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AND ELECTRICAL EQUIPMENT  
DECEMBER 1990**

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\* *about these statistics and the availability of related unpublished statistics* — contact Kevin Squair on Canberra (06) 252 5558 or any ABS State office.

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TABLE 1. CLOTHES WASHING AND DRYING MACHINES  
(number)

| Period                | Household or laundry type clothes washing machines |                            |              | Clothes drying machines (c)<br>(775.12) |
|-----------------------|----------------------------------------------------|----------------------------|--------------|-----------------------------------------|
|                       | Original<br>(775.11)                               | Seasonally adjusted<br>(a) | Trend<br>(b) |                                         |
| 1987-88               | 394,313                                            | ..                         | ..           | n.a.                                    |
| 1988-89               | 396,535                                            | ..                         | ..           | n.a.                                    |
| 1989-90               | 330,451                                            | ..                         | ..           | 226,985                                 |
| 1989—                 |                                                    |                            |              | 7,164                                   |
| October               | 27,984                                             | 26,458                     | 27,210       | 6,471                                   |
| November              | 31,463                                             | 28,089                     | 26,538       | 3,919                                   |
| December              | 24,654                                             | 26,892                     | 25,899       |                                         |
| 1990—                 |                                                    |                            |              | 5,586                                   |
| January               | 12,166                                             | 24,894                     | 25,334       | 15,733                                  |
| February              | 25,897                                             | 24,265                     | 25,246       | 19,990                                  |
| March                 | 27,607                                             | 24,764                     | 26,057       | 22,162                                  |
| April                 | 23,762                                             | 28,284                     | 27,700       | 43,498                                  |
| May                   | 30,748                                             | 27,853                     | 29,736       | 35,245                                  |
| June                  | 32,955                                             | 31,811                     | 31,604       | 18,263                                  |
| July                  | 38,038                                             | 36,077                     | 32,510       | 8,969                                   |
| August                | 39,278                                             | 35,211                     | 32,185       | 4,890                                   |
| September             | 27,364                                             | 26,632                     | 30,945       | 5,722                                   |
| October               | 33,359                                             | 30,315                     | 29,296       | 4,841                                   |
| November              | 31,577                                             | 28,617                     | 27,594       | 3,577                                   |
| December              | 20,502                                             | 23,036                     | 25,796       |                                         |
| 1989-90: July to Dec. | 177,316                                            | ..                         | ..           | 84,771                                  |
| 1990-91: July to Dec. | 190,118                                            | ..                         | ..           | 46,262                                  |

(a) See paragraph 5, Explanatory Notes. (b) See paragraph 6 to 9, Explanatory Notes. (c) Each of a dry linen capacity not exceeding 10 kg.

TABLE 2. REFRIGERATORS AND FREEZERS  
(number)

| Period                | Refrigerators-domestic     |                           |                   |          |                               |          | Freezers-domestic<br>(upright<br>and chest)<br>(775.22) |
|-----------------------|----------------------------|---------------------------|-------------------|----------|-------------------------------|----------|---------------------------------------------------------|
|                       | Twin door                  |                           |                   | Total    |                               |          |                                                         |
|                       | Single<br>door<br>(775.23) | Frost<br>free<br>(775.24) | Other<br>(775.25) | Original | Seasonally<br>adjusted<br>(a) | Trend(b) |                                                         |
|                       |                            |                           |                   |          |                               |          |                                                         |
| 1987-88               | 133,049                    | 87,580                    | 165,120           | 385,749  | ..                            | ..       | 104,233                                                 |
| 1988-89               | 120,190                    | 102,331                   | 157,108           | 379,629  | ..                            | ..       | 108,731                                                 |
| 1989-90               | 105,488                    | 84,697                    | 156,173           | 346,358  | ..                            | ..       | 98,699                                                  |
| 1989—                 |                            |                           |                   |          |                               |          | 9,121                                                   |
| October               | 7,898                      | 9,449                     | 14,908            | 32,255   | 30,058                        | 29,785   | 10,017                                                  |
| November              | 9,719                      | 8,329                     | 16,388            | 34,436   | 29,276                        | 27,851   | 6,271                                                   |
| December              | 6,393                      | 3,908                     | 8,818             | 19,119   | 23,255                        | 26,274   |                                                         |
| 1990—                 |                            |                           |                   |          |                               |          | 7,644                                                   |
| January               | 8,527                      | 2,952                     | 6,002             | 17,481   | 26,179                        | 25,338   | 10,005                                                  |
| February              | 10,107                     | 5,520                     | 10,696            | 26,323   | 25,274                        | 25,252   | 7,345                                                   |
| March                 | 6,952                      | 4,494                     | 11,318            | 22,764   | 24,993                        | 25,946   | 6,847                                                   |
| April                 | 7,925                      | 5,913                     | 8,522             | 22,360   | 25,617                        | 27,045   | 8,279                                                   |
| May                   | 10,871                     | 7,904                     | 15,601            | 34,376   | 30,226                        | 27,955   | 7,287                                                   |
| June                  | 8,016                      | 7,374                     | 12,948            | 28,338   | 28,969                        | 28,275   | 7,100                                                   |
| July                  | 9,473                      | 7,827                     | 12,809            | 30,109   | 29,584                        | 28,060   | 8,296                                                   |
| August                | 9,533                      | 7,700                     | 15,440            | 32,673   | 27,636                        | 27,400   | 6,890                                                   |
| September             | 8,249                      | 5,870                     | 11,904            | 26,023   | 24,527                        | 27,400   | 6,474                                                   |
| October               | 9,895                      | 5,194                     | 14,392            | 29,481   | 26,040                        | 27,489   | 9,590                                                   |
| November              | 11,315                     | 6,438                     | 15,984            | 33,947   | 29,378                        | n.y.a.   | 7,704                                                   |
| December              | 8,450                      | 4,135                     | 11,765            | 25,350   | 30,546                        | n.y.a.   |                                                         |
| 1989-90: July to Dec. | 53,090                     | 50,540                    | 91,086            | 19,472   | ..                            | ..       | 51,292                                                  |
| 1990-91: July to Dec. | 56,915                     | 38,374                    | 82,294            | 177,583  | ..                            | ..       | 46,054                                                  |

(a) See paragraph 5, Explanatory Notes. (b) See paragraph 6 to 9, Explanatory Notes.

TABLE 3. COOKING STOVES, OVENS AND RANGES  
(number)

| Period                | Domestic types                              |                           |                             |                              |                           |                     | Total |
|-----------------------|---------------------------------------------|---------------------------|-----------------------------|------------------------------|---------------------------|---------------------|-------|
|                       | Electric                                    |                           |                             | Gas                          |                           |                     |       |
|                       | Ranges(a)<br>fixed and<br>other<br>(775.95) | Wall<br>ovens<br>(775.96) | Cooking<br>tops<br>(775.97) | Standard<br>town<br>(697.36) | LP and<br>TLP<br>(697.37) | Natural<br>(697.38) |       |
| 1987-88               | 115,807                                     | 91,931                    | 67,820                      | n.a.                         | n.a.                      | n.a.                | n.a.  |
| 1988-89               | 114,319                                     | 118,458                   | n.p.                        | n.a.                         | n.a.                      | n.a.                | n.p.  |
| 1989-90               | 118,486                                     | 104,106                   | 72,465                      | 24,591                       | n.p.                      | 67,310              | n.p.  |
| 1989—                 |                                             |                           |                             |                              |                           |                     |       |
| October               | 11,549                                      | 11,426                    | 6,901                       | 2,329                        | n.p.                      | 6,604               | n.p.  |
| November              | 9,471                                       | 9,751                     | 6,609                       | 1,963                        | n.p.                      | 6,186               | n.p.  |
| December              | 6,795                                       | 8,787                     | 4,523                       | 2,430                        | n.p.                      | 6,687               | n.p.  |
| 1990—                 |                                             |                           |                             |                              |                           |                     |       |
| January               | 4,594                                       | 2,088                     | 2,257                       | 428                          | n.p.                      | 1,701               | n.p.  |
| February              | 9,065                                       | 8,576                     | 6,219                       | 2,386                        | n.p.                      | 6,724               | n.p.  |
| March                 | 11,768                                      | 9,147                     | 7,024                       | 2,613                        | n.p.                      | 7,034               | n.p.  |
| April                 | 7,729                                       | 7,231                     | 4,913                       | 1,970                        | n.p.                      | 4,851               | n.p.  |
| May                   | 11,843                                      | 8,503                     | 6,301                       | 2,219                        | n.p.                      | 5,480               | n.p.  |
| June                  | 10,591                                      | 6,643                     | 5,077                       | 1,731                        | n.p.                      | 4,154               | n.p.  |
| July                  | 9,917                                       | 8,456                     | 7,056                       | 2,214                        | n.p.                      | 5,110               | n.p.  |
| August                | 10,373                                      | 8,781                     | 6,098                       | 2,258                        | n.p.                      | 5,358               | n.p.  |
| September             | 9,037                                       | 7,617                     | 4,579                       | 2,154                        | n.p.                      | 5,298               | n.p.  |
| October               | 9,210                                       | 8,377                     | 5,121                       | 2,537                        | n.p.                      | 6,250               | n.p.  |
| November              | 8,563                                       | 6,785                     | 4,072                       | 1,807                        | n.p.                      | 4,767               | n.p.  |
| December              | 8,026                                       | 6,976                     | 3,241                       | 2,298                        | n.p.                      | 5,368               | n.p.  |
| 1989-90: July to Dec. | 62,896                                      | 61,918                    | 40,674                      | 13,244                       | n.p.                      | 37,366              | n.p.  |
| 1990-91: July to Dec. | 55,126                                      | 46,992                    | 30,167                      | 13,268                       | n.p.                      | 32,151              | n.p.  |

(a) Having at least one hotplate and one oven separately heated. Total rating not exceeding 15kW.

TABLE 4. COLOUR TELEVISION SETS(a)  
(number)

| Period                | Less than<br>48 cm<br>(761.11.12) | 48cm but<br>less than<br>53 cm<br>(761.13) | 53cm but<br>less than<br>62 cm<br>(761.14) | 62cm<br>and<br>over<br>(761.15.16) | Total    |                               |              |
|-----------------------|-----------------------------------|--------------------------------------------|--------------------------------------------|------------------------------------|----------|-------------------------------|--------------|
|                       |                                   |                                            |                                            |                                    | Original | Seasonally<br>Adjusted<br>(b) | Trend<br>(c) |
| 1987-88               | n.a.                              | n.a.                                       | n.a.                                       | n.a.                               | 176,756  | ..                            | ..           |
| 1988-89               | n.p.                              | 94,499                                     | n.p.                                       | 57,703                             | 162,398  | ..                            | ..           |
| 1989-90               | n.p.                              | 86,449                                     | 5,429                                      | n.p.                               | 158,087  | ..                            | ..           |
| 1989—                 |                                   |                                            |                                            |                                    |          |                               |              |
| October               | 328                               | 8,010                                      | 202                                        | 6,917                              | 15,457   | 13,611                        | 13,462       |
| November              | n.p.                              | 8,265                                      | n.p.                                       | n.p.                               | 16,035   | 13,535                        | 12,983       |
| December              | —                                 | 4,931                                      | 163                                        | 5,344                              | 10,438   | 11,672                        | 12,536       |
| 1990—                 |                                   |                                            |                                            |                                    |          |                               |              |
| January               | —                                 | n.p.                                       | n.p.                                       | n.p.                               | 3,840    | 11,819                        | 12,209       |
| February              | —                                 | 7,352                                      | —                                          | 5,925                              | 13,277   | 13,008                        | 12,100       |
| March                 | n.p.                              | 6,896                                      | n.p.                                       | 6,602                              | 13,696   | 12,132                        | 12,214       |
| April                 | —                                 | 5,588                                      | 100                                        | 4,346                              | 10,034   | 12,073                        | 12,494       |
| May                   | —                                 | 7,865                                      | 144                                        | 5,997                              | 14,006   | 12,181                        | 12,849       |
| June                  | n.p.                              | n.p.                                       | 27                                         | 5,606                              | 13,770   | 13,394                        | 13,144       |
| July                  | n.p.                              | n.p.                                       | 344                                        | 7,708                              | 14,626   | 14,801                        | 13,334       |
| August                | —                                 | 9,746                                      | 5                                          | 7,326                              | 17,077   | 13,418                        | 13,497       |
| September             | —                                 | n.p.                                       | n.p.                                       | 6,992                              | 12,767   | 12,653                        | 13,598       |
| October               | —                                 | n.p.                                       | n.p.                                       | 7,126                              | 15,662   | 13,223                        | 13,702       |
| November              | —                                 | n.p.                                       | n.p.                                       | 8,102                              | 17,507   | 14,322                        | 13,849       |
| December              | —                                 | 7,458                                      | 60                                         | 4,631                              | 12,149   | 14,470                        | 13,963       |
| 1989-90: July to Dec. | n.p.                              | 49,193                                     | n.p.                                       | n.p.                               | 89,464   | ..                            | ..           |
| 1990-91: July to Dec. | n.p.                              | n.p.                                       | n.p.                                       | 41,885                             | 89,788   | ..                            | ..           |

(a) Colour television sets were previously published using different size categories. See the June 1988 issue of this publication, for previous data. (b) See paragraph 5, Explanatory Notes. (c) See paragraph 6 to 9, Explanatory Notes.

TABLE 5. ELECTRIC KETTLES, FANS AND AIR CONDITIONERS  
(number)

| Period                | Electric kettles<br>(775.99) | Electric fans<br>(743 42,44) | Air conditioning machines(a)<br>other than self-contained<br>window or wall type |                   |
|-----------------------|------------------------------|------------------------------|----------------------------------------------------------------------------------|-------------------|
|                       |                              |                              | Domestic<br>(741.52)                                                             | Other<br>(741.54) |
| 1987-88               | 623,903                      | n.a.                         | n.a.                                                                             | n.a.              |
| 1988-89               | 605,473                      | n.a.                         | n.a.                                                                             | n.a.              |
| 1989-90               | 534,619                      | 766,325                      | 21,591                                                                           | 14,471            |
| 1989—                 |                              |                              |                                                                                  |                   |
| October               | 55,231                       | 84,887                       | 2,903                                                                            | 1,685             |
| November              | 58,088                       | 86,337                       | 3,123                                                                            | 1,394             |
| December              | 51,825                       | 60,147                       | 1,846                                                                            | 1,064             |
| 1990—                 |                              |                              |                                                                                  |                   |
| January               | 25,096                       | 32,253                       | 1,819                                                                            | 651               |
| February              | 42,553                       | 72,206                       | 1,411                                                                            | 1,092             |
| March                 | 40,285                       | 50,047                       | 1,221                                                                            | 983               |
| April                 | 26,046                       | n.p.                         | 965                                                                              | 1,029             |
| May                   | 56,590                       | 58,600                       | 1,251                                                                            | 1,158             |
| June                  | n.p.                         | n.p.                         | 1,133                                                                            | 1,084             |
| July                  | 57,668                       | r45,011                      | 1,359                                                                            | 963               |
| August                | 76,081                       | r52,542                      | 1,511                                                                            | 831               |
| September             | 55,011                       | r41,970                      | 1,272                                                                            | 764               |
| October               | 57,572                       | r51,069                      | 2,141                                                                            | 965               |
| November              | 69,837                       | r43,812                      | 2,341                                                                            | r961              |
| December              | 66,819                       | 22,983                       | n.p.                                                                             | 735               |
| 1989-90: July to Dec. | n.p.                         | 458,837                      | 13,791                                                                           | 8,474             |
| 1990-91: July to Dec. | 382,988                      | 257,387                      | 10,390                                                                           | 5,219             |

(a) Comprises a motor driven fan and elements for changing the temperature and humidity. Excludes automotive types.

TABLE 6. WATER HEATERS(a)  
(number)

| Period                | Electric                  |                                    |                   |                    |                      |
|-----------------------|---------------------------|------------------------------------|-------------------|--------------------|----------------------|
|                       | Storage and immersion     |                                    |                   |                    | Solar(b)<br>(741.77) |
|                       | Instantaneous<br>(775.75) | Full mains<br>pressure<br>(775.93) | Other<br>(775.94) | Gas<br>(741.76,81) |                      |
| 1987-88               | n.a.                      | 252,355                            | n.a.              | n.a.               | 31,421               |
| 1988-89               | n.a.                      | n.p.                               | n.a.              | n.a.               | 35,203               |
| 1989-90               | 15,692                    | 331,371                            | 19,955            | r187,577           | 32,044               |
| 1989—                 | r                         |                                    |                   |                    |                      |
| October               | 1,581                     | 34,082                             | 1,293             | n.p.               | 3,113                |
| November              | 1,864                     | 35,560                             | 1,356             | n.p.               | 3,263                |
| December              | 1,088                     | 29,523                             | 746               | 17,628             | 2,613                |
| 1990—                 |                           |                                    |                   |                    |                      |
| January               | 801                       | 14,311                             | 468               | 7,273              | 1,442                |
| February              | 1,123                     | 26,907                             | 1,647             | 16,594             | 2,571                |
| March                 | 944                       | 25,997                             | 2,417             | 16,582             | 2,948                |
| April                 | 816                       | 16,686                             | 1,947             | n.p.               | 1,864                |
| May                   | 1,494                     | 31,346                             | 2,936             | n.p.               | 2,414                |
| June                  | 1,031                     | 25,927                             | 2,588             | n.p.               | 2,722                |
| July                  | 1,241                     | 24,718                             | 2,045             | 15,490             | 2,791                |
| August                | 1,455                     | 26,207                             | 2,192             | 19,602             | 2,705                |
| September             | 1,046                     | 19,655                             | 1,621             | 13,812             | 2,331                |
| October               | 906                       | 24,551                             | 2,338             | 16,942             | 1,456                |
| November              | 768                       | 28,976                             | 1,982             | r15,228            | 2,709                |
| December              | 776                       | 23,965                             | 2,517             | 14,299             | 2,472                |
| 1989-90: July to Dec. | 9,483                     | 190,197                            | 7,952             | n.p.               | 18,083               |
| 1990-91: July to Dec. | 6,159                     | 148,072                            | 12,695            | 95,373             | 14,464               |

(a) both domestic and non-domestic. (b) Includes systems which also have a conventional backup energy source.

TABLE 7. SPACE HEATERS AND SOLAR COLLECTORS

| Period                | Electric space heating and soil heating apparatus(a) (775.82) | Non-electric domestic space heaters |                               |                                          | Solar collectors(c) (775.52) |
|-----------------------|---------------------------------------------------------------|-------------------------------------|-------------------------------|------------------------------------------|------------------------------|
|                       |                                                               | Solid fuel space heaters (697.61)   | Warm air furnaces(b) (697.63) | Gas fires and gas space heaters (697.62) |                              |
|                       | number                                                        | number                              | number                        | number                                   | sq.m                         |
| 1987-88               | 580,318                                                       | n.a.                                | 28,697                        | 70,381                                   | 160,541                      |
| 1988-89               | 595,176                                                       | n.a.                                | 26,675                        | 64,121                                   | 154,136                      |
| 1989-90               | 419,375                                                       | 130,670                             | 31,508                        | 61,403                                   | 150,090                      |
| 1989—                 |                                                               |                                     | 2,699                         | 2,683                                    | 17,798                       |
| October               | 8,533                                                         | n.p.                                | 1,938                         | 2,861                                    | 23,996                       |
| November              | 5,447                                                         | n.p.                                | 1,352                         | 2,184                                    | 11,526                       |
| December              | 4,919                                                         | n.p.                                |                               |                                          |                              |
| 1990—                 |                                                               |                                     | 623                           | 1,434                                    | 8,379                        |
| January               | 20,033                                                        | n.p.                                | 1,949                         | 5,201                                    | 11,041                       |
| February              | 75,860                                                        | n.p.                                | 2,003                         | 6,290                                    | 11,430                       |
| March                 | 90,131                                                        | n.p.                                | 2,375                         | 6,335                                    | 7,424                        |
| April                 | 77,512                                                        | n.p.                                | 4,017                         | 10,880                                   | 9,792                        |
| May                   | 46,168                                                        | 5,655                               | 4,485                         | 9,179                                    | 9,759                        |
| June                  | 35,061                                                        | 1,806                               | 4,328                         | 6,971                                    | 9,819                        |
| July                  | 27,693                                                        | 763                                 | 3,142                         | 4,299                                    | 11,739                       |
| August                | 19,312                                                        | 362                                 | 1,592                         | 2,746                                    | 11,355                       |
| September             | 16,685                                                        | 406                                 | 1,800                         | 3,848                                    | 9,467                        |
| October               | 15,992                                                        | 470                                 | 1,344                         | 2,939                                    | 14,538                       |
| November              | 12,900                                                        | 617                                 | 1,117                         | 2,406                                    | 12,346                       |
| December              | 23,215                                                        |                                     |                               |                                          |                              |
| 1989-90: July to Dec. | 74,610                                                        | n.p.                                | 16,056                        | 22,084                                   | 92,265                       |
| 1990-91: July to Dec. | 115,797                                                       | 4,424                               | 13,323                        | 23,209                                   | 69,264                       |

(a) Excludes soil heating apparatus prior to July 1989. (b) Includes non — domestic gas fired warm air furnaces prior to July 1989. (c) For Household or industrial water heating purposes (e.g. hot water systems, swimming pool heating). Production figures relate to effective area of aperture.

TABLE 8. LAWN MOWERS  
(number)

| Period               | Lawn mowers with engine (underscra rotary petrol type)<br>2 stroke or 4 stroke type |                        |          |
|----------------------|-------------------------------------------------------------------------------------|------------------------|----------|
|                      | Original (72.33)                                                                    | Seasonally adjusted(a) | Trend(b) |
| 1987-88              | 279,122                                                                             | ..                     | ..       |
| 1988-89              | 298,286                                                                             | ..                     | ..       |
| 1989-90              | 246,701                                                                             | ..                     | ..       |
| 1989—                |                                                                                     | 17,153                 | 19,477   |
| October              | 26,464                                                                              | 17,944                 | 19,319   |
| November             | 29,438                                                                              | 24,471                 | 19,754   |
| December             | 28,672                                                                              |                        |          |
| 1990—                |                                                                                     | 17,968                 | 20,618   |
| January              | 11,617                                                                              | 18,603                 | 21,446   |
| February             | 19,061                                                                              | 25,104                 | 21,730   |
| March                | 21,099                                                                              | 23,143                 | 21,275   |
| April                | 11,677                                                                              | 20,059                 | 20,134   |
| May                  | 10,297                                                                              | 18,274                 | 18,846   |
| June                 | 10,455                                                                              | 16,182                 | 17,872   |
| July                 | 13,114                                                                              | 18,450                 | 17,516   |
| August               | 22,176                                                                              | 13,159                 | 17,971   |
| September            | 19,419                                                                              | 22,394                 | 18,746   |
| October              | 36,327                                                                              | 21,499                 | n.y.a.   |
| November             | 33,428                                                                              | 19,124                 | n.y.a.   |
| December             | 22,463                                                                              |                        |          |
| 1989-90 July to Dec. | 162,495                                                                             | ..                     | ..       |
| 1990-91 July to Dec. | 146,927                                                                             | ..                     | ..       |

(a) See paragraph 5, Explanatory Notes. (b) See paragraph 6 to 9, Explanatory Notes.

TABLE 9. ELECTRIC AND TELEPHONE CABLE, WIRE AND STRIP  
(tonnes)

| Period               | Uninsulated                                                                                               | Insulated                              |                                    |                   |                                                                                               |
|----------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------|-------------------|-----------------------------------------------------------------------------------------------|
|                      | Stranded<br>wire, cables,<br>ropes, plaited<br>bands, slings<br>and the like,<br>of aluminium<br>(693.13) | Power transmission and distribution(a) |                                    |                   | Other<br>(e.g. for<br>communications,<br>electronics<br>and<br>appliances)<br>(c)<br>(773.33) |
|                      |                                                                                                           | Copper(b)                              |                                    | Other<br>(773.32) |                                                                                               |
|                      |                                                                                                           | Paper<br>insulated<br>(773.19)         | Otherwise<br>insulated<br>(773.31) |                   |                                                                                               |
| 1987-88              | 12,062                                                                                                    | 2,821                                  | 36,802                             | 3,658             | 10,109                                                                                        |
| 1988-89              | 13,935                                                                                                    | 2,511                                  | 42,275                             | 4,741             | 10,686                                                                                        |
| 1989-90              | 7,951                                                                                                     | 2,613                                  | 45,580                             | 6,013             | 12,680                                                                                        |
| 1989—                |                                                                                                           |                                        |                                    |                   |                                                                                               |
| October              | 520                                                                                                       | 146                                    | 3,902                              | 451               | 1,096                                                                                         |
| November             | 561                                                                                                       | 188                                    | 4,196                              | 549               | 1,079                                                                                         |
| December             | 583                                                                                                       | 203                                    | 3,457                              | 551               | 1,302                                                                                         |
| 1990—                |                                                                                                           |                                        |                                    |                   |                                                                                               |
| January              | 139                                                                                                       | 253                                    | 1,634                              | 139               | 216                                                                                           |
| February             | 693                                                                                                       | 172                                    | 3,851                              | 276               | 856                                                                                           |
| March                | 844                                                                                                       | 243                                    | 4,304                              | 260               | 1,339                                                                                         |
| April                | 525                                                                                                       | 169                                    | 3,503                              | 1,204             | 1,053                                                                                         |
| May                  | 595                                                                                                       | 198                                    | 4,106                              | 437               | 1,188                                                                                         |
| June                 | 418                                                                                                       | 363                                    | 3,618                              | 475               | 876                                                                                           |
| July                 | 722                                                                                                       | 201                                    | 3,591                              | 375               | 923                                                                                           |
| August               | 875                                                                                                       | 207                                    | 3,962                              | 382               | 856                                                                                           |
| September            | 786                                                                                                       | 204                                    | 3,839                              | 394               | 886                                                                                           |
| October              | 901                                                                                                       | 157                                    | 3,544                              | 361               | 808                                                                                           |
| November             | 893                                                                                                       | 217                                    | 3,696                              | 402               | 806                                                                                           |
| December             | 999                                                                                                       | 316                                    | 2,922                              | 264               | 883                                                                                           |
| 1989-90 July to Dec. | 4,737                                                                                                     | 1,215                                  | 24,564                             | 3,222             | 7,152                                                                                         |
| 1990-91 July to Dec. | 5,176                                                                                                     | 1,302                                  | 21,554                             | 2,178             | 5,162                                                                                         |

(a) Includes household and building wiring. Excludes co-axial cable and other co-axial conductors from July 1989. (b) Weight of copper content only. (c) Excludes automotive low voltage. Also excludes aluminium prior to July 1989 and winding wire, co-axial cable and other co-axial conductors from July 1989.

TABLE 10. ELECTRICAL POWER TRANSFORMERS FOR TRANSMISSION AND DISTRIBUTION  
OF POWER(a)  
(Total kVA capacity)

| Period               | Up to and including 63 kVA |                      | Over 63kVA up to and including 500kVA (771.17) | Over 500kVA up to and including 1,000 kVA (771.19) | Over 1,000 kVA up to and including 10,000 kVA (771.32) | Over 10,000 kVA (771.34) | Total      |
|----------------------|----------------------------|----------------------|------------------------------------------------|----------------------------------------------------|--------------------------------------------------------|--------------------------|------------|
|                      | Single phase (771.13)      | Multi phase (771.15) |                                                |                                                    |                                                        |                          |            |
|                      |                            |                      |                                                |                                                    |                                                        |                          |            |
| 1987-88              | n.a.                       | n.a.                 | n.a.                                           | 890,098                                            | 1,466,468                                              | 4,913,002                | 8,560,150  |
| 1988-89              | n.a.                       | n.a.                 | n.a.                                           | 708,846                                            | 1,090,533                                              | 2,760,500                | 6,289,628  |
| 1989-90              | r178,419                   | r112,612             | r1,474,199                                     | 870,705                                            | 1,022,656                                              | 3,774,800                | r7,433,391 |
| 1989—                | r                          | r                    | r                                              |                                                    |                                                        |                          | r          |
| October              | 17,653                     | 9,852                | 160,036                                        | 87,200                                             | 56,650                                                 | 216,000                  | 547,391    |
| November             | 12,444                     | 9,435                | 113,128                                        | 70,950                                             | 106,493                                                | 176,500                  | 488,950    |
| December             | 10,251                     | 6,603                | 101,839                                        | 35,750                                             | 83,500                                                 | 66,500                   | 304,443    |
| 1990—                | r                          | r                    | r                                              |                                                    |                                                        |                          | r          |
| January              | 6,605                      | 2,844                | 70,872                                         | 56,280                                             | 39,570                                                 | 50,000                   | 226,171    |
| February             | 22,493                     | 8,900                | 135,599                                        | 69,260                                             | 81,450                                                 | 807,000                  | 1,124,702  |
| March                | 16,148                     | 10,913               | 93,794                                         | 95,450                                             | 93,050                                                 | 137,500                  | 446,855    |
| April                | 15,679                     | 9,707                | 123,922                                        | 65,300                                             | 66,300                                                 | 559,500                  | 840,408    |
| May                  | 13,425                     | 11,320               | 139,023                                        | 82,130                                             | 106,750                                                | 137,000                  | 489,648    |
| June                 | 15,983                     | 8,537                | 92,630                                         | 71,825                                             | 120,690                                                | 692,000                  | 1,001,665  |
| July                 | 17,792                     | 8,769                | 120,968                                        | 92,850                                             | 75,504                                                 | 69,000                   | 384,883    |
| August               | 19,606                     | 9,574                | 166,677                                        | 100,800                                            | 109,558                                                | 151,000                  | 557,215    |
| September            | 13,200                     | 10,205               | 140,068                                        | 66,780                                             | 112,004                                                | 146,500                  | 488,757    |
| October              | 16,915                     | 18,190               | 155,713                                        | 74,230                                             | 88,553                                                 | 446,000                  | 799,601    |
| November             | 16,519                     | 11,438               | 151,826                                        | 85,895                                             | 112,008                                                | 146,762                  | 524,448    |
| December             | 10,284                     | 10,827               | 111,091                                        | 59,850                                             | 106,654                                                | 176,000                  | 474,706    |
| 1989-90 July to Dec. | 88,086                     | 60,391               | 818,359                                        | 430,460                                            | 514,846                                                | 1,391,800                | 3,303,942  |
| 1990-91 July to Dec. | 94,316                     | 69,003               | 846,343                                        | 480,405                                            | 604,281                                                | 1,135,262                | 3,229,610  |

(a) Includes those made for incorporation by manufacturers in own products. Includes chokes and ballasts, prior to July 1989. Dual rating transformers are classified according to the maximum capacity at which they can operate as constructed at the time of manufacture.

TABLE 11. ELECTRIC MOTORS (a)  
(number)

| Single phase AC motors |                                          |                                                |                                                                   |                                                                  |                                                                  |                                |
|------------------------|------------------------------------------|------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------|
| Period                 | DC<br>motors<br>and<br>generators<br>(b) | Up to<br>and<br>including<br>37.5W<br>(716.61) | Over<br>37.5W<br>up to<br>and<br>including<br>190W<br>(716.62,63) | Over<br>190W<br>up to<br>and<br>including<br>380W<br>(716.64,65) | Over<br>380W<br>up to<br>and<br>including<br>746W<br>(716.66,67) | Over<br>746W<br>(716.68,69,70) |
| 1989-90                | 319                                      | 397,413                                        | 973,287                                                           | 331,334                                                          | 364,571                                                          | n.p.                           |
| 1989 —                 |                                          |                                                |                                                                   |                                                                  |                                                                  |                                |
| October                | 32                                       | 42,050                                         | 87,135                                                            | 28,494                                                           | 39,099                                                           | n.p.                           |
| November               | 20                                       | 42,871                                         | 86,166                                                            | 35,676                                                           | 34,502                                                           | n.p.                           |
| December               | 22                                       | 28,172                                         | 59,619                                                            | 26,063                                                           | 29,409                                                           | n.p.                           |
| 1990 —                 |                                          |                                                |                                                                   |                                                                  |                                                                  |                                |
| January                | 23                                       | 17,734                                         | 36,461                                                            | 10,945                                                           | 15,295                                                           | n.p.                           |
| February               | n.p.                                     | n.p.                                           | 80,629                                                            | 27,279                                                           | 19,211                                                           | n.p.                           |
| March                  | 44                                       | 31,809                                         | 77,110                                                            | 27,802                                                           | 29,267                                                           | 34,919                         |
| April                  | 24                                       | n.p.                                           | 55,985                                                            | 15,639                                                           | 13,987                                                           | n.p.                           |
| May                    | 32                                       | 36,609                                         | 92,795                                                            | 22,726                                                           | 25,626                                                           | n.p.                           |
| June                   | 22                                       | n.p.                                           | 100,664                                                           | 32,859                                                           | 28,357                                                           | n.p.                           |
| July                   | 19                                       | 44,042                                         | 83,695                                                            | 29,748                                                           | 25,965                                                           | n.p.                           |
| August                 | 16                                       | 50,588                                         | 94,697                                                            | 33,568                                                           | 34,183                                                           | n.p.                           |
| September              | 26                                       | 53,109                                         | 73,789                                                            | 23,540                                                           | 30,265                                                           | n.p.                           |
| October                | 27                                       | 67,830                                         | 91,013                                                            | 20,243                                                           | 31,766                                                           | n.p.                           |
| November               | 24                                       | 56,569                                         | 73,709                                                            | 21,823                                                           | 33,346                                                           | n.p.                           |
| December               | n.p.                                     | 29,322                                         | 63,544                                                            | 10,009                                                           | 28,271                                                           | n.p.                           |
| 1989-90 July to Dec.   | n.p.                                     | n.p.                                           | 529,733                                                           | 194,084                                                          | 232,828                                                          | n.p.                           |
| 1990-91 July to Dec.   | n.p.                                     | 301,460                                        | 480,447                                                           | 138,931                                                          | 183,796                                                          | n.p.                           |

TABLE 11. ELECTRIC MOTORS (a) — continued  
(number)

| Multiphase AC Motors |                                                 |                                                                     |                                                                    |                                                                   |                                | Total electric motors(c) |                               |              |
|----------------------|-------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------|--------------------------|-------------------------------|--------------|
| Period               | Up to<br>and<br>including<br>0.19kW<br>(716.71) | Over<br>0.19kW<br>up to<br>and<br>including<br>1.9kW<br>(716.72,73) | Over<br>1.9kW<br>up to<br>and<br>including<br>7.5kW<br>(716.74,75) | Over<br>7.5kW<br>up to<br>and<br>including<br>45kW<br>(716.76,77) | Over<br>45kW<br>(716.78,79,81) | Original                 | Seasonally<br>adjusted<br>(d) | Trend<br>(e) |
| 1987-88              | n.a.                                            | n.a.                                                                | n.a.                                                               | n.a.                                                              | n.a.                           | 2,844,027                | ..                            | ..           |
| 1988-89              | n.a.                                            | n.a.                                                                | n.a.                                                               | n.a.                                                              | n.a.                           | 3,076,305                | ..                            | ..           |
| 1989-90              | 2,232                                           | 47,858                                                              | n.p.                                                               | 6,825                                                             | n.p.                           | 2,604,109                | ..                            | ..           |
| 1989 —               |                                                 |                                                                     |                                                                    |                                                                   |                                |                          |                               |              |
| October              | n.p.                                            | 4,075                                                               | n.p.                                                               | 802                                                               | n.p.                           | 247,266                  | 213,883                       | 221,793      |
| November             | 210                                             | 3,287                                                               | 2,550                                                              | 844                                                               | n.p.                           | 249,897                  | 212,496                       | 215,473      |
| December             | 96                                              | 4,416                                                               | n.p.                                                               | n.p.                                                              | n.p.                           | 186,577                  | 204,444                       | 209,239      |
| 1990 —               |                                                 |                                                                     |                                                                    |                                                                   |                                |                          |                               |              |
| January              | 68                                              | 2,134                                                               | 301                                                                | 102                                                               | n.p.                           | 104,657                  | 211,586                       | 203,632      |
| February             | 582                                             | 5,611                                                               | n.p.                                                               | n.p.                                                              | n.p.                           | 205,269                  | 205,043                       | 200,114      |
| March                | n.p.                                            | n.p.                                                                | n.p.                                                               | 582                                                               | n.p.                           | 216,362                  | 210,929                       | 200,200      |
| April                | n.p.                                            | 2,604                                                               | n.p.                                                               | 259                                                               | n.p.                           | 138,095                  | 168,431                       | 203,632      |
| May                  | 163                                             | 5,136                                                               | n.p.                                                               | 626                                                               | n.p.                           | 225,397                  | 203,082                       | 209,100      |
| June                 | n.p.                                            | n.p.                                                                | n.p.                                                               | 377                                                               | n.p.                           | 249,133                  | 244,224                       | 215,319      |
| July                 | n.p.                                            | 2,142                                                               | n.p.                                                               | 144                                                               | n.p.                           | 222,658                  | 218,770                       | 219,631      |
| August               | n.p.                                            | 3,662                                                               | 2,189                                                              | 525                                                               | n.p.                           | 262,254                  | 228,663                       | 220,216      |
| September            | 207                                             | 3,095                                                               | n.p.                                                               | 364                                                               | n.p.                           | 221,214                  | 203,775                       | 216,950      |
| October              | n.p.                                            | 2,781                                                               | 750                                                                | 331                                                               | n.p.                           | 257,929                  | 216,445                       | 211,720      |
| November             | n.p.                                            | 2,805                                                               | n.p.                                                               | 490                                                               | 44                             | 240,044                  | 205,799                       | 206,225      |
| December             | 168                                             | 2,467                                                               | n.p.                                                               | 187                                                               | n.p.                           | 174,357                  | 197,176                       | 200,513      |
| 1989-90 July to Dec. | n.p.                                            | 25,417                                                              | n.p.                                                               | n.p.                                                              | n.p.                           | 1,465,196                | ..                            | ..           |
| 1990-91 July to Dec. | n.p.                                            | 16,952                                                              | n.p.                                                               | 2,041                                                             | n.p.                           | 1,378,456                | ..                            | ..           |

(a) Includes those made and incorporated in manufacturers own products. (b) Excludes those for aircraft, motor vehicles, off-highway trucks, materials handling trucks and tractors. (c) Also includes flameproof AC electric motors and universal ACDC motors (Australian Standard Commodity Classification Items 716.82, 83, 84, 85 and 86). (d) See paragraph 5, Explanatory Notes. (e) See paragraph 6 to 9, Explanatory Notes.

TABLE 12. OTHER ELECTRICAL APPLIANCES AND EQUIPMENT

| Period                | Phonograph records and cassette tapes |                       |                                                         | Electrodes<br>etc. for<br>electric arc<br>welding(a)<br>(699.58) | Liquid supply<br>or production<br>meters, including<br>calibration<br>meters therefor<br>(excluding<br>reconditioned)<br>(873.13) |
|-----------------------|---------------------------------------|-----------------------|---------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
|                       | Conventional solid discs              |                       | Audio<br>cassette<br>tapes pre-<br>recorded<br>(898.62) |                                                                  |                                                                                                                                   |
|                       | 45 r.p.m.<br>(898.72)                 | 33 r.p.m.<br>(898.74) |                                                         |                                                                  |                                                                                                                                   |
|                       | '000                                  | '000                  | '000                                                    | '000kg                                                           | number                                                                                                                            |
| 1987-88               | 8,104                                 | 14,910                | 27,118                                                  | 13,601                                                           | 244,464                                                                                                                           |
| 1988-89               | 8,407                                 | 13,403                | 29,621                                                  | 13,001                                                           | 290,044                                                                                                                           |
| 1989-90               | 7,687                                 | 7,664                 | 26,357                                                  | 15,054                                                           | 395,475                                                                                                                           |
| 1987—<br>December qtr | 2,314                                 | 4,856                 | 8,492                                                   | 2,771                                                            | 51,203                                                                                                                            |
| 1988—<br>March qtr    | 1,743                                 | 3,127                 | 5,867                                                   | 3,412                                                            | 54,870                                                                                                                            |
| June qtr              | 1,912                                 | 3,361                 | 6,324                                                   | 3,110                                                            | 88,929                                                                                                                            |
| September qtr         | 1,935                                 | 3,602                 | 7,685                                                   | 3,507                                                            | 76,709                                                                                                                            |
| December qtr          | 2,255                                 | 4,558                 | 9,558                                                   | 3,134                                                            | 75,223                                                                                                                            |
| 1989—<br>March qtr    | 1,729                                 | 2,686                 | 5,604                                                   | 2,853                                                            | 63,070                                                                                                                            |
| June qtr              | 2,489                                 | 2,556                 | 6,774                                                   | 3,507                                                            | 75,042                                                                                                                            |
| September qtr         | 2,187                                 | 2,588                 | 8,060                                                   | 3,971                                                            | 77,099                                                                                                                            |
| December qtr          | 2,507                                 | 2,658                 | 7,578                                                   | 4,014                                                            | 105,421                                                                                                                           |
| 1990—<br>March qtr    | 1,644                                 | 1,272                 | 5,398                                                   | 3,637                                                            | 107,088                                                                                                                           |
| June qtr              | 1,349                                 | 1,146                 | 5,321                                                   | 3,432                                                            | 105,867                                                                                                                           |
| September qtr         | 1,394                                 | 1,344                 | 8,168                                                   | 3,846                                                            | 85,702                                                                                                                            |
| December qtr          | 1,008                                 | 1,174                 | 10,018                                                  | 3,370                                                            | 66,750                                                                                                                            |
| 1989-90 July to Dec.  | 4,694                                 | 5,246                 | 15,638                                                  | 7,985                                                            | 182,520                                                                                                                           |
| 1990-91 July to Dec.  | 2,402                                 | 2,518                 | 18,186                                                  | 7,216                                                            | 152,452                                                                                                                           |

(a) Includes only electrodes for manual welding up to June Quarter 1989.

## 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 the 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 of several items. 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, 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, Transport Equipment* (8363.0) — 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 for any ABS office.

#### Symbols and other usages

- n.y.a. not yet available
- 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
- break in continuity of series (where a line is shown between consecutive figures in the same column)

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