# Manufacturing: production and sales P3041.2 

June 2000
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## Key figures as at the end of June 2000

| Actual estimates | June 2000 | \% change between June 1999 and June 2000 | $\begin{gathered} \text { \% change } \\ \text { between } \\ \text { April } 1999 \text { to } \\ \text { June } 1999 \\ \text { and } \\ \text { April } 2000 \text { to } \\ \text { June } 2000 \end{gathered}$ | \% change between January 1999 to June 1999 and January 2000 to June 2000 |
| :---: | :---: | :---: | :---: | :---: |
| Physical volume of manufacturing production index (1995=100) | 110,8 | +10,2 | +5,0 | +5,1 |
| Total value of sales of manufactured products ( R million) | 38 495,1 | 16,3 | +12,6 | +12,8 |

$\left.\begin{array}{|l|c||c||c||}\hline \begin{array}{l}\text { Seasonally } \\ \text { adjusted } \\ \text { estimates }\end{array} & \begin{array}{c}\text { June }\end{array} & \begin{array}{c}\text { \% change } \\ \text { between } \\ \text { May 2000 } \\ \text { and }\end{array} & \begin{array}{c}\text { \% change } \\ \text { between } \\ \text { January 2000 to } \\ \text { March 2000 } \\ \text { and }\end{array} \\ \text { June 2000 } \\ \text { Juil 2000 to }\end{array}\right]$

## Key findings as at the end of June 2000

## MANUFACTURING PRODUCTION DECREASES

Manufacturing production for the second quarter of 2000 reflected a decrease of 0,8\% after seasonal adjustment compared with the first quarter of 2000. Lower manufacturing production was reported in 18 of the 27 manufacturing major divisions.

The major contributors to the decrease of $0,8 \%$ after seasonal adjustment in the total manufacturing production were the fabricated metal products ( $-0,6$ of a percentage point), followed by the basic iron and steel ( $-0,4$ of a percentage point), the motor vehicle ( $-0,4$ of a percentage point), the machinery and equipment ( $-0,2$ of a percentage point) and the furniture ( $-0,2$ of a percentage point) divisions. However, these decreases were partially counteracted by increases in the basic chemicals ( $+0,6$ of a percentage point), the beverages $(+0,3$ of a percentage point) and the basic precious and non-ferrous metal products $(+0,3$ of a percentage point) divisions (cf. Table A).

The total value of sales of manufactured products reflected an increase of 3,2\% (R3 390 million) after seasonal adjustment for the second quarter of 2000 compared with the first quarter of 2000 . The largest increases were reported by the coke and refined petroleum products ( $+18,0 \%$ or R1 164 million), the basic precious and non-ferrous metal products $(+9,8 \%$ or R344 million) and the food and food products ( $+4,6 \%$ or R657 million) divisions during this period.

Table A - Contribution of the production by the different manufacturing divisions to the total manufacturing production (Base 1995=100)

| Manufacturing Divisions | Percentage contribution to the total manufacturing production in the base year 1995 (Weights) | Average seasonally adjusted production index for the three months Apr. 2000 - Jun. 2000 | Quarterly percentage change $\begin{aligned} & \text { (Apr. } \quad 2000 \\ & - \text { Jun. } 2000 \end{aligned}$ <br> compared with the preceding three months) | ```Contribution (percentage points) to the seaso- nally adjus- ted quarterly percentage change in total manu- facturing production 1/``` |
| :---: | :---: | :---: | :---: | :---: |
| Food and food products | 10,7 | 97, 3 | +0,5 | +0,1 |
| Beverages | 4,6 | 98,9 | +6,1 | +0, 3 |
| Total textiles | 2,9 | 94,8 | -1, 6 | -0,1 |
| Total Wearing apparel | 3,6 | 86,0 | -0,1 | -0,0 |
| Tanning and dressing of leather | 0,4 | 127,7 | +3, 0 | +0,0 |
| Footwear | 0,9 | 68,2 | -3, 7 | -0,0 |
| Wood and products of wood | 1,9 | 120,0 | +0,7 | +0,0 |
| Paper and paper products | 5,3 | 104,0 | +1, 3 | +0,1 |
| Total publishing and printing | 4,1 | 92,4 | -1,9 | -0,1 |
| Coke and refined petroleum products | 4,2 | 106,0 | +0,5 | +0,0 |
| Basic chemicals | 4,5 | 144,9 | +14,1 | +0,6 |
| Other chemical products | 6,2 | 102,8 | +0,5 | +0,0 |
| Rubber products | 1,4 | 97, 7 | -0,8 | -0,0 |
| Plastic products | 3,1 | 85, 2 | -3,6 | -0,1 |
| Glass and glass products | 1,0 | 82,4 | +0,1 | -0,0 |
| Other non-metallic mineral products | 3,5 | 87,5 | -3,0 | -0,1 |
| Basic iron and steel products | 7,6 | 114,2 | -5,1 | -0, 4 |
| Basic precious and non-ferrous metal products | 3,2 | 168,1 | +8,5 | +0, 3 |
| Fabricated metal products | 7,0 | 98,5 | -7, 8 | -0,6 |
| Total machinery and equipment | 5,8 | 92,6 | -3,5 | -0,2 |
| Electrical machinery, apparatus | 3,4 | 101,6 | -0,0 | -0,0 |
| Radio, television and communication apparatus | 1,0 | 121,0 | -5,1 | -0,1 |
| Professional equipment | 0,5 | 73,6 | -6,2 | -0,0 |
| Motor vehicles; trailers; parts and accessories | 8,0 | 112,9 | -4,5 | -0,4 |
| Other transport equipment | 1,0 | 108,3 | -3,1 | -0,0 |
| Furniture | 1,6 | 93,9 | -11,8 | -0,2 |
| Other manufacturing industries | 2,6 | 103,7 | -4,8 | -0,1 |
| TOTAL | 100,0 | 104,4 | -0, 8 | -0,8 |

1/ The contribution is calculated by multiplying the quarterly percentage change of each manufacturing division with its corresponding weight in the base year.

## Notes

Forthcoming issues

| Issue | Expected release date |
| :--- | :--- |
| July 2000 | 12 September 2000 |
| August 2000 | 10 October 2000 |
| September 2000 | 7 November 2000 |
| October 2000 | 12 December 2000 |
| November 2000 | 9 January 2001 |
| December 200 | 06 February 2001 |

Purpose of the survey
The monthly Manufacturing Production and Sales Survey is a country-wide sample survey covering a sample of
private establishments, public corporations and government establishments operating in the manufacturing industry in the South African economy. The results of this survey are used to calculate physical volume of manufacturing production indices in order to estimate the gross domestic product (GDP) to monitor and develop Government policy.

Table 1 - Indices of the physical volume of manufacturing production: Total Base $1995=100$

| Month | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Actual indices |  |  |  |  |  |  |  |
| J | 72,7 | 80,6 | 83,6 | 89,8 | 89,6 | 86,7 | 88,8 |
| F | 87,0 | 97,6 | 96,7 | 103,1 | 101,1 | 98,0 | 103,2 |
| M | 95,6 | 104,2 | 102,6 | 102,5 | 102,8 | 101,5 | 109,3 |
| A | 82,8 | 91,0 | 96,4 | 105,5 | 96,3 | 94,8 | 93,7* |
| M | 84,8 | 101, 8 | 104,1 | 106, 2 | 101,1 | 101, 1 | 106,7 |
| J | 92,4 | 102,4 | 102,9 | 104, 9 | 104,5 | 100,5 | 110,8 1/ |
| $J$ | 92,9 | 101, 7 | 104,7 | 108, 2 | 104,4 | 104,3 |  |
| A | 94,0 | 106,0 | 107, 8 | 105, 8 | 100, 0 | 103,5 |  |
| S | 100,9 | 106,7 | 105,2 | 108, 3 | 106,8 | 107,0 |  |
| 0 | 104,2 | 112,5 | 115, 8 | 119, 1 | 111,8 | 112,9 |  |
| N | 108,2 | 110, 7 | 114,4 | 111, 7 | 109,8 | 115,5 |  |
| D | 85, 3 | 84,8 | 83,7 | 86,9 | 85, 3 | 90, 6 |  |
| Year | 91,7 | 100, 0 | 101,5 | 104,3 | 101, 1 | 101, 4 |  |
| Seasonally adjusted indices |  |  |  |  |  |  |  |
| J | 87,5 | 96,5 | 99, 1 | 105,6 | 105, 0 | 100,9 | 102, 9 |
| F | 88, 3 | 99,4 | 98,7 | 105, 2 | 102,9 | 99,7 | 104, 8 |
| M | 91, 2 | 100,0 | 99, 5 | 100,4 | 101,1 | 100,0 | 108, 0 |
| A | 88,6 | 97,2 | 102,1 | 111, 2 | 101, 4 | 99, 6 | 98,7 |
| M | 85,4 | 101, 8 | 104,1 | 105,6 | 100,2 | 100,4 | 106,0 |
| J | 91, 4 | 101,2 | 101,4 | 103, 1 | 102,5 | 98,6 | 108, 6 |
| J | 91, 6 | 99,9 | 102,4 | 105,5 | 101, 6 | 101, 5 |  |
| A | 90,9 | 102,7 | 104,5 | 102,9 | 97,6 | 101, 3 |  |
| S | 95,8 | 101, 5 | 100,2 | 103,1 | 102,1 | 102,6 |  |
| $\bigcirc$ | 94,0 | 101,1 | 103,1 | 105,9 | 99, 7 | 100, 7 |  |
| N | 97,2 | 99,8 | 103,2 | 101, 2 | 99,8 | 105, 3 |  |
| D | 98,1 | 98, 2 | 98, 8 | 102,4 | 101, 0 | 108, 0 |  |

* Revised

1/ Preliminary

Table 2 - Indices of the physical volume of manufacturing production according to manufacturing divisions and major groups

| Manufacturing divisions and major groups | Weights | \| Year | Actual indices |  |  | Seasonally adjusted indices |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | June | May | June 1/ | June | May | June |
|  |  |  | 1999 | 2000 |  | 1999 | 2000 |  |
| Food and food products | 10,7 | 99,2 | 102, 8 | 99,5 | 104,9 | 99,6 | 95,9 | 101, 3 |
| Meat, fish, fruit etc. | 2,8 | 112,4 | 104,2 | 116,7 | 106,1 | 112,8 | 115,5 | 115,1 |
| Dairy products | 1,4 | 92,8 | 83,7 | 75,8 | 80,2 | 92,0 | 81, 3 | 87, 8 |
| Grain mill products | 2,1 | 93,9 | 92, 3 | 98,4 | 96,6 | 93,3 | 96,7 | 97,5 |
| Other food products | 4,4 | 95,3 | 112,8 | 96,3 | 115,7 | 96,4 | 87,5 | 98, 5 |
| Beverages | 4,6 | 100,8 | 86,8 | 82,9 | 94,6 | 101,0 | 87,4 | 110,1 |
| Total textiles | 2,9 | 91, 3 | 90,7 | 98,2 | 102,3 | 88,4 | 94,7 | 99, 2 |
| Textiles | 1,7 | 83, 8 | 84,0 | 88,4 | 96,5 | 81,1 | 86,7 | 92,9 |
| Other textile products | 1,2 | 101,9 | 100,3 | 112,0 | 110,6 | 98,8 | 106, 1 | 108,1 |
| Total wearing apparel | 3,6 | 88, 3 | 77,9 | 83, 5 | 79,8 | 87,9 | 88,7 | 90,0 |
| Knitted, crocheted articles | 0,6 | 82,5 | 79,1 | 88,1 | 85,1 | 76,0 | 80, 2 | 82,1 |
| Wearing apparel | 3,0 | 89,5 | 77, 6 | 82,6 | 78,7 | 90, 2 | 90,4 | 91, 6 |
| Tanning and dressing of leather | 0,4 | 122,9 | 123,2 | 153,7 | 122,7 | 123,3 | 145,6 | 122,7 |
| Footwear | 0,9 | 69,2 | 68,1 | 64,1 | 66,1 | 70,3 | 67,8 | 67, 8 |
| Wood and products of wood | 1,9 | 114,1 | 115,1 | 123,4 | 124,7 | 115,0 | 125,1 | 124,4 |
| Sawmilling and planing of wood | 0, 8 | 104,2 | 103,0 | 105,5 | 107,7 | 102,9 | 109, 5 | 107,5 |
| Products of wood | 1,2 | 120,6 | 123, 0 | 135,2 | 135, 8 | 123,0 | 135, 3 | 135,5 |
| Paper and paper products | 5,3 | 98,2 | 98,9 | 113,3 | 106,2 | 93,6 | 114,8 | 100,5 |
| Total publishing and printing | 4,1 | 93,1 | 89,5 | 91,9 | 92, 2 | 90,9 | 91, 8 | 93, 8 |
| Publishing | 1,5 | 99,6 | 96,8 | 94,5 | 96, 3 | 95, 5 | 97,4 | 95,1 |
| Printing, recorded media | 2,6 | 89,5 | 85,4 | 90,5 | 89,9 | 88, 3 | 88,6 | 93,1 |
| Coke and refined petroleum products | 4,2 | 106,4 | 105,7 | 107,5 | 112,1 | 103,7 | 106,1 | 110,1 |
| Basic chemicals | 4,5 | 126,9 | 114,4 | 146,5 | 151, 7 | 111,6 | 159, 0 | 147,9 |
| Other chemical products | 6,2 | 103,3 | 97,9 | 96,1 | 104,1 | 98, 1 | 99,5 | 104,8 |
| Rubber products | 1,4 | 92,8 | 90, 7 | 114,0 | 119,1 | 78,6 | 112,7 | 103,4 |
| Plastic products | 3,1 | 86,5 | 86,1 | 84,2 | 87, 1 | 85,9 | 86,9 | 86,9 |
| Glass and glass products | 1,0 | 85,2 | 84,9 | 74,7 | 87,4 | 77,4 | 80,2 | 80,1 |
| Other non-metallic mineral products | 3,5 | 85,0 | 90,1 | 89,2 | 95, 8 | 83,2 | 88,0 | 88,4 |
| Basic iron and steel products | 7,6 | 96,9 | 98, 3 | 125,6 | 119,9 | 91, 8 | 116,5 | 112,4 |
| Basic precious and non-ferrous metal products | 3,2 | 153,3 | 153,8 | 164,9 | 180,2 | 154,1 | 164,7 | 179,1 |
| Fabricated metal products | 7,0 | 99,1 | 92,9 | 104,4 | 105,9 | 93, 5 | 103,2 | 107,2 |
| Structural metal products | 2,4 | 95,9 | 84,0 | 95,7 | 79,9 | 79, 3 | 91,9 | 76,0 |
| Other fabricated metal product | 4,6 | 100,8 | 97,4 | 108,9 | 119,2 | 100,8 | 109, 0 | 123,2 |
| Total machinery and equipment | 5,8 | 97, 5 | 104,9 | 97,8 | 104,5 | 99, 7 | 96,1 | 100,5 |
| General purpose machinery | 2,5 | 111,5 | 133,6 | 101,4 | 121,3 | 115,6 | 94,8 | 104,2 |
| Special purpose machinery | 2,9 | 84,4 | 78,7 | 92,9 | 85,9 | 84,2 | 95,9 | 93,0 |
| Household appliances | 0,4 | 105,3 | 114,4 | 110,6 | 135,2 | 112,6 | 106,2 | 132,2 |
| Electrical machinery, apparatus | 3,4 | 96,5 | 93, 3 | 100, 2 | 113,7 | 89,5 | 101, 4 | 109,4 |
| Radio, television and communication apparatus | 1,0 | 126,9 | 140,7 | 110,8 | 123,1 | 130,9 | 101,1 | 114,7 |
| Professional equipment | 0,5 | 77,9 | 80,5 | 81, 5 | 74,0 | 76,4 | 78,8 | 70,4 |
| Motor vehicles; trailers; parts and accessories | 8,0 | 102,5 | 108,3 | 122,7 | 129,4 | 100,9 | 117,1 | 120,5 |
| Motor vehicles | 4,5 | 97,0 | 109, 8 | 116,0 | 123, 5 | 97,9 | 107,3 | 109, 6 |
| Bodies for motor vehicles; trailers and semi-trailers | 0,5 | 64,3 | 55,8 | 71,3 | 72,0 | 54,8 | 74,0 | 70,8 |
| Parts and accessories | 3, 0 | 117,7 | 115,7 | 142,1 | 148,7 | 113,8 | 139,7 | 146,0 |
| Other transport equipment | 1,0 | 113, 1 | 108, 8 | 114,7 | 109, 1 | 110,6 | 107,4 | 110, 8 |
| Furniture | 1,6 | 102,6 | 110,9 | 94,3 | 106,6 | 107,4 | 96,9 | 102, 6 |
| Other manufacturing industries | 2,6 | 107,7 | 107, 0 | 102,8 | 112,9 | 105,5 | 102, 6 | 110,4 |
| TOTAL | 100,0 | 101,4 | 100,5 | 106,7 | 110, 8 | 98,6 | 106, 0 | 108, 6 |

* Revised

1/ Preliminary

Table 3 - Value of sales of the manufacturing industry: Total (R'000)

| Month | 1994 |  |  | 1995 |  |  | 1996 |  | 1997 |  |  |  | 1998 |  |  | 1999* |  |  | 2000 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Actual values |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| J | 16 | 267 | 098 | 19 | 206 | 220 | 21 | 803 | 249 | 25 | 254 | 480 | 25 | 913 | 926 | 26 | 410 | 458 | 28 | 426 | 939* |
| F | 19 | 815 | 926 | 24 | 414 | 317 | 26 | 328 | 500 | 29 | 866 | 793 | 29 | 901 | 544 | 30 | 607 | 558 | 35 | 030 | 754* |
| M | 22 | 056 | 191 | 26 | 712 | 878 | 28 | 188 | 286 | 29 | 866 | 272 | 32 | 190 | 538 | 32 | 788 | 344 | 37 | 936 | 272* |
| A | 19 | 132 | 660 | 22 | 897 | 368 | 26 | 231 | 967 | 30 | 438 | 604 | 29 | 758 | 879 | 30 | 508 | 382 | 32 | 803 | 412* |
| M | 19 | 723 | 817 | 25 | 806 | 431 | 28 | 293 | 052 | 30 | 626 | 091 | 30 | 352 | 835 | 32 | 711 | 351 | 37 | 187 | 406 |
| J | 22 | 055 | 323 | 26 | 204 | 689 | 28 | 261 | 416 | 30 | 575 | 542 | 31 | 723 | 893 | 33 | 095 | 019 | 38 | 495 | 142 1/ |
| J | 22 | 251 | 097 | 25 | 613 | 126 | 28 | 378 | 392 | 31 | 169 | 707 | 31 | 732 | 667 | 33 | 398 | 049 |  |  |  |
| A | 21 | 957 | 670 | 27 | 064 | 919 | 29 | 568 | 761 | 31 | 400 | 042 | 30 | 810 | 619 | 33 | 707 | 678 |  |  |  |
| S | 23 | 954 | 300 | 27 | 737 | 968 | 29 | 549 | 724 | 31 | 344 | 644 | 32 | 896 | 327 | 35 | 898 | 489 |  |  |  |
| - | 25 | 209 | 944 | 29 | 294 | 559 | 33 | 070 | 022 | 35 | 902 | 602 | 34 | 970 | 472 | 37 | 387 | 455 |  |  |  |
| N | 26 | 275 | 416 | 29 | 960 | 074 | 33 | 084 | 713 | 33 | 709 | 581 | 34 | 300 | 610 | 38 | 805 | 040 |  |  |  |
| D | 20 | 667 | 319 | 23 | 877 | 458 | 26 | 338 | 721 | 28 | 128 | 922 | 29 | 016 | 347 | 33 | 001 | 663 |  |  |  |
| Year | 259 | 366 | 761 | 308 | 790 | 007 | 339 | 096 | 803 | 368 | 283 | 280 | 373 | 568 | 657 | 398 | 319 | 486 |  |  |  |
| Seasonally adjusted values |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| J | 19 | 822 | 945 | 23 | 563 | 328 | 26 | 504 | 927 | 30 | 671 | 683 | 31 | 298 | 961 | 31 | 844 | 236 |  | 183 | 362 |
| F | 20 | 118 | 754 | 24 | 784 | 063 | 26 | 815 | 720 | 30 | 523 | 802 | 30 | 626 | 986 | 31 | 440 | 112 | 35 | 922 | 688 |
| M | 20 | 746 | 106 | 25 | 290 | 552 | 26 | 875 | 830 | 28 | 720 | 370 | 31 | 008 | 385 | 31 | 646 | 910 | 36 | 578 | 889 |
| A | 20 | 330 | 032 | 24 | 288 | 834 | 27 | 735 | 126 | 32 | 111 | 542 | 31 | 401 | 947 | 32 | 210 | 385 | 34 | 710 | 594 |
| M | 20 | 159 | 829 | 26 | 152 | 290 | 28 | 462 | 031 | 30 | 755 | 957 | 30 | 418 | 085 | 32 | 830 | 141 | 37 | 322 | 406 |
| J | 21 | 901 | 069 | 25 | 980 | 567 | 28 | 057 | 138 | 30 | 294 | 752 | 31 | 364 | 378 | 32 | 780 | 266 | 38 | 041 | 893 |
| J | 22 | 154 | 742 | 25 | 488 | 995 | 28 | 271 | 531 | 30 | 943 | 415 | 31 | 487 | 011 | 33 | 080 | 640 |  |  |  |
| A | 21 | 214 | 961 | 26 | 205 | 652 | 28 | 794 | 895 | 30 | 704 | 526 | 30 | 313 | 713 | 33 | 265 | 835 |  |  |  |
| S | 22 | 751 | 500 | 26 | 485 | 336 | 28 | 265 | 536 | 30 | 022 | 490 | 31 | 550 | 908 | 34 | 556 | 842 |  |  |  |
| $\bigcirc$ | 22 | 677 | 057 | 26 | 203 | 864 | 29 | 541 | 787 | 32 | 058 | 045 | 31 | 160 | 821 | 33 | 372 | 406 |  |  |  |
| N | 23 | 540 | 310 | 26 | 874 | 995 | 29 | 756 | 822 | 30 | 352 | 312 | 30 | 889 | 701 | 35 | 047 | 279 |  |  |  |
| D | 23 | 383 | 534 | 26 | 817 | 843 | 29 | 373 | 475 | 31 | 056 | 159 | 31 | 799 | 218 | 36 | 506 | 323 |  |  |  |

[^0]Table 4 - Value of sales of manufactured products according to
manufacturing divisions and major groups ( $\mathrm{R}^{\prime} 000$ )

| Manufacturing divisions and major groups | Year |  |  | Actual values |  |  |  |  |  |  |  |  | Seasonally adjusted values |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | June |  |  | ay |  |  | June |  |  | June |  |  | May |  |  | une |  |
|  | 1999 |  |  | 1999 |  |  | 2000 |  |  |  |  |  | 1999 |  |  | 2000 |  |  |  |  |  |
| Food and food products | 57 | 143 | 807 |  | 4718 | 553 | 4 | 999 | 969 |  | 5051 | 309 | 4 | 820 | 076 | 5 | 003 | 900 | 5 | 171 | 485 |
| Meat, fish, fruit etc. | 17 | 159 | 161 |  | 1358 | 238 | 1 | 525 | 143 |  | 1447 | 497 | 1 | 434 | 552 | 1 | 489 | 192 | 1 | 534 | 378 |
| Dairy products | 7 | 152 | 593 |  | 550 | 855 |  | 542 | 255 |  | 557 | 156 |  | 596 | 976 |  | 567 | 125 |  | 603 | 135 |
| Grain mill products | 14 | 871 | 882 |  | 1226 | 555 | 1 | 385 | 270 |  | 1365 | 834 | 1 | 225 | 891 | 1 | 359 | 209 | 1 | 363 | 514 |
| Other food products | 17 | 960 | 171 |  | 1582 | 905 | 1 | 547 | 301 |  | 1680 | 822 | 1 | 562 | 657 | 1 | 588 | 374 | 1 | 670 | 458 |
| Beverages | 20 | 605 | 141 |  | 1438 | 001 |  | 428 | 057 |  | 1562 | 634 | 1 | 701 | 384 | 1 | 574 | 976 | 1 | 840 | 935 |
| Total textiles | 9 | 770 | 275 |  | 835 | 715 |  | 901 | 933 |  | 948 | 183 |  | 794 | 020 |  | 852 | 947 |  | 901 | 616 |
| Textiles | 6 | 304 | 565 |  | 541 | 317 |  | 570 | 866 |  | 605 | 843 |  | 511 | 013 |  | 540 | 282 |  | 571 | 214 |
| Other textile products | 3 | 465 | 710 |  | 294 | 398 |  | 331 | 067 |  | 342 | 340 |  | 283 | 007 |  | 312 | 665 |  | 330 | 402 |
| Total wearing apparel | 10 | 994 | 539 |  | 794 | 826 |  | 846 | 641 |  | 860 | 309 |  | 914 | 331 |  | 913 | 034 |  | 992 | 277 |
| Knitted, crocheted articles | 1 | 858 | 591 |  | 169 | 210 |  | 159 | 397 |  | 173 | 395 |  | 156 | 405 |  | 142 | 420 |  | 159 | 927 |
| Wearing apparel | 9 | 135 | 948 |  | 625 | 616 |  | 687 | 244 |  | 686 | 914 |  | 757 | 926 |  | 770 | 614 |  | 832 | 350 |
| Tanning and dressing of leather | 2 | 577 | 530 |  | 212 | 526 |  | 261 | 761 |  | 246 | 678 |  | 214 | 847 |  | 236 | 267 |  | 249 | 530 |
| Footwear | 2 | 379 | 127 |  | 191 | 481 |  | 197 | 307 |  | 184 | 044 |  | 208 | 928 |  | 209 | 121 |  | 199 | 592 |
| Wood and products of wood | 8 | 386 | 436 |  | 715 | 691 |  | 814 | 600 |  | 741 | 812 |  | 705 | 491 |  | 809 | 017 |  | 732 | 203 |
| Sawmilling and planing of wood | 2 | 380 | 674 |  | 204 | 020 |  | 217 | 994 |  | 223 | 617 |  | 198 | 767 |  | 219 | 683 |  | 217 | 419 |
| Products of wood | 6 | 6005 | 762 |  | 511 | 671 |  | 596 | 606 |  | 518 | 195 |  | 506 | 724 |  | 589 | 334 |  | 514 | 784 |
| Paper and paper products | 20 | 400 | 594 | 1 | 1736 | 791 | 1 | 995 | 551 |  | 1970 | 953 | 1 | 665 | 093 | 1 | 982 | 814 | 1 | 879 | 062 |
| Total publishing and printing | 11 | 664 | 938 |  | 905 | 573 |  | 995 | 240 |  | 975 | 084 |  | 936 | 105 | 1 | 006 | 588 | 1 | 010 | 899 |
| Publishing | 4 | 471 | 082 |  | 361 | 167 |  | 377 | 267 |  | 370 | 048 |  | 359 | 256 |  | 387 | 282 |  | 368 | 748 |
| Printing, recorded media | 7 | 193 | 856 |  | 544 | 406 |  | 617 | 973 |  | 605 | 036 |  | 576 | 849 |  | 619 | 306 |  | 642 | 151 |
| Coke and refined petroleum products | 20 | 999 | 687 |  | 1806 | 952 | 2 | 394 | 185 |  | 2815 | 023 | 1 | 734 | 831 | 2 | 481 | 833 |  | 688 | 847 |
| Basic chemicals | 19 | 872 | 911 |  | 1576 | 030 | 1 | 875 | 869 |  | 2096 | 340 | 1 | 530 | 278 | 1 | 961 | 783 | 2 | 050 | 831 |
| Other chemical products | 25 | 490 | 045 |  | 1995 | 748 | 2 | 134 | 951 |  | 2154 | 008 | 2 | 047 | 823 | 2 | 207 | 704 | 2 | 232 | 906 |
| Rubber products | 4 | 167 | 229 |  | 355 | 430 |  | 416 | 300 |  | 473 | 817 |  | 326 | 183 |  | 411 | 008 |  | 436 | 010 |
| Plastic products | 9 | 723 | 276 |  | 789 | 106 |  | 866 | 866 |  | 882 | 368 |  | 802 | 746 |  | 885 | 911 |  | 897 | 176 |
| Glass and glass products | 2 | 140 | 820 |  | 160 | 065 |  | 165 | 856 |  | 181 | 918 |  | 161 | 526 |  | 180 | 806 |  | 183 | 845 |
| Other non-metallic mineral products | 9 | 255 | 562 |  | 803 | 494 |  | 866 | 338 |  | 900 | 869 |  | 760 | 002 |  | 854 | 225 |  | 851 | 494 |
| Basic iron and steel products | 26 | 056 | 845* | 2 | 2298 | 014 | 3 | 095 | 543 |  | 3035 | 253 | 2 | 083 | 253 | 2 | 947 | 569 | 2 | 758 | 004 |
| Basic precious and non-ferrous metal products | 13 | 107 | 160 |  | 1111 | 045 | 1 | 297 | 933 |  | 1406 | 827 | 1 | 077 | 404 | 1 | 283 | 078 |  | 359 | 790 |
| Fabricated metal products | 23 | 450 | 896 |  | 1912 | 147 | 2 | 210 | 633 |  | 2032 | 618 | 1 | 856 | 185 | 2 | 214 | 910 | 1 | 988 | 148 |
| Structural metal products | 8 | 375 | 921 |  | 687 | 760 |  | 865 | 930 |  | 603 | 397 |  | 616 | 130 |  | 837 | 276 |  | 537 | 892 |
| Other fabricated metal product | 15 | 074 | 975 | 1 | 1224 | 387 | 1 | 344 | 703 |  | 1429 | 221 | 1 | 240 | 055 | 1 | 377 | 634 | 1 | 450 | 256 |
| Total machinery and equipment | 18 | 482 | 182 |  | 1775 | 826 | 1 | 579 | 117 |  |  | 604 | 1 |  | 662 | 1 | 628 | 783 | 1 |  | 137 |
| General purpose machinery | 8 | 715 | 989 |  | 891 | 963 |  | 724 | 938 |  | 786 | 055 |  | 802 | 755 |  | 703 | 350 |  | 698 | 643 |
| Special purpose machinery | 7 | 839 | 996 |  | 718 | 488 |  | 684 | 472 |  | 644 | 309 |  | 749 | 983 |  | 762 | 805 |  | 673 | 079 |
| Household appliances | 1 | 926 | 197 |  | 165 | 375 |  | 169 | 707 |  | 204 | 240 |  | 162 | 924 |  | 162 | 628 |  | 199 | 415 |
| Electrical machinery, apparatus | 11 | 835 | 715 |  | 949 | 263 | 1 | 074 | 624 |  | 1181 | 271 |  | 914 | 907 | 1 | 046 | 721 | 1 | 145 | 418 |
| Radio, television and communication apparatus | 4 | 441 | 396 |  | 430 | 320 |  | 382 | 716 |  |  | 419 |  | 397 | 799 |  | 400 | 282 |  |  | 373 |
| Professional equipment |  | 299 | 945 |  | 119 | 314 |  | 111 | 475 |  | 120 | 235 |  | 109 | 182 |  | 109 | 892 |  | 109 | 957 |
| Motor vehicles; trailers; parts and accessories | 42 | 719 | 836 | 3 | 3656 | 522 | 4 | 427 | 632 |  | 4704 | 490 | 3 | 483 | 548 | 4 | 206 | 338 | 4 | 487 | 710 |
| Motor vehicles | 30 | 465 | 944 | 2 | 2674 | 776 | 3 | 166 | 813 |  | 3383 | 933 | 2 | 503 | 940 | 2 | 997 | 369 | 3 | 171 | 254 |
| Bodies for motor vehicles; trailers and semi-trailers | 1 | 529 | 083 |  | 118 | 046 |  | 161 | 401 |  | 162 | 815 |  | 115 | 052 |  | 155 | 001 |  | 157 | 688 |
| Parts and accessories | 10 | 724 | 809 |  | 863 | 700 | 1 | 099 | 418 |  | 1157 | 742 |  | 864 | 556 | 1 | 053 | 968 | 1 | 158 | 768 |
| Other transport equipment | 2 | 789 | 057 |  | 303 | 906 |  | 222 | 594 |  | 258 | 498 |  | 281 | 597 |  | 270 | 727 |  | 237 | 293 |
| Furniture | 6 | 356 | 278 |  | 533 | 605 |  | 513 | 848 |  | 558 | 439 |  | 553 | 476 |  | 519 | 861 |  | 577 | 311 |
| Other manufacturing industries | 12 | 208 | 259 |  | 969 | 075 | 1 | 109 | 867 |  | 1124 | 139 |  | 983 | 589 | 1 | 122 | 311 | 1 | 128 | 044 |
| TOTAL | 398 | 319 | 486* | 33 | 3095 | 019 | 37 | 187 | 406 | 38 | 8495 | 142 | 32 | 780 | 266 | 37 | 322 | 406 | 38 | 041 | 893 |

* Revised

1/ Preliminary

Table 5 - Value of unfilled orders according to selected manufacturing subgroups (R'000)


| communication apparatus |  | 696 | 848 |  | 103 | 022 | 1 | 174 | 863 | \| |  | 675 | 953 |  | 078 | 662 | 1 | 141 | 155 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Motor vehicles | 1 | 838 | 899 | 2 | 249 | 649 | 2 | 128 | 968 | \| | 1 | 842 | 822 | 2 | 028 | 661 | 2 | 125 | 195 |
| Parts and accessories for |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |
| motor vehicles |  | 298 | 907 |  | 309 | 388 |  | 274 | 277 | \| |  | 279 | 616 |  | 289 | 022 |  | 256 | 307 |
| Furniture |  | 221 | 781 |  | 210 | 764 |  | 243 | 876 | \| |  | 227 | 630 |  | 252 | 038 |  | 248 | 940 |

* Revised


## Additional information

## Explanatory notes

Introduction

Scope of the survey

Classification

Statistical unit
6

design<br>Survey methodology and

Statistics South Africa (Stats SA) conducts a monthly sample survey of the manufacturing industry covering private manufacturing establishments (branches), public corporations and government establishments. This statistical release contains detailed information regarding indices of the physical volume of manufacturing production, the total value of sales of manufactured products and unfilled orders, according to manufacturing divisions and major groups on a monthly basis.
rebased every five years to a new base year. The indices in this statistical release have been calculated on the basis of 1995=100 since November 1997. Both actual and seasonally adjusted figures are presented.
In order to improve timeliness, some information for the current month June have been estimated due to late response. These estimates will be revised in the future statistical release(s) as soon as more up-to-date information is available.

This survey covers manufacturing establishments conducting activities regarding -

- the manufacturing, processing, making or packing of products;
- the slaughtering of animals, including poultry; and
- installation, assembly, completion, repair and related work.

The 1993 edition of the Standard Industrial Classification of all Economic Activities (SIC), Fifth Edition, Report No. 09-90-02, was used to classify the statistical units in the survey. The SIC is based on the 1990 International Standard Industrial Classification of all Economic Activities (ISIC) with suitable adaptations for local conditions. Statistics in this publication are presented at SIC division, major group and subgroup level. Each statistical unit is classified to an industry which reflects the predominant activity of the establishment (branch).

The basic statistical unit for the collection of information is the manufacturing establishment. An establishment is the smallest economic unit that functions as a separate entity. Each statistical unit is classified to an industry (cf. paragraph 6).

The calculation of the monthly production indices is based on the value of products and articles manufactured, after the effect of price changes has been eliminated through deflation by using appropriate sub-indices of the Production Price Index (PPI). The value of the manufactured products is obtained from a monthly
sample survey of manufacturing establishments in the private and public sectors.

The survey is collected by mail each month from a sample of approximately 2700 manufacturing establishments.

The above-mentioned measurement method in paragraph 7 was followed in 40 of the various major groups. On account of certain considerations more appropriate indicators were used for the four remaining major groups namely "other transport equipment"; tobacco products and coke and refined petroleum products and bodies for motor vehicles. The volume indices for the major groups tobacco products and coke and refined petroleum products are calculated on the basis of physical quantities. The major group tobacco products is included under 'Other' manufacturing industries. This method is also applied by other international statistical agencies for petroleum products due to the results being more satisfactory (mainly due to these commodities being relatively homogeneous and the nature of the industry). In the case of "other transport equipment" units such as ships and aircraft are completed over a relatively long period and establishments can often not report charges for work done continuously. The sales and charges for work done are only shown after completion of the product, which is not a true reflection of the real production for the month under consideration. Therefore the index for "other transport equipment" is calculated monthly according to manhours worked.

The 1988 Census of Manufacturing provided the sampling frame for the selection of the monthly sample regarding manufacturing

Sample design

Benchmarking production and sales which was implemented as from January 1995. A stratified systematic sample design based on gross output was used. All statistical units were stratified by type of economic activity according to the Standard Industrial Classification of all Economic Activities (SIC) and measure of size, where measure of size was the total manufacturing gross output of the establishment. All large establishments (size category one cases) are completely enumerated. A sample was drawn from medium and small size establishments by systematically selecting establishments with equal probability.

11 The index of physical volume of manufacturing production as well as the total value of sales of manufactured products should provide an accurate reflection of the trend of activities of the relevant industry. The level of activities as measured by the monthly Manufacturing Production and Sales sample survey is based on information received from a sample of manufacturing establishments which is weighted
according to the original sample design in order to represent the population of manufacturing establishments. It is necessary to adjust the level of activities as measured by the monthly sample survey to the level of activities as measured periodically by the Census of Manufacturing. This procedure, whereby the latest results of an economic census are used to compile more accurate level estimates for a certain year, is known as benchmarking. The results, due to benchmarking, were published in statistical releases P3041.3 (entitled Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 1995=100, January 1990 to September 1999) on 21 December 1999 and P3041.4 (entitled Manufacturing statistics: Value of sales, January 1990 to September 1999) on 8 December 1999.

The results of the 1991, 1993 and 1996 Censuses of Manufacturing and information obtained from the former TBVC states were used to adjust the level of the manufacturing production indices and the value of sales of manufactured products. The total value of output of the manufacturing major groups (which represents the total value of work done by the establishments in these major groups) as obtained from the manufacturing censuses, was deflated with appropriate sub-indices of the Production Price Index in order to calculate the real output. The latter served as benchmarks to verify or adjust the level of the monthly physical volume of manufacturing production indices. The level adjustments were done on the volume indices for January of the relevant census year (e.g. the 1996 census year covers the period 1 July 1995 to 30 June 1996 and therefore the benchmarking was done using the index of January 1996 as reference point). The motor vehicle major group is the only exception where the financial year for most of the establishments covered the period 1 January 1995 to 31 December 1995. The benchmarking was done using the physical volume of manufacturing production index for July 1995 as reference point.

Production index for

In order to calculate a production index for the total manufacturing industry, the production indices for the major

## the total manufacturing industry

Seasonal adjustment

Trend cycle

Reliability of estimates

Historical data

Related publications
groups are combined as follows:

A weight is calculated for every major group according to the value added of the relevant major group compared with the value added to the total manufacturing industry based on the 1991, 1993 and 1996 Censuses of Manufacturing. Weights between census years are fixed and are based on the results of the most recent Census of Manufacturing. The production indices of all the major groups are multiplied by the applicable weights and aggregated to reflect the total physical volume of manufacturing production index.

Seasonally adjusted estimates of all items are generated each month, using the X-11 Seasonal Adjustment Program developed
by US Bureau of the Census Economic Research and Analyses Division, 1968. 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 can be more clearly recognised. Seasonal adjustment does not aim to remove irregular or non-seasonal influences which June be present in any particular month. Influences that are volatile or unsystematic can still make it difficult to interpret the movement of the series even after adjustment for seasonal variations. This means the month-tomonth movements of seasonally adjusted estimates June not be reliable indicators of trend behaviour.

The trend is the long-term pattern or movement of a time series. The X-11 Seasonal Adjustment Program is used for smoothing seasonally adjusted estimates.

Estimates are subject to sampling and non-sampling errors. Figures for the latest month are preliminary.

More comprehensive detail on the method of calculation and historical data in respect of the production indices according to 17 manufacturing major groups and the value of sales for the period January 1990 to September 1999 were published in statistical releases P3041.3 (entitled Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 1995=100, January 1990 to September 1999) on 21 December 1999 and P3041.4 (entitled Manufacturing statistics: Value of sales, January 1990 to September 1999) on 8 December 1999.

Users June also wish to refer to the following publications which are available from Stats SA -

- P3041.3-Manufacturing statistics: Indices of the physical volume of manufacturing production, Base:

1995=100, January 1990 to September 1999.

- P3041.4 - Manufacturing statistics: Value of sales (divisions, major groups and subgroups), January 1990 to September 1999.
- Bulletin of Statistics.
- SA Statistics.


## Unpublished statistics

## Rounding-off of figures

Pre-release policy

In some cases Stats SA can also make available statistics which
computer printouts, diskette and CD. Generally a charge is made for providing unpublished statistics.

The figures in the tables have, where necessary, been rounded off discrepancies between the sums of the constituent items and the totals shown.

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In respect of this statistical release, an official representative from the Office of the President, the Office of the Deputy President, the Department of Trade and Industry, the Department of Finance and the South African Reserve Bank receive a copy of the release on a strictly confidential basis two hours in advance of the public issue.

Stats SA's pre-release policy June be inspected at its Website, www.statssa.gov.za.

Symbols and abbreviations

22 Stats SA
TBVC
SIC Standard Industrial Classification of all Economic Activities
ISIC International Standard Classification of all
Economic
Activities
SNA System of National Accounts

| PPI | Production Price Index |
| :--- | :--- |
| GDP | Gross Domestic Product |
| $1 /$ | Preliminary figures |
| $*$ | Revised figures |

## Technical notes

Response rates See the response rates for June 2000, by manufacturing major divisions, in table $\mathbf{B}$.
Table B - Response rates for June 2000

| Manufacturing major divisions | \% <br> response |
| :---: | :---: |
| Food and food products | 74,7 |
| Beverages | 91,2 |
| Textile | 95,7 |
| Total wearing apparel | 87,8 |
| Tanning and dressing of leather | 58,8 |
| Footwear | 77,3 |
| Wood and products of wood | 74,6 |
| Paper and paper products | 91,5 |
| Total publishing and printing | 69,0 |
| Coke and refined petroleum products | 70,6 |
| Basic chemicals | 92,5 |
| Other chemical products | 84,9 |
| Rubber products | 91,7 |
| Plastic products | 67,4 |
| Glass and glass products | 100,0 |
| Other non-metallic mineral products | 77,7 |
| Basic iron and steel products | 79,4 |
| Basic precious and non-ferrous metal products | 75,0 |
| Fabricated metal products | 81,5 |
| Total machinery and equipment | 73,9 |


| Electrical machinery, apparatus | 72,0 |
| :--- | :--- |
| Radio, television and communication apparatus | 68,0 |
| Professional equipment | 68,0 |
| Motor vehicles; trailers; parts and accessories | 78,0 |
| Other transport equipment | 80,0 |
| Furniture | 72,9 |
| Other manufacturing industries | 68,4 |

## Glossary

## Enterprise

An enterprise (firm) is a legal entity consisting of one or more establishments. The establishments need not necessarily all be manufacturing establishments, but some June be classifiable as other industries of the economy, such as wholesale trade, retail trade, motor trade and construction.

An establishment is defined as an enterprise (firm), or part of an

## Establishment

 enterprise, that is situated at a single location and in which only a single (non-ancillary) productive activity is carried out or in which the principal productive activity accounts for most of the value added.
## Index of physical volume of manufacturing production

The index of physical volume of manufacturing production or a production index is a statistical measure of the change in the volume of production. The production index of a major group is the ratio between the volume of production of a major group in a given period and the
volume of production of the same major group in the base period. The base period is 1995. The production in the base period is set at 100 .

Industry
Intercensal period

Intermediate consumption

An industry consists of a group of establishments engaged in the same or similar kinds of economic activity. Industries are defined in the System of National Accounts (SNA) in the same way as in the Standard Industrial Classification of all Economic Activities, Fifth Edition, Report No. 09-90-02 of January 1993 (SIC).

Intercensal period is the period between January of the one census year and January of the next census year.

Intermediate consumption includes -

- purchases and transfers-in of materials;
- payments to other establishments for work done;
- other direct factory costs;
- rent and leasing paid;
- head office charges;
- royalties, copyright, trade names and patent rights paid;
- advertising;
- insurance premiums;
- services; and
- secretarial and administrative fees.

Output
Output is the aggregate value of goods manufactured and work done.
Output includes -

- sales and transfers-out of own manufactures, factory waste and stocks of factored goods;
- repairs;
- installation, erection and assembly;
- sundry trading revenue;
- sales of factored goods minus purchases of factored goods;
- rent and leasing received;
- royalties received;
- closing value of work in progress, stocks of own manufactures and stocks of factored
- goods;
- head office charges; and
- other revenue.

Output excludes -

- excise and customs duty paid; and
- opening values of work in progress, finished goods and factored goods.

| Value added | Value added is the value of output less intermediate consumption. It <br> represents the value added to the cost of the materials used in the process <br> of production. |
| :--- | :--- |
| Sales | Sales are the total value of sales and transfers-out of all own <br> manufactured products/articles and the amounts received for installation, <br> erection or assembly or other services rendered. |
| Weight $\quad$The weight of a major group is the ratio of the value added of a major <br> group (i.e. output of a major group minus intermediate consumption) to <br> the total value added of the manufacturing industry. The weight of a <br> major group reflects the importance of the major group in the total <br> manufacturing industry. The weights change over time due to quality <br> changes, changes in relative prices, and changes in preference, etc. New <br> weights need to be calculated from time to time. |  |

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[^0]:    * Revised

    1/ Preliminary

