Commonwealth Bureau of Census and Statistics,

CANBERRA.

OFFICIAL STATISTICS, COMMONWEALTH OF AUSTRALIA.

# MANUFACTURING INDUSTRIES, 1936-37.

# No. 10. MOTOR VEHICLES AND CYCLES.

PREPARED UNDER INSTRUCTIONS FROM

THE HONORABLE THE TREASURER.

BY

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# PREFACE

As a result of the deliberations of the Conference of Commonwealth and State Statisticians held in March, 1937, the statistics of factory production in Australia have been considerably extended, and a much greater degree of uniformity has been attained than in previous years. In consequence a more comprehensive analysis of the manufacturing industries is now possible.

While continuing to publish these statistics in the Official Year Book and the Production Bulletin, it is proposed to publish the details for the more important industries as soon as they become available in a series of special reports.

This is the fourteenth of the series, and it refers to the operations of establishments engaged in the Construction, Assembly and Repairs to Motor Vehicles and Cycles. Similar reports for other industries will follow as the tabulations are completed. A list of those already issued is given in the footnote hereunder while the complete list of the industries it is proposed to include in these Reports is given on the back cover.

The improvements in the scope and uniformity of the factory statistics have only been made possible by the ready co-operation and assistance of the manufacturers of Australia and the Statisticians of the several States.

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Canberra, A.C.T.
7th September, 1938.

NOTE: Previously issued:-
Nos. 1, 2, 18, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13.

## MOTOR VEHICLES AND CYCLES.

The factory classification provides for the grouping of factories associated with the Motor Industry into four groups viz. - (i) Construction and Assembly; (ii) Motor Body Building; (iii) Manufacture of Cycle and Motor Accessories and (iv) Repair Work. A summary of the principal statistics for each of these industries is given in the following tables (Nos. 1 to 8). In addition, Tables Nos. 9 and 10 provide for the aggregation of these statistics for the industry as a whole.

### 1. MOTOR VEHICLES AND CYCLES - CONSTRUCTION AND ASSEMBLY, - AUSTRALIA, 1930-31 TO 1936-37.

| Year | Number of Factories | Persons Employed (a) | Salaries and Wages Paid (b) | Power, Fuel and Light Used | Value of Other Materials Used | Value of Production | Value of Output |
|---|---|---|---|---|---|---|---|
| | No. | No. | £'000 | £'000 | £'000 | £'000 | £'000 |
| 1930-31 | 70 | 1,522 | 335 | 15 | 329 | 620 | 964 |
| 1931-32 | 60 | 994 | 192 | 9 | 68 | 393 | 470 |
| 1932-33 | 59 | 1,150 | 220 | 11 | 92 | 343 | 446 |
| 1933-34 | 55 | 1,728 | 324 | 14 | 166 | 454 | 634 |
| 1934-35 | 66 | 2,713 | 532 | 23 | 239 | 786 | 1,048 |
| 1935-36 | 77 | 4,007 | 802 | 30 | 476 | 1,423 | 1,929 |
| 1936-37 | 85 | 4,626 | 1,009 | 34 | 530 | 1,636 | 2,200 |

(a) Including Working Proprietors. (b) Exclusive of Amounts drawn by Working Proprietors.

In the following table particulars of the Industry are given for each State during the year 1936-37.

### 2. MOTOR VEHICLES AND CYCLES - CONSTRUCTION AND ASSEMBLY - STATES, 1936-37.

| Particulars | New South Wales | Victoria | Queensland | South Australia (c) | Western Australia | Tasmania (c) | AUSTRALIA |
|---|---|---|---|---|---|---|---|
| | No. | No. | No. | No. | No. | No. | No. |
| Number of Factories | 21 | 32 | 13 | .. | 19 | .. | 85 |
| Number Employed (a)- | | | | | | | |
| Males .. .. | 1,451 | 2,089 | 567 | .. | 301 | .. | 4,408 |
| Females .. | 39 | 151 | 20 | .. | 8 | .. | 218 |
| Total .. .. | 1,490 | 2,240 | 587 | .. | 309 | .. | 4,626 |
| | £. | £. | £. | £. | £. | £. | £. |
| Value of - | | | | | | | |
| Salaries and Wages Paid (b) .. | 307,375 | 512,494 | 121,270 | .. | 68,258 | .. | 1,009,397 |
| Fuel used .. | 11,487 | 15,058 | 4,715 | .. | 3,223 | .. | 34,483 |
| Materials used .. | 277,345 | 183,147 | 23,645 | .. | 46,032 | .. | 530,169 |
| Production .. | 541,153 | 670,873 | 267,069 | .. | 155,999 | .. | 1,635,094 |
| Output .. .. | 829,985 | 869,078 | 295,429 | .. | 205,254 | .. | 2,199,746 |
| Land and Buildings | 430,074 | 477,539 | 191,850 | .. | 100,092 | .. | 1,199,555 |
| Plant and Machinery | 50,511 | 123,928 | 11,040 | .. | 11,722 | .. | 197,201 |
| | H.P. | H.P. | H.P. | H.P. | H.P. | H.P. | H.P. |
| H.P. of Engines Ordinarily in use .. | 1,016 | 1,527 | 310 | .. | 260 | .. | 3,113 |

(a) Includes Working Proprietors. (b) Exclusive of Amounts drawn by Working Proprietors. (c) Included with Motor Vehicles and Cycles - Repairs.

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3. MOTOR VEHICLES AND CYCLES - MOTOR BODY BUILDING - AUSTRALIA, 1930-31 TO 1936-37.

| Year | Number of Factories | Persons Employed (a) | Salaries and Wages Paid (b) | Power, Fuel and Light Used | Value of Other Materials Used | Value of Production | Value of Output |
|---|---|---|---|---|---|---|---|
| | No. | No. | £'000 | £'000 | £'000 | £'000 | £'000 |
| 1930-31 | 160 | 2,777 | 509 | 21 | 526 | 740 | 1,287 |
| 1931-32 | 153 | 2,176 | 366 | 16 | 323 | 454 | 793 |
| 1932-33 | 159 | 3,654 | 653 | 25 | 711 | 887 | 1,623 |
| 1933-34 | 170 | 6,214 | 1,101 | 41 | 1,364 | 1,513 | 2,918 |
| 1934-35 | 177 | 9,427 | 1,798 | 61 | 2,183 | 2,664 | 4,908 |
| 1935-36 | 180 | 12,005 | 2,277 | 66 | 3,350 | 3,625 | 7,041 |
| 1936-37 | 201 | 12,267 | 2,567 | 69 | 3,640 | 3,520 | 7,229 |

(a) Including Working Proprietors. (b) Exclusive of Amounts drawn by Working Proprietors.

In the following table particulars of the Industry are given for each State during the year 1936-37.

4. MOTOR VEHICLES AND CYCLES - MOTOR BODY BUILDING - STATES, 1936-37.

| Particulars | New South Wales | Victoria | Queensland | South Australia | Western Australia | Tasmania | AUSTRALIA |
|---|---|---|---|---|---|---|---|
| | No. | No. | No. | No. | No. | No. | No. |
| Number of Factories | 49 | 86 | 35 | 12 | 19 | - | 201 |
| Number Employed (a)- | | | | | | | |
| Males .. .. | 1,335 | 3,519 | 476 | 6,250 | 226 | - | 11,806 |
| Females.. .. | 52 | 57 | 24 | 320 | 8 | - | 461 |
| Total .. .. | 1,387 | 3,576 | 500 | 6,570 | 234 | - | 12,267 |
| | £. | £. | £. | £. | £. | £. | £. |
| Value of - | | | | | | | |
| Salaries and Wages Paid (b) .. | 255,530 | 782,111 | 87,713 | 1,399,645 | 41,587 | - | 2,566,586 |
| Fuel used .. | 5,443 | 17,182 | 2,503 | 42,569 | 1,579 | - | 69,276 |
| Materials used .. | 303,569 | 1,217,715 | 96,495 | 1,969,311 | 52,840 | - | 3,639,930 |
| Production .. | 375,291 | 1,231,431 | 130,781 | 1,717,272 | 66,630 | - | 3,519,405 |
| Output .. .. | 682,303 | 2,466,328 | 229,779 | 3,729,152 | 121,049 | - | 7,228,611 |
| Land and Buildings | 216,414 | 531,564 | 74,373 | 291,132 | 61,116 | - | 1,174,599 |
| Plant and Machinery | 37,300 | 245,237 | 14,893 | 138,213 | 12,733 | - | 448,376 |
| | H.P. | H.P. | H.P. | H.P. | H.P. | H.P. | H.P. |
| H.P. of Engines Ordinarily in use .. | 893 | 3,886 | 503 | 9,572 | 188 | - | 15,042 |

(a) Including Working Proprietors. (b) Exclusive of Amounts drawn by Working Proprietors.

5. MOTOR VEHICLES AND CYCLES - ACCESSORIES - AUSTRALIA, 1930-31 TO 1936-37.

| Year | Number of Factories | Persons Employed (a) | Salaries and Wages Paid (b) | Power, Fuel and Light Used | Value of Other Materials Used | Value of Production | Value of Output |
|---|---|---|---|---|---|---|---|
| | No. | No. | £'000 | £'000 | £'000 | £'000 | £'000 |
| 1930-31 | 18 | 204 | 37 | 4 | 39 | 54 | 97 |
| 1931-32 | 18 | 215 | 38 | 4 | 42 | 69 | 115 |
| 1932-33 | 27 | 322 | 56 | 6 | 67 | 111 | 184 |
| 1933-34 | 28 | 360 | 54 | 7 | 99 | 124 | 230 |
| 1934-35 | 36 | 566 | 88 | 10 | 180 | 170 | 360 |
| 1935-36 | 37 | 643 | 104 | 11 | 205 | 224 | 440 |
| 1936-37 | 61 | 1,154 | 137 | 16 | 305 | 341 | 662 |

(a) Including Working Proprietors. (b) Exclusive of Amounts drawn by Working Proprietors.

In the following table particulars of the Industry are given for each State during the year 1936-37.

6. CYCLE AND MOTOR ACCESSORIES - STATES, 1936-37.

| Particulars | New South Wales | Victoria | Queensland | South Australia | Western Australia | Tasmania | AUSTRALIA |
|---|---|---|---|---|---|---|---|
| | No. | No. | No. | No. | No. | No. | No. |
| Number of Factories | 17 | 29 | 14 | .. | 1 | .. | 61 |
| Number Employed (a) - | | | | | | | |
| Males .. .. | 412 | 514 | 110 | .. | 16 | .. | 1,052 |
| Females.. .. | 47 | 44 | 10 | .. | 1 | .. | 102 |
| Total .. .. | 459 | 558 | 120 | .. | 17 | .. | 1,154 |
| | £. | £. | £. | £. | £. | £. | £. |
| Value of - | | | | | | | |
| Salaries and Wages Paid (b) .. | 72,066 | 96,344 | (c) | .. | (c) | .. | 187,164 |
| Fuel used .. | 8,189 | 6,676 | (c) | .. | (c) | .. | 15,875 |
| Materials used .. | 164,499 | 120,439 | (c) | .. | (c) | .. | 304,998 |
| Production .. | 148,169 | 153,869 | (c) | .. | (c) | .. | 340,862 |
| Output .. .. | 320,857 | 280,984 | (c) | .. | (c) | .. | 661,735 |
| Land and Buildings | 60,102 | 117,091 | (c) | .. | (c) | .. | 206,976 |
| Plant and Machinery | 52,127 | 56,621 | (c) | .. | (c) | .. | 117,967 |
| | H.P. | H.P. | H.P. | H.P. | H.P. | H.P. | H.P. |
| H.P. of Engines Ordinarily in use .. | 464 | 968 | (c) | .. | (c) | .. | 1,532 |

(a) Including Working Proprietors. (b) Exclusive of amounts drawn by Working Proprietors. (c) Not available for Publication. These figures are included in the totals for Australia.

7. MOTOR VEHICLES AND CYCLES - REPAIRS.- AUSTRALIA, 1930-31 TO 1936-37.

| Year | Number of Factories | Persons Employed (a) | Salaries and Wages Paid (b) | Power, Fuel and Light Used | Value of Other Materials Used | Value of Production | Value of Output |
|---|---|---|---|---|---|---|---|
| | No. | No. | £'000 | £'000 | £'000 | £'000 | £'000 |
| 1930-31(c) | 2,021 | 8,180 | 1,280 | 89 | 681 | 2,107 | 2,877 |
| 1931-32(c) | 2,075 | 7,462 | 1,038 | 76 | 623 | 1,797 | 2,496 |
| 1932-33(c) | 2,148 | 8,081 | 1,093 | 78 | 714 | 1,948 | 2,740 |
| 1933-34(c) | 2,291 | 9,232 | 1,252 | 84 | 869 | 2,163 | 3,116 |
| 1934-35(c) | 2,473 | 10,999 | 1,555 | 93 | 1,112 | 2,565 | 3,770 |
| 1935-36(c) | 2,646 | 12,929 | 1,890 | 109 | 1,363 | 3,062 | 4,534 |
| 1936-37(c) | 2,822 | 14,895 | 2,271 | 124 | 2,445 | 3,869 | 6,438 |

(a Including Working Proprietors. (b) Exclusive of amounts drawn by Working Proprietors. (c) Includes Construction and Assembly, South Australia and Construction and Assembly and Cycle and Motor Accessories, Tasmania.

In the following table particulars of the Industry are given for each State during the year 1936-37.

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## 8. MOTOR VEHICLES AND CYCLES - REPAIRS, STATES, 1936-37.

| Particulars | New South Wales | Victoria | Queensland | South Australia (c) | Western Australia | Tasmania (d) | AUSTRALIA |
|---|---|---|---|---|---|---|---|
| | No. | No. | No. | No. | No. | No. | No. |
| Number of Factories | 1,073 | 953 | 248 | 151 | 293 | 104 | 2,822 |
| Number Employed(a)- | | | | | | | |
| Males .. .. | 5,521 | 4,459 | 1,129 | 1,366 | 1,007 | 581 | 14,063 |
| Females.. .. | 387 | 182 | 87 | 71 | 56 | 49 | 832 |
| Total .. .. | 5,908 | 4,641 | 1,216 | 1,437 | 1,063 | 630 | 14,895 |
| | £. | £. | £. | £. | £. | £. | £. |
| Value of - | | | | | | | |
| Salaries and Wages Paid (b) .. | 893,272 | 720,383 | 185,829 | 214,006 | 169,271 | 87,876 | 2,270,637 |
| Fuel used .. | 47,402 | 42,632 | 9,413 | 10,614 | 10,317 | 3,194 | 123,572 |
| Materials used .. | 958,025 | 729,889 | 259,650 | 176,928 | 233,199 | 87,431 | 2,445,122 |
| Production .. | 1,531,393 | 1,211,812 | 344,949 | 316,788 | 322,559 | 141,503 | 3,869,004 |
| Output .. .. | 2,536,820 | 1,984,333 | 614,012 | 504,330 | 566,075 | 232,128 | 6,437,698 |
| Land and Buildings | 1,879,682 | 1,197,383 | 389,542 | 357,579 | 356,240 | 203,030 | 4,383,456 |
| Plant and Machinery | 424,877 | 322,835 | 105,310 | 79,207 | 87,675 | 35,238 | 1,055,142 |
| | H.P. | H.P. | H.P. | H.P. | H.P. | H.P. | H.P. |
| H.P. of Engines Ordinarily in use .. | 4,534 | 2,460 | 887 | 944 | 995 | 366 | 11,186 |

(a) Including Working Proprietors. (b) Exclusive of Amounts drawn by Working Proprietors. (c) Includes Construction and Assembly. (d) Includes Construction and Assembly and Cycle and Motor Accessories.

## 9. MOTOR VEHICLES AND CYCLES AND ACCESSORIES - CONSTRUCTION AND ASSEMBLY, REPAIRS, MOTOR BODY BUILDING AND CYCLE AND MOTOR ACCESSORIES- AUSTRALIA, 1930-31 TO 1936-37.

| Year | Number of Factories | Persons Employed (a) | Salaries and Wages Paid (b) | Power, Fuel and Light Used | Value of Other Materials Used | Value of Production | Value of Output |
|---|---|---|---|---|---|---|---|
| | No. | No. | £'000 | £'000 | £'000 | £'000 | £'000 |
| 1930-31 | 2,269 | 12,683 | 2,161 | 129 | 1,375 | 3,521 | 5,225 |
| 1931-32 | 2,306 | 10,847 | 1,634 | 105 | 1,056 | 2,713 | 3,874 |
| 1932-33 | 2,393 | 13,207 | 2,022 | 120 | 1,584 | 3,289 | 4,993 |
| 1933-34 | 2,544 | 17,534 | 2,731 | 146 | 2,498 | 4,254 | 6,898 |
| 1934-35 | 2,752 | 23,705 | 3,973 | 187 | 3,714 | 6,185 | 10,086 |
| 1935-36 | 2,940 | 29,584 | 5,073 | 216 | 5,394 | 8,331 | 13,944 |
| 1936-37 | 3,169 | 32,942 | 6,034 | 243 | 6,920 | 9,364 | 16,527 |

(a) Including Working Proprietors. (b) Exclusive of Amounts drawn by Working Proprietors.

In the following table particulars of these Industries are given for each State during the year 1936-37.

## 10. MOTOR VEHICLES AND CYCLES AND ACCESSORIES - CONSTRUCTION AND ASSEMBLY, REPAIRS, MOTOR BODY BUILDING AND CYCLE AND MOTOR ACCESSORIES - STATES, 1936-37.

| Particulars | New South Wales | Victoria | Queensland | South Australia | Western Australia | Tasmania | AUSTRALIA |
|---|---|---|---|---|---|---|---|
| | No. | No. | No. | No. | No. | No. | No. |
| Number of Factories | 1,160 | 1,100 | 310 | 163 | 332 | 104 | 3,169 |
| Number Employed(a)- | | | | | | | |
| Males .. .. | 8,719 | 10,581 | 2,282 | 7,616 | 1,550 | 581 | 31,329 |
| Females.. .. | 525 | 434 | 141 | 391 | 73 | 49 | 1,613 |
| Total .. .. | 9,244 | 11,015 | 2,423 | 8,007 | 1,623 | 630 | 32,942 |
| | £. | £. | £. | £. | £. | £. | £. |
| Value of - | | | | | | | |
| Salaries and Wages Paid (b) .. | 1,528,[illegible]3 | 2,111,332 | 409,854 | 1,613,651 | 282,828 | 87,876 | 6,033,784 |
| Fuel used .. | 72,521 | 81,548 | 17,439 | 53,183 | 15,321 | 3,194 | 243,206 |
| Materials used .. | 1,703,438 | 2,251,190 | 395,630 | 2,146,239 | 336,291 | 87,431 | 6,920,219 |
| Production .. | 2,594,006 | 3,267,985 | 775,965 | 2,034,060 | 550,846 | 141,503 | 9,364,365 |
| Output .. .. | 4,369,965 | 5,600,723 | 1,189,034 | 4,233,482 | 902,458 | 232,128 | 16,527,790 |
| Land and Buildings | 2,586,272 | 2,323,577 | 681,648 | 648,711 | 521,348 | 203,030 | 6,964,586 |
| Plant and Machinery | 564,815 | 748,621 | 138,612 | 217,420 | 113,980 | 35,238 | 1,818,686 |
| | H.P. | H.P. | H.P. | H.P. | H.P. | H.P. | H.P. |
| H.P. of Engines Ordinarily in use .. | 6,907 | 9,841 | 1,761 | 10,516 | 1,482 | 366 | 30,873 |

(a) Including Working Proprietors. (b) Exclusive of amounts drawn by Working Proprietors.



/ Particulars

Particulars of the average salary and wage paid together with the average values per employee of output and production are shown in the following table for each of the years indicated:-

11. MOTOR VEHICLES AND CYCLES - CONSTRUCTION AND ASSEMBLY, REPAIRS, BODY BUILDING AND ACCESSORIES - AVERAGE SALARIES AND WAGES PAID, OUTPUT, ETC. PER EMPLOYEE - AUSTRALIA 1930-31 TO 1936-37.

| Year | Salaries and Wages per Employee (a) | Value of Output per Person Engaged (b) | Value of Production per Person Engaged (b) | Ratio per cent of Salaries and Wages to Value of Production |
|---|---|---|---|---|
| | £. | £. | £. | % |
| 1930-31 | 196 | 412 | 278 | 61.37 |
| 1931-32 | 179 | 357 | 250 | 60.23 |
| 1932-33 | 178 | 378 | 249 | 61.48 |
| 1933-34 | 176 | 393 | 243 | 64.20 |
| 1934-35 | 185 | 425 | 261 | 64.24 |
| 1935-36 | 186 | 471 | 282 | 60.87 |
| 1936-37 | 199 | 502 | 284 | 64.44 |

(a) Excludes Working Proprietors and Amounts drawn by them. (b) Including Working Proprietors.

12. The following table is divided into five parts and refers to the output of factories associated with the Motor and Cycle Industry.

12. MOTOR VEHICLES AND CYCLES-CONSTRUCTION, ASSEMBLY, REPAIRS, ETC. AUSTRALIA, 1936-37.

| Particulars | Unit of Quantity | Quantity | Value £. |
|---|---|---|---|
| PART 1. ASSEMBLY OF CHASSIS, INCLUDING ENGINES. | | | |
| Chassis (including Engines) Assembled - | | | |
| Cars .. .. | No. | 52,182 | (a) |
| Trucks .. .. | " | 16,488 | (a) |
| Motor Cycle Engines assembled .. | " | (b) 665 | (a) |
| PART 2. MOTOR BODIES MADE. | | | |
| Sedans .. .. | No. | (e) 39,986 | 4,191,175 |
| Coupes .. .. | " | 3,990 | 354,873 |
| Tourers .. .. | " | 1,861 | 114,094 |
| Roadsters .. .. | " | 3,879 | 225,167 |
| Passenger Buses .. .. | " | 423 | 209,855 |
| Trucks - With Cab .. .. | " | 9,463 | 446,389 |
| Without Cab.. .. | " | 4,607 | 121,068 |
| Utilities .. .. | " | 7,316 | 449,003 |
| Trailers .. .. | " | 365 | 34,286 |
| Other, including Vans.. .. | " | 5,360 | 315,404 |
| Sidecars made .. .. | " | 3,815 | 27,744 |
| PART 3. MOTOR ACCESSORIES MADE. | | | |
| Axles .. .. | No. | (c) | 11,887 |
| Springs .. .. | " | (c) | 239,149 |
| Radiators - Shells .. .. | " | 1,220 | 4,785 |
| Cores .. .. | " | 6,722 | 17,367 |
| Spark Plugs .. .. | " | 506,264 | 36,542 |
| Pistons .. .. | " | 192,767 | 59,306 |
| Piston Rings .. .. | " | 2,629,215 | 72,886 |
| Gears .. .. | " | (d) | 109,677 |
| PART 4. CYCLES. | | | |
| Cycles - Assembled .. .. | No. | 80,071 | (a) |
| Made .. .. | " | 75,538 | 356,002 |
| Cycle Parts made .. .. | " | (d) | 59,122 |
| PART 5. MOTOR GARAGES DOING REPAIR WORK. | | | |
| Total Value of Output (Including Value of other work done) .. | .. | .. | 6,437,698 |

(a) Quantity only collected. (b) Possibly Incomplete. (c) Not available. (d) Value only collected. (e) Including Motor Bodies assembled.

NOTE: As some of the details given in the above table were not collected in previous years, the current year's returns may be incomplete in some respects.

The following table furnishes particulars of motor vehicle registrations in Australia for the years shown.

13. MOTOR VEHICLE REGISTRATIONS - AUSTRALIA, 1928-29 TO 193 -38.

| Year | Motor Vehicles on Register at end of period | | | New Motor Vehicles Registered during period (a) | | |
|---|---|---|---|---|---|---|
| | Motor Cars | Commercial Vehicles, etc. | Motor Cycles | Motor Cars | Commercial Vehicles, etc. | Motor Cycles |
| 1928-29 | 474,359 | 71,851 | 88,049 | 63,147 | 14,049 | 8,656 |
| 1929-30 | 466,930 | 104,487 | 84,897 | 46,529 | 12,855 | 7,753 |
| 1930-31 | 429,206 | 97,943 | 76,966 | 15,479 | 3,822 | 2,753 |
| 1931-32 | 419,970 | 96,254 | 71,696 | 10,403 | 2,218 | 1,955 |
| 1932-33 | 438,499 | 105,837 | 72,896 | 14,024 | 3,366 | 2,639 |
| 1933-34 | 455,199 | 116,341 | 73,104 | 22,522 | 6,589 | 3,936 |
| 1934-35 | 457,684 | 155,721 | 75,045 | 36,934 | 10,334 | 5,249 |
| 1935-36 | 484,832 | 180,567 | 77,467 | 52,383 | 18,648 | 6,673 |
| 1936-37 | 499,289 | 214,296 | 77,912 | 48,587 | 34,191 | 7,479 |
| 1937-38 | 532,278 | 241,946 | 80,096 | 54,975 | 27,335 | 8,293 |

(a) Excluding Northern Territory and extra-Metropolitan area of Western Australia; also Australian Capital Territory prior to 1935-36. The figures relating to the earlier years are approximate only, as complete particulars are not available.

The following table furnishes details of the number of factories and the number employed in each State in the Industrial group - Motor Vehicles and Cycles - Construction and Assembly, Repairs, Body Building and Accessories. For statistical purposes a factory is defined as an industrial establishment in which four or more hands are employed, or in which power, other than hand, is used.

14. FACTORIES AND EMPLOYMENT - STATES, 1936-37.

| State | Number of Factories | Number employed (Average over whole year) | | |
|---|---|---|---|---|
| | | Males | Females | Total |
| New South Wales .. | 1,160 | 8,719 | 525 | 9,244 |
| Victoria .. .. | 1,100 | 10,581 | 434 | 11,015 |
| Queensland .. .. | 310 | 2,282 | 141 | 2,423 |
| South Australia .. | 163 | 7,616 | 391 | 8,007 |
| Western Australia .. | 332 | 1,550 | 73 | 1,623 |
| Tasmania .. .. | 104 | 581 | 49 | 630 |
| TOTAL: | 3,169 | 31,329 | 1,613 | 32,942 |

The number of employees in the previous table has been adjusted to represent the average employment over the whole year in those cases where short time was worked. In the following table the factories have been classified according to the average number employed during the actual period worked.

15. FACTORIES CLASSIFIED ACCORDING TO HANDS EMPLOYED - AUSTRALIA, 1930-31 TO 1936-37.

| Number of Persons Employed in each Factory | 1930-31 | | 1933-34 | | 1934-35 | | 1935-36 | | 1936-37 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Factories | Number Employed | Number of Factories | Number Employed | Number of Factories | Number Employed | Number of Factories | Number Employed | Number of Factories | Number Employed |
| Under 4 | 1,371 | 2,622 | 1,585 | 2,954 | 1,615 | 3,193 | 1,669 | 3,327 | 1,682 | 3,430 |
| 4 | 246 | 984 | 233 | 932 | 280 | 1,120 | 305 | 1,220 | 364 | 1,456 |
| 5 to 10 | 434 | 2,813 | 489 | 3,155 | 582 | 3,818 | 624 | 4,048 | 737 | 4,803 |
| 11 to 20 | 119 | 1,795 | 128 | 1,845 | 131 | 1,883 | 174 | 2,480 | 191 | 2,752 |
| 21 to 50 | 81 | 2,486 | 79 | 2,431 | 96 | 3,088 | 96 | 3,142 | 107 | 3,271 |
| 51 to 100 | 13 | 860 | 13 | 1,196 | 32 | 2,277 | 47 | 3,263 | 57 | 3,941 |
| Over 100 | 5 | 1,445 | 12 | 5,097 | 16 | 8,626 | 25 | 12,575 | 31 | 13,567 |
| TOTAL: | 2,269 | 13,005 | 2,544 | 17,610 | 2,752 | 24,005 | 2,940 | 30,055 | 3,169 | 33,220 |
| Average Number employed per Factory: | 57 | | 69 | | 87 | | 102 | | 105 | |



/ Further

Further details of employment in the Industrial group - Motor Vehicles and Cycles - Construction and Assembly, Repairs, Body Building and Accessories are furnished in the next three tables. In the first the employees have been classified according to the nature of their employment.

16. PERSONS EMPLOYED CLASSIFIED ACCORDING TO GRADE OF OCCUPATION - AUSTRALIA, 1930-31 TO 1936-37.

| Grade of Occupation | 1930-31 | 1933-34 | 1934-35 | 1935-36 | 1936-37 |
|---|---|---|---|---|---|
| | No. | No. | No. | No. | No. |
| Working Proprietors .. | 1,681 | 1,997 | 2,240 | 2,377 | 2,552 |
| Managers and Overseers .. | 622 | 577 | 591 | 854 | 1,063 |
| Clerical Staff .. | 1,141 | 1,204 | 1,586 | 1,974 | 2,676 |
| Engine Drivers and Firemen.. | 8 | 14 | 17 | 33 | 22 |
| Workers, Skilled and Unskilled | 9,073 | 13,607 | 19,007 | 24,114 | 26,363 |
| Other (Carters and Messengers) | 158 | 135 | 164 | 232 | 266 |
| TOTAL: | 12,683 | 17,534 | 23,705 | 29,584 | 32,942 |

Information collected from factories was extended in 1936-37 to include details of the number employed (excluding Working Proprietors) on the pay-day nearest to the 15th of each month.

17. PERSONS EMPLOYED ON PAY-DAY NEAREST TO THE 15TH OF EACH MONTH, AUSTRALIA, 1936-37.
(Working Proprietors Excluded)

| Month | Males | Females | Total | Month | Males | Females | Total |
|---|---|---|---|---|---|---|---|
| 1936 - | No. | No. | No. | 1937 - | No. | No. | No. |
| July .. | 27,538 | 1,436 | 28,974 | January | 27,989 | 1,484 | 29,473 |
| August .. | 26,401 | 1,421 | 27,822 | February | 30,014 | 1,658 | 31,672 |
| September | 26,299 | 1,414 | 27,713 | March | 30,010 | 1,633 | 31,643 |
| October.. | 25,823 | 1,413 | 27,236 | April .. | 31,013 | 1,696 | 32,709 |
| November | 26,196 | 1,427 | 27,623 | May .. | 31,780 | 1,764 | 33,544 |
| December | 27,934 | 1,489 | 29,423 | June .. | 32,070 | 1,750 | 33,820 |

A classification of the number of employees according to age on or about the 15th June, 1937, is shown in the next table:-

18. PERSONS EMPLOYED CLASSIFIED ACCORDING TO AGE - JUNE, 1937.

| Sex | Under 16 years | 16 and under 21 years | Adults | Total |
|---|---|---|---|---|
| | No. | No. | No. | No. |
| Males .. .. | 1,256 | 6,863 | 23,951 | 32,070 |
| Per Cent of Total | 4% | 21% | 75% | 100% |
| Females .. .. | 74 | 601 | 1,075 | 1,750 |
| Per Cent of Total | 4% | 34% | 62% | 100% |
| Persons .. .. | 1,330 | 7,464 | 25,026 | 33,820 |
| Per Cent of Total | 4% | 22% | 74% | 100% |

Statistics of the power equipment of the factories included in this group are now obtained in more extensive detail than hitherto. On account of the change from average horsepower used to rated horsepower of engines installed, however, comparison with previous years cannot be made.

/ 19. POWER

## 19. POWER EMPLOYED TO DRIVE MACHINERY - AUSTRALIA, 1936-37.

| Class of Engines | Rated H.P. Ordinarily in Use |
|---|---|
| Steam - Reciprocating .. | 663 |
| Turbine .. .. | - |
| Internal Combustion - | |
| Gas .. .. | 202 |
| Petrol or Other Light Oils .. | 1,379 |
| Heavy Oils .. | 416 |
| Water .. .. | 11 |
| Total Prime Movers .. | 2,671 |
| Motors Driven by electricity .. | |
| Purchased .. | 28,202 |
| Own Generation .. | 54 |
| Total Electricity .. | 28,256 |
| Total Power Used(a): | 30,873 |

(a) Without Duplication.

Details of the quantities and values of the various items of Power, Fuel and Light used in this Industrial group are shown in the following table:-

## 20. POWER, FUEL AND LIGHT, ETC. USED - AUSTRALIA, 1936-37.

| Particulars | Unit of Quantity | Quantity | Value £. |
|---|---|---|---|
| Coal - Black .. .. | Ton | 4,284 | 7,053 |
| Brown .. .. | " | 41 | 59 |
| Coke .. .. | " | 1,801 | 3,423 |
| Wood .. .. | " | 752 | 597 |
| Fuel Oil .. .. | Gallon | 913,355 | 23,270 |
| Electricity .. .. | - | (a) | 160,437 |
| Gas .. .. | - | (a) | 18,851 |
| Other (Charcoal, etc.) .. | - | (a) | 2,101 |
| Water used .. .. | - | (a) | 11,892 |
| Lubricating Oil .. .. | - | (a) | 15,523 |
| TOTAL: | | .. | 243,206 |

(a) Value only available.

Particulars of the book values of premises occupied and plant used in the factories of this Industrial group at the 30th June for each of the five years ended 1937 are shown in the next table. In addition, details of the values of additions and replacements made and depreciation allowed during the year 1936-37 are also shown. It should be noted that the amounts expended in Additions and Replacements refer to expenditure incurred by existing factories and do not include the cost of erecting and equipping new factories; these latter items, however, are included with the book values shown at 30th June. The amounts shown for Depreciation are those returned by factories. Changes in the number of factories operating affect comparison from year to year.

## 21. VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY - AUSTRALIA, 1936-37.

| Particulars | Land and Buildings £. | Plant and Machinery £. |
|---|---|---|
| Additions and Replacements made during year (a) | 450,160 | 449,438 |
| Depreciation allowed during year (a) .. | 145,775 | 222,510 |
| Book Value (a) as at 30th June - .. | | |
| 1937 .. .. | 6,964,586 | 1,818,686 |
| 1936 .. .. | 6,190,491 | 1,530,446 |
| 1935 .. .. | 5,796,444 | 1,403,466 |
| 1934 .. .. | 5,370,059 | 1,345,762 |
| 1933 .. .. | 5,240,322 | 1,408,437 |

(a) See Note above.

/ The

The imports and exports of a number of items included in the group - Motor Vehicles and Cycles - are given in the following tables.

22. IMPORTS OF MOTOR VEHICLES AND CYCLES - AUSTRALIA, 1928-29 TO 1936-37.

| Item | Unit | 1928-29 | 1930-31 | 1934-35 | 1935-36 | 1936-37 |
|---|---|---|---|---|---|---|
| Motor Vehicles - | | | | | | |
| Chassis - Unassembled- | | | | | | |
| Cars .. | No. | 92,198 | 9,220 | 52,656 | 74,120 | 54,105 |
| | £A.. | 7,712,723 | 784,200 | 4,876,823 | 6,609,883 | 4,573,363 |
| Trucks .. | No. | (a) | (a) | (a) | (a) | 14,728 |
| | £A. | (a) | (a) | (a) | (a) | 1,597,241 |
| Assembled .. | No. | 7,302 | 147 | 1,319 | 1,532 | 1,082 |
| | £A. | 1,117,639 | 30,637 | 254,369 | 288,833 | 263,039 |
| Parts .. | £A. | 375,104 | 140,120 | 266,310 | 389,988 | 334,657 |
| Motor Bodies .. | No. | 14,546 | 137 | 2,215 | 1,699 | 786 |
| | £A. | 1,471,878 | 15,810 | 224,896 | 187,365 | 101,928 |
| Parts of Bodies viz: Metal Panels.. | £A. | 17 | 15 | 809 | 25,804 | 83,735 |
| Motor Parts N.E.I. .. | £A. | 1,139,862 | 136,291 | 412,580 | 630,352 | 615,152 |
| Cycle and Cycle Parts - | | | | | | |
| Cycle, Motor Cycle and Side Car Parts .. | £A. | 264,800 | 115,169 | 397,215 | 491,175 | 464,279 |
| Bicycles, Tricycles and similar vehicles n.e.i. and Frames thereof whether partly or wholly finished .. | No. | (a) | (a) | 2,034 | 2,805 | 2,239 |
| | £A. | 10,073 | 2,015 | 7,148 | 10,129 | 8,404 |
| Motor Cycles and Frames thereof whether wholly or partly finished but not including Rubber Tyres and Tubes .. | No. | (a) | 1,990 | 4,752 | 7,184 | 8,205 |
| | £A. | 655,555 | 96,633 | 240,528 | 355,002 | 411,574 |

(a) Included in Chassis - Unassembled. (b) Quantities not available.

23. EXPORTS OF MOTOR VEHICLES AND CYCLES - AUSTRALIA, 1928-29 TO 1936-37.

| Item | Unit | 1928-29 | 1930-31 | 1934-35 | 1935-36 | 1936-37 |
|---|---|---|---|---|---|---|
| Motor Cars, Lorries and Wagons .. .. | No. | (a) | (a) | 225 | 435 | 378 |
| | £A. | 175,230 | 106,545 | 56,477 | 70,835 | 85,569 |
| Motor Cars, Trucks and Wagons - Parts of .. | £A | (b) | (b) | 54,624 | 51,773 | 71,653 |
| Motor Cycles, Tricycles, and Similar Vehicles N.E.I. and Parts thereof | £A. | 2,723 | 4,204 | 955 | 1,168 | 1,886 |

(a) Quantities not available. (b) Included in Motor Cars, Lorries and Wagons.