

**MANUFACTURING PRODUCTION, AUSTRALIA  
TRANSPORT EQUIPMENT  
DECEMBER 1991**

**TABLE 1. ASSEMBLED, COMPLETE MOTOR VEHICLES(a)**  
(number)

| Period                | Cars and station wagons |                               |          |                 |                                                       | Vehicles for transportation of goods and materials(b)(c) |                 |          |
|-----------------------|-------------------------|-------------------------------|----------|-----------------|-------------------------------------------------------|----------------------------------------------------------|-----------------|----------|
|                       | Cars<br>(781.20)        | Station<br>wagons<br>(781.29) | Total    |                 | Other<br>passenger<br>vehicles<br>(781.28,<br>783.12) | Original<br>(782.17, 783.20)                             | Seas.<br>adj(d) | Trend(e) |
|                       |                         |                               | Original | Seas.<br>adj(d) |                                                       |                                                          |                 |          |
| 1988-89               | 269,392                 | 63,748                        | 333,140  | ..              | 687                                                   | 29,557                                                   | ..              | ..       |
| 1989-90               | 321,457                 | 64,586                        | 386,043  | ..              | 687                                                   | 25,958                                                   | ..              | ..       |
| 1990-91               | 262,874                 | 47,786                        | 310,660  | ..              | 434                                                   | 17,668                                                   | ..              | ..       |
| 1990 —                |                         |                               |          |                 |                                                       |                                                          |                 |          |
| January               | 25,788                  | 4,275                         | 30,063   | 26,325          | 37                                                    | 2,207                                                    | 1,922           | 1,644    |
| October               | 23,465                  | 4,760                         | 28,225   | 24,601          | 34                                                    | 1,460                                                    | 1,381           | 1,577    |
| December              | 16,291                  | 3,847                         | 20,138   | 24,552          | 28                                                    | 1,095                                                    | 1,363           | 1,488    |
| 1991 —                |                         |                               |          |                 |                                                       |                                                          |                 |          |
| January               | 10,019                  | 1,944                         | 11,963   | 34,230          | 10                                                    | 750                                                      | 1,827           | 1,390    |
| February              | 20,761                  | 4,258                         | 25,019   | 25,602          | 29                                                    | 1,136                                                    | 1,147           | 1,307    |
| March                 | 18,629                  | 3,500                         | 22,129   | 23,171          | 45                                                    | 1,159                                                    | 1,094           | 1,255    |
| April                 | 18,739                  | 3,142                         | 21,881   | 23,496          | 40                                                    | 1,046                                                    | 1,173           | 1,240    |
| May                   | 25,807                  | 4,433                         | 30,240   | 25,293          | 50                                                    | 1,592                                                    | 1,271           | 1,267    |
| June                  | 20,765                  | 3,950                         | 24,715   | 23,839          | 48                                                    | 1,532                                                    | 1,427           | r 1,313  |
| July                  | 22,219                  | 4,442                         | 26,661   | 22,894          | 51                                                    | 1,512                                                    | 1,381           | r 1,352  |
| August                | 22,740                  | 4,910                         | 27,650   | 24,165          | 44                                                    | 1,503                                                    | 1,331           | r 1,342  |
| September             | 18,601                  | 3,702                         | 22,303   | 20,561          | 58                                                    | 1,358                                                    | 1,279           | r 1,281  |
| October               | 21,397                  | 4,592                         | 25,989   | 22,049          | 49                                                    | 1,583                                                    | 1,366           | 1,200    |
| November              | 19,377                  | 4,493                         | 23,870   | 21,868          | 49                                                    | 1,033                                                    | 995             | n.y.a.   |
| December              | 13,292                  | 2,709                         | 16,001   | 18,903          | 37                                                    | 730                                                      | 900             | n.y.a.   |
| 1990-91: July to Dec. | 148,154                 | 26,559                        | 174,713  | ..              | 212                                                   | 10,453                                                   | ..              | ..       |
| 1991-92: July to Dec. | 117,626                 | 24,848                        | 142,474  | ..              | 288                                                   | 7,689                                                    | ..              | ..       |

(a) Excludes conversions of existing vehicles. (b) Includes utilities, panel vans, prime movers for semi-trailers and units consisting of chassis, engine and cab produced for sale and transfer out as such. (c) Excludes off-highway trucks (e.g. dump wagons), materials handling trucks (e.g. forklift trucks) and semi-trailers. (d) See paragraph 5, Explanatory Notes. (e) See paragraph 6 to 9, Explanatory Notes. (f) The trend estimates have been temporarily suspended because recent factory shutdowns have adversely affected their reliable estimation. However these influences are not expected to affect the reliability of the seasonally adjusted series.

**INQUIRIES**

- \* for further information about statistics in this publication and the availability of related unpublished statistics contact Kevin Squair on Canberra (06) 252 5558 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.

TABLE 2. MOTOR BODIES(a)  
(number)

| Period               | For vans              |                              |                   | For trucks     |                 |                          | For passenger vehicles, for 10 persons or more (784.41) |
|----------------------|-----------------------|------------------------------|-------------------|----------------|-----------------|--------------------------|---------------------------------------------------------|
|                      | Refrigerated (784.22) | Insulated (chiller) (784.23) | Other(b) (784.24) | Trays (784.26) | Tipper (784.27) | Concrete mixers (784.43) |                                                         |
| 1988-89              | 113                   | 236                          | 2,624             | 17,567         | 1,792           | 695                      | 711                                                     |
| 1989-90              | 116                   | 136                          | 2,537             | 19,730         | 2,135           | 779                      | 543                                                     |
| 1990-91              | 91                    | 204                          | 1,941             | 15,013         | 1,678           | 473                      | 288                                                     |
| 1989—                |                       |                              |                   |                |                 |                          |                                                         |
| March qtr            | 34                    | 61                           | 537               | 4,536          | 379             | 173                      | 145                                                     |
| June qtr             | 32                    | 64                           | 748               | 5,239          | 524             | 192                      | 175                                                     |
| September qtr        | 32                    | 29                           | 670               | 5,138          | 540             | 199                      | 186                                                     |
| December qtr         | 34                    | 34                           | 752               | 4,677          | 577             | 214                      | 148                                                     |
| 1990—                |                       |                              |                   |                |                 |                          |                                                         |
| March qtr            | 20                    | 31                           | 534               | 4,941          | 481             | 187                      | 92                                                      |
| June qtr             | 30                    | 42                           | 581               | 4,974          | 537             | 179                      | 117                                                     |
| September qtr        | 26                    | 50                           | 540               | 4,433          | 518             | 170                      | 87                                                      |
| December qtr         | 30                    | 43                           | 671               | 3,588          | 528             | 113                      | 78                                                      |
| 1991—                |                       |                              |                   |                |                 |                          |                                                         |
| March qtr            | 14                    | 77                           | 342               | 3,414          | 286             | 92                       | 45                                                      |
| June qtr             | 21                    | 34                           | 388               | 3,578          | 346             | 98                       | 78                                                      |
| September qtr        | 17                    | 40                           | 406               | 3,361          | 391             | 141                      | 76                                                      |
| December qtr         | 10                    | 48                           | 358               | 3,105          | 361             | 143                      | 62                                                      |
| 1990-91 July to Dec. | 56                    | 93                           | 1,211             | 8,021          | 1,046           | 283                      | 165                                                     |
| 1991-92 July to Dec. | 27                    | 88                           | 764               | 6,466          | 752             | 284                      | 138                                                     |

(a) Built up for sale or transfer out as such. Excludes bodies produced by motor vehicle manufacturers for use in their own plant, body panels, cabs, conversions or any work done on old vehicles. (b) Including dry freight.

TABLE 3. SEMI-TRAILERS AND TWO WHEEL TRAILERS  
(number)

| Period               | Semi-trailers     |                        |                 |                 |                     |                                       | Trailers—two wheel(a) |                                                 |                    |
|----------------------|-------------------|------------------------|-----------------|-----------------|---------------------|---------------------------------------|-----------------------|-------------------------------------------------|--------------------|
|                      | Flat top (786.26) | Curtain-sided (786.46) | Tanker (786.22) | Tipper (786.27) | Low loader (786.28) | Van                                   |                       | Box type (under 1 tonne load capacity) (786.23) | Boat type (786.24) |
|                      |                   |                        |                 |                 |                     | Refrigerated or insulated (786.42.43) | Other(b) (786.44)     |                                                 |                    |
| 1988-89              | 1,421             | 471                    | 159             | 463             | 160                 | n.p.                                  | 305                   | 14,929                                          | 7,630              |
| 1989-90              | 1,404             | 658                    | 174             | 523             | 157                 | 321                                   | 278                   | 15,483                                          | 6,234              |
| 1990-91              | 567               | 399                    | 179             | 289             | 88                  | 156                                   | 276                   | 11,207                                          | 5,053              |
| 1989—                |                   |                        |                 |                 |                     |                                       |                       |                                                 |                    |
| March qtr            | 336               | 131                    | 27              | 92              | 27                  | 54                                    | 72                    | 3,875                                           | 1,790              |
| June qtr             | 379               | 172                    | 49              | 116             | 54                  | n.p.                                  | 78                    | 3,859                                           | 1,686              |
| September qtr        | 447               | 182                    | 46              | 125             | 46                  | 64                                    | 65                    | 3,988                                           | 1,673              |
| December qtr         | 376               | 176                    | 47              | 178             | 46                  | 113                                   | 72                    | 4,928                                           | 1,923              |
| 1990—                |                   |                        |                 |                 |                     |                                       |                       |                                                 |                    |
| March qtr            | 299               | 116                    | 38              | 109             | 28                  | 67                                    | 67                    | 3,469                                           | 1,436              |
| June qtr             | 282               | 184                    | 43              | 111             | 37                  | 77                                    | 74                    | 3,098                                           | 1,202              |
| September qtr        | 175               | 130                    | 56              | 118             | 44                  | 61                                    | 66                    | 3,417                                           | 1,253              |
| December qtr         | 160               | 105                    | 50              | 90              | 16                  | 40                                    | 122                   | 3,015                                           | 1,478              |
| 1991—                |                   |                        |                 |                 |                     |                                       |                       |                                                 |                    |
| March qtr            | 108               | 63                     | 28              | 37              | 10                  | 25                                    | 39                    | 2,423                                           | 1,252              |
| June qtr             | 124               | 101                    | 45              | 44              | 18                  | 30                                    | 49                    | 2,352                                           | 1,070              |
| September qtr        | 153               | 138                    | 46              | 64              | 18                  | 25                                    | 189                   | 2,798                                           | 1,356              |
| December qtr         | 110               | 116                    | 50              | 66              | 22                  | 54                                    | 74                    | 2,937                                           | 1,581              |
| 1990-91 July to Dec. | 335               | 235                    | 106             | 208             | 60                  | 101                                   | 188                   | 6,432                                           | 2,731              |
| 1991-92 July to Dec. | 263               | 254                    | 96              | 130             | 40                  | 79                                    | 163                   | 5,735                                           | 2,937              |

(a) Including complete trailer kits. (b) Including dry freight.

TABLE 4. CARAVANS AND CAMPER TRAILERS, PRIVATE OR DOMESTIC TYPE  
(number)

| Period               | Caravans, private or domestic type |                                               |                                               |                                               |                                               |                     | Total  | Camper trailers of private or domestic type (786.17) |
|----------------------|------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|---------------------|--------|------------------------------------------------------|
|                      | 4.6 m and under (786.11)           | Over 4.6 m up to and including 5.2 m (786.12) | Over 5.2 m up to and including 6.1 m (786.13) | Over 6.1 m up to and including 7.6 m (786.14) | Over 7.6 m up to and including 9.8 m (786.15) | Over 9.8 m (786.16) |        |                                                      |
| 1988-89              | 2,323                              | 1,889                                         | 926                                           | 789                                           | n.p.                                          | n.p.                | 6,190  | 1,528                                                |
| 1989-90              | 1,574                              | 1,219                                         | 801                                           | 495                                           | 113                                           | 16                  | 4,218  | 1,078                                                |
| 1990-91              | 1,180                              | 1,137                                         | r693                                          | 216                                           | 86                                            | 20                  | r3,332 | 857                                                  |
| 1989—                |                                    |                                               |                                               |                                               |                                               |                     |        |                                                      |
| March qtr            | 376                                | 352                                           | 200                                           | 172                                           | 27                                            | 6                   | 1,133  | 321                                                  |
| June qtr             | 623                                | 475                                           | 270                                           | 206                                           | n.p.                                          | n.p.                | 1,614  | 361                                                  |
| September qtr        | 582                                | 427                                           | 234                                           | 183                                           | 39                                            | 4                   | 1,469  | 250                                                  |
| December qtr         | 349                                | 268                                           | 175                                           | 130                                           | 38                                            | 6                   | 966    | 218                                                  |
| 1990—                |                                    |                                               |                                               |                                               |                                               |                     |        |                                                      |
| March qtr            | 267                                | 216                                           | 181                                           | 86                                            | 21                                            | —                   | 771    | 267                                                  |
| June qtr             | 376                                | 308                                           | 211                                           | 96                                            | 15                                            | 6                   | 1,012  | 343                                                  |
| September qtr        | 325                                | 312                                           | 224                                           | 74                                            | n.p.                                          | n.p.                | 975    | 272                                                  |
| December qtr         | 287                                | 286                                           | 156                                           | 47                                            | 17                                            | 5                   | 798    | 174                                                  |
| 1991—                |                                    |                                               | r                                             |                                               |                                               |                     | r      |                                                      |
| March qtr            | 227                                | 197                                           | 139                                           | 34                                            | n.p.                                          | n.p.                | 623    | 156                                                  |
| June qtr             | 341                                | 342                                           | 174                                           | 61                                            | 14                                            | 4                   | 936    | 255                                                  |
| September qtr        | r322                               | r319                                          | 167                                           | r26                                           | n.p.                                          | n.p.                | 853    | 254                                                  |
| December qtr         | 289                                | 274                                           | 147                                           | 45                                            | n.p.                                          | n.p.                | 771    | 261                                                  |
| 1990-91 July to Dec. | 612                                | 598                                           | 380                                           | 121                                           | n.p.                                          | n.p.                | 1,773  | 446                                                  |
| 1991-92 July to Dec. | 611                                | 593                                           | 314                                           | 71                                            | n.p.                                          | n.p.                | 1,624  | 515                                                  |

## EXPLANATORY NOTES

## Introduction

This publication is one of a series of ten containing monthly and quarterly production statistics. The titles of the other publications of this series are shown in paragraph 10.

## Classification

2. Data contained in these publications are mostly based on monthly or quarterly collections conducted by the Australian Bureau of Statistics (ABS). Most items are identified by the commodity codes used in Australian Standard Commodity Classification (ASCC), which was developed by the ABS to facilitate greater comparability of manufacturing production commodity statistics with import and export commodity statistics.

## Scope and coverage

3. Manufacturing commodity statistics collected by the ABS exclude details relating to single establishment manufacturing enterprises with fewer than four persons employed and production of establishments predominantly engaged in non-manufacturing activities but which may carry on, in a minor way, some manufacturing. However, except for a few commodities, the effect on production levels and movements is marginal.

4. Annual figures shown in this publication are derived by aggregating monthly/quarterly production and relate to production during the year ended 30 June. They may differ from annual manufacturing census data which relate to the census year and, in the case of businesses unable to

report on a June year basis, include details in respect of substitute accounting periods.

## Seasonal adjustment and trend estimates

5. This publication contains seasonally adjusted statistics. In the seasonal adjustment, account has been taken not only of normal seasonal factors but also, where appropriate, of 'working-day' effects (arising from the varying numbers of Sundays, Mondays, Tuesdays etc. in the month) and the influence of Easter and Australia Day which may, in successive years, affect figures for different months. However, care should be exercised in interpreting the figures for those months in which Christmas/New Year and Easter holidays fall as some manufacturers vary holiday shutdowns in the light of prevailing demand for their products. Details of the methods used in seasonally adjusting these and other series are available on request.

6. The smoothing of seasonally adjusted series to create trend estimates is a means of reducing the impact of the irregular component of the series. The trend estimates have been derived by applying a 13-term Henderson weighted moving average to the seasonally adjusted series.

7. While this smoothing technique enables estimates of trend to be produced for the latest month, it does result in revisions to the estimates for the most recent months as data for subsequent months become available. Generally subsequent revisions become smaller and after 3 months have little impact on the series. There will also be

revisions as a result of revisions to the original estimates and annual reviews of seasonal and 'working day' factors.

8. Because of the highly irregular nature of some production series it is not possible to discern with reasonable confidence the current direction of the trend at the end of these series. For such highly irregular series the ABS does not provide the last two trend estimates.

9. 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 of seasonally adjusted time series data.

#### Related publications

10. Other ABS publications which may be of interest are:

*Manufacturing Production, Australia, Preliminary* (8301.0)—issued monthly

*Manufacturing Production, Australia, Household Appliances and Electrical Equipment* (8357.0)—issued monthly

*Manufacturing Production, Australia, Clothing and Footwear* (8358.0)—issued monthly

*Manufacturing Production, Australia, Food, Drink, Tobacco, Stock and Poultry Food* (8359.0)—issued monthly

*Manufacturing Production, Australia, Fibres, Yarns, Fabrics, Bedding and Floor Coverings* (8360.0)—issued monthly

*Manufacturing Production, Australia, Building Materials and Fittings* (8361.0)—issued monthly

*Manufacturing Production, Australia, Plastics, Rubber, Paint, Detergents and Industrial Chemicals* (8362.0)—issued monthly

*Manufacturing Production, Australia, Metal Products* (8367.0)—issued monthly

*Manufacturing Production, Australia, Energy Products* (8368.0)—issued monthly

*Manufacturing Production, Australia, Wood and Wood Products* (8369.0)—issued monthly

*Manufacturing Commodities : Selected Principal Articles Produced, Australia, 1986-87, Preliminary* (8365.0)

*Manufacturing Commodities : Principal Articles Produced, Australia, 1986-87* (8303.0)

11. Current publications produced by the ABS are listed in the *Catalogue of Publications and Products, Australia* (1101.0). The ABS also issues, on Tuesdays 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

- n.p. not available for separate publication (but included in totals where applicable)
- n.a. not available
- . . not applicable
- r revised since previous issue
- nil or rounded to zero

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