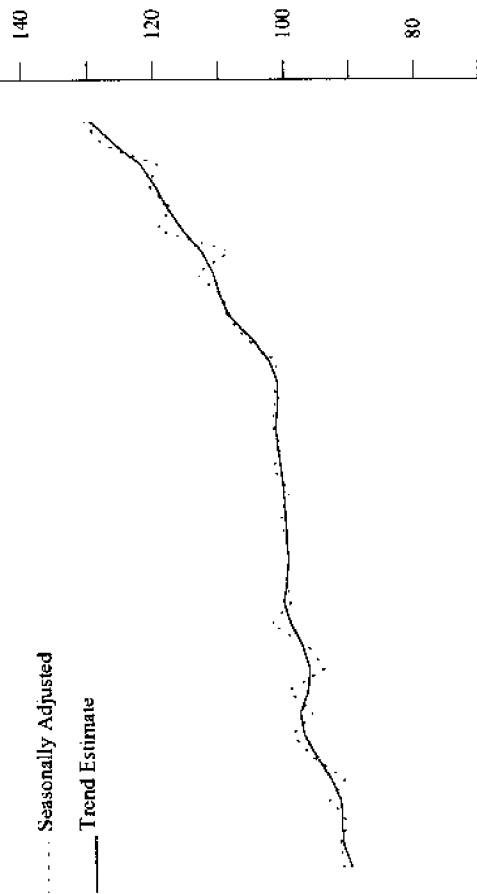
TABLE 2. PERCENTAGE CHANGES IN INDEXES OF INDUSTRIAL GROSS PRODUCT AT AVERAGE 1989-90 PRICES — SEASONALLY ADJUSTED AND TREND ESTIMATES

| | Change from preceding quarter | | | | | | | | | | | | | |
|---------------------------------------|-------------------------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------|------------|-------------|
| | 1991-92 | | | 1992-93 | | | 1993-94 | | | 1994-95 | | | 1994-95 | |
| | Sept. | Dec. | Mar. | June | Sept. | Dec. | Mar. | June | Sept. | Dec. | Mar. | June | Sept. | Sept. Qtr |
| | <i>Seasonally adjusted</i> | | | | | | | | | | | | | |
| Mining (excluding services to mining) | 1.0 | 0.1 | 1.1 | 0.8 | 1.1 | -1.7 | 0.8 | 3.5 | -2.6 | -3.3 | 6.7 | 2.4 | 0.7 | 6.5 |
| Manufacturing | 0.5 | -1.2 | 0.3 | --- | 0.8 | 2.3 | 0.8 | 2.3 | 1.2 | 4.3 | 1.8 | 4.2 | 1.5 | 12.2 |
| Electricity, gas and water | 0.9 | 0.4 | -0.2 | 0.3 | 1.5 | 2.1 | 3.1 | 2.4 | 2.9 | 3.2 | -1.3 | 0.2 | 2.0 | 3.8 |
| Total industrial production | 0.5 | 0.7 | 0.4 | 0.2 | 0.5 | 0.8 | 1.2 | 2.5 | -0.2 | 2.8 | 2.1 | 3.3 | 1.4 | 10.0 |
| | <i>Trend estimates</i> | | | | | | | | | | | | | |
| Mining (excluding services to mining) | 0.9 | 1.1 | 0.6 | 0.2 | 0.8 | -0.4 | 0.7 | 0.3 | 0.7 | 0.1 | 2.1 | 3.0 | 2.4 | 7.8 |
| Manufacturing | -0.4 | 0.4 | 0.2 | 0.3 | 0.9 | 1.5 | 1.4 | 1.8 | 2.3 | 2.8 | 3.2 | 2.7 | 2.1 | 11.2 |
| Electricity, gas and water | 0.2 | 0.3 | 0.4 | 0.2 | 0.1 | 0.8 | 1.0 | 1.1 | 0.6 | -0.1 | 0.2 | 0.5 | 0.3 | 0.8 |
| Total industrial production | -0.1 | — | 0.1 | 0.2 | 0.5 | 1.0 | 1.4 | 1.4 | 1.3 | 2.0 | 2.5 | 2.5 | 1.9 | 9.1 |

INDEXES OF MANUFACTURING GROSS PRODUCT AT AVERAGE 1989-90 PRICES
(BASE: 1989-90 = 100.0)

FOOD, BEVERAGES AND TOBACCO

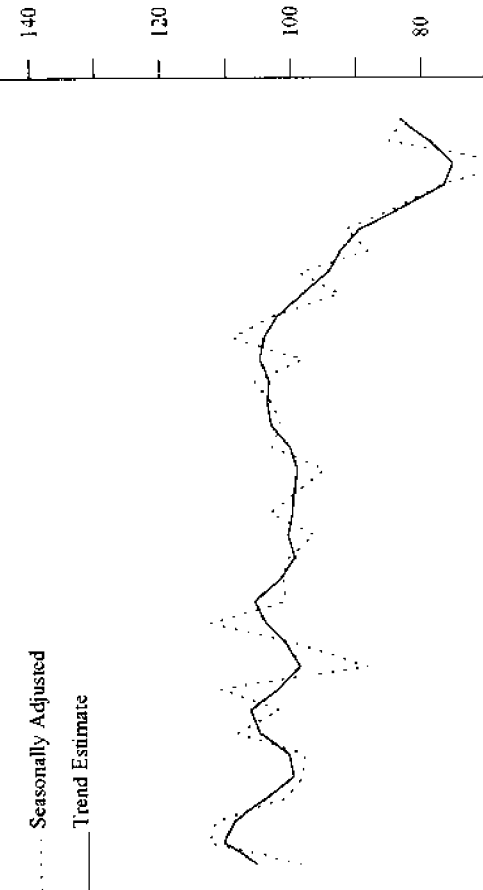
Index



..... Seasonally Adjusted
—— Trend Estimate

TEXTILES

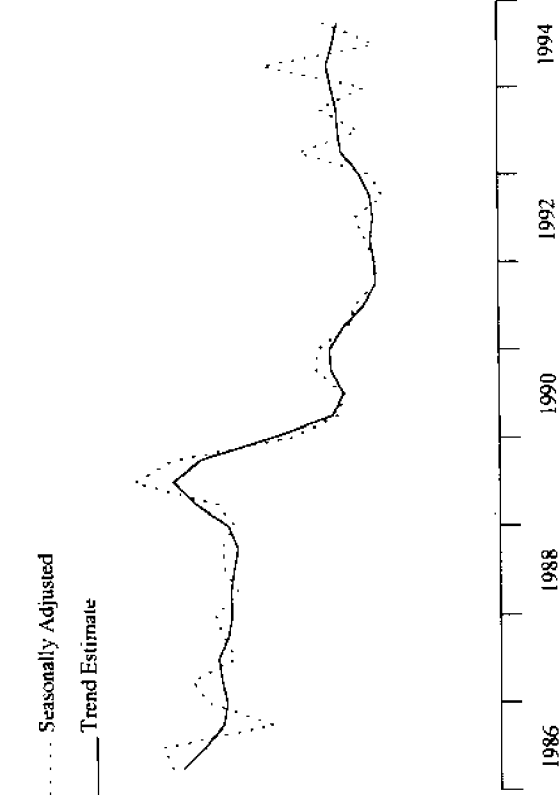
Index



..... Seasonally Adjusted
—— Trend Estimate

CLOTHING AND FOOTWEAR

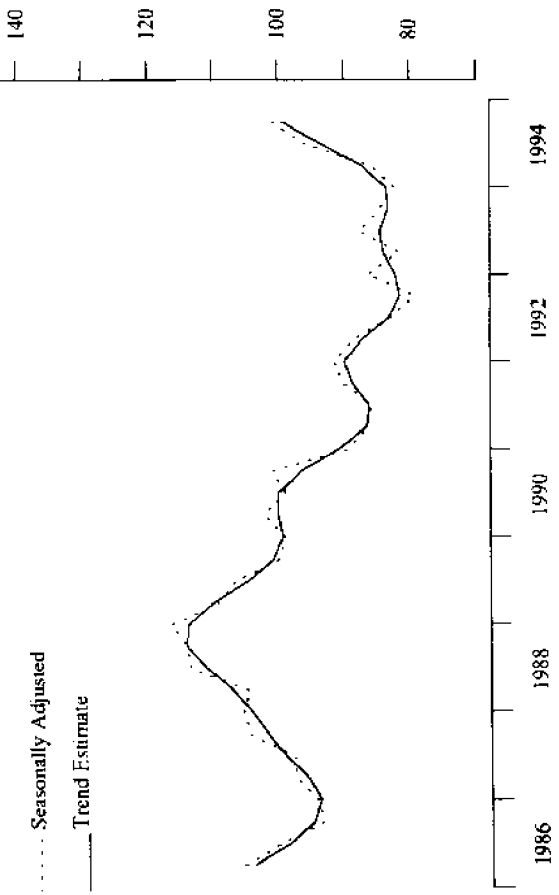
Index



..... Seasonally Adjusted
—— Trend Estimate

WOOD, WOOD PRODUCTS AND FURNITURE

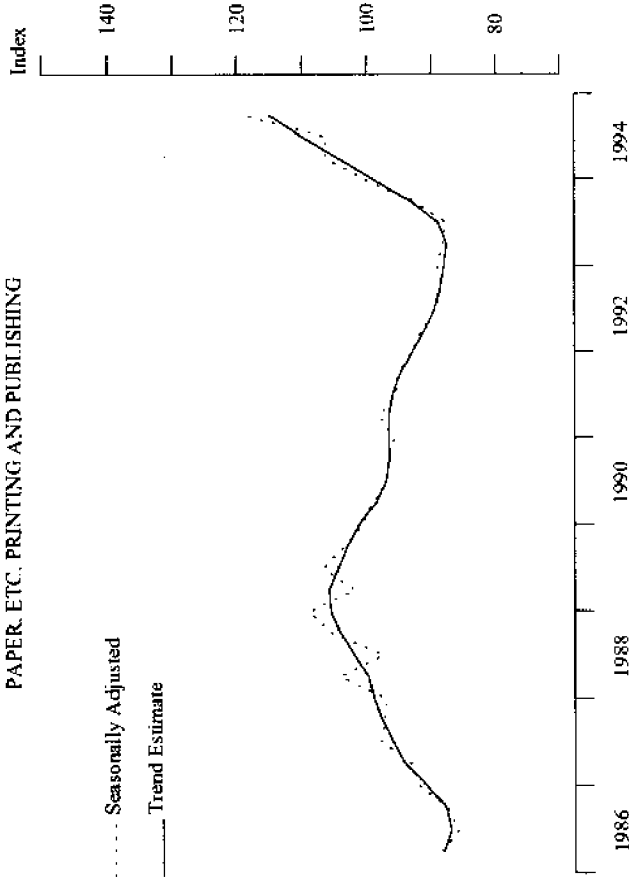
Index



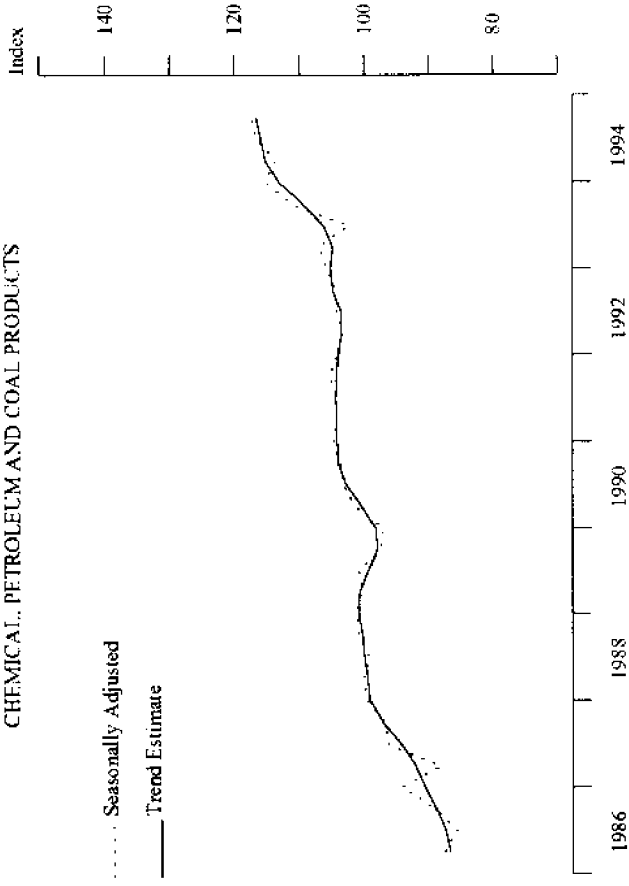
..... Seasonally Adjusted
—— Trend Estimate

INDEXES OF MANUFACTURING GROSS PRODUCT AT AVERAGE 1989-90 PRICES
(BASE: 1989-90 = 100.0)

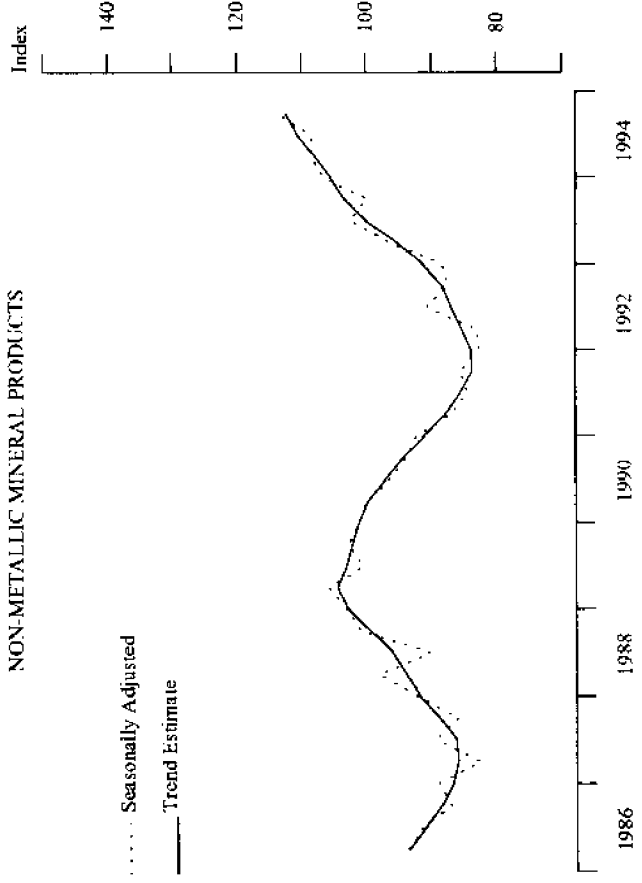
PAPER, ETC., PRINTING AND PUBLISHING



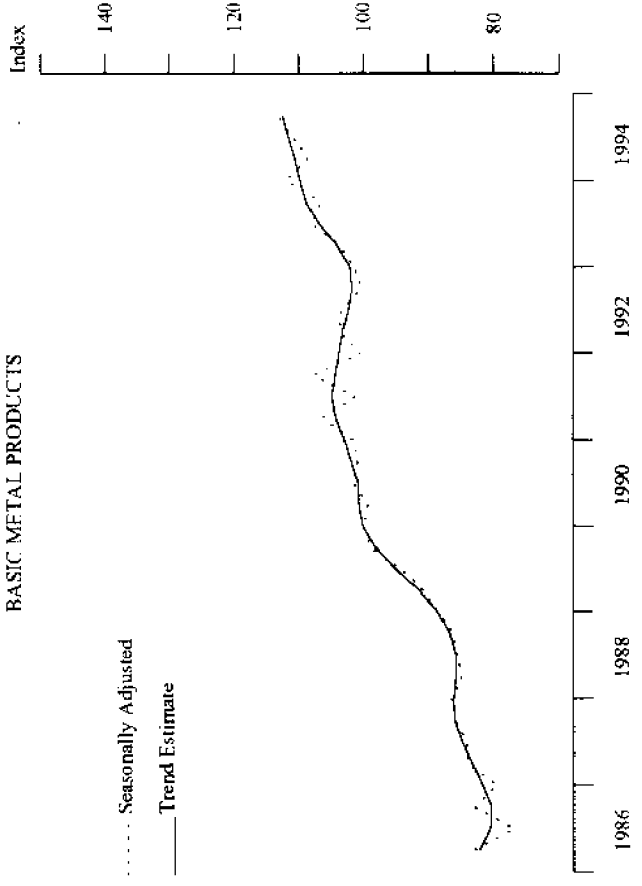
CHEMICAL, PETROLEUM AND COAL PRODUCTS



NON-METALLIC MINERAL PRODUCTS

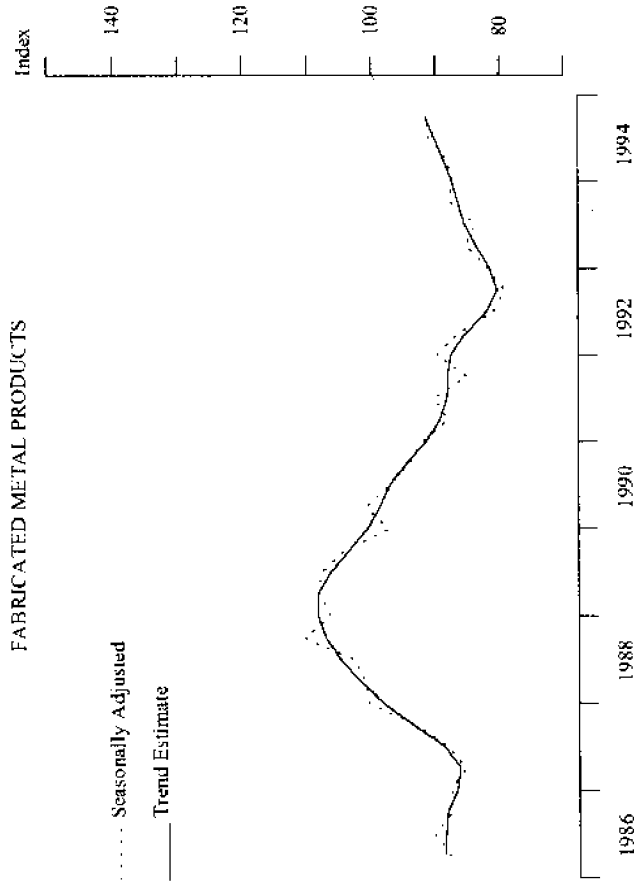


BASIC METAL PRODUCTS

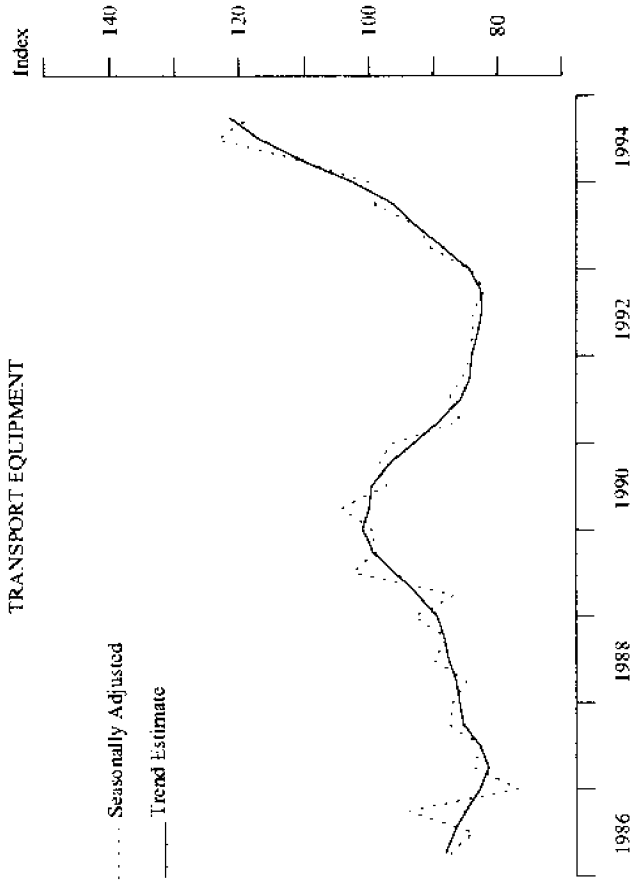


INDEXES OF MANUFACTURING GROSS PRODUCT AT AVERAGE 1989-90 PRICES
(BASE: 1989-90 = 100.0)

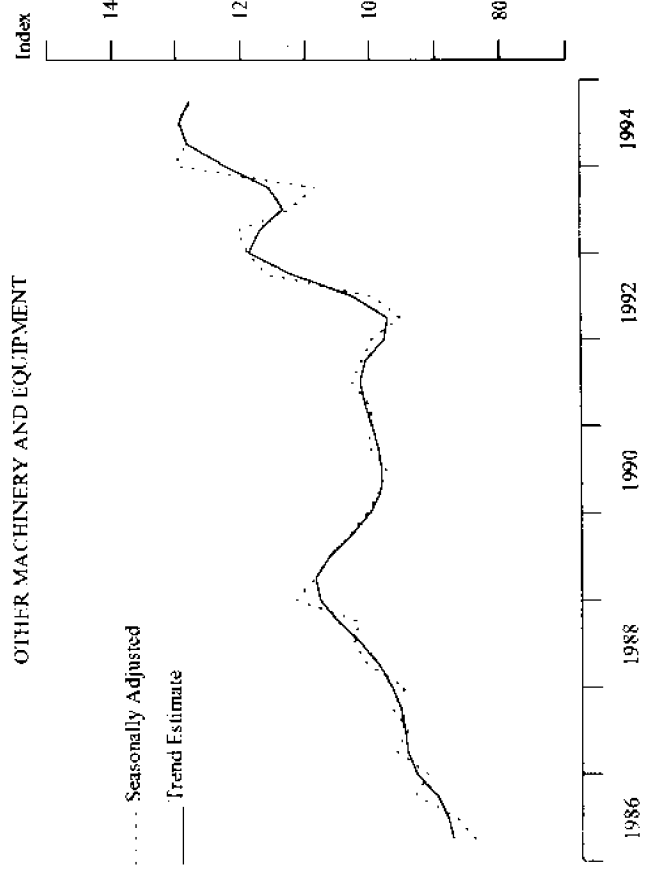
FABRICATED METAL PRODUCTS



TRANSPORT EQUIPMENT



OTHER MACHINERY AND EQUIPMENT



MISCELLANEOUS MANUFACTURING

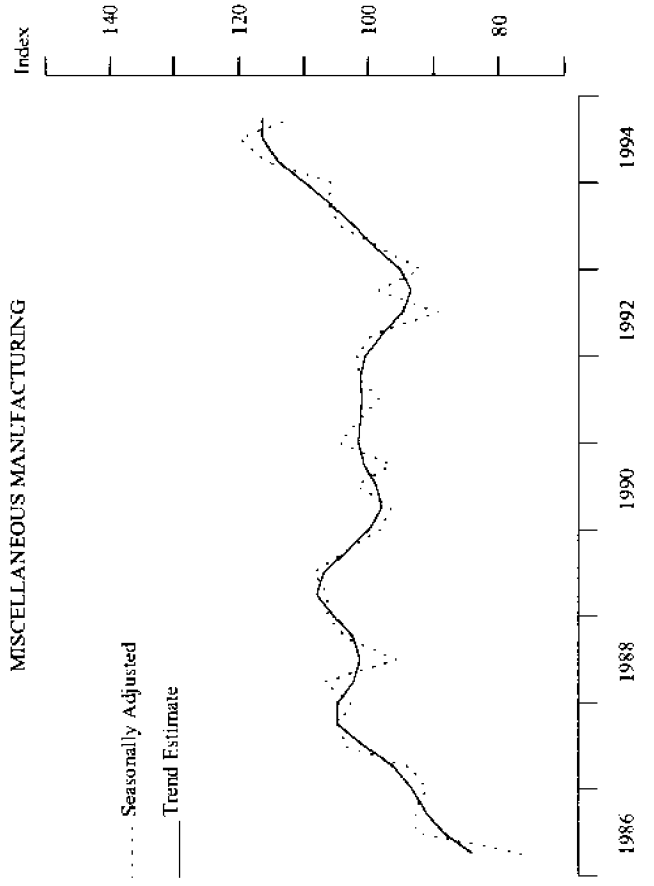


TABLE 3. INDEXES OF MANUFACTURING GROSS PRODUCT AT AVERAGE 1989-90 PRICES, BY SUBDIVISION — SEASONALLY ADJUSTED
Index numbers (Base: 1989-90 = 100.0)

| ASIC Sub- Divn. | Industry | Quarters ended | | | | | | | | | | | | | |
|-----------------------|---------------------------------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | 1990-91 | | | 1991-92 | | | 1992-93 | | | 1993-94 | | | 1994-95 | |
| | | June | Sept. | Dec. | Mar. | June | Sept. | Dec. | Mar. | June | Sept. | Dec. | Mar. | June | Sept. |
| 21 | Food, beverages and tobacco | 101.7 | 101.4 | 101.5 | 106.0 | 108.8 | 109.7 | 113.6 | 108.3 | 119.4 | 117.5 | 120.6 | 119.4 | 128.0 | 130.5 |
| 23 | Textiles | 103.2 | 105.8 | 98.3 | 109.1 | 103.2 | 92.7 | 98.9 | 88.2 | 91.8 | 83.6 | 76.7 | 66.3 | 84.9 | 82.9 |
| 24 | Clothing and footwear | 89.6 | 86.2 | 86.4 | 87.9 | 89.6 | 85.2 | 87.1 | 97.9 | 89.0 | 94.9 | 88.1 | 103.5 | 86.4 | 94.3 |
| 25 | Wood, wood products and furniture | 85.8 | 90.2 | 91.5 | 88.4 | 82.9 | 79.2 | 86.3 | 81.6 | 87.5 | 84.5 | 82.4 | 85.8 | 96.1 | 100.9 |
| 26 | Paper, etc, printing and publishing | 95.6 | 95.1 | 93.1 | 91.5 | 89.4 | 88.4 | 89.0 | 88.1 | 87.7 | 92.8 | 100.2 | 106.3 | 106.1 | 118.7 |
| 27 | Chemical, petroleum and coal products | 104.2 | 105.4 | 104.2 | 103.4 | 104.3 | 104.5 | 105.9 | 107.0 | 102.4 | 111.3 | 115.3 | 113.7 | 116.7 | 117.4 |
| 28 | Non-metallic mineral products | 84.4 | 85.5 | 82.7 | 83.0 | 90.6 | 87.4 | 88.4 | 96.5 | 102.5 | 99.9 | 106.8 | 108.5 | 108.6 | 113.8 |
| 29 | Basic metal products | 101.4 | 107.8 | 100.6 | 103.6 | 103.4 | 100.4 | 101.6 | 103.6 | 108.0 | 106.7 | 111.9 | 108.6 | 110.9 | 113.4 |
| 31 | Fabricated metal products | 90.3 | 85.1 | 89.9 | 86.4 | 80.9 | 79.3 | 81.8 | 85.3 | 83.9 | 87.5 | 87.4 | 88.1 | 91.0 | 91.4 |
| 32 | Transport equipment | 87.6 | 85.4 | 84.2 | 83.9 | 84.0 | 82.1 | 84.3 | 90.5 | 92.5 | 99.1 | 100.0 | 110.1 | 123.3 | 118.5 |
| 33 | Other machinery and equipment | 102.9 | 101.3 | 99.8 | 95.4 | 99.8 | 115.9 | 119.0 | 120.5 | 112.2 | 108.5 | 130.0 | 128.3 | 129.6 | 127.6 |
| 34 | Miscellaneous manufacturing | 98.4 | 101.5 | 101.8 | 99.4 | 89.3 | 98.4 | 92.0 | 98.3 | 104.5 | 106.1 | 105.7 | 115.8 | 119.9 | 111.6 |
| | Total manufacturing | 96.8 | 97.1 | 95.9 | 96.2 | 96.2 | 97.0 | 99.2 | 100.0 | 102.3 | 103.5 | 107.9 | 109.8 | 114.4 | 116.1 |

TABLE 4. PERCENTAGE CHANGES IN INDEXES OF MANUFACTURING GROSS PRODUCT AT AVERAGE 1989-90 PRICES, BY SUBDIVISION — SEASONALLY ADJUSTED

| ASIC Sub- Divn. | Industry | Change from preceding quarter | | | | | | | | | | | | | |
|-----------------------|---------------------------------------|-------------------------------|-------------|------------|----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| | | 1991-92 | | | 1992-93 | | | 1993-94 | | | 1994-95 | | | | |
| | | Sept. | Dec. | Mar. | June | Sept. | Dec. | Mar. | June | Sept. | Dec. | Mar. | June | Sept. | |
| 21 | Food, beverages and tobacco | -0.3 | 0.1 | 4.4 | 2.6 | 0.8 | 3.6 | 4.7 | 10.2 | 1.6 | 2.6 | -1.0 | 7.2 | 2.0 | 11.1 |
| 23 | Textiles | 2.5 | -7.1 | 11.0 | -5.4 | 10.2 | 6.7 | 10.8 | 4.1 | 8.9 | -8.3 | -13.6 | 28.1 | -2.4 | -0.8 |
| 24 | Clothing and footwear | -3.8 | 0.2 | 1.7 | 1.9 | -4.9 | 2.2 | 12.4 | -9.1 | 6.6 | 7.2 | 17.5 | 16.5 | 9.1 | -0.6 |
| 25 | Wood, wood products and furniture | 5.1 | 1.4 | 3.4 | -6.2 | -4.5 | 9.0 | -5.4 | 7.2 | -3.4 | 2.5 | 4.1 | 12.0 | 5.0 | 19.4 |
| 26 | Paper, etc, printing and publishing | 0.5 | -2.1 | -1.7 | -2.3 | -1.1 | 0.7 | -1.0 | 0.5 | 5.8 | 8.0 | 6.1 | -0.2 | 11.9 | 27.9 |
| 27 | Chemical, petroleum and coal products | 1.2 | -1.1 | -0.8 | 0.9 | 0.2 | 1.3 | 1.0 | 4.3 | 8.7 | 3.6 | -1.4 | 2.6 | 0.6 | 5.5 |
| 28 | Non-metallic mineral products | 1.3 | 3.3 | 0.4 | 9.2 | -3.5 | 1.1 | 9.2 | 6.2 | -2.5 | 6.9 | 1.6 | 0.1 | 4.8 | 13.9 |
| 29 | Basic metal products | 6.3 | 6.7 | 3.0 | -0.2 | -2.9 | 1.2 | 2.0 | 4.2 | -1.2 | 4.9 | -2.9 | 2.1 | 2.3 | 6.3 |
| 31 | Fabricated metal products | -5.8 | 5.6 | -3.9 | -6.4 | 2.0 | 3.2 | 4.3 | 1.6 | 4.3 | -0.1 | 0.8 | 3.3 | 0.4 | 4.5 |
| 32 | Transport equipment | -2.5 | -1.4 | -0.4 | 0.1 | 2.3 | 2.7 | 7.4 | 2.2 | 7.1 | 0.9 | 10.1 | 12.0 | 3.9 | 19.6 |
| 33 | Other machinery and equipment | 1.6 | -1.5 | -4.4 | 4.6 | 16.1 | 2.7 | 1.3 | -6.9 | -3.3 | 19.8 | -1.3 | 1.0 | -1.5 | 17.6 |
| 34 | Miscellaneous manufacturing | 3.2 | 0.3 | -2.4 | -10.2 | 10.2 | -6.5 | 6.8 | 6.3 | 1.5 | -0.4 | 9.6 | 3.5 | -6.9 | 5.2 |
| | Total manufacturing | 0.3 | -1.2 | 0.3 | — | 0.8 | 2.3 | 0.8 | 2.3 | 1.2 | 4.3 | 1.8 | 4.2 | 1.5 | 12.2 |

TABLE 5. INDEXES OF MANUFACTURING GROSS PRODUCT AT AVERAGE 1989-90 PRICES, BY SUBDIVISION — TREND ESTIMATES
Index numbers (Base : 1989-90 = 100.0)

| ASIC Sub- Divn. | Industry | Quarters ended | | | | | | | | | | | | | |
|-----------------------|---------------------------------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | 1990-91 | | | 1991-92 | | | 1992-93 | | | 1993-94 | | | 1994-95 | |
| | | June | Sept. | Dec. | June | Sept. | Dec. | June | Sept. | Dec. | June | Sept. | June | Sept. | |
| 21 | Food, beverages and tobacco | 101.2 | 101.2 | 102.5 | 105.1 | 108.4 | 110.0 | 111.0 | 112.8 | 115.7 | 118.0 | 119.7 | 123.0 | 126.0 | 129.6 |
| 23 | Textiles | 103.9 | 103.6 | 104.9 | 104.3 | 102.3 | 98.4 | 94.4 | 92.5 | 89.5 | 82.6 | 76.4 | 75.1 | 78.7 | 83.3 |
| 24 | Clothing and footwear | 88.2 | 86.3 | 86.5 | 87.1 | 86.7 | 87.1 | 88.8 | 91.5 | 92.0 | 92.2 | 93.0 | 93.7 | 92.8 | 92.0 |
| 25 | Wood, wood products and furniture | 86.1 | 88.8 | 89.9 | 87.1 | 83.2 | 81.4 | 82.2 | 84.0 | 84.5 | 83.3 | 83.6 | 87.2 | 93.5 | 99.3 |
| 26 | Paper, etc, printing and publishing | 96.1 | 94.8 | 93.0 | 91.1 | 89.5 | 88.6 | 88.0 | 87.6 | 88.9 | 93.3 | 99.0 | 104.5 | 109.9 | 115.0 |
| 27 | Chemical, petroleum and coal products | 104.5 | 104.4 | 104.1 | 103.7 | 103.7 | 104.9 | 105.2 | 104.9 | 106.3 | 109.6 | 113.2 | 115.3 | 116.0 | 116.7 |
| 28 | Non-metallic mineral products | 85.5 | 83.7 | 83.8 | 85.3 | 86.9 | 88.4 | 91.3 | 95.4 | 100.1 | 103.4 | 105.5 | 108.0 | 110.6 | 112.4 |
| 29 | Basic metal products | 104.9 | 104.4 | 103.8 | 103.3 | 102.4 | 101.9 | 102.2 | 104.1 | 106.9 | 108.9 | 109.8 | 110.6 | 111.6 | 112.5 |
| 31 | Fabricated metal products | 88.2 | 88.1 | 87.6 | 85.3 | 82.0 | 80.3 | 81.5 | 83.7 | 85.4 | 86.4 | 87.4 | 88.8 | 90.2 | 91.5 |
| 32 | Transport equipment | 85.7 | 84.4 | 84.1 | 83.2 | 82.4 | 82.6 | 84.5 | 88.5 | 92.7 | 96.3 | 102.4 | 110.1 | 116.9 | 121.4 |
| 33 | Other machinery and equipment | 101.6 | 100.8 | 97.9 | 97.4 | 102.8 | 112.1 | 118.7 | 117.0 | 113.5 | 115.6 | 122.5 | 128.2 | 129.4 | 127.9 |
| 34 | Miscellaneous manufacturing | 101.0 | 101.3 | 100.5 | 97.9 | 94.8 | 93.5 | 95.2 | 99.0 | 102.3 | 105.9 | 109.9 | 114.0 | 116.3 | 116.3 |
| | Total manufacturing | 96.9 | 96.5 | 96.1 | 95.9 | 96.2 | 97.1 | 98.6 | 100.0 | 101.8 | 104.1 | 107.0 | 110.4 | 113.4 | 115.8 |

TABLE 6. PERCENTAGE CHANGES IN INDEXES OF MANUFACTURING GROSS PRODUCT AT AVERAGE 1989-90 PRICES
BY SUBDIVISION — TREND ESTIMATES

| ASIC Sub- Divn. | Industry | Change from preceding quarter | | | | | | | | | | | | Sept. Qtr 1993 | Sept. Qtr 1994 |
|-----------------------|---------------------------------------|-------------------------------|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------------|-------------------|
| | | 1991-92 | | | 1992-93 | | | 1993-94 | | | 1994-95 | | | | |
| | | Sept. | Dec. | Mar. | Sept. | Dec. | Mar. | Sept. | Dec. | Mar. | Sept. | Dec. | Mar. | | |
| 21 | Food, beverages and tobacco | — | 1.3 | 2.5 | 3.1 | 1.5 | 0.9 | 1.6 | 2.6 | 2.0 | 1.4 | 1.9 | 3.3 | 2.9 | 9.8 |
| 23 | Textiles | 0.3 | 1.3 | -0.6 | 1.9 | 3.8 | 4.1 | -2.0 | -3.2 | 7.7 | 7.5 | 1.7 | 4.8 | 5.8 | 0.8 |
| 24 | Clothing and footwear | 2.2 | 0.2 | 0.7 | 0.5 | 0.5 | 2.0 | 3.0 | 0.5 | 0.2 | 0.9 | 0.8 | 1.0 | 0.9 | 0.2 |
| 25 | Wood, wood products and furniture | 3.1 | 1.2 | -3.1 | -4.5 | -2.2 | 1.0 | 2.2 | 0.6 | -1.4 | 0.4 | 4.3 | 7.2 | 6.2 | 19.2 |
| 26 | Paper, etc, printing and publishing | -1.4 | 1.9 | -2.0 | -1.8 | -1.0 | -0.7 | 0.5 | 1.5 | 4.9 | 6.1 | 5.6 | 5.2 | 4.6 | 23.3 |
| 27 | Chemical, petroleum and coal products | -0.1 | -0.3 | -0.4 | — | 1.2 | 0.3 | -0.3 | 1.3 | 3.1 | 3.3 | 1.9 | 0.6 | 0.6 | 6.5 |
| 28 | Non-metallic mineral products | -2.1 | 0.1 | 1.8 | 1.9 | 1.7 | 3.3 | 4.5 | 4.9 | 3.3 | 2.0 | 2.4 | 2.4 | 1.6 | 8.7 |
| 29 | Basic metal products | 0.5 | -0.6 | -0.5 | 0.9 | 0.5 | 0.3 | 1.9 | 2.7 | 1.9 | 0.8 | 0.7 | 0.9 | 0.8 | 3.3 |
| 31 | Fabricated metal products | 0.1 | -0.6 | -2.6 | 3.9 | 2.1 | 1.5 | 2.7 | 2.0 | 1.2 | 1.2 | 1.6 | 1.6 | 1.4 | 5.9 |
| 32 | Transport equipment | 1.5 | 0.4 | -1.1 | -1.0 | 0.2 | 2.3 | 4.7 | 4.7 | 3.9 | 6.3 | 7.5 | 6.2 | 3.8 | 26.1 |
| 33 | Other machinery and equipment | 0.8 | 2.9 | 0.5 | 5.5 | 9.0 | 5.9 | 1.4 | 3.0 | 1.9 | 6.0 | 4.7 | 0.9 | 1.2 | 10.6 |
| 34 | Miscellaneous manufacturing | 0.3 | -0.8 | -2.6 | -3.2 | -1.4 | 1.8 | 4.0 | 3.3 | 3.5 | 3.8 | 3.7 | 2.0 | — | 9.8 |
| | Total manufacturing | -0.4 | -0.4 | -0.2 | 0.3 | 0.9 | 1.5 | 1.4 | 1.8 | 2.3 | 2.8 | 3.2 | 2.7 | 2.1 | 11.2 |

TABLE 7. INDEXES OF INDUSTRIAL GROSS PRODUCT AT AVERAGE 1989-90 PRICES,
BY INDUSTRY — ORIGINAL

| | Index numbers (Base : 1989-90 = 100.0) | | | |
|-----------------|--|----------------------|---|--------------|
| | <i>Mining excluding Services to mining</i> | <i>Manufacturing</i> | <i>Electricity, gas and water</i> | <i>Total</i> |
| 1976-77 | 56.8 | 79.9 | 57.2 | 71.6 |
| 1977-78 | 58.2 | 79.5 | 58.0 | 71.9 |
| 1978-79 | 59.7 | 82.9 | 61.1 | 74.8 |
| 1979-80 | 58.4 | 86.4 | 65.3 | 77.1 |
| 1980-81 | 59.5 | 88.2 | 68.2 | 78.8 |
| 1981-82 | 59.0 | 90.4 | 71.8 | 80.5 |
| 1982-83 | 61.3 | 82.9 | 73.8 | 76.9 |
| 1983-84 | 65.8 | 84.2 | 76.8 | 79.3 |
| 1984-85 | 74.3 | 88.5 | 81.6 | 85.0 |
| 1985-86 | 82.9 | 90.1 | 84.7 | 88.0 |
| 1986-87 | 79.2 | 91.1 | 86.4 | 88.3 |
| 1987-88 | 89.3 | 96.5 | 90.8 | 94.4 |
| 1988-89 | 91.7 | 101.5 | 95.2 | 98.9 |
| 1989-90 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1990-91 | 105.0 | 98.1 | 102.0 | 99.9 |
| 1991-92 | 107.6 | 96.4 | 103.5 | 99.5 |
| 1992-93 | 107.8 | 99.6 | 105.8 | 102.0 |
| 1993-94 | 109.2 | 108.9 | 107.3 | 108.7 |
| 1978-79 — Sept. | 60.4 | 83.2 | 62.1 | 75.3 |
| Dec. | 60.1 | 86.6 | 58.9 | 76.9 |
| Mar. | 57.3 | 77.7 | 60.9 | 70.9 |
| June | 60.9 | 83.9 | 62.3 | 75.9 |
| 1979-80 — Sept. | 63.1 | 88.7 | 66.9 | 80.0 |
| Dec. | 62.4 | 90.2 | 64.1 | 80.3 |
| Mar. | 53.9 | 81.4 | 64.6 | 72.7 |
| June | 54.3 | 85.3 | 65.4 | 75.3 |
| 1980-81 — Sept. | 60.4 | 89.0 | 69.6 | 79.8 |
| Dec. | 59.4 | 93.2 | 67.6 | 81.7 |
| Mar. | 59.7 | 82.3 | 66.6 | 75.1 |
| June | 58.5 | 88.2 | 68.8 | 78.7 |
| 1981-82 — Sept. | 56.9 | 92.8 | 73.7 | 81.6 |
| Dec. | 60.6 | 95.2 | 69.4 | 83.5 |
| Mar. | 55.7 | 83.2 | 70.3 | 75.1 |
| June | 62.7 | 90.2 | 73.6 | 81.7 |
| 1982-83 — Sept. | 61.2 | 91.2 | 77.1 | 82.3 |
| Dec. | 62.7 | 84.8 | 73.2 | 78.3 |
| Mar. | 58.3 | 73.4 | 71.3 | 70.0 |
| June | 63.0 | 82.3 | 73.6 | 77.0 |
| 1983-84 — Sept. | 64.9 | 84.9 | 78.0 | 79.7 |
| Dec. | 64.4 | 87.1 | 75.2 | 80.4 |
| Mar. | 65.2 | 79.4 | 75.6 | 76.1 |
| June | 68.7 | 85.4 | 78.3 | 81.0 |
| 1984-85 — Sept. | 74.2 | 91.4 | 84.3 | 87.3 |
| Dec. | 73.0 | 90.1 | 80.5 | 85.7 |
| Mar. | 70.8 | 82.3 | 80.0 | 79.9 |
| June | 79.3 | 90.0 | 81.6 | 86.9 |
| 1985-86 — Sept. | 90.6 | 92.6 | 87.0 | 91.4 |
| Dec. | 84.6 | 94.9 | 81.7 | 91.2 |
| Mar. | 81.5 | 83.8 | 83.9 | 83.4 |
| June | 75.0 | 88.9 | 86.0 | 86.0 |
| 1986-87 — Sept. | 78.3 | 93.3 | 89.3 | 90.0 |
| Dec. | 77.9 | 93.4 | 83.4 | 89.2 |
| Mar. | 78.8 | 84.9 | 85.4 | 83.9 |
| June | 81.7 | 92.7 | 87.5 | 90.0 |
| 1987-88 — Sept. | 87.5 | 98.3 | 93.0 | 95.6 |
| Dec. | 93.1 | 99.7 | 89.7 | 97.1 |
| Mar. | 88.7 | 92.3 | 90.1 | 91.3 |
| June | 87.8 | 95.7 | 90.5 | 93.5 |
| 1988-89 — Sept. | 94.3 | 101.9 | 96.2 | 99.7 |
| Dec. | 92.9 | 106.9 | 95.2 | 102.7 |
| Mar. | 88.9 | 94.7 | 93.4 | 93.5 |
| June | 90.5 | 102.6 | 95.8 | 99.5 |
| 1989-90 — Sept. | 100.8 | 103.6 | 103.3 | 103.0 |
| Dec. | 96.1 | 103.5 | 98.6 | 101.5 |
| Mar. | 99.6 | 94.7 | 98.5 | 96.1 |
| June | 103.6 | 98.2 | 99.6 | 99.4 |
| 1990-91 — Sept. | 109.1 | 101.6 | 104.5 | 103.3 |
| Dec. | 107.0 | 102.4 | 101.7 | 103.1 |
| Mar. | 99.8 | 92.4 | 100.6 | 94.9 |
| June | 104.2 | 96.1 | 101.0 | 98.3 |
| 1991-92 — Sept. | 110.7 | 99.1 | 107.2 | 102.4 |
| Dec. | 107.8 | 99.5 | 102.7 | 101.5 |
| Mar. | 104.4 | 91.4 | 101.3 | 95.2 |
| June | 107.6 | 95.5 | 102.6 | 98.7 |
| 1992-93 — Sept. | 111.8 | 98.9 | 109.5 | 102.8 |
| Dec. | 106.7 | 102.8 | 101.8 | 103.4 |
| Mar. | 103.2 | 95.2 | 104.2 | 97.9 |
| June | 109.3 | 101.4 | 107.6 | 103.7 |
| 1993-94 — Sept. | 111.7 | 105.5 | 109.8 | 107.3 |
| Dec. | 104.8 | 111.8 | 107.7 | 110.0 |
| Mar. | 107.4 | 104.6 | 105.4 | 105.2 |
| June | 112.7 | 113.5 | 106.3 | 112.4 |
| 1994-95 — Sept. | 119.0 | 118.5 | 114.0 | 117.9 |

TABLE 8. INDEXES OF INDUSTRIAL GROSS PRODUCT AT AVERAGE 1989-90 PRICES,
BY INDUSTRY — SEASONALLY ADJUSTED AND TREND ESTIMATES
Index numbers (Base : 1989-90 = 100.0)

| | <i>Seasonally adjusted</i> | | | | <i>Trend estimates</i> | | | |
|-----------|--|----------------------|---|--------------|--|----------------------|---|--------------|
| | <i>Mining excluding Services to mining</i> | <i>Manufacturing</i> | <i>Electricity, gas and water</i> | <i>Total</i> | <i>Mining excluding Services to mining</i> | <i>Manufacturing</i> | <i>Electricity, gas and water</i> | <i>Total</i> |
| 1978-79 — | | | | | | | | |
| Sept. | 59.4 | 81.0 | 59.4 | 73.4 | 58.6 | 81.5 | 59.2 | 73.3 |
| Dec. | 58.8 | 82.2 | 59.9 | 73.9 | 58.7 | 82.5 | 60.5 | 74.2 |
| Mar. | 59.4 | 83.7 | 62.2 | 75.3 | 59.4 | 83.6 | 61.6 | 75.2 |
| June | 60.9 | 84.4 | 62.8 | 76.3 | 60.6 | 84.8 | 62.9 | 76.5 |
| 1979-80 — | | | | | | | | |
| Sept. | 61.9 | 86.3 | 64.1 | 77.9 | 61.1 | 85.9 | 64.1 | 77.4 |
| Dec. | 61.0 | 85.7 | 65.1 | 77.4 | 59.2 | 86.7 | 65.1 | 77.4 |
| Mar. | 55.9 | 87.9 | 66.0 | 77.3 | 56.7 | 86.7 | 65.7 | 76.8 |
| June | 54.4 | 85.7 | 65.9 | 75.7 | 55.6 | 86.6 | 66.3 | 76.5 |
| 1980-81 — | | | | | | | | |
| Sept. | 59.1 | 86.3 | 66.9 | 77.4 | 57.0 | 87.1 | 67.1 | 77.3 |
| Dec. | 58.3 | 88.8 | 68.5 | 78.9 | 59.2 | 88.0 | 67.9 | 78.6 |
| Mar. | 61.8 | 88.9 | 68.3 | 79.9 | 59.5 | 88.9 | 68.6 | 79.3 |
| June | 58.8 | 88.6 | 69.1 | 79.0 | 58.4 | 89.4 | 69.3 | 79.3 |
| 1981-82 — | | | | | | | | |
| Sept. | 55.6 | 89.7 | 70.6 | 79.0 | 57.2 | 89.9 | 70.0 | 79.4 |
| Dec. | 59.5 | 90.9 | 70.5 | 80.9 | 57.5 | 90.6 | 71.1 | 80.1 |
| Mar. | 57.8 | 90.1 | 72.3 | 80.0 | 59.2 | 91.0 | 72.4 | 81.0 |
| June | 63.2 | 90.3 | 74.0 | 81.9 | 60.4 | 89.9 | 73.5 | 80.9 |
| 1982-83 — | | | | | | | | |
| Sept. | 59.7 | 88.1 | 74.1 | 79.6 | 60.5 | 86.6 | 74.1 | 78.9 |
| Dec. | 61.3 | 81.1 | 74.1 | 75.9 | 60.5 | 82.8 | 73.8 | 76.6 |
| Mar. | 60.3 | 79.4 | 73.0 | 74.4 | 61.0 | 80.7 | 73.5 | 75.4 |
| June | 63.6 | 82.3 | 73.9 | 77.2 | 62.0 | 81.0 | 73.9 | 75.9 |
| 1983-84 — | | | | | | | | |
| Sept. | 63.3 | 82.0 | 75.0 | 77.1 | 62.7 | 82.6 | 74.9 | 77.3 |
| Dec. | 63.1 | 83.6 | 76.4 | 78.2 | 64.1 | 84.0 | 76.2 | 79.6 |
| Mar. | 67.3 | 85.7 | 77.5 | 80.8 | 66.2 | 85.2 | 77.5 | 80.1 |
| June | 69.4 | 85.3 | 78.7 | 81.3 | 68.7 | 86.2 | 78.9 | 81.6 |
| 1984-85 — | | | | | | | | |
| Sept. | 71.6 | 88.6 | 80.7 | 84.4 | 71.0 | 86.5 | 80.8 | 82.9 |
| Dec. | 72.0 | 86.9 | 81.7 | 83.5 | 72.2 | 87.6 | 81.6 | 84.0 |
| Mar. | 73.4 | 87.9 | 81.9 | 84.5 | 75.7 | 88.4 | 82.1 | 85.2 |
| June | 80.4 | 90.5 | 81.9 | 87.4 | 80.6 | 89.4 | 82.4 | 86.8 |
| 1985-86 — | | | | | | | | |
| Sept. | 87.3 | 89.8 | 83.4 | 88.5 | 85.0 | 90.4 | 82.9 | 88.4 |
| Dec. | 83.5 | 91.4 | 83.0 | 88.8 | 85.7 | 90.3 | 84.0 | 88.6 |
| Mar. | 84.4 | 89.5 | 85.5 | 88.0 | 82.3 | 89.9 | 85.4 | 87.9 |
| June | 76.2 | 89.4 | 86.7 | 86.6 | 78.1 | 89.7 | 86.1 | 87.1 |
| 1986-87 — | | | | | | | | |
| Sept. | 75.3 | 90.6 | 85.8 | 87.2 | 76.3 | 89.6 | 86.0 | 86.7 |
| Dec. | 76.9 | 89.8 | 84.7 | 86.8 | 77.5 | 90.0 | 85.8 | 87.1 |
| Mar. | 81.5 | 90.5 | 87.0 | 88.4 | 80.4 | 91.0 | 86.7 | 88.5 |
| June | 83.1 | 93.3 | 88.3 | 90.7 | 83.3 | 92.8 | 88.2 | 90.5 |
| 1987-88 — | | | | | | | | |
| Sept. | 84.1 | 95.7 | 89.4 | 92.7 | 86.8 | 95.0 | 89.7 | 92.8 |
| Dec. | 92.0 | 95.9 | 90.8 | 94.5 | 89.9 | 96.3 | 90.9 | 94.4 |
| Mar. | 91.7 | 98.1 | 91.9 | 96.1 | 91.4 | 96.7 | 91.5 | 95.0 |
| June | 89.2 | 96.3 | 91.5 | 94.4 | 91.1 | 97.7 | 92.2 | 95.7 |
| 1988-89 — | | | | | | | | |
| Sept. | 90.6 | 99.3 | 92.5 | 96.8 | 90.9 | 99.3 | 93.5 | 97.0 |
| Dec. | 92.0 | 102.9 | 96.3 | 100.0 | 91.4 | 101.0 | 94.9 | 98.4 |
| Mar. | 91.8 | 100.6 | 95.3 | 98.3 | 92.4 | 102.1 | 96.3 | 99.6 |
| June | 91.9 | 103.2 | 96.9 | 100.2 | 93.3 | 101.8 | 97.5 | 99.7 |
| 1989-90 — | | | | | | | | |
| Sept. | 96.9 | 101.3 | 99.3 | 100.2 | 95.1 | 101.1 | 98.7 | 99.7 |
| Dec. | 95.1 | 99.5 | 99.5 | 98.7 | 98.3 | 100.2 | 100.0 | 99.8 |
| Mar. | 102.9 | 100.3 | 100.4 | 100.8 | 101.8 | 99.4 | 100.5 | 100.0 |
| June | 105.0 | 98.9 | 100.7 | 100.3 | 104.8 | 99.3 | 100.8 | 100.5 |
| 1990-91 — | | | | | | | | |
| Sept. | 105.0 | 99.4 | 100.5 | 100.5 | 106.0 | 98.9 | 101.4 | 100.5 |
| Dec. | 105.9 | 98.6 | 102.6 | 100.5 | 105.3 | 98.2 | 102.1 | 100.0 |
| Mar. | 103.2 | 97.4 | 102.5 | 99.2 | 105.0 | 97.5 | 102.6 | 99.6 |
| June | 105.6 | 96.8 | 102.3 | 99.2 | 105.5 | 96.9 | 103.0 | 99.3 |
| 1991-92 — | | | | | | | | |
| Sept. | 106.7 | 97.1 | 103.2 | 99.7 | 106.5 | 96.5 | 103.2 | 99.2 |
| Dec. | 106.8 | 95.9 | 103.6 | 99.0 | 107.7 | 96.1 | 103.5 | 99.2 |
| Mar. | 108.0 | 96.2 | 103.4 | 99.4 | 108.4 | 95.9 | 103.9 | 99.3 |
| June | 108.9 | 96.2 | 103.7 | 99.6 | 108.6 | 96.2 | 104.1 | 99.5 |
| 1992-93 — | | | | | | | | |
| Sept. | 107.7 | 97.0 | 105.3 | 100.1 | 107.7 | 97.1 | 104.2 | 100.0 |
| Dec. | 105.9 | 99.2 | 103.1 | 100.9 | 107.3 | 98.6 | 105.0 | 101.0 |
| Mar. | 106.8 | 100.0 | 106.3 | 102.1 | 108.1 | 100.0 | 106.1 | 102.4 |
| June | 110.5 | 102.3 | 108.8 | 104.7 | 108.4 | 101.8 | 107.3 | 103.8 |
| 1993-94 — | | | | | | | | |
| Sept. | 107.6 | 103.5 | 105.6 | 104.5 | 107.6 | 104.1 | 107.9 | 105.2 |
| Dec. | 104.1 | 107.9 | 109.0 | 107.4 | 107.7 | 107.0 | 107.8 | 107.3 |
| Mar. | 111.1 | 109.8 | 107.6 | 109.7 | 110.0 | 110.4 | 108.0 | 110.0 |
| June | 113.8 | 114.4 | 107.4 | 113.3 | 113.3 | 113.4 | 108.5 | 112.7 |
| 1994-95 — | | | | | | | | |
| Sept. | 114.6 | 116.1 | 109.6 | 114.9 | 116.0 | 115.8 | 108.8 | 114.8 |

TABLE 9. INDEXES OF MANUFACTURING GROSS PRODUCT AT AVERAGE 1989-90 PRICES,
BY SUBDIVISION — ORIGINAL

| | Index numbers (Base: 1989-90 = 100.0) | | | | | | | |
|-----------|--|-----------------|----------------------------------|--|--|---|--|--|
| | <i>Food, beverages and tobacco</i> | <i>Textiles</i> | <i>Clothing and footwear</i> | <i>Wood, wood products and furniture</i> | <i>Paper, etc. printing and publishing</i> | <i>Chemicals, petroleum and coal products</i> | <i>Non-metallic mineral products</i> | |
| 1976-77 | 83.3 | 87.4 | 91.3 | 88.7 | 67.7 | 75.3 | 79.6 | |
| 1977-78 | 86.4 | 84.8 | 91.0 | 85.6 | 69.5 | 78.2 | 76.8 | |
| 1978-79 | 87.7 | 90.5 | 96.0 | 88.5 | 73.2 | 82.3 | 78.9 | |
| 1979-80 | 88.4 | 92.7 | 98.8 | 91.4 | 78.0 | 84.5 | 84.2 | |
| 1980-81 | 89.4 | 92.2 | 100.8 | 94.7 | 80.0 | 84.2 | 86.3 | |
| 1981-82 | 89.8 | 94.3 | 100.5 | 96.2 | 82.1 | 87.1 | 88.2 | |
| 1982-83 | 89.4 | 86.8 | 93.9 | 84.9 | 77.8 | 84.6 | 76.0 | |
| 1983-84 | 89.1 | 90.6 | 101.1 | 89.2 | 81.1 | 87.7 | 76.5 | |
| 1984-85 | 90.2 | 99.8 | 104.6 | 93.5 | 88.3 | 89.9 | 82.7 | |
| 1985-86 | 90.1 | 98.9 | 116.7 | 105.4 | 89.7 | 87.7 | 94.4 | |
| 1986-87 | 92.9 | 102.8 | 108.3 | 95.6 | 93.1 | 92.0 | 86.9 | |
| 1987-88 | 97.2 | 102.1 | 108.9 | 107.0 | 99.4 | 99.0 | 91.3 | |
| 1988-89 | 99.6 | 103.8 | 112.2 | 111.8 | 106.3 | 100.9 | 102.4 | |
| 1989-90 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | |
| 1990-91 | 101.6 | 100.9 | 92.3 | 90.8 | 97.1 | 104.3 | 89.5 | |
| 1991-92 | 104.4 | 103.8 | 86.9 | 88.4 | 92.8 | 104.3 | 85.5 | |
| 1992-93 | 112.7 | 92.9 | 89.0 | 83.6 | 88.8 | 104.9 | 93.6 | |
| 1993-94 | 121.3 | 78.4 | 93.1 | 86.9 | 101.8 | 114.1 | 105.8 | |
| 1978-79 — | | | | | | | | |
| Sept. | 86.5 | 97.4 | 97.2 | 94.1 | 72.6 | 84.8 | 77.8 | |
| Dec. | 95.0 | 90.3 | 96.9 | 95.8 | 75.6 | 83.6 | 80.1 | |
| Mar. | 85.4 | 84.6 | 88.6 | 78.1 | 68.9 | 77.4 | 77.4 | |
| June | 83.7 | 89.8 | 101.3 | 86.1 | 75.5 | 83.3 | 80.3 | |
| 1979-80 — | | | | | | | | |
| Sept. | 88.5 | 93.2 | 102.2 | 95.6 | 80.7 | 81.4 | 88.1 | |
| Dec. | 92.3 | 98.9 | 104.8 | 90.4 | 80.1 | 91.8 | 83.1 | |
| Mar. | 85.8 | 83.2 | 91.3 | 85.2 | 74.1 | 81.1 | 75.9 | |
| June | 86.9 | 95.5 | 96.2 | 94.5 | 77.1 | 83.6 | 89.7 | |
| 1980-81 — | | | | | | | | |
| Sept. | 90.0 | 92.2 | 110.5 | 101.6 | 81.6 | 83.6 | 87.5 | |
| Dec. | 99.3 | 97.4 | 104.0 | 98.4 | 82.7 | 84.7 | 90.8 | |
| Mar. | 86.5 | 77.5 | 90.4 | 82.8 | 75.6 | 82.2 | 83.1 | |
| June | 81.9 | 101.7 | 98.3 | 96.0 | 80.2 | 86.4 | 83.8 | |
| 1981-82 — | | | | | | | | |
| Sept. | 87.3 | 98.9 | 114.9 | 103.6 | 83.9 | 87.6 | 87.3 | |
| Dec. | 96.9 | 97.0 | 101.9 | 101.8 | 85.4 | 90.9 | 96.2 | |
| Mar. | 86.4 | 85.6 | 86.5 | 85.3 | 76.1 | 79.8 | 82.1 | |
| June | 88.5 | 95.5 | 98.6 | 93.9 | 82.8 | 90.0 | 87.3 | |
| 1982-83 — | | | | | | | | |
| Sept. | 91.6 | 97.4 | 105.8 | 91.0 | 80.2 | 87.2 | 81.3 | |
| Dec. | 95.8 | 91.7 | 88.3 | 85.9 | 80.9 | 86.2 | 80.8 | |
| Mar. | 85.4 | 75.6 | 80.0 | 71.4 | 71.9 | 78.1 | 63.5 | |
| June | 84.8 | 82.3 | 101.3 | 91.1 | 78.1 | 86.8 | 78.4 | |
| 1983-84 — | | | | | | | | |
| Sept. | 86.4 | 90.3 | 106.9 | 88.1 | 80.0 | 87.6 | 82.1 | |
| Dec. | 94.0 | 85.6 | 100.4 | 95.6 | 83.9 | 91.1 | 78.2 | |
| Mar. | 86.6 | 80.4 | 93.3 | 82.3 | 76.4 | 91.7 | 72.4 | |
| June | 89.5 | 106.0 | 103.7 | 90.6 | 84.1 | 80.5 | 73.3 | |
| 1984-85 — | | | | | | | | |
| Sept. | 92.0 | 114.1 | 113.4 | 97.5 | 90.7 | 91.0 | 80.8 | |
| Dec. | 93.1 | 97.5 | 104.5 | 96.3 | 88.0 | 88.6 | 80.8 | |
| Mar. | 86.9 | 83.1 | 90.1 | 84.4 | 82.1 | 90.0 | 76.6 | |
| June | 88.6 | 104.6 | 110.4 | 95.8 | 92.2 | 90.1 | 92.5 | |
| 1985-86 — | | | | | | | | |
| Sept. | 89.3 | 84.4 | 130.3 | 116.1 | 92.9 | 88.6 | 101.3 | |
| Dec. | 93.1 | 102.7 | 116.8 | 111.8 | 98.3 | 89.3 | 98.2 | |
| Mar. | 89.2 | 83.1 | 103.9 | 92.8 | 82.4 | 88.0 | 87.5 | |
| June | 88.7 | 125.5 | 115.7 | 100.8 | 85.2 | 84.9 | 90.5 | |
| 1986-87 — | | | | | | | | |
| Sept. | 90.8 | 120.6 | 112.3 | 97.6 | 89.6 | 89.1 | 89.3 | |
| Dec. | 99.1 | 97.8 | 114.4 | 100.4 | 98.9 | 94.8 | 92.9 | |
| Mar. | 89.2 | 83.1 | 101.5 | 85.6 | 86.9 | 88.5 | 77.6 | |
| June | 92.4 | 109.5 | 104.9 | 98.8 | 96.9 | 95.6 | 87.7 | |
| 1987-88 — | | | | | | | | |
| Sept. | 99.2 | 115.4 | 120.1 | 108.9 | 99.3 | 97.1 | 88.2 | |
| Dec. | 102.0 | 99.8 | 114.0 | 112.6 | 104.5 | 100.1 | 96.2 | |
| Mar. | 97.7 | 93.9 | 95.4 | 91.5 | 97.2 | 100.3 | 92.7 | |
| June | 90.0 | 99.1 | 106.2 | 115.0 | 96.4 | 98.5 | 88.1 | |
| 1988-89 — | | | | | | | | |
| Sept. | 96.8 | 103.7 | 119.7 | 118.6 | 107.6 | 101.0 | 104.2 | |
| Dec. | 108.7 | 110.5 | 111.3 | 124.8 | 117.2 | 101.4 | 107.5 | |
| Mar. | 97.7 | 86.1 | 98.6 | 95.6 | 95.5 | 98.8 | 100.3 | |
| June | 95.3 | 114.8 | 119.3 | 108.1 | 105.0 | 102.4 | 97.7 | |
| 1989-90 — | | | | | | | | |
| Sept. | 99.7 | 103.0 | 126.9 | 103.6 | 106.0 | 97.7 | 106.6 | |
| Dec. | 106.4 | 95.5 | 102.2 | 106.3 | 105.6 | 97.1 | 104.9 | |
| Mar. | 99.3 | 88.0 | 82.9 | 95.1 | 93.0 | 100.0 | 94.7 | |
| June | 94.6 | 113.4 | 88.0 | 95.0 | 95.3 | 105.3 | 93.8 | |
| 1990-91 — | | | | | | | | |
| Sept. | 102.1 | 95.2 | 103.0 | 104.3 | 101.7 | 104.2 | 97.7 | |
| Dec. | 106.8 | 102.4 | 97.7 | 96.0 | 100.3 | 104.5 | 95.2 | |
| Mar. | 100.7 | 86.7 | 82.7 | 80.5 | 92.5 | 102.6 | 82.3 | |
| June | 96.8 | 119.3 | 85.9 | 82.4 | 93.9 | 106.0 | 82.6 | |
| 1991-92 — | | | | | | | | |
| Sept. | 101.4 | 104.0 | 92.6 | 92.8 | 99.8 | 105.7 | 89.0 | |
| Dec. | 107.5 | 98.1 | 88.0 | 98.3 | 97.2 | 103.7 | 85.3 | |
| Mar. | 104.7 | 92.6 | 81.6 | 82.8 | 86.4 | 101.6 | 78.3 | |
| June | 103.8 | 120.3 | 85.2 | 79.7 | 87.8 | 106.2 | 89.3 | |
| 1992-93 — | | | | | | | | |
| Sept. | 109.7 | 90.3 | 91.6 | 81.2 | 92.7 | 104.8 | 91.0 | |
| Dec. | 120.1 | 99.1 | 88.2 | 92.7 | 92.8 | 105.5 | 91.0 | |
| Mar. | 107.1 | 75.0 | 92.0 | 76.5 | 83.4 | 105.2 | 90.8 | |
| June | 114.0 | 107.3 | 84.2 | 84.1 | 86.1 | 104.2 | 101.4 | |
| 1993-94 — | | | | | | | | |
| Sept. | 117.4 | 80.8 | 102.2 | 86.5 | 97.4 | 111.7 | 103.7 | |
| Dec. | 127.4 | 76.6 | 89.1 | 88.5 | 104.5 | 114.8 | 109.9 | |
| Mar. | 118.2 | 56.4 | 98.8 | 80.4 | 101.3 | 111.3 | 102.0 | |
| June | 122.3 | 99.8 | 82.1 | 92.3 | 104.1 | 118.7 | 107.6 | |
| 1994-95 — | | | | | | | | |
| Sept. | 130.5 | 80.5 | 101.1 | 103.1 | 124.6 | 117.9 | 118.2 | |

TABLE 9. INDEXES OF MANUFACTURING GROSS PRODUCT AT AVERAGE 1989-90 PRICES,
BY SUBDIVISION — ORIGINAL — continued
Index numbers (Base : 1989-90 = 100.0)

| | Fabricated | | | Other | | Total manufacturing |
|-----------|-------------------------|-------------------|------------------------|----------------------------|--------------------------------|------------------------|
| | Basic metal products | metal products | Transport equipment | machinery and equipment | Miscellaneous manufacturing | |
| 1976-77 | 64.0 | 81.8 | 85.0 | 90.1 | 78.6 | 79.9 |
| 1977-78 | 63.9 | 80.8 | 79.6 | 86.9 | 78.0 | 79.5 |
| 1978-79 | 68.1 | 85.8 | 81.0 | 90.5 | 84.4 | 82.9 |
| 1979-80 | 74.3 | 90.7 | 88.1 | 93.2 | 85.6 | 86.4 |
| 1980-81 | 77.9 | 94.6 | 83.4 | 99.0 | 88.2 | 88.2 |
| 1981-82 | 77.8 | 98.1 | 88.5 | 103.4 | 92.0 | 90.4 |
| 1982-83 | 67.3 | 83.9 | 84.2 | 86.5 | 83.7 | 82.9 |
| 1983-84 | 74.6 | 81.6 | 82.7 | 82.0 | 85.9 | 84.2 |
| 1984-85 | 81.5 | 81.7 | 90.2 | 86.4 | 91.0 | 88.5 |
| 1985-86 | 82.1 | 88.6 | 89.4 | 86.3 | 82.9 | 90.1 |
| 1986-87 | 82.7 | 87.2 | 84.4 | 93.7 | 95.2 | 91.1 |
| 1987-88 | 85.8 | 99.3 | 87.6 | 98.6 | 102.3 | 96.5 |
| 1988-89 | 90.0 | 108.2 | 93.0 | 106.9 | 106.1 | 101.5 |
| 1989-90 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1990-91 | 102.6 | 91.2 | 92.4 | 100.8 | 100.3 | 98.1 |
| 1991-92 | 103.9 | 85.6 | 84.5 | 99.1 | 98.2 | 96.4 |
| 1992-93 | 103.3 | 82.5 | 87.4 | 116.8 | 98.1 | 99.6 |
| 1993-94 | 109.5 | 88.4 | 108.2 | 123.9 | 111.6 | 108.9 |
| 1978-79 — | | | | | | |
| Sept. | 65.9 | 86.2 | 82.2 | 89.5 | 87.8 | 83.2 |
| Dec. | 69.0 | 90.4 | 81.0 | 97.7 | 87.5 | 86.6 |
| Mar. | 67.1 | 78.9 | 71.8 | 82.2 | 77.1 | 77.7 |
| June | 70.4 | 87.6 | 88.8 | 92.5 | 85.2 | 83.9 |
| 1979-80 — | | | | | | |
| Sept. | 75.0 | 95.2 | 94.0 | 96.5 | 92.2 | 88.7 |
| Dec. | 73.2 | 96.1 | 96.7 | 98.7 | 89.9 | 90.2 |
| Mar. | 77.6 | 83.3 | 75.8 | 85.9 | 77.8 | 81.4 |
| June | 71.5 | 88.0 | 85.9 | 91.7 | 82.3 | 85.3 |
| 1980-81 — | | | | | | |
| Sept. | 75.6 | 91.1 | 84.0 | 100.6 | 90.4 | 89.0 |
| Dec. | 81.0 | 100.4 | 86.4 | 103.5 | 95.8 | 93.2 |
| Mar. | 75.4 | 90.4 | 73.2 | 89.6 | 78.1 | 82.3 |
| June | 79.4 | 96.4 | 90.0 | 102.2 | 88.3 | 88.2 |
| 1981-82 — | | | | | | |
| Sept. | 82.1 | 101.8 | 90.6 | 108.5 | 95.4 | 92.8 |
| Dec. | 78.0 | 105.0 | 89.8 | 109.7 | 101.6 | 95.2 |
| Mar. | 73.3 | 91.1 | 75.5 | 94.6 | 84.9 | 83.2 |
| June | 77.6 | 94.5 | 97.9 | 100.8 | 86.1 | 90.2 |
| 1982-83 — | | | | | | |
| Sept. | 75.1 | 95.0 | 101.3 | 106.0 | 94.5 | 91.2 |
| Dec. | 62.4 | 84.0 | 85.2 | 87.7 | 86.8 | 84.8 |
| Mar. | 59.7 | 72.4 | 68.5 | 71.5 | 74.2 | 73.4 |
| June | 72.0 | 84.0 | 81.6 | 80.8 | 79.2 | 82.3 |
| 1983-84 — | | | | | | |
| Sept. | 78.0 | 79.6 | 87.8 | 85.0 | 85.1 | 84.9 |
| Dec. | 74.0 | 82.7 | 83.7 | 87.6 | 91.1 | 87.1 |
| Mar. | 68.9 | 77.5 | 72.5 | 73.3 | 83.5 | 79.4 |
| June | 77.6 | 86.5 | 86.7 | 81.9 | 83.9 | 85.4 |
| 1984-85 — | | | | | | |
| Sept. | 84.9 | 86.0 | 92.3 | 87.1 | 100.7 | 91.4 |
| Dec. | 85.1 | 87.5 | 88.3 | 87.0 | 101.3 | 90.1 |
| Mar. | 73.5 | 73.7 | 80.1 | 82.6 | 85.0 | 82.3 |
| June | 82.4 | 79.5 | 100.2 | 88.7 | 76.9 | 90.0 |
| 1985-86 — | | | | | | |
| Sept. | 85.0 | 94.4 | 97.0 | 84.8 | 79.1 | 92.6 |
| Dec. | 87.4 | 91.1 | 96.2 | 93.5 | 90.6 | 94.9 |
| Mar. | 78.8 | 79.9 | 76.4 | 80.5 | 69.8 | 83.8 |
| June | 77.0 | 88.9 | 87.9 | 86.2 | 92.0 | 88.9 |
| 1986-87 — | | | | | | |
| Sept. | 84.3 | 91.3 | 98.0 | 98.9 | 95.7 | 93.3 |
| Dec. | 82.3 | 92.5 | 79.5 | 90.1 | 97.0 | 93.4 |
| Mar. | 79.8 | 78.1 | 73.5 | 92.2 | 84.9 | 84.9 |
| June | 84.3 | 86.8 | 86.4 | 93.7 | 103.1 | 92.7 |
| 1987-88 — | | | | | | |
| Sept. | 87.3 | 97.5 | 90.9 | 102.7 | 107.3 | 98.3 |
| Dec. | 89.3 | 105.3 | 90.2 | 93.5 | 110.1 | 99.7 |
| Mar. | 80.7 | 93.4 | 74.9 | 96.5 | 96.6 | 92.3 |
| June | 85.9 | 101.1 | 94.4 | 101.8 | 95.2 | 95.7 |
| 1988-89 — | | | | | | |
| Sept. | 87.6 | 114.9 | 91.1 | 107.8 | 106.1 | 101.9 |
| Dec. | 91.2 | 111.0 | 96.0 | 110.0 | 114.7 | 106.9 |
| Mar. | 86.4 | 101.0 | 77.2 | 104.2 | 96.0 | 94.7 |
| June | 94.9 | 105.9 | 107.5 | 105.6 | 107.7 | 102.6 |
| 1989-90 — | | | | | | |
| Sept. | 100.4 | 108.1 | 102.2 | 105.8 | 106.3 | 103.6 |
| Dec. | 102.5 | 101.4 | 102.4 | 104.7 | 106.0 | 103.5 |
| Mar. | 94.6 | 95.0 | 93.5 | 92.2 | 87.3 | 94.7 |
| June | 102.5 | 95.5 | 102.0 | 97.2 | 100.4 | 98.2 |
| 1990-91 — | | | | | | |
| Sept. | 102.3 | 97.2 | 101.8 | 102.6 | 99.4 | 101.6 |
| Dec. | 104.0 | 95.6 | 98.5 | 104.1 | 113.1 | 102.4 |
| Mar. | 101.4 | 83.8 | 77.7 | 93.6 | 91.9 | 92.4 |
| June | 102.6 | 88.3 | 91.4 | 102.8 | 96.7 | 96.1 |
| 1991-92 — | | | | | | |
| Sept. | 109.0 | 87.6 | 88.5 | 103.3 | 104.8 | 99.1 |
| Dec. | 102.8 | 93.4 | 85.5 | 104.3 | 110.3 | 99.5 |
| Mar. | 98.8 | 82.6 | 76.5 | 88.9 | 90.0 | 91.4 |
| June | 104.8 | 78.9 | 87.3 | 99.7 | 87.5 | 95.5 |
| 1992-93 — | | | | | | |
| Sept. | 101.4 | 81.4 | 85.3 | 118.2 | 101.9 | 98.9 |
| Dec. | 103.6 | 85.1 | 85.3 | 124.3 | 99.6 | 102.8 |
| Mar. | 98.9 | 81.6 | 82.8 | 112.3 | 89.0 | 95.2 |
| June | 109.4 | 81.8 | 96.0 | 112.2 | 102.0 | 101.4 |
| 1993-94 — | | | | | | |
| Sept. | 107.7 | 89.7 | 103.1 | 110.5 | 110.1 | 105.5 |
| Dec. | 114.1 | 90.9 | 101.1 | 135.7 | 114.4 | 111.8 |
| Mar. | 103.7 | 84.4 | 100.7 | 119.5 | 105.1 | 104.6 |
| June | 112.5 | 88.6 | 127.9 | 129.8 | 116.8 | 113.5 |
| 1994-95 — | | | | | | |
| Sept. | 114.4 | 91.7 | 123.3 | 129.8 | 116.1 | 118.5 |

TABLE 10. INDEXES OF MANUFACTURING GROSS PRODUCT AT AVERAGE 1989-90 PRICES,
BY SUBDIVISION — SEASONALLY ADJUSTED

| | | Index numbers (Base : 1989-90 = 100.0) | | | | | | |
|---------|-------|--|-----------------|----------------------------------|--|---|---|--|
| | | <i>Food, beverages and tobacco</i> | <i>Textiles</i> | <i>Clothing and footwear</i> | <i>Wood, wood products and furniture</i> | <i>Paper, etc., printing and publishing</i> | <i>Chemicals, petroleum and coal products</i> | <i>Non-metallic mineral products</i> |
| 1978-79 | Sept. | 87.0 | 93.6 | 90.8 | 89.2 | 70.0 | 84.6 | 76.0 |
| | Dec. | 88.3 | 85.1 | 93.7 | 90.5 | 72.1 | 81.1 | 76.4 |
| | Mar. | 88.1 | 95.1 | 97.9 | 87.7 | 74.0 | 81.1 | 82.7 |
| | June | 87.0 | 88.9 | 101.5 | 86.0 | 76.1 | 82.3 | 80.6 |
| 1979-80 | Sept. | 89.1 | 89.4 | 94.7 | 90.5 | 77.9 | 80.9 | 85.9 |
| | Dec. | 85.6 | 93.6 | 102.3 | 85.5 | 76.4 | 89.3 | 79.3 |
| | Mar. | 88.8 | 93.6 | 102.0 | 95.7 | 79.6 | 85.3 | 81.0 |
| | June | 90.3 | 94.1 | 96.4 | 94.6 | 77.5 | 82.5 | 89.9 |
| 1980-81 | Sept. | 90.4 | 88.0 | 101.1 | 96.1 | 78.9 | 82.8 | 85.1 |
| | Dec. | 92.2 | 93.2 | 102.3 | 93.1 | 79.1 | 82.3 | 87.0 |
| | Mar. | 89.6 | 87.5 | 100.8 | 92.9 | 80.9 | 86.5 | 88.8 |
| | June | 84.9 | 99.3 | 98.5 | 96.1 | 80.2 | 85.3 | 83.9 |
| 1981-82 | Sept. | 87.7 | 94.1 | 104.4 | 98.0 | 81.7 | 86.7 | 84.9 |
| | Dec. | 90.1 | 94.1 | 100.5 | 96.5 | 81.7 | 88.7 | 92.4 |
| | Mar. | 89.5 | 97.0 | 97.0 | 95.9 | 81.6 | 84.0 | 87.8 |
| | June | 91.6 | 92.2 | 98.7 | 94.2 | 82.6 | 88.7 | 87.2 |
| 1982-83 | Sept. | 92.0 | 91.7 | 95.3 | 85.8 | 78.3 | 86.3 | 78.9 |
| | Dec. | 89.3 | 90.3 | 87.6 | 81.4 | 77.2 | 84.3 | 77.5 |
| | Mar. | 88.6 | 86.5 | 90.0 | 80.3 | 77.1 | 81.7 | 67.9 |
| | June | 87.4 | 78.0 | 101.5 | 91.2 | 77.7 | 85.8 | 78.1 |
| 1983-84 | Sept. | 86.7 | 84.2 | 96.4 | 83.3 | 78.6 | 86.7 | 79.8 |
| | Dec. | 87.9 | 86.1 | 99.7 | 90.3 | 79.6 | 89.6 | 75.1 |
| | Mar. | 89.9 | 93.2 | 105.0 | 92.5 | 82.1 | 95.1 | 77.7 |
| | June | 92.1 | 98.9 | 103.8 | 90.7 | 83.8 | 79.7 | 73.1 |
| 1984-85 | Sept. | 91.7 | 104.8 | 103.0 | 92.8 | 88.5 | 90.8 | 78.6 |
| | Dec. | 88.2 | 101.9 | 102.6 | 91.0 | 82.2 | 88.2 | 77.2 |
| | Mar. | 89.1 | 98.9 | 101.8 | 95.5 | 88.0 | 89.7 | 82.3 |
| | June | 91.8 | 94.4 | 113.9 | 95.1 | 92.9 | 91.1 | 92.9 |
| 1985-86 | Sept. | 89.0 | 77.7 | 118.4 | 110.6 | 90.7 | 88.4 | 98.7 |
| | Dec. | 88.2 | 106.8 | 114.3 | 105.3 | 91.8 | 88.8 | 94.0 |
| | Mar. | 91.4 | 98.9 | 117.5 | 105.4 | 88.4 | 87.7 | 93.6 |
| | June | 92.0 | 113.0 | 119.2 | 99.9 | 85.8 | 85.7 | 91.4 |
| 1986-87 | Sept. | 90.7 | 112.0 | 102.4 | 93.4 | 87.7 | 89.1 | 87.0 |
| | Dec. | 93.6 | 101.2 | 112.0 | 94.3 | 92.0 | 94.3 | 88.9 |
| | Mar. | 91.2 | 98.6 | 114.7 | 97.5 | 93.1 | 88.2 | 82.5 |
| | June | 96.2 | 98.3 | 108.1 | 97.7 | 97.8 | 96.4 | 89.2 |
| 1987-88 | Sept. | 99.2 | 108.7 | 109.8 | 104.5 | 97.3 | 97.0 | 85.8 |
| | Dec. | 96.0 | 102.2 | 111.1 | 105.3 | 97.0 | 99.7 | 92.1 |
| | Mar. | 99.7 | 111.3 | 107.5 | 104.5 | 104.1 | 100.1 | 98.0 |
| | June | 94.2 | 88.5 | 109.6 | 113.6 | 97.5 | 99.1 | 90.2 |
| 1988-89 | Sept. | 96.7 | 98.9 | 110.1 | 114.1 | 105.3 | 101.0 | 100.9 |
| | Dec. | 102.4 | 112.7 | 108.1 | 116.4 | 109.0 | 101.2 | 103.1 |
| | Mar. | 99.3 | 101.2 | 110.7 | 109.3 | 101.9 | 100.5 | 105.7 |
| | June | 100.1 | 101.6 | 123.3 | 106.5 | 106.6 | 100.9 | 100.5 |
| 1989-90 | Sept. | 99.6 | 100.6 | 117.3 | 99.9 | 103.5 | 97.5 | 102.8 |
| | Dec. | 100.3 | 96.7 | 99.4 | 99.0 | 100.6 | 97.2 | 101.0 |
| | Mar. | 100.8 | 103.5 | 92.2 | 102.2 | 99.0 | 101.7 | 99.8 |
| | June | 99.4 | 99.3 | 91.1 | 98.9 | 96.9 | 103.5 | 96.4 |
| 1990-91 | Sept. | 101.9 | 95.0 | 95.6 | 101.0 | 97.0 | 104.0 | 93.9 |
| | Dec. | 100.8 | 103.2 | 95.4 | 89.4 | 95.8 | 104.8 | 92.2 |
| | Mar. | 101.9 | 101.9 | 90.5 | 86.3 | 98.1 | 104.4 | 86.9 |
| | June | 101.7 | 103.2 | 89.6 | 85.8 | 95.6 | 104.2 | 84.4 |
| 1991-92 | Sept. | 101.4 | 105.8 | 86.2 | 90.2 | 95.1 | 105.4 | 85.5 |
| | Dec. | 101.5 | 98.3 | 86.4 | 91.5 | 93.1 | 104.2 | 82.7 |
| | Mar. | 106.0 | 109.1 | 87.9 | 88.4 | 91.5 | 103.4 | 83.0 |
| | June | 108.8 | 103.2 | 89.6 | 82.9 | 89.4 | 104.3 | 90.6 |
| 1992-93 | Sept. | 109.7 | 92.7 | 85.2 | 79.2 | 88.4 | 104.5 | 87.4 |
| | Dec. | 113.6 | 98.9 | 87.1 | 86.3 | 89.0 | 105.9 | 88.4 |
| | Mar. | 108.3 | 88.2 | 97.9 | 81.6 | 88.1 | 107.0 | 96.5 |
| | June | 119.4 | 91.8 | 89.0 | 87.5 | 87.7 | 102.4 | 102.5 |
| 1993-94 | Sept. | 117.5 | 83.6 | 94.9 | 84.5 | 92.8 | 111.3 | 99.9 |
| | Dec. | 120.6 | 76.7 | 88.1 | 82.4 | 100.2 | 115.3 | 106.8 |
| | Mar. | 119.4 | 66.3 | 103.5 | 85.8 | 106.3 | 113.7 | 108.5 |
| | June | 128.0 | 84.9 | 86.4 | 96.1 | 106.1 | 116.7 | 108.6 |
| 1994-95 | Sept. | 130.5 | 82.9 | 94.3 | 100.9 | 118.7 | 117.4 | 113.8 |

TABLE 10. INDEXES OF MANUFACTURING GROSS PRODUCT AT AVERAGE 1989-90 PRICES,
BY SUBDIVISION — SEASONALLY ADJUSTED *continued*
Index numbers (Base : 1989-90 = 100.0)

| | | <i>Basic metal products</i> | <i>Fabricated metal products</i> | <i>Transport equipment</i> | <i>Other machinery and equipment</i> | <i>Miscellaneous manufacturing</i> | <i>Total manufacturing</i> |
|-------------|-------|---------------------------------|--|--------------------------------|--|--|--------------------------------|
| 1978-79 ... | Sept. | 64.9 | 84.4 | 79.1 | 86.1 | 82.4 | 81.0 |
| | Dec. | 67.5 | 85.8 | 77.6 | 91.1 | 84.0 | 82.2 |
| | Mar. | 70.0 | 85.5 | 82.2 | 90.8 | 86.4 | 83.7 |
| | June | 70.6 | 87.6 | 85.0 | 93.9 | 86.4 | 84.4 |
| 1979-80 — | Sept. | 73.4 | 92.9 | 90.1 | 92.5 | 86.8 | 86.3 |
| | Dec. | 71.8 | 91.5 | 92.8 | 92.4 | 85.7 | 85.7 |
| | Mar. | 81.3 | 90.2 | 87.3 | 95.1 | 86.4 | 87.9 |
| | June | 71.5 | 88.1 | 82.3 | 92.6 | 84.2 | 85.7 |
| 1980-81 — | Sept. | 73.2 | 88.7 | 79.8 | 96.2 | 85.7 | 86.3 |
| | Dec. | 79.8 | 95.6 | 83.2 | 97.6 | 91.1 | 88.8 |
| | Mar. | 79.7 | 97.8 | 84.7 | 99.3 | 86.1 | 88.9 |
| | June | 79.3 | 96.4 | 86.2 | 102.8 | 91.1 | 88.6 |
| 1981-82 | Sept. | 79.0 | 99.2 | 85.3 | 103.3 | 90.7 | 89.7 |
| | Dec. | 77.1 | 100.4 | 86.9 | 104.2 | 96.1 | 90.9 |
| | Mar. | 78.1 | 98.6 | 87.8 | 104.7 | 92.6 | 90.1 |
| | June | 77.2 | 94.3 | 93.8 | 100.7 | 89.3 | 90.3 |
| 1982-83 — | Sept. | 71.9 | 92.5 | 94.7 | 100.8 | 90.1 | 88.1 |
| | Dec. | 61.8 | 80.3 | 82.9 | 83.9 | 82.0 | 81.1 |
| | Mar. | 64.1 | 78.5 | 79.6 | 78.9 | 80.4 | 79.4 |
| | June | 71.5 | 83.6 | 78.2 | 80.7 | 82.6 | 82.3 |
| 1983-84 — | Sept. | 74.3 | 77.3 | 81.9 | 80.7 | 81.2 | 82.0 |
| | Dec. | 73.2 | 79.0 | 81.9 | 84.6 | 85.9 | 83.6 |
| | Mar. | 74.2 | 84.4 | 83.8 | 80.2 | 90.3 | 85.7 |
| | June | 77.0 | 86.0 | 83.3 | 81.8 | 87.1 | 85.3 |
| 1984-85 ... | Sept. | 83.6 | 82.4 | 87.8 | 82.1 | 97.7 | 88.6 |
| | Dec. | 82.2 | 82.4 | 85.4 | 88.2 | 95.1 | 86.9 |
| | Mar. | 77.5 | 81.4 | 91.4 | 86.5 | 93.1 | 87.9 |
| | June | 82.5 | 80.7 | 96.1 | 89.5 | 77.5 | 90.5 |
| 1985-86 — | Sept. | 83.6 | 90.4 | 92.5 | 80.0 | 76.6 | 89.8 |
| | Dec. | 84.6 | 85.8 | 92.8 | 94.7 | 85.0 | 91.4 |
| | Mar. | 83.1 | 87.8 | 87.4 | 84.3 | 76.5 | 89.5 |
| | June | 77.1 | 90.3 | 83.9 | 87.0 | 92.8 | 89.4 |
| 1986-87 ... | Sept. | 83.0 | 87.4 | 93.8 | 93.3 | 92.8 | 90.6 |
| | Dec. | 79.6 | 87.6 | 76.7 | 91.4 | 90.9 | 89.8 |
| | Mar. | 84.1 | 85.4 | 83.8 | 96.2 | 93.6 | 90.5 |
| | June | 84.3 | 88.2 | 82.5 | 94.5 | 103.7 | 93.3 |
| 1987-88 — | Sept. | 85.9 | 93.4 | 87.4 | 96.9 | 104.4 | 95.7 |
| | Dec. | 86.6 | 100.4 | 87.0 | 94.9 | 102.7 | 95.9 |
| | Mar. | 85.0 | 101.1 | 84.9 | 100.7 | 106.8 | 98.1 |
| | June | 85.7 | 102.7 | 90.0 | 102.7 | 95.6 | 96.3 |
| 1988-89 ... | Sept. | 86.3 | 110.4 | 87.9 | 101.9 | 103.5 | 99.3 |
| | Dec. | 88.7 | 106.3 | 93.0 | 111.5 | 106.4 | 102.9 |
| | Mar. | 90.8 | 108.1 | 86.8 | 108.7 | 106.4 | 100.6 |
| | June | 94.4 | 107.8 | 102.5 | 106.3 | 108.4 | 103.2 |
| 1989-90 — | Sept. | 99.0 | 104.3 | 98.9 | 103.2 | 103.5 | 101.3 |
| | Dec. | 100.0 | 97.4 | 99.6 | 100.6 | 98.1 | 99.5 |
| | Mar. | 99.3 | 100.8 | 104.2 | 98.7 | 96.5 | 100.3 |
| | June | 101.7 | 97.4 | 97.3 | 97.6 | 101.8 | 98.9 |
| 1990-91 — | Sept. | 101.0 | 94.1 | 98.5 | 100.4 | 96.5 | 99.4 |
| | Dec. | 101.7 | 92.0 | 96.5 | 99.7 | 104.5 | 98.6 |
| | Mar. | 106.4 | 88.1 | 85.8 | 100.4 | 101.5 | 97.4 |
| | June | 101.4 | 90.3 | 87.6 | 102.9 | 98.4 | 96.8 |
| 1991-92 ... | Sept. | 107.8 | 85.1 | 85.4 | 101.3 | 101.5 | 97.1 |
| | Dec. | 100.6 | 89.9 | 84.2 | 99.8 | 101.8 | 95.9 |
| | Mar. | 103.6 | 86.4 | 83.9 | 95.4 | 99.4 | 96.2 |
| | June | 103.4 | 80.9 | 84.0 | 99.8 | 89.3 | 96.2 |
| 1992-93 — | Sept. | 100.4 | 79.3 | 82.1 | 115.9 | 98.4 | 97.0 |
| | Dec. | 101.6 | 81.8 | 84.3 | 119.0 | 92.0 | 99.2 |
| | Mar. | 103.6 | 85.3 | 90.5 | 120.5 | 98.3 | 100.0 |
| | June | 108.0 | 83.9 | 92.5 | 112.2 | 104.5 | 102.3 |
| 1993-94 — | Sept. | 106.7 | 87.5 | 99.1 | 108.5 | 106.1 | 103.5 |
| | Dec. | 111.9 | 87.4 | 100.0 | 130.0 | 105.7 | 107.9 |
| | Mar. | 108.6 | 88.1 | 110.1 | 128.3 | 115.8 | 109.8 |
| | June | 110.9 | 91.0 | 123.3 | 129.6 | 119.9 | 114.4 |
| 1994-95 — | Sept. | 113.4 | 91.4 | 118.5 | 127.6 | 111.6 | 116.1 |

**TABLE 11. INDEXES OF MANUFACTURING GROSS PRODUCT AT AVERAGE 1989-90 PRICES,
BY SUBDIVISION — TREND ESTIMATES**

| | <i>Food, beverages and tobacco</i> | <i>Textiles</i> | <i>Clothing and footwear</i> | <i>Wood, wood products and furniture</i> | <i>Paper, etc., printing and publishing</i> | <i>Chemicals, petroleum and coal products</i> | <i>Non-metallic mineral products</i> |
|-----------------|--|-----------------|----------------------------------|--|---|---|--|
| 1978-79 — Sept. | 87.4 | 90.1 | 92.7 | 89.0 | 70.4 | 83.2 | 76.0 |
| Dec. | 87.6 | 92.0 | 94.5 | 88.8 | 72.2 | 83.2 | 77.9 |
| Mar. | 88.0 | 91.5 | 96.5 | 87.5 | 74.4 | 82.1 | 80.6 |
| June | 87.8 | 91.5 | 98.0 | 86.7 | 76.3 | 82.4 | 82.7 |
| 1979-80 — Sept. | 87.4 | 92.5 | 98.8 | 86.8 | 77.5 | 84.8 | 82.2 |
| Dec. | 87.4 | 93.4 | 99.5 | 89.0 | 78.2 | 86.5 | 81.7 |
| Mar. | 88.3 | 94.9 | 99.5 | 92.0 | 78.5 | 86.5 | 83.3 |
| June | 89.8 | 93.9 | 99.5 | 94.3 | 78.7 | 84.6 | 85.4 |
| 1980-81 — Sept. | 91.3 | 92.0 | 99.8 | 94.3 | 79.1 | 83.4 | 87.4 |
| Dec. | 90.9 | 91.5 | 100.3 | 92.9 | 79.7 | 84.5 | 87.4 |
| Mar. | 88.8 | 93.4 | 100.6 | 93.3 | 80.6 | 85.7 | 86.0 |
| June | 87.3 | 95.8 | 100.6 | 94.7 | 81.1 | 87.2 | 86.0 |
| 1981-82 — Sept. | 87.3 | 96.8 | 100.9 | 96.2 | 81.7 | 87.8 | 87.0 |
| Dec. | 88.8 | 96.8 | 100.3 | 96.6 | 82.1 | 87.8 | 89.1 |
| Mar. | 90.6 | 95.8 | 98.8 | 95.1 | 82.3 | 87.9 | 89.1 |
| June | 91.2 | 94.9 | 96.2 | 91.4 | 81.3 | 87.8 | 85.8 |
| 1982-83 — Sept. | 91.1 | 93.4 | 92.7 | 85.7 | 79.5 | 86.8 | 80.0 |
| Dec. | 90.0 | 90.1 | 90.4 | 82.0 | 77.8 | 85.2 | 75.0 |
| Mar. | 88.3 | 86.2 | 91.8 | 82.2 | 77.3 | 84.3 | 73.4 |
| June | 87.3 | 82.9 | 95.4 | 84.6 | 77.9 | 85.4 | 75.4 |
| 1983-84 — Sept. | 87.1 | 83.4 | 98.5 | 87.0 | 78.8 | 89.0 | 77.4 |
| Dec. | 88.1 | 88.2 | 100.6 | 88.6 | 80.2 | 91.0 | 77.7 |
| Mar. | 90.1 | 94.4 | 102.1 | 90.3 | 82.4 | 90.2 | 75.5 |
| June | 91.0 | 98.7 | 103.2 | 91.4 | 84.2 | 88.3 | 74.6 |
| 1984-85 — Sept. | 90.9 | 99.1 | 105.7 | 86.4 | 81.2 | 88.4 | 76.4 |
| Dec. | 89.7 | 103.6 | 101.5 | 91.3 | 85.9 | 88.9 | 78.7 |
| Mar. | 89.4 | 98.4 | 104.2 | 94.9 | 88.6 | 89.8 | 84.7 |
| June | 89.6 | 91.5 | 110.6 | 99.0 | 90.5 | 89.7 | 91.6 |
| 1985-86 — Sept. | 89.4 | 90.5 | 115.0 | 104.5 | 92.1 | 89.4 | 96.2 |
| Dec. | 89.4 | 96.1 | 117.3 | 106.6 | 90.5 | 88.1 | 96.4 |
| Mar. | 90.1 | 105.6 | 116.1 | 104.0 | 88.1 | 86.8 | 93.5 |
| June | 91.4 | 110.8 | 112.7 | 98.5 | 87.0 | 87.5 | 91.0 |
| 1986-87 — Sept. | 91.7 | 109.2 | 109.9 | 94.9 | 87.8 | 88.9 | 88.5 |
| Dec. | 91.8 | 104.3 | 109.3 | 93.7 | 90.8 | 90.7 | 86.7 |
| Mar. | 93.3 | 100.0 | 110.1 | 95.6 | 94.1 | 92.2 | 85.9 |
| June | 95.4 | 100.7 | 110.6 | 99.0 | 96.0 | 94.3 | 86.2 |
| 1987-88 — Sept. | 97.4 | 105.2 | 109.1 | 101.7 | 97.7 | 97.2 | 88.8 |
| Dec. | 98.0 | 106.6 | 108.5 | 104.1 | 98.9 | 99.2 | 91.8 |
| Mar. | 96.7 | 102.3 | 108.7 | 107.0 | 99.7 | 99.5 | 93.8 |
| June | 96.4 | 99.0 | 108.2 | 110.9 | 102.0 | 100.0 | 96.0 |
| 1988-89 — Sept. | 97.6 | 101.0 | 107.6 | 114.1 | 104.1 | 100.3 | 99.3 |
| Dec. | 99.3 | 104.3 | 109.1 | 113.8 | 105.5 | 100.9 | 102.9 |
| Mar. | 100.4 | 105.9 | 114.0 | 109.9 | 105.8 | 100.8 | 104.4 |
| June | 99.8 | 102.0 | 117.3 | 104.6 | 104.4 | 99.4 | 103.1 |
| 1989-90 — Sept. | 99.7 | 99.7 | 113.1 | 100.8 | 103.1 | 98.1 | 102.2 |
| Dec. | 99.9 | 100.7 | 102.3 | 99.3 | 101.2 | 98.4 | 101.2 |
| Mar. | 100.1 | 100.0 | 93.0 | 100.0 | 98.6 | 100.5 | 99.6 |
| June | 100.3 | 99.7 | 91.3 | 100.0 | 97.1 | 103.0 | 97.1 |
| 1990-91 — Sept. | 100.7 | 99.3 | 93.2 | 96.5 | 96.5 | 104.2 | 94.3 |
| Dec. | 101.2 | 100.3 | 93.4 | 90.8 | 96.6 | 104.3 | 91.0 |
| Mar. | 101.5 | 103.3 | 91.3 | 86.5 | 96.7 | 104.4 | 87.8 |
| June | 101.2 | 103.9 | 88.2 | 86.1 | 96.1 | 104.5 | 85.5 |
| 1991-92 — Sept. | 101.2 | 103.6 | 86.3 | 88.8 | 94.8 | 104.4 | 83.7 |
| Dec. | 102.5 | 104.9 | 86.5 | 89.9 | 93.0 | 104.1 | 83.8 |
| Mar. | 105.1 | 104.3 | 87.1 | 87.1 | 91.1 | 103.7 | 85.3 |
| June | 108.4 | 102.3 | 86.7 | 83.2 | 89.5 | 103.7 | 86.9 |
| 1992-93 — Sept. | 110.0 | 98.4 | 87.1 | 81.4 | 88.6 | 104.9 | 88.4 |
| Dec. | 111.0 | 94.4 | 88.8 | 82.2 | 88.0 | 105.2 | 91.3 |
| Mar. | 112.8 | 92.5 | 91.5 | 84.0 | 87.6 | 104.9 | 95.4 |
| June | 115.7 | 89.5 | 92.0 | 84.5 | 88.9 | 106.3 | 100.1 |
| 1993-94 — Sept. | 118.0 | 82.6 | 92.2 | 83.3 | 93.3 | 109.6 | 103.4 |
| Dec. | 119.7 | 76.4 | 93.0 | 83.6 | 99.0 | 113.2 | 105.5 |
| Mar. | 122.0 | 75.1 | 93.7 | 87.2 | 104.5 | 115.3 | 108.0 |
| June | 126.0 | 78.7 | 92.8 | 93.5 | 109.9 | 116.0 | 110.6 |
| 1994-95 — Sept. | 129.6 | 83.3 | 92.0 | 99.3 | 115.0 | 116.7 | 112.4 |

TABLE 11. INDEXES OF MANUFACTURING GROSS PRODUCT AT AVERAGE 1989-90 PRICES,
BY SUBDIVISION — TREND ESTIMATES *continued*

| | | Index numbers (Base : 1989-90 = 100.0) | | | | | |
|---------|-------|--|--|--------------------------------|--|--|--------------------------------|
| | | <i>Basic metal products</i> | <i>Fabricated metal products</i> | <i>Transport equipment</i> | <i>Other machinery and equipment</i> | <i>Miscellaneous manufacturing</i> | <i>Total manufacturing</i> |
| 1978-79 | Sept. | 65.9 | 83.3 | 79.6 | 88.9 | 82.6 | 81.5 |
| | Dec. | 67.4 | 84.0 | 79.4 | 90.9 | 85.0 | 82.5 |
| | Mar. | 69.7 | 85.2 | 81.9 | 92.3 | 86.3 | 83.6 |
| | June | 71.0 | 87.6 | 86.5 | 93.4 | 87.1 | 84.8 |
| 1979-80 | Sept. | 72.9 | 89.8 | 90.5 | 93.8 | 87.1 | 85.9 |
| | Dec. | 75.1 | 90.3 | 91.2 | 94.0 | 86.5 | 86.7 |
| | Mar. | 75.6 | 88.5 | 88.0 | 94.2 | 85.7 | 86.7 |
| | June | 75.0 | 87.5 | 83.6 | 95.1 | 86.0 | 86.6 |
| 1980-81 | Sept. | 75.4 | 89.4 | 81.6 | 96.3 | 87.1 | 87.1 |
| | Dec. | 77.4 | 92.7 | 82.8 | 98.3 | 88.4 | 88.0 |
| | Mar. | 79.9 | 95.3 | 85.0 | 100.9 | 89.2 | 88.9 |
| | June | 79.8 | 96.9 | 86.2 | 102.8 | 90.4 | 89.4 |
| 1981-82 | Sept. | 78.7 | 97.7 | 86.4 | 104.7 | 92.7 | 89.9 |
| | Dec. | 78.4 | 98.1 | 87.3 | 105.2 | 94.3 | 90.6 |
| | Mar. | 78.2 | 97.4 | 90.5 | 105.3 | 93.7 | 91.0 |
| | June | 75.8 | 93.8 | 93.1 | 103.1 | 91.3 | 89.9 |
| 1982-83 | Sept. | 70.2 | 87.8 | 91.7 | 96.5 | 87.7 | 86.6 |
| | Dec. | 65.3 | 82.3 | 86.0 | 88.0 | 84.2 | 82.8 |
| | Mar. | 65.4 | 79.1 | 80.7 | 81.3 | 81.7 | 80.7 |
| | June | 69.7 | 78.2 | 79.3 | 80.1 | 81.2 | 81.0 |
| 1983-84 | Sept. | 73.2 | 78.4 | 81.1 | 82.1 | 83.6 | 82.6 |
| | Dec. | 74.1 | 79.6 | 82.7 | 82.9 | 86.0 | 84.0 |
| | Mar. | 74.9 | 81.7 | 83.8 | 82.6 | 88.4 | 85.2 |
| | June | 77.7 | 83.4 | 84.7 | 82.3 | 91.2 | 86.2 |
| 1984-85 | Sept. | 84.0 | 78.2 | 88.0 | 81.6 | 92.5 | 86.5 |
| | Dec. | 81.8 | 81.6 | 87.4 | 86.4 | 95.3 | 87.6 |
| | Mar. | 80.4 | 82.6 | 90.0 | 87.1 | 90.0 | 88.4 |
| | June | 81.7 | 83.6 | 93.1 | 86.6 | 82.3 | 89.4 |
| 1985-86 | Sept. | 83.9 | 86.0 | 93.5 | 86.6 | 78.5 | 90.4 |
| | Dec. | 84.1 | 87.9 | 90.1 | 86.9 | 79.3 | 90.3 |
| | Mar. | 82.3 | 88.5 | 88.1 | 87.5 | 84.1 | 89.9 |
| | June | 80.6 | 88.5 | 86.8 | 88.4 | 88.6 | 89.7 |
| 1986-87 | Sept. | 80.4 | 88.2 | 85.0 | 90.1 | 91.3 | 89.6 |
| | Dec. | 81.8 | 86.7 | 82.7 | 93.1 | 93.3 | 90.0 |
| | Mar. | 83.4 | 86.2 | 81.4 | 94.6 | 96.0 | 91.0 |
| | June | 84.9 | 88.8 | 82.8 | 95.0 | 100.7 | 92.8 |
| 1987-88 | Sept. | 86.1 | 93.7 | 85.3 | 95.5 | 104.7 | 95.0 |
| | Dec. | 86.2 | 98.2 | 85.9 | 96.9 | 104.7 | 96.3 |
| | Mar. | 85.9 | 101.9 | 86.4 | 98.9 | 102.3 | 96.7 |
| | June | 85.8 | 104.8 | 87.6 | 101.6 | 101.3 | 97.7 |
| 1988-89 | Sept. | 86.8 | 107.0 | 88.3 | 105.1 | 102.3 | 99.3 |
| | Dec. | 88.7 | 108.3 | 89.5 | 107.9 | 105.3 | 101.0 |
| | Mar. | 91.5 | 108.3 | 92.4 | 108.6 | 108.0 | 102.1 |
| | June | 95.2 | 106.3 | 96.1 | 106.5 | 106.9 | 101.8 |
| 1989-90 | Sept. | 98.2 | 103.5 | 99.5 | 103.0 | 103.3 | 101.1 |
| | Dec. | 100.1 | 100.6 | 100.9 | 100.2 | 99.9 | 100.2 |
| | Mar. | 100.8 | 98.7 | 100.0 | 98.5 | 98.0 | 99.4 |
| | June | 100.9 | 97.2 | 99.6 | 98.3 | 98.8 | 99.3 |
| 1990-91 | Sept. | 102.0 | 94.5 | 97.0 | 98.9 | 100.7 | 98.9 |
| | Dec. | 103.0 | 91.5 | 93.0 | 99.9 | 101.6 | 98.2 |
| | Mar. | 104.3 | 89.4 | 89.0 | 100.9 | 101.3 | 97.5 |
| | June | 104.9 | 88.2 | 85.7 | 101.6 | 101.0 | 96.9 |
| 1991-92 | Sept. | 104.4 | 88.1 | 84.4 | 100.8 | 101.3 | 96.5 |
| | Dec. | 103.8 | 87.6 | 84.1 | 97.9 | 100.5 | 96.1 |
| | Mar. | 103.3 | 85.3 | 83.2 | 97.4 | 97.9 | 95.9 |
| | June | 102.4 | 82.0 | 82.4 | 102.8 | 94.8 | 96.2 |
| 1992-93 | Sept. | 101.9 | 80.3 | 82.6 | 112.1 | 93.5 | 97.1 |
| | Dec. | 102.2 | 81.5 | 84.5 | 118.7 | 95.2 | 98.6 |
| | Mar. | 104.1 | 83.7 | 88.5 | 117.0 | 99.0 | 100.0 |
| | June | 106.9 | 85.4 | 92.7 | 113.5 | 102.3 | 101.8 |
| 1993-94 | Sept. | 108.9 | 86.4 | 96.3 | 115.6 | 105.9 | 104.1 |
| | Dec. | 109.8 | 87.4 | 102.4 | 122.5 | 109.9 | 107.0 |
| | Mar. | 110.6 | 88.8 | 110.1 | 128.2 | 114.0 | 110.4 |
| | June | 111.6 | 90.2 | 116.9 | 129.4 | 116.3 | 113.4 |
| 1994-95 | Sept. | 112.5 | 91.5 | 121.4 | 127.9 | 116.3 | 115.8 |

EXPLANATORY NOTES

Introduction

This publication presents in index number form, quarterly estimates of gross product at constant prices (average 1989-90 prices) for the non-farm, goods producing sector which, for brevity, is termed the 'industrial sector' (see paragraph 3). Also presented are indexes for component industries, including individual manufacturing subdivisions.

Changes in this issue

2. Revisions to data have effected the estimates in this issue. The changes are:

- (a) The estimates of mining quarterly gross product, used to produce the quarterly indexes, have now been benchmarked to 1992-93 Mining Census based estimates, and revised for 1991-92 (see paragraph 7);
- (b) Details for manufacturers' sales adjusted for changes in stocks, which are the basis of the indexes for the manufacturing sector, have been revised as a result of sample revision (see paragraph 16).

Scope of the estimates

3. The scope of the industrial sector referred to in this publication is defined to include all *establishments* classified to the Australian Standard Industrial Classification (ASIC) Division B (Mining), excluding ASIC subdivision 16 (Services to mining n.e.c.); Division C (Manufacturing); and Division D (Electricity, gas and water). The base year weights used in constructing the indexes in this publication have been derived from establishment data. However, the quarterly indicator series used for manufacturing are based on data relating to *business units* which may cover more than one establishment.

The table below sets out the base year weights associated with the major components of the industrial sector, and each manufacturing subdivision.

| | 1989-90 Weight % |
|--|---------------------|
| <i>Mining (excluding services to mining)</i> | 18.6 |
| <i>Manufacturing</i> | 67.8 |
| Food, beverages and tobacco | 14.0 |
| Textiles | 1.4 |
| Clothing and footwear | 2.2 |
| Wood, wood products and furniture | 3.5 |
| Paper, etc, printing and publishing | 6.4 |
| Chemicals, petroleum and coal products | 6.5 |
| Non-metallic mineral products | 3.4 |
| Basic metal products | 7.7 |
| Fabricated metal products | 5.2 |
| Transport equipment | 7.3 |
| Other machinery and equipment | 6.9 |
| Miscellaneous manufacturing | 3.3 |
| <i>Electricity, gas and water</i> | 13.6 |
| Total Industrial sector | 100.0 |

4. The use of Manufacturers' sales and stocks data means that the manufacturing indexes have three important limitations as measures of manufacturing production:

- (a) changes in quarterly production by manufacturing establishments of non-manufacturing businesses are not reflected in the indexes;
- (b) changes in a part of the quarterly production of non-manufacturing establishments of manufacturing businesses are reflected in the indexes; and
- (c) changes in quarterly production by government bodies such as shipyards and railway workshops are not reflected in the indexes.

5. The scope of the data used in the manufacturing indicator series also differs slightly from the general definition of manufacturing gross product. The stocks estimates used include finished goods bought in, but not manufactured, by a business. As far as can be assessed this has not had a significant influence on the estimates.

Derivation of the estimates of gross product

6. The estimates are derived using the *gross output* method whereby base year (1989-90) estimates of gross product are extrapolated by constant price estimates of gross output. All the quarterly indexes contained in this publication have been *benchmarked*, where possible, to annual estimates (see paragraph 7 below). For further details on the derivation of constant price gross product for individual industries refer to Chapter 18 in *Australian National Accounts : Concepts, Sources and Methods* (5216.0).

Benchmarking

7. Deriving quarterly estimates presents special problems in that it is often difficult to adhere strictly to the definitions and concepts used in annual estimates. Frequently, it is not possible to use the same data sources as used for annual estimates, and alternative quarterly data sources are generally much less detailed. For example, annual estimates of gross product for the Mining industry (as published in *Australian National Accounts : National Income and Expenditure* (5204.0)) are compiled (using the double deflation method) from detailed output and input data from the annual census of mining establishments. On the other hand, the quarterly series draw on the quantities of minerals mined (gross output), reported in surveys of mining establishments. In such cases, where the quarterly estimates are inferior to the annual, the quarterly estimates are adjusted to agree with the annual estimates in such a way that preserves, as far as practical, the movements of the quarterly series. This is commonly referred to as *benchmarking*.

Data sources for quarterly output series

(i) Mining (excluding services to mining)

8. Quarterly constant price output estimates are derived for major ASIC classes by quantity revaluation (i.e. quantities produced each quarter multiplied by associated base year (1989-90) average prices). Estimates of quantities produced are obtained from data contained in *Quarterly*

Mineral Statistics (Australian Bureau of Agriculture and Resource Economics) and *Mineral Production, Australia* (8405.0). Constant price estimates of value added are derived by the gross output method (see paragraph 6) for each ASIC class. Total quarterly estimates of value added are then benchmarked (see paragraph 7) to annual gross product estimates obtained from the mining census.

(ii) *Manufacturing*

9. Quarterly constant price estimates of gross output for 22 manufacturing industry groups (excluding petroleum) are derived by summing constant price estimates of manufacturers' sales of manufactured goods, other operating revenue (where significant) and changes in the level of stocks of finished goods and work-in-progress.

10. Constant price estimates of all components of manufacturing output are derived by price deflation, i.e. current price components (obtained from the quarterly Survey of Stocks and Manufacturers' Sales) are derived by fixed weighted producer price indexes (published in *Price Indexes of Articles Produced by Manufacturing Industry, Australia* (6412.0)).

11. Quarterly petroleum production estimates are based on quarterly data published in *Major Energy Statistics* (released by the Department of Primary Industries and Energy).

12. Quarterly constant price estimates of output are used to derive constant price estimates of gross product at factor cost by the gross output method. The latter estimates are aggregated to 12 manufacturing ASIC subdivisions and then benchmarked to corresponding annual estimates of gross product at market prices (based on manufacturing census data).

(iii) *Electricity*

13. Quarterly quantities of electricity produced, as published in *Production of Energy Products, Australia* (8368.0), are benchmarked to annual gross product estimates based on the quantity of electricity sold (published by the Electricity Supply Association of Australia in *The Electricity Industry of Australia*).

(iv) *Gas*

14. Quarterly quantities of gas available through mains, are published in *Production of Energy Products, Australia* (8368.0), are benchmarked to gross product estimates derived from ABS economic census data relating to the performance of the gas production and distribution industry.

(v) *Water and sewerage*

15. Quarterly constant price output estimates are derived by quantity revaluation, i.e. quantities of water sold (to final consumers and for irrigation) and sewerage connections, are multiplied by average 1989-90 prices for each type of service. The quantity data are supplied by a selection of state and local government authorities. Quarterly output estimates are then benchmarked to annual constant price gross product estimates.

Sample revision

16. Each year the sample used for the survey of stocks and manufacturers' sales is revised. Differences between the old and revised samples have in general been apportioned back over the preceding quarters of each year, and incorporated in the estimates included in this publication. For more information on the sample revision, refer to *Stocks and Manufacturers' Sales, Australia* (5629.0).

Reliability of estimates

17. Because the measures used in the derivation of the manufacturing indexes are based on a sample survey, the indexes themselves are subject to sampling variability. In terms of original estimates the standard errors in percentage terms approximate the errors reported in *Stocks and Manufacturers' Sales, Australia* (5629.0). However, for constant price estimates the standard errors may be up to 10 per cent higher than those for the corresponding current price estimates because of the sampling variability contained in the prices data used to deflate the current price estimates. Seasonally adjusting the estimates has an insignificant effect on standard errors.

18. The imprecision due to sampling variability, which is measured by the standard error, should not be confused with inaccuracies that may occur because of imperfections in reporting by respondents and errors made in collecting and processing data. Inaccuracies of this kind are known as non-sampling errors and may occur in any collection, whether it be a sample or a full count. In addition to the non-sampling errors which may occur in current prices estimates, there may be non-sampling errors introduced by the process of compiling constant price estimates. These further errors may arise from the introduction of additional data and from the assumptions and approximations which are necessary in compiling constant price estimates. Every effort is made to minimise non-sampling errors by careful design of forms, editing of data and efficient operating procedures.

Seasonal adjustment

19. Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences on the series may be more clearly recognized. Seasonal adjustment procedures do *not* aim to remove the irregular or non-seasonal influences which may be present in any particular quarter, such as the effect of a major industrial dispute or major plant breakdowns. Irregular factors of this nature can make it difficult to interpret the movement of the series even after adjustment for seasonal variation.

20. Seasonal adjustment may be carried out by various methods and the results may vary slightly according to the procedure adopted. Accordingly, seasonally adjusted statistics should not be regarded as in any way definitive. In interpreting particular seasonally adjusted statistics it is important to note the methods by which they have been derived and the limitations to which the methods used are subject. Details of the various seasonal adjustment methods used are available on request.

Trend estimates

21. The seasonally adjusted series can be smoothed to reduce the impact of the irregular component in the adjusted series. There are a number of ways of accomplishing this, depending on the intended uses of the smoothed series. If importance is attached to measuring the underlying change in the most recent periods, moving averages employing appropriate weighting patterns should be adopted; the choice of averaging technique will determine the degree of smoothness of the derived series. For example, a 9-term moving average will even out more of the short term fluctuation in a series (and therefore appear 'smoother') than will a 5-term moving average. However, the longer the term of the moving average the longer the series affected by revisions resulting from more recent data becoming available. Such smoothed seasonally adjusted estimates are referred to as 'trend estimates' in this publication.

22. Trend estimates included in this issue are derived using a 7-term Henderson moving average. (The weights of the 7-term average are available upon request.) As a moving average approaches the end of a time series and begins to run out of observations, asymmetric averages have been used. Unlike the asymmetric weights of the standard 7-term Henderson moving averages, the weights employed here have been tailored to suit the particular characteristics of individual manufacturing subdivisions.)

23. Users may wish to refer to the ABS Information Papers *A Guide to Smoothing Time Series — Estimates of 'Trend'* (1316.0) and *Time Series Decomposition — An Overview* (1317.0) for more detailed information on smoothing seasonally adjusted time series data.

Related publications

24. Users may also wish to refer to the following publications:

Australian National Accounts : National Income and Expenditure (5204.0) — issued annually

Australian National Accounts : National Income and Expenditure (5206.0) — issued quarterly

Australian National Accounts : Concepts, Sources and Methods (5216.0)

Manufacturing Industry, Australia (8221.0) — issued annually

Mining Industry, Australia (8402.0) — issued annually

Price Indexes of Articles Produced by Manufacturing Industry, Australia (6412.0) — issued monthly

Production Statistics, Australia, Preliminary (8301.0) — issued monthly

Stocks and Manufacturers' Sales, Australia (5629.0) — issued quarterly

25. Current publications produced by the ABS are listed in the *Catalogue of Publications and Products, Australia* (1101.0). The ABS also issues on Tuesday and Fridays, a *Publications Advice* (1105.0) which lists publications to be released in the next few days. The Catalogue and Publications Advice are available from any ABS office.

Symbols and other usages

- nil or rounded to zero
- ASIC Australian Standard Industrial Classification, 1983 edition

RICHARD MADDEN
Acting Australian Statistician

