# PART XI.

## FACTORIES, FISHERIES, MINES, ETC.

## FISHERIES.

Certain particulars relating to the fishing industry in Victoria are given hereunder.

FISHERIES—MEN AND VICTORIAN BOATS EMPLOYED; QUANTITY AND VALUE OF VICTORIAN FISH IN VICTORIA DURING EACH OF THE YEARS 1944-45 TO 1948-49.

|      |                |                   | Ro      | ats     | Value<br>of          | Vict       | orian Fish<br>Victoria |                |        |
|------|----------------|-------------------|---------|---------|----------------------|------------|------------------------|----------------|--------|
|      | Ended<br>June. | Number<br>of Men. |         | oyed.   | Nets<br>and<br>Other | Fish       | n.                     | Cray           | yfish. |
|      |                |                   | Number. | Value.  | Plant.               | Quantity.  | Value.                 | Quan-<br>tity. | Value. |
|      |                |                   |         | £       | £                    | lb.        | £                      | doz.           | £      |
| 1945 |                | 2,082             | 1,190   | 243,866 | 55,352               | 9,310,336  | 397,629                | 1,242          | 2,244  |
| 1946 |                | 2,329             | 1,194   | 306,585 | 65,803               | 11,923,072 | 543,719                | 2,313          | 4,164  |
| 1947 |                | 2,251             | 1,390   | 600,451 | 75,973               | 11,538,240 | 528,275                | 3,956          | 7,621  |
| 1948 |                | 2,471             | 1.298   | 562,719 | 97,740               | 9,744,517  | 446,701                | 2,514          | 4,705  |
| 1949 |                | 2,340             | 1,243   | 542,013 | 100,695              | 9,906,625  | 496,748                | 14,771         | 26,588 |

The quantities and values of fish sold in the Melbourne Melbourne Fish Market. Fish Market during each of the years 1947-48 and 1948-49 are shown in the next table.

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## FISH SOLD IN THE MELBOURNE FISH MARKET, 1947-48 AND 1948-49.

|   |   | Year Ende                       | Ended 30th June.                          |   |  |  |  |
|---|---|---------------------------------|---|---|--|--|--|
| 8-/   | 194                                       | 8.                              | 1949.                                     |   |  |  |  |
|   | Quantity.                                 | Value,                          | Quantity.                                 | Value.                                      |  |  |  |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | 9,711,100<br>16,068<br>2,951,972<br>3,782 | £ 445,092 28,922 207,641 20,208 | 9,801,050<br>29,519<br>3,856,740<br>3,372 | £<br>490,052<br>53,134<br>286,428<br>18,018 |  |  |  |
| Total   | l   | 701,863                         |   | 847,623                                     |  |  |  |

Prawns (23,600 lb. valued at £3,540) were also sold in this market during 1948-49.

The Ballarat Fish Market ceased operations on 30th June, 1948.

Fish imported.

Particulars of imports of fish into Victorian Ports from oversea countries in each of the two years 1947-48 and 1948-49 are given in the following statement:—

## VICTORIA—FISH IMPORTED FROM OVERSEA, 1947-48 AND 1948-49.

|                                    |            | Year Ende | ed 30th June. |         |  |
|------------------------------------|------------|-----------|---------------|---------|--|
|                                    | 194        | 8.        | 1949.         |         |  |
|                                    | Quantity.  | Value.    | Quantity.     | Value,  |  |
| Fish-                              | lb.        | £         | Ib.           | £       |  |
| Fresh or Preserved by Cold Process | 3,449,850  | 167,005   | 4,703,350     | 253,033 |  |
| Potted or Concentrated, &c         | 272,662    | 55,389    | 58,155        | 11,766  |  |
| Preserved in tins, &c              | 6,418,830  | 716,206   | 4,880,871     | 626,669 |  |
| Other                              | 417,271    | 26,293    | 299,564       | 21,722  |  |
| Total                              | 10,558,613 | 964,893   | 9,941,940     | 913,190 |  |

## RABBITS, ETC.

Frozen rabbits, &c., exported.

Large quantities of frozen rabbits and hares and of rabbit and hare skins are exported from Victorian Ports to oversea countries. The following table shows the quantities and values so exported during each of the years 1944-45 to 1948-49:—

# VICTORIA—RABBITS AND HARES AND RABBIT AND HARE SKINS EXPORTED OVERSEA 1944-45 TO 1948-49.

| Vear End | ed 30th Ju | ıne | Frozen Rabbi | its and Hares. | Rabbit an | d Hare Skins. |
|----------|------------|-----|--------------|----------------|-----------|---------------|
|          |            |     | Quantity.    | Value.         | Quantity. | Value.        |
|          |            |     | Pairs.       | £              | lb.       | £             |
| 945      | • •        |     | 1,379,537    | 160.675        | 5,750,112 | 1,750,681     |
| 946      |            |     | 1,035,311    | 109,044        | 6,203,553 | 2,616,670     |
| 947      |            |     | 4,528,137    | 528,825        | 4,947,452 | 2,020,950     |
| 948      |            |     | 9,422,193    | 1,353,986      | 5,520,569 | 1,786,345     |
| 1949     |            |     | 14,993,415   | 2,390,701      | 4.110.507 | 1,142,571     |

Rabbits, &c., sold at the mumbers of pairs of rabbits and hares sold at the Melbourne Fish Market in each of the past five years were as follows;—1944-45, 570,880; 1945-46, 479,532; 1946-47, 511,908; 1947-48, 262,596; and 1948-49, 358,884.

#### MINES AND MINERALS.

The supervision of mining and the inspection of mines are regulated by Act of Parliament.

Interesting information regarding the rights of the Crown to all minerals on or below the surface of the ground, with reference to the position obtaining towards lands alienated from the Crown will be found in the Year Book for 1940–41 and subsequent issues.

Miners' rights. The taking out of a "Miner's Right" entitles the holder to prospect for gold on Crown lands. The "Right" may be had for any number of years not exceeding fifteen on payment of a fee at the rate of 2s. 6d. per annum. The holder is entitled to take possession for mining purposes of a defined parcel of Crown lands which is called a "claim." "Claims" may also be taken up under certain conditions on private land. The authority to occupy Crown land under a Miner's Right as a residence area was withdrawn in 1935 by Act No. 4319. The number of miners' rights issued throughout Victoria in each of the years 1945, 1946, 1947, 1948, and 1949, were respectively 1,269, 1,893, 1,553, 1,352, and 1,411.

Mining leases. Leases of Crown land and of private land for the purpose of mining for gold are granted for a term not exceeding fifteen years at a yearly rental of 2s. 6d. per acre, except for land that was alienated before 29th December, 1884, where the rental is 6d. per acre. For mining leases of land to be worked by means of dredging or hydraulic sluicing, the yearly rental is 5s. per acre. Other mineral and coal-mining leases are also issued at varying rates.

Petroleum leases and leases of not more than 100 square miles and petroleum prospecting licences covering a maximum area of 200 square miles are granted, over Crown lands and land alienated since 1st March, 1892, at yearly rentals of 6d. and 1d. per acre, respectively.

Area occupied the Mines Acts on 31st December, 1949, was 1,173,502 acres. The subjoined table shows the area being worked for different minerals under such Acts.

# VICTORIA—AREA OCCUPIED UNDER THE MINES ACTS 31st DECEMBER, 1949.

(Crown Land and Private Land.)

| Nature of Lease or Licence. | Area.   | Nature of Lease or Licence. | Area.     |
|-----------------------------|---------|-----------------------------|-----------|
|                             | Acres.  |                             | Acres.    |
| Gold                        | 20,612  | Limestone                   | 300       |
| Coal (black)*               | 9,430   | Magnesite                   | 57        |
| Coal (brown)†               | 3,946   | Marble                      | 6         |
| Coal (black and brown)      | 100     | Mineral Water and Gas       | 1         |
| Antimony                    | 301     | Molybdenite                 |           |
| Antimony and Gold           | 43      | Ochre                       | 6         |
| Barytes                     | 45      | Petroleum Prospecting       | 1,134,582 |
| Basalt                      | 14      | Pigment                     |           |
| Bauxite                     | 305     | Sand                        |           |
| Bluestone                   | .   13  | Silver, Lead, and Fluorspa  |           |
| Clay                        | . 157   | Slate and Gold              |           |
| Diatomaceous Earth .        | . 14    | Tailings Licences           | .   1,010 |
| Granite                     | . 33    |                             | 324       |
| Gypsum                      | . 1,328 | Water Right Licences .      | . 408     |
| Iron                        | . 62    | Wolfram                     | . 39      |
| Kaolin                      | . 183   |                             |           |
| Kaolin and Gold .           | . 5     |                             |           |
| Lead and Silver             | . 93    | Total                       | 1,173,502 |

<sup>\*</sup> Includes State Coal Mine Area, 7,575 acres. † Includes State Electricity Commission Area, 2,800 acres.

Certain gold mining leases include the right to mine for other minerals.

Certain mineral leases include the right to mine for gold.

Mining development. The advances from loan moneys and revenue to mining companies under the provisions of the Mining Development Acts to 30th June, 1930, when assistance under these Acts was discontinued, totalled £285,705.

Since 1935 advances to mining companies have been made under the joint Commonwealth-State scheme for the development of metalliferous mining. The amount so expended up to 31st December, 1949, amounted to £108,363.

# VICTORIA—STATE EXPENDITURE AND REVENUE CONNECTED WITH MINING, 1944-45 TO 1948-49.

|  | Expenditure from Consolidated Revenue. |         |            |         |         |  |
|--|--|---------|------------|---------|---------|--|
| Item.  |  | Year    | ended 30th | June.   |         |  |
|  | 1945.                                  | 1946.   | 1947.      | 1948    | 1949.   |  |
| Expenditure.   | £                                      | £       | £          | £       | £       |  |
| Mines Department   | 27,539                                 | 30,678  | 38,267     | 43,561  | 50,230  |  |
| State Coal Mine  | 446,479                                | 397,530 | 350,137    | 398,384 | 437,066 |  |
| Boring for gold, coal, oil, &c                             | 13,470                                 | 8,618   | 10,890     | 11,362  | 27,535  |  |
| State Batteries—Expenses of operation and maintenance, &c. | 3,082                                  | 3,288   | 4,229      | 3,991   | 4,814   |  |
| Geological and underground surveys of mines                | 1,078                                  | 1,362   | 2,196      | 1,875   | 1,982   |  |
| Laboratory expenses, &c                                    | 265                                    | 397     | 356        | 714     | 920     |  |
| Contribution towards Lakes<br>Entrance Oil Development     | 9,499                                  | 5,191   | ••         |         |         |  |
| Assistance to Mining Industry                              |  |         |            | • •     | 21,759  |  |
| Miscellaneous  | 2,318                                  | 1,010   | 877        | 1,851   | 2,265   |  |
| Total  | 503,730                                | 448,074 | 406,952    | 461,738 | 546,571 |  |
| REVENUE.   |  |         |            |         |         |  |
| State Coal Mine  | 397,739                                | 344,979 | 283,333    | 300,322 | 350,136 |  |
| All other  | 12,829                                 | 15,632  | 18,150     | 19,555  | 20,055  |  |
| Total  | 410,568                                | 360,611 | 301,483    | 319,877 | 370,191 |  |

Total mineral production of the State from lands occupied under the Mines Act (excluding stone raised in quarries, and salt) for the year 1949 and the aggregate mineral production up to 31st December, 1949, are shown in the subjoined statement:—

#### VICTORIA—MINERAL PRODUCTION.

| Modello and Arts      | 1       |    | During    | 1949.     | Total to<br>31st December, 1949.* |             |  |
|-----------------------|---------|----|-----------|-----------|-----------------------------------|-------------|--|
| Metals and Mir        | ierals. |    | Quantity. | Value.    | Quantity.                         | Value.      |  |
|                       |         |    | fine oz.  | £         | fine oz.                          | £           |  |
| Gold                  |         |    | 68,426    | 839,316   | 73,133,382                        | 328,142,712 |  |
|                       |         |    | ozs.      |           | ozs.                              |             |  |
| Platinum              |         |    |           |           | 311                               | 1,671       |  |
| Silver                |         |    | 12,316    | 3,054     | 1,672,698                         | 255,418     |  |
|                       |         |    | Tons.     |           | Tons.                             |             |  |
| Antimony concentrate  | s (45%  | 6) | 16        | 1,129     | 106,002                           | 638,559     |  |
| Barytes               |         |    |           |           | 69                                | 270         |  |
| Bauxite               |         |    | 4,028     | 5.879     | 34,416                            | 41.224      |  |
| Coal, black           |         |    | 122,507   | 379,464   | 20,671,255                        | 17,781,079  |  |
| Coal, brown           |         |    | 7,375,559 | 1,469,455 | 90,570,368                        | 11,417,118  |  |
| Diatomaceous earth    |         |    | 854       | 4,604     | 20,504                            | 106,895     |  |
| Felspar               |         |    |           |           | 18,740                            | 218,620     |  |
| Fluorspar             |         |    |           |           | 3,557                             | 11,859      |  |
| Gypsum                |         |    | 30,958    | 18,124    | 389,146                           | 215,107     |  |
| Iron ore              |         |    | 1         |           | 5,461                             | 12,552      |  |
| Kaolin and other pot  | tery cl |    | 9,051     | 13,372    | 114,317                           | 171,440     |  |
| Manganese ore         |         |    | .,        |           | 422                               | 2,009       |  |
| Magnesite             |         |    |           |           | 3,296                             | 11,041      |  |
| Molybdenite           |         |    |           |           | 1,005                             | 63,984      |  |
| Phosphatic rock       |         |    |           |           | 15,781                            | 16,704      |  |
| Pigment clays         |         |    |           |           | 4,502                             | 5,623       |  |
| Red oxide ex Jarosite | e       | ٠  |           |           | 109                               | 1,359       |  |
| Silver lead ore       |         |    |           |           | 804                               | 5,992       |  |
| Tale                  |         |    | 70        | 350       | 82                                | 410         |  |
| Tin concentrates (73% | 6)      |    | 49        | 20,109    | 18,693                            | 1,322,008   |  |
| Wolfram               |         |    |           |           | 137                               | 18,965      |  |

<sup>\*</sup> Diamonds valued at £128 and sapphires £630 have been discovered. Note.—The value of gold as shown above is based on the average value of Victorian gold received at the Melbourne Mint.

The quantities of gold produced in Victoria in different periods are shown in the next table:—

## GOLD PRODUCTION IN VICTORIA, 1851 TO 1949.

| Period.   |  |  | Quantity<br>(Gross oz.).   | Pe   | Period. |     |  |
|---|--|--|--|--|---------|-----|--|
| 1851-60<br>1861-70<br>1871-80<br>1881-90<br>1891-1900 |  |  | 23,334,263<br>16,276,566<br>10,156,297<br>7,103,438<br>7,476,038 | 1926-30<br>1931-35<br>1936-40<br>1941-45<br>1946 | ••      |     | 171,927<br>307,370<br>744,727<br>423,653<br>86,993 |
| 1901–10*<br>1911–15<br>1916–20<br>1921–25             |  |  | 7,095,061<br>2,161,349<br>905,561<br>421,250                     | 1947<br>1948<br>1949                             | •••     | • • | 84,709<br>68,580<br>68,426                         |

<sup>\*</sup> Gross oz. 1851-1900; fine oz. from 1901 inclusive.

From 1906 until 1930 the yield of gold continued to decrease, that for 1930 (24,119 fine oz.) being the lowest since 1851. In 1930 both the State and Commonwealth Governments undertook a campaign to encourage prospecting and mining, particularly amongst the unemployed, and this resulted in a gradual increase in the production of gold throughout the State. A steady increase in the world price of gold and the depreciation of the Australian Currency in terms of gold further stimulated the mining industry until 1941 when, owing to man-power restrictions due to the necessities of the war effort, production declined. It reached the low figure of 54,086 fine ounces in 1944, increased slightly in each of the two following years but decreased thereafter to 68,426 fine ounces in 1949. The price of gold in Australia in 1930 was £4 8s. 9d. per fine ounce (export parity calculated from London price). On the 19th September, 1949, consequent on the devaluation of the £ sterling the Australian Mint price which had been £10 15s. 3d. from 1946 inclusive, was increased to £15 9s. 10d. per fine ounce.

The number of men employed in gold mining in Victoria during each of the last five years is shown hereunder.

#### MEN EMPLOYED IN GOLD MINING.

|      | Year | • . |  | Alluvial. | Quartz. | Total. |
|------|------|-----|--|-----------|---------|--------|
|      |      |     |  | No.       | No.     | No.    |
| 1945 |      |     |  | 157       | 486     | 643    |
| 946  |      |     |  | 350       | 932     | 1,282  |
| 947  |      |     |  | 251       | 1,033   | 1,284  |
| 948  |      |     |  | 188       | 876     | 1,064  |
| 1949 |      |     |  | 194       | 825     | 1,019  |

The two main headings under which financial assistance is rendered to mining parties and companies are, (a) grants to small parties which are paid to each member at the rate of £1 per week, and (b) loans to approved mining companies and syndicates.

The yields in fine ounces in the other principal gold-producing States in 1949 were 648,425 in Western Australia, 76,282 in Queensland, and 56,075 in New South Wales.

The total production of the Commonwealth in fine ounces was 1,645,697 in 1939, 657,212 in 1945, 824,480 in 1946, 937,654 in 1947, 890,805 in 1948, and 895,339 in 1949.

The total production of gold in the world in fine ounces (millions) as shown in the United States Mint Report, has been estimated as follows:—1943, 28,900; 1944, 26,400; 1945, 26,100; 1946, 27,500; 1947, 28,900; and 1948, 29,600. Limitations on the dependability of these estimates are noted on page 109 of that Report.

Government batteries, cyanidation, and dredging and sluicing. Particulars relating to the operations of Government batteries, all cyanide works, and of dredging and sluicing plants for the years 1945 to 1949 are as follows:—

# VICTORIA—GOVERNMENT BATTERIES, CYANIDATION, AND DREDGING AND SLUICING, 1945 TO 1949.

|                            | Gov                            | ernment Bat                | teries.  | C                          | yanidation.                                  |  | Dredgir                   | ng and Slu  | icing.                     |
|----------------------------|--------------------------------|----------------------------|--|----------------------------|--|--|---------------------------|---|----------------------------|
| Year.                      | Numt<br>of<br>Batter<br>Operat | of Ore                     | Of<br>Cold                                     | Number<br>of<br>Plants.    | Quantity<br>of<br>Tailings<br>Treated.       | Yield<br>of<br>Gold.                                       | Number<br>of<br>Plants.   | Quantity<br>of<br>Material<br>Treated.                      | Yield<br>of<br>Gold.       |
| 1946 .<br>1947 .<br>1948 . | . 11<br>. 12<br>. 13<br>. 10   | tons.  589 979 826 533 423 | fine<br>oz.<br>515<br>740<br>763<br>185<br>157 | 22<br>40<br>39<br>30<br>24 | tons. 47,197 262,810 268,893 376,143 359,577 | fine<br>oz.<br>2,442<br>8,694<br>9,977<br>10,746<br>10,312 | 7<br>15<br>17<br>15<br>16 | cub. yds. 3,290,050 4,530,956 6,913,500 4,818,000 4,019,670 | 14,129<br>14,746<br>13,057 |

The first Government battery was erected in 1897. Since that date Government batteries have crushed 248,272 tons of ore for 136,728 oz. of gold.

Up to the end of 1949, tailings aggregating 26,266,114 tons had been treated by the cyanide and other processes, and 1,632,965 oz. of gold had been won therefrom.

Since the inception of mechanical dredge and sluice mining 2,184,716 oz. of gold have been won by these systems.

Mining district gold yields. The yield of gold (given in gross ounces) for 1948 and 1949 in each mining district of the State, is shown in the following table:—

# VICTORIA—DISTRICT YIELDS OF GOLD (ALLUVIAL AND QUARTZ) 1948 AND 1949.

|                    | Mining District |           |         |                |           | 1949.   |                |  |  |
|--------------------|-----------------|-----------|---------|----------------|-----------|---------|----------------|--|--|
| Mining District.   |                 | Alluvial. | Quartz. | Total.         | Alluvial. | Quartz. | Total.         |  |  |
|                    |                 | oz.       | oz.     | oz.<br>(gross) | oz.       | oz.     | oz.<br>(gross) |  |  |
| Ararat and Stawell |                 | 9         | 82      | 91             | 21        | 95      | 116            |  |  |
| Ballarat           |                 | 143       | 642     | 785            | 197       | 1,343   | 1,540          |  |  |
| Beechworth         |                 | 12,557    | 32,754  | 45,311         | 16,269    | 31,234  | 47,503         |  |  |
| Bendigo            |                 | 262       | 15,596  | 15,858         | 364       | 15,148  | 15,512         |  |  |
| Castlemaine        |                 | 872       | 9,975   | 10,847         | 707       | 10,534  | 11,241         |  |  |
| Gippsland          |                 | 276       | 3,181   | 3,457          | 304       | 2,683   | 2,987          |  |  |
| Maryborough        |                 | 65        | 3,168   | 3,233          | 183       | 3,053   | 3,236          |  |  |
| Total              |                 | 14,184    | 65,398  | 79,582         | 18,045    | 64,090  | 82,135         |  |  |

Bituminous coal was mined during 1949 at Jumbunna, Kilcunda, Korumburra, Outtrim, and Wonthaggi, and brown coal at Bacchus Marsh, Thorpdale, Yan Yan Gurt (near Winchelsea), Yallourn and Yallourn North. The coal resources of Victoria have been described in detail in previous issues of the Year-Book.

Production of The production and value of black and brown coal black coal, respectively, and the production of briquettes are shown and briquettes. hereunder for specified periods:—

### VICTORIA.—COAL PRODUCTION AND VALUE.

|         |   | Black                 | Coal.   |                       | Brown Coal. |                                     |
|---------|---|-----------------------|---------|-----------------------|-------------|-------------------------------------|
| Period. |   | Annual<br>Production. | Value.  | Annual<br>Production. | Value.      | Briquettes-<br>Annual<br>Production |
|         |   | tons.                 | £       | tons.                 | £           | tons.                               |
| 921-25  |   | 520,705*              | 591,703 | 258,094*              | 61,558      | 77,945                              |
| 926-30  |   | 668,177*              | 892,734 | 1,515,592*            | 192,612     | 135,185                             |
| 931-35  |   | 472,030*              | 444,003 | 2,445,215*            | 256,261     | 311,020                             |
| 936     |   | 426,725               | 390,743 | 3,044,897             | 323,914     | 355,088                             |
| 937     |   | 257,945               | 254,126 | 3,393,919             | 325,950     | 390,493                             |
| 938     | ' | 307,258               | 286,679 | 3,675,450             | 351,721     | 414,059                             |
| 939     |   | 364,895               | 259,814 | 3,651,014             | 385,952     | 414,598                             |
| 940     |   | 267,694               | 230,452 | 4,278,475             | 391,549     | 427,530                             |
| 941     |   | 326,441               | 303,761 | 4,565,638             | 422,993     | 419,104                             |
| 942     |   | 312,854               | 411,107 | 4.933,861             | 469,699     | 416,928                             |
| 943     |   | 287,100               | 429,358 | 5,091,729             | 528,666     | 411,355                             |
| 944     |   | 257,692               | 407,793 | 5,016,437             | 566,444     | 428,844                             |
| 945     |   | 247,297               | 494.690 | 5,445,108             | 641,069     | 455,076                             |
| 946     |   | 191,290               | 397,662 | 5,707,039             | 706,504     | 504,275                             |
| 947     |   | 173,683               | 299,784 | 6,140,140             | 937,429     | 513,891                             |
| 948     |   | 167,540               | 347,687 | 6,692,291             | 1,187,715   | 542,189                             |
| 949     |   | 122,507               | 379,464 | 7,375,559             | 1,469,455   | 576,603                             |

<sup>\*</sup> Average annual production. † 1,392 tons in 1924, 76,553 tons in 1925.

The number of men employed in coal mining during the last five years was as follows:—

## MEN EMPLOYED IN COAL MINING.

|      | Year. |  |   | Black Coal, | Brown Coal. | Total. |  |
|------|-------|--|---|-------------|-------------|--------|--|
|      |       |  |   | No.         | No.         | No.    |  |
| 1945 |       |  |   | 1,016       | 584         | 1,600  |  |
| 1946 |       |  |   | 924         | 655         | 1,579  |  |
| 1947 |       |  |   | 860         | 594         | 1,454  |  |
| 1948 |       |  |   | 824         | 626         | 1,450  |  |
| 1949 |       |  | ] | 787         | 811         | 1,598  |  |

The quantities of coal which were produced in the other States during the last five years were as follows:—

## COAL PRODUCTION-IN STATES OTHER THAN VICTORIA.

|      | Year. | New South<br>Wales. | Queensland. | South<br>Australia, | Western<br>Australia. | Tasmania. |
|------|-------|---------------------|-------------|---------------------|-----------------------|-----------|
|      |       | <br>tons.           | tons.       | tons.               | tons.                 | tons.     |
| 1945 |       | <br>10,176,254      | 1,637,467   | 41,383*             | 546,692               | 146,185   |
| 1946 |       | <br>11,216,535      | 1.567,520   | 135,460*            | 642,287               | 158,751   |
| 1947 |       | <br>11,708,414      | 1,883,414   | 193,351*            | 730,506               | 167,140   |
| 1948 |       | <br>11 721,446      | 1.742,396   | 239,464*            | 732,938               | 179,393   |
| 1949 |       | <br>10,736,098      | 1.962,097   | 337,233             | 751,795               | 177,631   |

<sup>\*</sup> Sub-bituminous.

According to returns supplied to the Mines Department by the various Mining Companies, the amount of tin concentrates obtained in Victoria up to 31st December, 1949, was 18,693 tons, valued at £1,322,008. A large proportion of this yield was obtained as an incidental return from gold-mining operations.

The principal tin-bearing districts are in the north-east portion of the State, including Eldorado, Chiltern, Beechworth, Omeo, Granya, Mitta Mitta, Mount Wills, and Rutherglen. Tin is also found at Foster and Toora in South Gippsland; other known tin-bearing districts include Bunyip, Wilson's Promontory, and Gembrook.

Mining Accidents. The numbers of fatal and of non-fatal accidents which occurred in gold and coal mines and quarries during the past five years are shown in the following table. Only those non-fatal accidents have been recorded which rendered the injured unfit for work for a period of at least fourteen days.

VICTORIA-MINING ACCIDENTS, 1945 TO 1949.

|      |       | Gold Mines. |                     | Coal Mines.           |                     | Quarries.             |                     |                       |
|------|-------|-------------|---------------------|-----------------------|---------------------|-----------------------|---------------------|-----------------------|
|      | Year. |             | Fatal<br>Accidents. | Serious<br>Accidents. | Fatal<br>Accidents. | Serious<br>Accidents. | Fatal<br>Accidents. | Serious<br>Accidents, |
|      |       |             | No.                 | No.                   | No.                 | No.                   | No.                 | No.                   |
| 1945 |       |             |                     | 2                     | 3                   | 4                     |                     | 1                     |
| 1946 |       |             |                     | 7                     | 1                   | 7                     | 1                   | 8                     |
| 1947 |       |             | 2                   | 9                     |                     | 11                    | 4                   | 15                    |
| 1948 |       |             | 2                   | 3                     |                     | 8                     | 1                   | 11                    |
| 1949 |       |             | 3                   | 3                     |                     | 4                     | 7                   | 9                     |

Quarries. The recorded quantities and values of the principal kinds of stone raised in Victoria during the past five years are as set forth in the following table:—

## VICTORIA—QUARRIES AND STONE-CRUSHING PLANTS, 1944-45 TO 1948-49.

| Year ended 30th |          |                       | Mair             | Approximate<br>Value |          |            |                     |
|-----------------|----------|-----------------------|------------------|----------------------|----------|------------|---------------------|
|                 | ded 30th | Number of<br>Returns. | Bluestone.       | Sand-<br>stone.      | Granite. | Limestone. | of Stone<br>Raised. |
|                 |          |                       | cub. yds.        | cub. yds.            | tons.    | tons.      | £                   |
| 1945            | ••       | 93                    | 554,978          | 9,867                | 31,290   | 317,469    | 454,849             |
| 1946            | ••       | 100                   | 652 <b>,6</b> 96 | 7,832                | 39,200   | 327,840    | 549,318             |
| 1947            | ••       | 113                   | 967,899          | 15,332               | 66,674   | 395,130    | 759,465             |
| 1948            | ••       | 102                   | 1,055,176        | 31,953               | 78,109   | 395,615    | 911,224             |
| 1949            |          | 108                   | 1,097,702        | 47,008               | 60,076   | 458,828    | 1,163,827           |

<sup>\*</sup> Wholesale selling value of stone at the works, exclusive of delivery charges.

In former years the recorded production of stone was confined to that of registered quarries, i.e., those quarries with a fixed plant in regular and permanent production. In recent years, however, an endeavour has been made to record the production by contractors who require material from a source as adjacent as possible to the work for which they are suppliers and who open up quarries for this purpose or exploit stone outcrops, mine tailings, &c.

Much of the sand and gravel used in road, railway, and general building is obtained from sources other than regular sand and gravel pits; limestone rubble extensively used on roads in the north-western portion of the State is usually obtained from adjacent outcrops. It has been found impracticable to obtain quantities and values of all such materials.

The Municipalities, Country Roads Board, and Railways Department have furnished returns from which the following table has been compiled. Information has not been collected for years later than those shown below.

VICTORIA—QUANTITY OF STONE, ETC., USED FOR ROAD MAKING, REPAIR, AND MAINTENANCE.

| Materia       | ıl.     | Munici               | palities. | Rail                | ways.     | Country Roads<br>Board. |           |
|---------------|---------|----------------------|-----------|---------------------|-----------|-------------------------|-----------|
|               |         | 1945-46.             | 1946-47.  | 1945–46.            | 1946-47.  | 1945-46.                | 1946–47.  |
| Bluestone, &c | basalt, | cub. yds.<br>264,969 | cub. yds. | cub. yds.<br>82,941 | cub. yds. | cub. yds. 52,804        | cub. yds. |
| Salamander    |         | 8,574                | 7,923     | ٠                   |           |                         | 500       |
| Scoria        |         | <b>57,</b> 229       | 65,711    |                     |           | 3,296                   | 9,190     |
| Sandstone     |         | 32,639               | 46,005    | ••,                 |           | 48,560                  | 210,100   |
| Limestone     |         | 243,526*             | 321,138*  | • •                 |           | 44,373                  | 46,117    |
| Quartzite-Qu  | artz    | 30,610               | 30,830    |                     |           | 17,585                  | 35,440    |
| Toscanite     |         |                      | 5,000     | * *                 |           |                         |           |
| Ironstone     |         | 22,656               | 49,420    |                     |           | •••                     |           |
| Shale         |         | 3,555                | 9,660     |                     |           | 1,000                   | 500       |
| Schist        |         | 6,186                | 1,648     |                     |           | • •                     |           |
| Granite       |         | 28,236               | 32,304    | 3,511               | 3,960     | 300                     | 370       |
| Other stone   |         | 26,470               | 10,718    |                     |           | • •                     |           |
| Gravel        |         | 583,803              | 855,750   | 22,149              | 24,321    | 49,801                  | 178,140   |
| Sand          |         | 155,688              | 235,503   |                     | • •       | 49,998                  | 124,822   |
| Tota          | d       | 1,464,141            | 2,076,293 | 108,601             | 142,651   | 267,717                 | 753,227   |

<sup>\*</sup> Includes limestone rubble, 146,580 cub. yds. in 1945-46, and 173,963 cub. yds. in 1946-47.

#### THE SEARCH FOR OIL IN VICTORIA.

The history of the search for oil in Victoria is recorded in the Year-Book 1937-38, page 504.

Exploratory work in connexion with the development of oil deposits at Lakes Entrance was carried on by private enterprise during 1949. Oil yield from tests carried out during the year amounted to 34,410 gallons. The aggregate yield of such oil to the 31st December, 1949, was 179,693 gallons.

#### FACTORIES IN VICTORIA.

Industrial Progress.

Statistical records of factories in Victoria date from 1850, when the number of factories was 68. In 1900 the total had reached 3,097 and 64,207 persons were employed therein. Fairly regular progress, concurrent with increase in population and consequent extension of the home market, was maintained until 1928–29 when the onset of the world depression caused a severe check to the manufacturing industries of the State. Statistics for the years 1927–28 to 1931–32 demonstrate clearly the effect of gradually declining prices and restricted activity.

Thereafter, however, an upward trend obtained until 1938-39 when due to a drop in export prices and also to a severe drought in Victoria, manufacturing industries were adversely affected and there was a consequent decline in employment.

The exigencies of the world war which commenced in September, 1939, made unprecedented demands on the industrial capacity of the State both in regard to the equipment of the armed forces and the provision of civilian needs.

In order to ensure that the resources of the State would be used to the best possible advantage in the national interest the Commonwealth Government established controls in 1941. As a result of the controls thus exercised the activities of "luxury" industries were drastically curtailed, while outstanding expansion took place in those industries deemed vital to the war effort.

The end of the war in August, 1945, brought about a relaxing of war-time controls and the commencement of the rehabilitation of men and women of the fighting forces into civil activities. This transposition did not have a marked effect on factory production as a whole during 1945–46, for the decline which took place in the industries which had been closely associated with the war effort was counterbalanced by an expansion in those whose activities had been drastically curtailed as a result of the implementation of the war economy. After the immediate effects of the war had passed there was notable expansion

in industrial activity and in each succeeding year record figures, were established in secondary production. This was attributable in some degree to the influence of the increasing trend in price levels which became more pronounced in the years 1947–48 and 1948–49. Comparison of the results of the last-mentioned two years shows that, in 1947–48 as compared with 1948–49, the number of factories rose from 11,642 to 12,702, the average number of employees increased from 278,271 to 292,006, and the net value of production increased from £158,501,020 to £182,760,376.

Victoria has a comparatively compact territory producing a variety of raw materials, a temperate climate, an intelligent labour supply, large power resources, a growing home market, an extensive system of State-owned railways served by constantly improving feeder roads, and an effective network of highways and main roads. It is reasonable to assume therefore that with the advantages possessed by this State as a manufacturing field, and with continued organization both of production and of markets therefor, progress should be maintained. The Commonwealth Government's policy of protection, by tariffs, for local industries has no doubt been of assistance in attracting capital for investment in manufacturing industries in this State.

In the table below particulars indicating the development of the manufacturing industries of Victoria during the twenty-year period 1929-30 to 1948-49 are given.

VICTORIA—GROWTH IN FACTORY PRODUCTION.

|              | Year ended<br>30th June— |                |                      |                         | Tear ended of Of Persons Mach<br>Factories. Employed. Land |                          | Value of<br>Plant,<br>Machinery,<br>Land, and<br>Buildings. | Amount<br>of Salaries<br>and Wages<br>Paid. | Value of<br>Materials<br>used<br>(including<br>Containers). | Value<br>of<br>Output. |
|--------------|--------------------------|----------------|----------------------|-------------------------|--|--------------------------|---|---|---|------------------------|
|              |                          |                |                      | £                       | £  | £                        | £   |   |   |                        |
| 1930         |                          | 8,195          | 151,009              | 72,011,020              | 30,517,535   | 66,770,302               | 122,811,099   |   |   |                        |
| 1931         |                          | 8,199          | 126,016              | 70,990,071              | 23,279,689   | 50,380,110               | 93,425,795  |   |   |                        |
| 1932         | • •                      | 8,204          | 128,265              | 68,350,575              | 21,258,599   | 51,727,685               | 93,388,617  |   |   |                        |
| 1933         | • •                      | 8,612          | 144,428              | 67,827,428              | 23,096,512   | 56,757,681               | 102,085,429   |   |   |                        |
| 1934         | ٠.                       | 8,896          | 156,334              | 68,834,279              | 24,819,143   | 59,776,270               | 108,496,310   |   |   |                        |
| 1935<br>1936 | • •                      | 9,100<br>9,160 | $169,691 \\ 183,390$ | 70,591,677 $71,872,906$ | 27,318,815<br>30,593,707                                   | 63,387,061<br>74,568,265 | 117,182,857<br>134,043,170                                  |   |   |                        |
| 1937         |                          | 9,165          | 191,383              | 75,161,894              | 33,192,904   | 78,233,032               | 142,692,192   |   |   |                        |
| 1938         | ٠.                       | 9,241          | 201,789              | 77,207,830              | 37,228,543   | 85,926,478               | 157,050,725   |   |   |                        |
| 1939         | ٠.                       | 9,250          | 201,783              | 80,596,625              | 38,305,885   | 80,721,680               | 152,967,611   |   |   |                        |
| 1940         |                          | 9,215          | 212,461              | 84,553,699              | 41,920,726   | 93,390,751               | 174,304,401   |   |   |                        |
| 1941         |                          | 9,121          | 237,636              | 92,050,326              | 52,294,673   | 112,024,332              | 209,348,845   |   |   |                        |
| 1942         |                          | 8,918          | 258,400              | 98,157,370              | 67,158,613   | 136,058,136              | 257,281,080   |   |   |                        |
| 1943         |                          | 8,738          | 262,357              | 104,605,310             | 76,033,111   | 144,778,354              | 277,678,940   |   |   |                        |
| 1944         |                          | 9,317          | 261,299              | 110,520,701             | 77,400,688   | 149,189,244              | 284,647,914   |   |   |                        |
| 1945         |                          | 9,669          | 257,633              | 116,379,925             | 74,227,245   | 152,761,198              | 287,422,311   |   |   |                        |
| 1946         |                          | 10,195         | 256,249              | 118,802,347             | 70,499,214   | 154,224,950              | 286,989,408   |   |   |                        |
| 1947         |                          | 10,949         | 265,757              | 121,877,270             | 77,993,765   | 170,223,745              | 315,437,679   |   |   |                        |
| 1948         |                          | 11,642         | 278,271              | 132,058,592             | 93,802,188   | 203,121,836              | 377,412,025   |   |   |                        |
| 1949         |                          | 12,702         | 292,006              | 149,463,382             | 112,410,440  | 244,486,168              | 446,837,879   |   |   |                        |

Note:—Particulars of the amounts taken by working proprietors as drawings have not been collected since 1945-46 (inclusive).

The first Factories Act in Victoria was passed in 1873 and since that year many other Acts dealing with the subject have been placed upon the statute-book. The Factories and Shops Act 1928 consolidated all Acts passed prior to that date. The general provisions of factory legislation, including Wages Boards, are further referred to in Part X., "Social Condition," of this Year-Book.

Statistics Act 1928. Statistics relating to the factories of Victoria are collected by the Government Statist in accordance with the provisions of the Statistics Act 1928. In the year 1902, Australian statisticians adopted a uniform classification of industries for statistical purposes in all States. A factory is taken to be an industrial establishment in which four or more hands are employed or in which power other than hand is used. In 1930, a new classification, based upon that used in Great Britain for census purposes, was adopted and still obtains. The definition of a factory remains unchanged.

Added Value. In estimating the relative importance of various industries, or the value of manufacturing industry as a whole, the method used is to calculate the value added in the process of manufacture. This "added value" is arrived at in the following way:—From the value of output of each industry are deducted the most important items of manufacturing expense such as costs of raw materials, containers, fuel and light, repairs to plant and machinery, and replacement of tools, the difference being the value added to raw materials in the process of manufacture, and representing the fund available for the payment of wages, taxation, rent, interest, insurance, &c., and profit.

It is considered that, owing to the duplication of materials used, the finished product of one process of manufacture forming, as it often does, the raw material for another, an inaccurate impression would be obtained by using the total value of output of manufacturing industries in year to year comparisons. Woollen manufactures might be cited as an example. Greasy wool forms the raw material for the wool-scouring industry, the product of which is scoured wool. This is afterwards combed into wool tops which are used in the spinning mills for the manufacture of yarn. In due course the yarn is woven into cloth, the raw material for the clothing industry. If these processes are carried out separately in different factories it is evident that the value of the wool would be counted five times by using value of output as the basis for annual comparisons of manufacturing production.

The concept of "Added value" prevents this double counting, gives a truer picture of the relative economic importance of industries, and also provides a good basis for estimating and comparing productive efficiency in manufacturing.

The subjoined table shows the value added per person employed in each class of manufacturing industry for the year ended 30th June, 1949.

VICTORIA—VALUE ADDED BY PROCESS OF MANUFACTURE, 1948–49.

| Class of Industry.  | Average<br>Number of<br>Persons<br>Employed. | Value Added. | Value<br>Added<br>per Person<br>Employed. |
|---|--|--------------|---|
|   |  | £            | £   |
| 1. Treatment of non-metalliferous mine and quarry products  | 4,658  | 3,593,900    | 772                                       |
| 2. Bricks, pottery, glass, &c                               | 4,351  | 2,405,317    | 553                                       |
| 3. Chemicals, dyes, explosives, paint, oils, and grease     | 11,180                                       | 11,131,912   | 996                                       |
| 4. Industrial metals, machines, implements, and conveyances | 94,187                                       | 57,075,328   | 606                                       |
| 5. Precious metals, jewellery, and plate                    | 3,361  | 1,820,630    | 542                                       |
| 6. Textiles and textile goods (not dress)                   | 34,137                                       | 19,019,107   | 557                                       |
| 7. Skins and leather (not clothing or footwear)             | 5,643  | 3,828,056    | 678                                       |
| 8. Clothing   | 47,335                                       | 22,809,099   | 482                                       |
| 9. Food, drink, and tobacco                                 | 36,605                                       | 26,257,355   | 717                                       |
| 10. Woodworking and basketware                              | 12,956                                       | 7,917,606    | 611                                       |
| 11. Furniture, bedding, &c                                  | 5,573  | 3,217,764    | 577                                       |
| 12. Paper, stationery, printing, bookbinding, &c            | 16,450                                       | 11,932,570   | 725                                       |
| 13. Rubber  | 4,490  | 3,534,058    | 787                                       |
| 14. Musical instruments                                     | 186  | 95,734       | 515                                       |
| 15. Miscellaneous products                                  | 7,468  | 4,374,849    | 586                                       |
| 16. Heat, light, and power                                  | 3,426  | 3,747,091    | 1,094                                     |
| Total   | 292,006                                      | 182,760,376  | 626*                                      |

<sup>\*</sup> Average for whole State.

As added value is based on value of output, the added value per employee is affected not only by output per employee, but also by the price obtained, and should, therefore, in a comparison of the results of different years, be corrected to allow for variations in price levels. Other important factors are the quantity and the efficiency of the machinery used in the process of manufacture.

The table hereunder summarizes the total value added by the process of manufacturing in each of the past ten years.

### VICTORIA—VALUE ADDED BY PROCESS OF MANUFACTURE.

| Year ended<br>30th June— |  | Value of<br>Output. |             |             | Average<br>Number of<br>Persons<br>Employed. | Value<br>Added per<br>Person<br>Employed. |
|--------------------------|--|---------------------|-------------|-------------|--|---|
| 1.                       |  | 2.                  | 3.          | 4.          | 5.   | 6.  |
|                          |  | £                   | £           | £           |  | £   |
| 1940                     |  | 174,304,401         | 100,273,914 | 74,030,487  | 212,461                                      | 348                                       |
| 1941                     |  | 209,348,845         | 120,348,134 | 89,000,711  | 237,636                                      | 375                                       |
| 1942                     |  | 257,281,080         | 146,343,466 | 110,937,614 | 258,400                                      | 429                                       |
| 1943                     |  | 277,678,940         | 156,299,193 | 121,379,747 | 262,357                                      | 463                                       |
| 1944                     |  | 284,647,914         | 161,317,396 | 123,330,518 | 261,299                                      | 472                                       |
| 1945                     |  | 287,422,311         | 165,045,004 | 122,377,307 | 257,633                                      | 475                                       |
| 1946                     |  | 286,989,408         | 166,738,921 | 120,250,487 | 256,249                                      | 469                                       |
| 1947                     |  | 315,437,679         | 183,941,529 | 131,496,150 | 265,757                                      | 495                                       |
| 1948                     |  | 377,412,025         | 218,911,005 | 158,501,020 | 278,271                                      | 569                                       |
| 1949                     |  | 446,837,879         | 264,077,503 | 182,760,376 | 292,006                                      | 626                                       |

<sup>\* &</sup>quot;Expenses of manufacturing" includes the following costs only:—Raw materials, containers, fuel and light, tools replaced, repairs to plant and machinery, lubricating oil, and water

Froduction of The classification of industries, as adopted in 1930, different in set out in the next table. The data shown were 1948-1949. compiled from returns rendered compulsorily by all factory proprietors in Victoria. It should, however, be noted that, where a factory, engaged in the production of such goods as would entitle it to classification in more than one sub-class of industry, is unable to give separate production costs, &c., in respect thereof, it is classified according to the predominant product of such factory.

NOTE.—Column 3 deducted from column 2 gives column 4, which when divided by column 5 gives column 6.

# VICTORIAN FACTORIES—POWER, WORKERS, MANUFAC

|  | ·          |                          |                     |                  |  |  |
|--|------------|--------------------------|---------------------|------------------|--|--|
| Nature of Industry.  | Factories. | Rated<br>Horse-<br>power |                     | Number<br>loyed. | Salaries<br>and<br>Wages                             |  |
|  |            | of<br>Engines.           | Males.              | Females.         | Paid.  |  |
| Annual Managed 1999  | No.        | H.P.                     | No.                 | No.              | £  |  |
| Class 1.—Non-metalliferous Mine and<br>Quarry Products                   | 338        | 42.070                   | 4 470               | 170              | 4 000 000  |  |
| Briquetting  | 330        | <b>43,272</b>   24,360   | <b>4,479</b><br>398 | 1 <b>79</b>      | 1,923,600<br>237,865                                 |  |
| Lime, Plaster, and Asphalt   | 24         | 2,538                    | 318                 | 14               | 142,497  |  |
| Fibrous Plaster and Products   | 122        | 1,000                    | 1,238               | 45               | 483,386  |  |
| Marble, Slate, &c  | 51         | $2,000 \\ 11,734$        | 388                 | 10               | 149,606  |  |
| Cement and cement goods, &c Other  | 119<br>21  | $11,734 \\ 1,640$        | $^{1,877}_{260}$    | 41<br>63         | 774,535  |  |
|  | 1          | · '                      | 400                 |                  | 135,711  |  |
| Class 2.—Bricks, Pottery, Glass, &c.                                     | 130        | 21,730                   | 3,953               | 398              | 1,780,162  |  |
| Bricks, tiles, and firebricks<br>Earthenware, china, and porcelain       | 57         | 13,659                   | 1,839               | 39               | 817,426  |  |
| Other (including Glass and Glass   | 39         | 3,078                    | 1,108               | 258              | 529,366  |  |
| Bottles)   | 34         | 4,993                    | 1,006               | 101              | 433,370  |  |
| Class 3.—Chemicals, Dyes, Ex-  | 1          |                          |                     |                  |  |  |
| plosives, Paint, Oils, and Grease<br>Industrial and heavy chemicals, and | 296        | 65,763                   | 8,733               | 2,447            | 4,804,875  |  |
| Pharmaceutical and toilet prepara-                                       | 55         | 11,942                   | 1,497               | 196              | 830,576  |  |
| tions  | 50         | 2,675                    | 700                 | 849              | 521,868  |  |
| Explosives (including fireworks)   | 9          | 24,371                   | 2,164               | 420              | 1,123,946  |  |
| White lead, paints, and varnish Oils, vegetable (including oilcake)      | 52<br>4    | 3,089<br>619             | $\frac{709}{74}$    | 212              | 372,609  |  |
| Oils, mineral  | 18         | 1,580                    | 387                 | 32               | 42,712<br>167,683                                    |  |
| Oils, animal   | 6          | 1,516                    | 154                 | 17               | 88,469   |  |
| Boiling down, tallow refining  | 27         | 3,187                    | 481                 | 4                | 231,460  |  |
| Soap and candles   | 17         | 2,313                    | 604                 | 179              | 332,264  |  |
| Chemical fertilizers Inks and polishes                                   | 9          | 11,346                   | 1,198               | 39               | 623,557  |  |
| Other  | 41 8       | $\frac{1,396}{1,729}$    | 335<br>430          | 225<br>270       | 204,044<br>265,687                                   |  |
| Class 4.—Industrial Metals,  |            | ,                        |                     |                  |  |  |
| Machines, Implements, and  |            |                          |                     |                  | }  |  |
| Conveyances Smelting, converting, refining of                            | 3,748      | 233,752                  | 84,910              | 9,277            | 39,848,562   |  |
| iron and steel   | 12         | 7,901                    | 1,005               | 36               | 565,158  |  |
| Foundries (ferrous) Plant equipment and machinery                        | 228        | 7,167                    | 2,573               | 109              | 1,149,434  |  |
| Other engineering  | 439<br>446 | $47,057 \\ 16,022$       | $13,984 \\ 5,913$   | 1,232<br>364     | 6,659,035  |  |
| Extracting and refining of other   | 110        | 10,022                   | 5,515               | 304              | 2,634,300  |  |
| metals: Alloys   | 17         | 336                      | 158                 | 24               | 88,537   |  |
| Electrical machinery, cables and apparatus                               | 249        | 10,475                   | 5,919               | 1,382            | 2,890,982  |  |
| Tramcars and rolling stock (Government)                                  |            |                          |                     |                  | ' '  |  |
| Motor vehicles—  | 25         | 15,567                   | 6,742               | 21               | 2,945,949  |  |
| Construction and assembly  | 17         | 10,233                   | 4,596               | 515              | 2,647,737  |  |
| Repairs  | 1,224      | 7.685                    | 8,382               | 613              | 3,068,014  |  |
| Motor bodies   | 139        | 9,734                    | 4,639               | 261              | 2,097,339  |  |
| Horse-drawn vehicles Motor accessories                                   | 37         | 195                      | 151                 | 4                | 45,612   |  |
| Aircraft   | 52<br>15   | 6,008<br>5,976           | $^{2,069}_{5,211}$  | 774<br>462       | 1,186,288<br>2,439,384                               |  |
| Cycles (foot and hand driven), and                                       |            | 0,570                    | 5,211               | 402              | 2,400,004  |  |
| Ship and boat building—  | 33         | 686                      | 393                 | 88               | 170,463  |  |
| Government   | 4          | 4,937                    | 1,190               | 55               | 566,240  |  |
| Municipal and other Cutlery and small hand tools                         | 25<br>43   | 1,760<br>7,965           | $^{911}_{1,395}$    | 8<br>254         | 449,983<br>692,397                                   |  |
| Agricultural machines and implements  Non-ferrous metals—rolling and     | 67         | 15,652                   | 4,637               | 266              | 2,298,367  |  |
| extrusion  | 4          | 3,018                    | 291                 | 23               | 167,185  |  |
| Founding, casting, &c  | 146        | 4,822                    | 2,411               | 244              | 1,085,112  |  |
| stamping Pipes, tubes, fittings—ferrous                                  | 249        | $11,137 \\ 2,180$        | $^{4,991}_{204}$    | 1,364<br>6       | $\begin{array}{c c} 2,558,405 \\ 97,028 \end{array}$ |  |

# TURING COSTS AND VALUE OF PRODUCTION, 1948-49.

| Fuel and<br>Light<br>Used. | Lubricat-<br>ing Oil<br>and<br>Water. | Repairs<br>to Plant,<br>&c.                       | Materials<br>Used,<br>Including<br>Containers. | Articles<br>Produced<br>or Work<br>Done. | Value<br>Added.        | Land<br>and<br>Buildings. | Plant<br>and<br>Machinery. |
|----------------------------|---------------------------------------|---|--|--|------------------------|---------------------------|----------------------------|
| £                          | £                                     | £   | £  | £  | £                      | £                         | £                          |
| 498,600                    | 28,956                                | 236,422   | 3,107,468                                      | 7,465,346                                | 3,593,900              | 1,349,941                 | 1,863,102                  |
| 106,964                    | 13,224                                | 32,407  | 213,542  | 745,811                                  | 379,674                | 278,591                   | 693,657                    |
| 46,964                     | 2,574                                 | 22,047  | 602,862  | 1,042,150                                | 367,703                | 90,898                    | 78,811                     |
| 9,534                      | 2,117                                 | 15,837  | 742,286  | 1,590,862                                | 821,088                | 251,480                   | 117,889                    |
| $5,789 \\ 313,229$         | 1,238<br>8,987                        | 8,996<br>138,898                                  | 121,423 $1,206,754$                            | 389,411<br>3,193,817                     | 251,965<br>1,525,949   | 61,081<br>604,474         | 46,146<br>885,830          |
| 16,120                     | 816                                   | 18,237  | 220,601  | 503,295                                  | 247,521                | 63,417                    | 40,769                     |
| 654,420                    | 30,278                                | 485,399   | 1,049,471                                      | 4,624,885                                | 2,405,317              | 930,785                   | 991,032                    |
| 264,827                    | 15,280                                | 89,667  | 136,905  | 1,613,687                                | 1,107,008              | 352,377                   | 450,726                    |
| 103,003                    | 3,007                                 | 39,141  | 194,843  | 1,109,292                                | 769,298                | 232,526                   | 194,150                    |
| 286,590                    | 11,991                                | 356,591   | 717,723  | 1,901,906                                | 529,011                | 345,882                   | 346,156                    |
| 697,272                    | 63,847                                | 536,620   | 18,430,066                                     | 30,859,717                               | 11,131,912             | 5,896,837                 | 6,217,963                  |
| 157,820                    | 15,540                                | 122,246   | 1,981,747                                      | 4,133,539                                | 1,856,186              | 641,285                   | 844,544                    |
| 19,056                     | 3,611                                 | 36,817  | 1,979,324                                      | 3,779,622                                | 1,740,814              | 472,189                   | 330,880                    |
| 99,630                     | 12,799                                | 60,622  | 1,434,850                                      | 3,131,776                                | 1,523,875              | 3,032,736                 | 2,927,339                  |
| 18,849                     | 1,704                                 | 37,618  | 2,094,232                                      | 3,269,537                                | 1,117,134              | 343,399                   | 211,401                    |
| $\frac{6,157}{37,758}$     | 380<br>3,020                          | $6,136 \\ 21,498$                                 | 787,584<br>1,919,276                           | 926,142 $3,064,968$                      | 125,885                | 32,529 $134,744$          | 23,816<br>150,882          |
| 29,735                     | 4,742                                 | 13,814  | 216,573  | 405,308                                  | 140,444                | 96,387                    | 81,126                     |
| 81,567                     | 3,406                                 | 37,431  | 453,985  | 959,740                                  | 383,351                | 145,769                   | 151,355                    |
| 135,752                    | 4,499                                 | 66,866  | 1,497,649                                      | 2,666,115                                | 961,349                | 181,224                   | 233,773                    |
| $85,838 \\ 9,105$          | 11,334<br>982                         | 118,291<br>11,039                                 | 4,252,604<br>890,978                           | 5,698,319<br>1,467,979                   | 1,230,252<br>555,875   | $508,284 \\ 172,602$      | 1,040,516 93,965           |
| 16,005                     | 1,830                                 | 4,242   | 921,264  | 1,356,672                                | 413,331                | 135,689                   | 128,366                    |
| 1,538,372                  | 157,032                               | 2,197,425   | 46,662,121                                     | 107,630,278                              | 57,075,328             | 22,175,677                | 19,769,274                 |
| 04.557                     | 9.770                                 | 60.061  | 100 001  | 1,464,831                                | 832,691                | 301,241                   | 397,204                    |
| $94,577 \\ 109,606$        | 3,778<br>5,161                        | $\begin{array}{c} 69,961 \\ 62,817 \end{array}$   | 463,824<br>1,001,513                           | 2,791,064                                | 1,611,967              | 565.956                   | 44_,728                    |
| 249,341                    | 31,705                                | 398,821   | 8,863,019                                      | 20,136,279                               | 10,593,393             | 3,195,605                 | 3,148,149                  |
| 68,839                     | 9,561                                 | 102,060   | 2,201,280                                      | 6,445,453                                | 4,063,713              | 1,435,861                 | 1,275,940                  |
| 14,682                     | 271                                   | 7,631   | 941,384  | 1,158,844                                | 194,876                | 66,670                    | 25,804                     |
| 74,833                     | 6,684                                 | 123,849   | 4,185,802                                      | 8,541,762                                | 4,150,594              | 1,361,439                 | 993,356                    |
| 80,443                     | 2,875                                 | 204,657   | 2,002,710                                      | 6,020,057                                | 3,729,372              | 1,413,973                 | 427,296                    |
| 75,179                     | 13,274                                | 148,156   | 581,884  | 3,139,352                                | 2,320,859              | 942,974                   | 1,339,589                  |
| 78,131                     | 15,075                                | $\begin{array}{c} 114,267 \\ 108,596 \end{array}$ | 2,940,344                                      | 7,897,836                                | 4,750,019<br>3,090,161 | 3,006,987                 | 928,511<br>451,883         |
| $\frac{44,681}{1,986}$     | 6,820<br>261                          | 926   | 3,232,277<br>27,817                            | 6,482,035<br>104,094                     | 73,094                 | $977,947 \\ 41,492$       | 10,818                     |
| 42,814                     | 4,328                                 | 86,391  | 997,173  | 2,939,675                                | 1,808,969              | 512,718                   | 462,654                    |
| 49,024                     | 9,369                                 | 83,500  | 1,795,859                                      | 4,865,588                                | 2,927,836              | 1,350,351                 | 1,281,955                  |
| 8,840                      | 2,996                                 | 13,865  | 244,842  | 503,702                                  | 233,159                | 148,980                   | 55,417                     |
| 11,980                     | 2,702                                 | 20,194  | 379,125  | 1,027,391                                | 613,390                | 668,214                   | 427,590                    |
| 8,247 $45,761$             | 921<br>3,986                          | 12,054<br>42,632                                  | 194,715<br>765,527                             | 880,039<br>2,152,527                     | 664,102<br>1,294,621   | 88,005<br>284,181         | 85,533<br>341,454          |
| 128,503                    | 9,781                                 | 136,914   | 2,250,261                                      | 5,581,769                                | 3,056,310              | 1,087,626                 | 1,296,091                  |
| 19,443                     | 1,886                                 | 22,963  | 878,860  | 1,231,792                                | 308,640                | 147,391                   | 184,587                    |
| 64,759                     | 3,780                                 | 43,793  | 1,337,655                                      | 3,196,356                                | 1,746,369              | 455,845                   | 367,586                    |
| 85,025<br>6,888            | 8,817<br>624                          | 197,920<br>8,993                                  | 6,429,329<br>236,945                           | 10,640,324<br>433,608                    | 3,919,233<br>180,158   | 1,219,341<br>85,674       | 1,074,907<br>90,816        |

# VICTORIAN FACTORIES—POWER, WORKERS, MANUFACTURING

|  | 1                |                          |                        |                        |   |
|--|------------------|--------------------------|------------------------|------------------------|---|
| Nature of Industry.                                    | Factories.       | Rated<br>Horse-<br>power |                        | Number<br>loyed.       | Salaries<br>and<br>Wages                            |
|  |                  | of<br>Engines.           | Males.                 | Females.               | Paid.   |
| Class 4.—continued. Wire and wireworking (including    | . No.            | H.P.                     | No.                    | No.                    | £   |
| nails)   | 44               | 2,718                    | 1.094                  | 121                    | 493,761   |
| Stoves, ovens, and ranges                              | 20               | 2,396<br>36              | $\frac{899}{254}$      | 139                    | 474,025   |
| Gas fittings and meters Lead mills                     | 5 6              | 663                      | 88                     | 31                     | 116,036<br>49,788                                   |
| Sewing machines  | 10               | 47                       | 95                     | 12                     | 40,427  |
| Arms, ammunition                                       | 5                | 28,080                   | 1,887                  | 184                    | 883,981   |
| Wireless and amplifying apparatus<br>Other metal works | 23<br>157        | 1,183<br>2,116           | $^{1,473}_{1,355}$     | 411<br>272             | 703,744<br>583,851                                  |
| Class 5.—Precious Metals, Jewellery, and Plate         | 224              | 5,073                    | 2,872                  | 489                    | 1,307,300   |
| Jewellery  | 79               | 799                      | 964                    | 170                    | 451,427   |
| Watchers and clocks                                    | 18               | 372                      | 459                    | 196                    | 251,571   |
| Gold, silver, and electroplate                         | 127              | 3,902                    | 1,449                  | 123                    | 601,302   |
| Class 6.—Textiles and Textile Goods (not dress)        | 580              | 71,202                   | 15,975                 | 18,162                 | 11,808,987  |
| Cotton spinning and weaving                            | 43               | 11,055                   | 1,454                  | 1,413                  | 1,072,320   |
| Wool, worsted, spinning and weaving, &c.               | 87               | 34,160                   | 6,772                  | 5,420                  | 4,526,344   |
| Hosiery and other knitted goods                        | 307              | 8,383                    | 4,590                  | 9,511                  | 4,355,852   |
| Silk, natural  | 7                | 1,609                    | 176                    | 321                    | 168,745   |
| Rayon, nylon, and other synthetic fibres               | 3                | 1,464                    | 200                    | 80                     | 117,141   |
| fibres   | 10               | 1,896                    | 443                    | 66                     | 205,807   |
| Rope and cordage                                       | 12               | 7,231                    | 1,184                  | 707                    | 714,037   |
| Canvas goods tents, &c                                 | 34<br>21         | 205<br>316               | 230<br>143             | 194<br>59              | 138,572<br>65,245                                   |
| Bags and sacks   | 56               | 4,883                    | 783                    | 391                    | 444,924   |
| Glass 7.—Skins and Leather (not                        | 281              | 16,587                   | 4,473                  | 1,170                  | 2,336,118   |
| Clothing or Footwear)<br>Furriers and fur dressing     | 69               | 487                      | 325                    | 214                    | 185,042   |
| Fellmongery  | 28               | 3,892                    | 846                    | 13                     | 185,042<br>426,094                                  |
| Tanning and leather dressing                           | 44<br>12         | 10,905<br>86             | 2,303<br>96            | 124<br>35              | $\begin{vmatrix} 1,141,977 \\ 43,249 \end{vmatrix}$ |
| Saddlery, harness, and whips Machine belting           | 9                | 668                      | 122                    | 20                     | 67,825  |
| Bags and trunks  | 106              | 440                      | 671                    | 653                    | 404,317   |
| Other leather goods                                    | 13               | 109                      | 110                    | 111                    | 67,614  |
| Class 8.—Clothing<br>Tailoring and ready-made clothing | <b>2,326</b> 532 | 19,886<br>2,046          | <b>14,338</b><br>3,059 | <b>32,997</b><br>7,461 | 14,306,071<br>3,122,569                             |
| Waterproof and oilskin clothing                        | 12               | 505                      | 118                    | 347                    | 155,906   |
| Dressmaking  | 604              | $1,905 \\ 688$           | $^{1,395}_{240}$       | 10,717<br>1,004        | 3,315,538<br>346,869                                |
| Millinery Shirts, collars, and underclothing           | 141              | 1,516                    | 557                    | 4,114                  | 1,277,161   |
| Stavs and corsets                                      | 25               | 486                      | 179                    | 1,088                  | 407,862   |
| Handkerchiefs, ties, and scarves                       | 26<br>18         | 104<br>1,107             | 75<br>446              | \$99<br>256            | 145,261<br>288,347                                  |
| Hats and caps  | 31               | 168                      | 127                    | 460                    | 156,864   |
| Boots and shoes  | 249              | 6,038                    | 5,628                  | 5,493                  | 3,832,036   |
| Boot repairing   | 432<br>19        | 598<br>264               | $737 \\ 125$           | 28<br>179              | 115,385<br>92,393                                   |
| Boot accessories Umbrellas and Walking sticks          | 4                | 7                        | 19                     | 45                     | 17,668  |
| Dyeworks and cleaning Other                            | 151<br>15        | 4,406<br>48              | $^{1,585}_{48}$        | 1,256<br>150           | 976,343<br>55,869                                   |
| Class 9Food, Drink, and Tobacco                        | 1,835            | 135,177                  | 26,910                 | 9,695                  | 14,261,146  |
| Grain milling  | 39<br>22         | 10,299<br>6,306          | $^{1,215}_{830}$       | 48<br>474              | 597,352<br>502,985                                  |
| Cereal foods and starch Cattle and poultry foods       | 10               | 1,083                    | 161                    | 14                     | 80,821  |
| Chaff-cutting and corn-crushing                        | 79               | 2,433                    | 415                    | 29                     | 134,570   |
| Bakeries   | 837              | $4,341 \\ 1,806$         | $3,700 \\ 589$         | 949<br>666             | 1,379,182   |
| Biscuits   | 17<br>99         | 9,515                    | 1,397                  | 1,619                  | 431,587<br>1,001,645                                |
| Confectionery  | 1                | 3,010.                   | 2,501                  | 1,010                  | 1,001,010   |

# Costs and Value of Production, 1948-49-continued.

| Fuel and<br>Light<br>Used.   | Lubricat-<br>ing Oil<br>and<br>Water.   | Repairs<br>to Plant,<br>&c.  | Materials<br>Used,<br>Including<br>Containers.   | Articles<br>Produced<br>or Work<br>Done.   | Value<br>Added.  | Land<br>and<br>Buildings.  | Plant<br>and<br>Machinery.   |
|--|---|--|--|--|--|--|--|
| £  | £   | £  | £  | £  | £  | £  | £  |
| 21,276<br>58,891<br>2,027<br>9,157<br>554<br>44,251<br>17,914<br>20,720  | 3,341<br>2,364<br>72<br>351<br>67<br>3,310<br>1,324<br>2,048  | 38,647<br>23,641<br>817<br>11,301<br>1,198<br>42,685<br>48,960<br>19,206   | 927,479<br>487,177<br>54,868<br>179,178<br>19,811<br>1,130,130<br>1,431,607<br>479,726   | 1,784,411<br>1,247,500<br>207,261<br>290,675<br>53,419<br>2,122,179<br>2,721,929<br>1,568,526  | 793,668<br>675,427<br>149,477<br>90,688<br>31,789<br>901,803<br>1,222,124<br>1,046,826   | 345,473<br>174,631<br>35,670<br>36,172<br>22,485<br>1,600,079<br>220,071<br>382,625  | 255,867<br>228,114<br>9,025<br>21,006<br>3,745<br>3,855,498<br>109,838<br>177,313  |
| <b>42,642</b><br>6,954<br>4,280<br>31,408  | 3,704<br>813<br>282<br>2,609  | 47,451<br>13,792<br>11,806<br>21,853   | 1,497,483<br>721,344<br>300,366<br>475,773   | 3,411,910<br>1,393,509<br>606,534<br>1,411,867   | 1,820,630<br>650,606<br>289,800<br>880,224   | <b>726,139</b> 219,015 129,758 377,366   | 413,456<br>103,938<br>106,414<br>203,104   |
| <b>834,751</b><br>92,436   | <b>75,374</b><br>6,749  | 1,037,768<br>105,612   | <b>30,028,855</b> 3,105,420  | <b>50,995,855</b> 5,115,445  | 19,019,107<br>1,805,228  | <b>6,111,119</b> 907,994   | <b>6,211,663</b> 1,040,059   |
| $\begin{array}{c} 424,981 \\ 175,687 \\ 10,321 \end{array}$  | 35,764<br>17,661<br>1,849   | $\begin{array}{r} 412,150 \\ 357,720 \\ 20,041 \end{array}$  | 12,872,112<br>8,471,920<br>215,637   | 20,762,640<br>15,886,698<br>561,732  | 7,017,633<br>6,863,710<br>313,884  | 1,949,391<br>1,977,300<br>89,584   | 2,091,389<br>1,783,052<br>99,545   |
| $17,404 \\ -8,885 \\ 41,635 \\ 2,445 \\ 1,721 \\ 59,236$   | 1,221<br>2,467<br>4,448<br>307<br>325<br>4,583  | 12,861<br>11,458<br>70,211<br>3,397<br>3,854<br>40,464   | 202,028<br>456,970<br>1,922,221<br>728,887<br>203,161<br>1,850,499   | 448,940<br>775,769<br>3,159,073<br>1,017,506<br>337,760<br>2,930,292   | 215,426<br>295,989<br>1,120,558<br>282,470<br>128,699<br>975,510   | 48,217<br>81,696<br>358,921<br>139,640<br>45,958<br>512,418  | 443,193<br>86,122<br>332,395<br>13,500<br>23,765<br>298,643  |
| 202,565<br>4,338<br>117,578<br>70,189<br>604<br>3,095<br>5,774<br>987  | 33,964<br>607<br>17,721<br>14,722<br>96<br>209<br>488<br>121  | 194,915<br>4,250<br>67,457<br>110,779<br>603<br>1,551<br>8,170<br>2,105  | 6,351,561<br>571,076<br>2,144,335<br>2,474,287<br>79,919<br>149,797<br>829,740<br>102,407  | 10,611,061<br>994,510<br>3,067,756<br>4,455,600<br>148,668<br>290,820<br>1,440,861<br>212,846  | 3,828,056<br>414,239<br>720,665<br>1,785,623<br>67,446<br>136,168<br>596,689<br>107,226  | 1,516,013<br>182,511<br>337,641<br>561,607<br>34,343<br>67,618<br>299,273<br>33,020  | 777,596<br>42,681<br>218,212<br>394,081<br>3,316<br>45,675<br>60,329<br>13,302   |
| 372,634<br>61,617<br>5,011<br>12,248<br>22,424<br>4,101<br>1,837<br>18,214<br>1,877<br>57,881<br>4,361<br>2,007<br>176<br>129,639<br>737 | 24,427<br>2,424<br>296<br>1,852<br>584<br>1,630<br>508<br>98<br>1,048<br>1,37<br>5,043<br>358<br>231<br>3<br>10,249 | 467,280<br>59,576<br>5,785<br>57,700<br>14,966<br>36,528<br>13,913<br>2,928<br>4,202<br>187,387<br>2,146<br>11,256<br>51,109 | 27,437,958<br>6,765,613<br>274,869<br>6,991,699<br>506,987<br>4,325,615<br>889,886<br>526,186<br>263,161<br>253,825<br>5,807,671<br>164,897<br>196,017<br>51,701<br>293,548<br>126,292 | 51,111,398<br>11,828,860<br>520,891<br>12,520,012<br>1,118,720<br>6,767,904<br>93,420<br>495,082<br>11,614,506<br>476,713<br>391,879<br>79,993<br>1,986,241<br>252,946 | 22,809,099<br>4,939,630<br>234,939<br>5,418,257<br>583,985<br>2,381,707<br>629,012<br>292,180<br>399,997<br>235,041<br>5,556,524<br>304,951<br>182,368<br>27,583<br>1,498,133<br>124,792 | 6,881,482<br>1,422,092<br>104,396<br>1,810,902<br>250,326<br>676,238<br>244,235<br>98,020<br>73,191<br>944,054<br>489,073<br>44,081<br>15,990<br>575,624<br>45,229 | 2,814,436<br>414,809<br>32,761<br>349,835<br>44,685<br>211,187<br>134,137<br>14,392<br>46,753<br>37,022<br>846,197<br>49,600<br>17,955<br>607,002<br>7,680 |
| 1,922,670<br>100,762<br>77,013<br>6,712<br>11,181<br>195,103<br>39,954<br>89,925   | 132,338<br>8,218<br>8,928<br>744<br>1,371<br>10,187<br>2,215<br>5,391   | 1,270,273<br>63,406<br>192,100<br>10,878<br>7,844<br>93,876<br>19,899<br>54,989  | 71,743,175<br>8,324,664<br>2,015,583<br>630,207<br>1,039,329<br>4,183,996<br>727,486<br>2,996,963  | 101,325,811<br>9,742,579<br>3,094,815<br>818,593<br>1,286,093<br>7,359,116<br>1,638,931<br>5,476,759   | 26,257,355<br>1,245,529<br>801,191<br>170,052<br>226,368<br>2,875,954<br>849,377<br>2,329,491  | 13,758,133<br>725,283<br>504,133<br>83,611<br>125,670<br>2,273,933<br>245,629<br>585,200   | 10,533,671<br>615,283<br>501,711<br>53,737<br>52,411<br>772,139<br>235,183<br>645,902  |

# VICTORIAN FACTORIES-POWER, WORKERS, MANUFACTURING

| Nature of Industry.  | Factories. | Rated<br>Horse-<br>power                        | Average<br>Empl     | Number<br>oyed.                         | Salaries<br>and<br>Wages   |
|--|------------|---|---------------------|---|----------------------------|
|  |            | of<br>Engines.                                  | Males.              | Females.                                | Paid.                      |
|  | No.        | H.P.  | No.                 | No.                                     | £                          |
| Class 9- continued.  | 1          |   |                     |   |                            |
| Jam, fruit, and vegetable canning  | 38         | 9,597   | 2,387               | 1,534                                   | 1,474,165                  |
| Pickles, sauces, and vinegar   | 20         | 1,720   | 420                 | 268                                     | 266,709                    |
| Bacon curing   | 19<br>145  | $\begin{bmatrix} 3,412 \\ 23,182 \end{bmatrix}$ | $\frac{663}{3,910}$ | 66<br>695                               | 299,984<br>2,093,254       |
| Margarine and butterine  | 143        |   | 114                 | 16                                      | 57,879                     |
| Meat and fish preserving, meat   |            |   |                     |   | 1                          |
| extracts<br>Condiments, coffee, spices, &c   | 16         | 2,440   | 774                 | 404                                     | 487,31                     |
| Condiments, coffee, spices, &c   | 74<br>122  | 4,100   | 837                 | $\frac{692}{145}$                       | 564,444                    |
| Ice and refrigerating  | 104        | $28,066 \\ 2,163$                               | 2,558<br>940        | 171                                     | 1,186,01                   |
| Breweries  | 7 7        | 7,020   | 1,710               | 34                                      | 390,96<br>923,93           |
| Distilleries   | 9          | 1,437   | 252                 | 33                                      | 135,193                    |
| Winemaking   | 27         | 386   | 145                 | 10                                      | 42,80                      |
| Cider and Perry  | 3<br>17    | 74  | 30<br>475           | $\frac{7}{10}$                          | $11,073 \\ 249,113$        |
| Malting  | 20         | 1,807<br>402                                    | 361                 | 70                                      | 173,518                    |
| Tobacco cigars, cigarettes   | 16         | 2,183   | 989                 | 1,126                                   | 743,40                     |
| Dried fruits and vegetables  | 32         | 2,107   | 682                 | 239                                     | 316,00                     |
| Ice cream  | 21         | 2,041   | 257                 | 156                                     | 164,61                     |
| Malting Bottling Tobacco, cigars, cigarettes Dried fruits and vegetables Lee cream Sausage skins Other | 13<br>15   | 209<br>6,477                                    | 333<br>766          | $\frac{26}{194}$                        | 172,84 $379,76$            |
| Other  | 13         | 0,477   | 700                 | 101                                     | 373,100                    |
| Class 10.—Woodworking and Basket-  |            |   |                     |   |                            |
| ware   | 1,093      | 77,288  | 12,401              | 555                                     | <b>4,839,99</b> 2,169,20   |
| Sawmills   | 486        | 47,892  | 5,847               | 122                                     | 2,169,20                   |
| Plywood mills (including veneers)  | 5          | 221   | 41                  | 5<br>116                                | 18,71                      |
| Joinery  | 313        | 10,442<br>653                                   | $^{3,152}_{228}$    | $\begin{array}{c} 116 \\ 1 \end{array}$ | 1,265,198                  |
| Boxes and cases  | 115        | 12,904  | 1,742               | $5\hat{8}$                              | 687.22                     |
| Woodturning, woodcarving, &c   | 105        | 4,329   | 963                 | 140                                     | 110,63<br>687,22<br>384,96 |
| Basket, wicker, bamboo, &c   | 13         | 53  | 86                  | 3                                       | $  30,26 \rangle$          |
| Perambulators  | 29         | 222<br>572                                      | 208                 | 53<br>57                                | 100,456 $73,348$           |
| Other  | 17         | 5/2   | 134                 | 37                                      | 70,040                     |
| Class 11.—Furniture, Bedding, &c.  | 559        | 12,508  | 4,825               | 748                                     | 1,837,760                  |
| Cabinet and furniture making   | 437        | 11,324  | 4,143               | 202                                     | 1,442,97                   |
| Bedding and mattresses   | 39         | 798   | $\frac{345}{162}$   | 229<br>262                              | 197,424                    |
| Furnishing drapery   | 43<br>13   | $\begin{array}{c c} 142 \\ 42 \end{array}$      | 46                  | 202                                     | 129,12 $19,83$             |
| Furnishing drapery   | 27         | 202   | 129                 | 35                                      | 48,41                      |
|  |            |   |                     |   |                            |
| Class 12.—Paper, Stationery,<br>Printing, Bookbinding, &c.   | 686        | 64,895  | 12,331              | 4,119                                   | 6,591,21                   |
| Newspapers, &c.  | 117        | 7,136   | 2,562               | 232                                     | $1,238,93 \\ 427,19$       |
| Newspapers, &c   | 3          | 1,020   | 759                 | 290                                     | 427,19                     |
| General printing. Arc  | 414        | 7,670   | 4,541               | 1,659                                   | 2,321,62                   |
| Stationery and paper products  | 32<br>10   | $\frac{1,867}{270}$                             | 570<br>105          | 565<br>13                               | 378,11<br>48,43            |
| Stationery and paper products Stereotyping and electrotyping Process and photo engraving               | 15         | 179   | 325                 | 27                                      | 153,85                     |
| Process and photo engraving Cardboard boxes, cartons, &c   | 38         | 2,093   | 838                 | 784                                     | 555,67                     |
| Paper bags   | 16         | 440   | 166                 | 223                                     | 129,26                     |
| Other paper and printing   | 41         | 44,220  | 2,465               | 326                                     | 1,338,12                   |
| Glass 13.—Rubber   | 117        | 34,379  | 3,638               | 852                                     | 2,142,94                   |
| Rubber goods (including tyres made)  | 36         | 33,346  | 3,247               | 809                                     | 1,994,70                   |
| Tyre retreading and repairing  | 81         | 1,033   | 391                 | 43                                      | 148,24                     |
| Class 14.— Musical Instruments   | 17         | 285   | 177                 | 9                                       | 71.08                      |
| Pianos, player and organs Other  | 12         | 285<br>175                                      | 115                 | 3                                       | 46.36                      |
| Other  | 5          |   |                     | 6                                       | 46,36 $24,71$              |

# Costs and Value of Production, 1948-49-continued.

| Fuel and<br>Light<br>Used.   | Lubricat-<br>ing Oil<br>and<br>Water.   | Repairs<br>to Plant,<br>&c.   | Materials Used, Including Containers.  | Articles<br>Produced<br>or Work<br>Done.  | Value<br>Added.  | Land<br>and<br>Buildings.  | Plant<br>and<br>Machinery.  |
|--|---|---|--|---|--|--|---|
| £  | £   | £   | £  | £   | £  | £  | £   |
| 99,806<br>23,344<br>31,916<br>502,644<br>8,190   | 14,919<br>4,132<br>4,653<br>24,173<br>1,148   | 120,900<br>21,267<br>14,403<br>223,512<br>3,534   | 5,433,678<br>1,292,704<br>2,457,579<br>22,071,888<br>380,062   | 8,142,900<br>1,968,272<br>2,997,949<br>25,655,002<br>552,254  | 2,473,597<br>626,825<br>489,398<br>2,832,785<br>159,320  | 977,926<br>251,565<br>264,966<br>1,777,413<br>36,641   | 966,813<br>198,755<br>128,263<br>1,805,671<br>21,565  |
| 50,565<br>53,796<br>172,289<br>20,663<br>132,296<br>65,830<br>2,443<br>50,418<br>5,991<br>20,174<br>12,421<br>18,621<br>5,619<br>124,379 | 6,850<br>8,350<br>9,230<br>2,148<br>2,894<br>482<br>96<br>5,331<br>864<br>2,191<br>1,427<br>1,687<br>1,160<br>2,366 | 39,662<br>37,035<br>115,243<br>31,343<br>65,404<br>20,789<br>2,915<br>633<br>18,482<br>5,766<br>37,311<br>15,585<br>19,655<br>4,726<br>29,116 | 2,665,318<br>2,609,891<br>467,862<br>949,319<br>1,924,929<br>504,273<br>111,698<br>13,473<br>1,173,103<br>362,887<br>4,539,881<br>332,475<br>613,808<br>279,142<br>3,640,977 | 3,789,892<br>4,026,584<br>2,645,192<br>1,799,843<br>3,329,305<br>207,619<br>32,409<br>1,711,550<br>648,114<br>6,292,652<br>818,218<br>1,215,837<br>543,558<br>4,592,721 | 1,027,497<br>1,317,512<br>1,880,568<br>796,370<br>1,203,780<br>90,081<br>17,592<br>464,216<br>272,606<br>1,693,095<br>456,310<br>562,066<br>252,911<br>795,883 | 363,702<br>588,637<br>1,514,946<br>341,853<br>733,955<br>151,991<br>88,450<br>32,817<br>475,764<br>195,881<br>409,828<br>168,229<br>182,580<br>56,590<br>600,990 | 196,759<br>331,114<br>846,378<br>237,502<br>1,056,521<br>221,030<br>57,990<br>12,883<br>122,425<br>18,855<br>462,782<br>141,623<br>159,744<br>24,731<br>645,951 |
| 196,121<br>123,376<br>681<br>24,007<br>1,979<br>27,822<br>11,392<br>591<br>1,226<br>5,047  | 38,853<br>29,594<br>61<br>3,050<br>661<br>3,637<br>1,198<br>21<br>175<br>456  | 364,212<br>241,208<br>1,147<br>39,832<br>2,498<br>51,281<br>20,030<br>732<br>2,713<br>4,771   | 9,624,340<br>5,024,800<br>57,996<br>2,006,891<br>100,539<br>1,484,883<br>480,627<br>42,863<br>232,450<br>193,291   | 18,141,132<br>9,174,872<br>91,775<br>3,986,984<br>242,073<br>2,610,156<br>1,168,837<br>103,488<br>402,118<br>360,829  | 7,917,606<br>3,755,894<br>31,890<br>1,913,204<br>136,396<br>1,042,533<br>655,590<br>59,281<br>165,554<br>157,264   | 2,244,651<br>866,180<br>17,346<br>623,826<br>27,184<br>334,384<br>233,548<br>19,448<br>73,059<br>49,676  | 2,069,057<br>1,315,951<br>7,173<br>282,569<br>27,626<br>238,142<br>135,610<br>3,310<br>16,412<br>42,264   |
| <b>35,166</b> 28,946 3,353 1,525 385 957   | 3,217<br>2,699<br>262<br>151<br>27<br>78  | 63,167<br>46,410<br>10,564<br>4,407<br>167<br>1,619   | 3,625,153<br>2,259,655<br>937,563<br>251,448<br>23.590<br>152,897  | 6,944,467<br>4,736,659<br>1,413,812<br>470,366<br>60,712<br>262,918   | 3,217,764<br>2,398,949<br>462,070<br>212,835<br>36,543<br>107,367  | 1,427,689<br>1,080,732<br>162,683<br>105,057<br>23,945<br>55,272   | 399,691<br>324,789<br>50,478<br>9,438<br>1,950<br>13,036  |
| <b>542,895</b> 36,873 7,612 49,659 10,959 2,362 2,869 10,637 2,686 419,248   | 33,434<br>6,872<br>1,048<br>7,449<br>786<br>92<br>350<br>2,016<br>514<br>14,807                                     | 454,623<br>73,086<br>7,462<br>112,363<br>16,088<br>1,995<br>2,682<br>23,350<br>8,363<br>209,234   | 12,609,354<br>2,195,138<br>330,631<br>3,305,384<br>981,203<br>30,993<br>55,390<br>1,661,877<br>685,589<br>3,360,149  | 25,572,876<br>4,344,973<br>939,372<br>7,419,340<br>1,744,823<br>124,932<br>314,326<br>2,903,018<br>903,810<br>6,878,282   | 11,932,570<br>2,033,504<br>592,619<br>3,944,485<br>732,787<br>89,490<br>253,045<br>1,205,138<br>206,658<br>2,874,844   | 4,607,143<br>837,442<br>198,654<br>1,804,720<br>277,622<br>36,138<br>105,315<br>390,620<br>95,474<br>861,158   | 4,144,683<br>805,982<br>69,560<br>1,462,069<br>269,340<br>25,521<br>34,581<br>278,543<br>90,061<br>1,109,026  |
| <b>335,907</b><br>317,581<br>18,326  | 20,384<br>19,462<br>922   | 289,306<br>271,568<br>17,738  | <b>5,487,179</b> 5,242,487 244,692   | <b>9,666,834</b><br>9,096,889<br>569,945  | <b>3,534,058</b> 3,245,791 288,267   | 1,016,931<br>788,441<br>228,490  | 1,051,083<br>936,037<br>115,046   |
| 1 <b>,242</b><br>505<br>737  | 275<br>211<br>64  | <b>2,334</b> 337 1,997  | <b>36,897</b><br>18,013<br>18,884  | 136,482<br>75,919<br>60,563   | <b>95,734</b> 56,853 38,881  | <b>56,797</b><br>46,957<br>9,840   | 17,365<br>3,118<br>14,247   |

## VICTORIAN FACTORIES—POWER, WORKERS, MANUFACTURING

| Nature of Industry.  | Rated Horse- |                |         | Average Number<br>Employed. |                |  |
|--|--------------|----------------|---------|-----------------------------|----------------|--|
|  |              | of<br>Engines. | Males.  | Females.                    | Wages<br>Paid. |  |
|  | No.          | H.P.           | No.     | No.                         | £              |  |
| Class 15.—Miscellaneous Products                             | 367          | 13,716         | 4,766   | 2,702                       | 2,675,231      |  |
| Plastic moulding and products                                | 86           | 5,541          | 1,600   | 797                         | 852,975        |  |
| Brooms and brushes   | 25           | 1,388          | 447     | 196                         | 231,151        |  |
| Optical instruments and appliances                           | 35           | 222            | 290     | 17                          | 115,386        |  |
| Surgical instruments and appliances                          | 50           | 784            | 516     | 120                         | 240,181        |  |
| Photographic material (including                             |              | i              |         |                             |                |  |
| developing, &c.)   | 33           | 1,624          | 660     | 675                         | 515,841        |  |
| Toys, games and sports requisites                            | 73           | 1,427          | 646     | 384                         | 340,143        |  |
| Artificial flowers   | _8           | _27            | 33      | 221                         | 53,128         |  |
| Other  | 57           | 2,703          | 574     | 292                         | 326,426        |  |
| Class 16.—Heat, Light and Power<br>Electric light and power— | 105          | 801,575        | 3,403   | 23                          | 1,875,386      |  |
| (i) Government   | 10           | 723,974        | 1,520   | 13                          | 978,605        |  |
| (ii) Local authority   | 33           | 64,957         | 464     |                             | 222,061        |  |
| (iii) Companies  | 25           | 3,367          | 61      | 1                           | 20,794         |  |
| Gas works—   | 1            |                |         |                             | ,              |  |
| (i) Local authority  | 8            | 85             | 88      |                             | 38,612         |  |
| (ii) Companies   | 29           | 9,192          | 1,270   | 9                           | 615,314        |  |
| Total all Classes  | 12,702       | 1,617,088      | 208,184 | 83,822                      | 112,410,440    |  |

## INDIVIDUAL INDUSTRIES.

The salient features of the chief industries are set forth in the succeeding pages.

Tanning was one of the earliest industries established in Victoria; in the year 1850 there were thirteen tanneries in the State. Particulars relating to the industry for the year 1939-40 and the past five years are given in the following table:—

### VICTORIA—TANNERIES.

|                                | Year ended 30th June— |            |            |            |            |            |  |  |
|--------------------------------|-----------------------|------------|------------|------------|------------|------------|--|--|
| Item.                          | 1940.                 | 1945.      | 1946.      | 1947.      | 1948.      | 1949.      |  |  |
| Number of establishments       | 40                    | 40         | 44         | 43         | 44         | 44         |  |  |
| Number of persons engaged      | 2,182                 |            |            |            |            |            |  |  |
| Horsepower of engines used     | 8,038                 |            |            |            |            |            |  |  |
| Value of plant and machinery £ | 237,601               |            |            |            |            |            |  |  |
| Value of land and buildings £  | 411,915               |            |            |            |            |            |  |  |
| Salaries and wages paid        | 496,068               | 728,817    | 778,865    | 957,733    | 1,000,531  | 1,141,977  |  |  |
| Fuel, light, and power         | 38,322                | 50,212     |            | 58,019     |            |            |  |  |
| Value of materials used        | 1,647,665             | 1,895,000  | 2,055,072  | 2,522,950  | 2,490,024  | 2,474,287  |  |  |
| Value of output £              | 2,581,623             | 3,093,580  | 3,430,200  | 4,234,473  | 4,214,377  | 4,455,600  |  |  |
| Value added to materials £     | 850,965               | 1,072,469  | 1,227,409  | 1,542,742  | 1,543,871  | 1,785,623  |  |  |
| Materials treated              |                       |            |            |            |            |            |  |  |
| Cow and ox hides No.           | 847,697               | 926,581    | 916,071    |            |            | 1,027,463  |  |  |
| Calf hides                     | 486,110               |            | 699,480    |            |            | 587,495    |  |  |
| Other skins and pelts ,,       | 831,399               | 1,308,882  | 1,199,211  | 1,904,892  | 1,604,892  | 984,873    |  |  |
| Bark used tons                 | 11,218                | 5,296      | 5,739      | 6,358      | 5,901      | 5,937      |  |  |
| Tanning extract (vegetable)    |                       |            |            |            |            |            |  |  |
| used 000 lb.                   | 2,590                 |            |            | 8,137      |            |            |  |  |
| Sole leather produced lb.      | 13,461,162            | 13,225,297 | 13,039,543 | 14,179,838 | 13,015,662 | 14,274,667 |  |  |

## COSTS AND VALUE OF PRODUCTION, 1948-49—continued.

| 2,596,786                     | 64,441                                | 445,833                            | 2,407,820                                      | 9,261,971                       | 3,747,091       | 3,177,671                 | 17,606,184                |
|-------------------------------|---------------------------------------|------------------------------------|--|---------------------------------|-----------------|---------------------------|---------------------------|
| 2,307,101                     | 10,532                                | 212,758                            | 1,737  | 4,853,467                       | 2,821,344       | 2,380,891                 | 11,778,363                |
| 251,548                       | 16,503                                | 29,923                             | 915  | 589,817                         | 290,928         | 254,984                   | 877,723                   |
| 20,050                        | 3,523                                 | 4,443                              | 549  | 69,189                          | 40,624          | 17,947                    | 69,701                    |
| 2,083                         | 429                                   | 2,949                              | 67,758   | 117,391                         | 44,172          | 15,752                    | 90,741                    |
| 16,004                        | 33,454                                | 195,765                            | 2,336,861                                      | 3,632,107                       | 1,050,023       | 508,097                   | 4,789,656                 |
| 23,213 $9,244$ $706$ $33,165$ | 1,950                                 | 2,898                              | 543,472  | 1,362,212                       | 790,679         | 270,719                   | 123,501                   |
|                               | 646                                   | 10,946                             | 406,581  | 1,000,308                       | 572,891         | 164,725                   | 92,868                    |
|                               | 26                                    | 1,297                              | 50,106   | 134,047                         | 81,912          | 29,128                    | 6,693                     |
|                               | 1,985                                 | 31,661                             | 1,091,947                                      | 1,796,872                       | 638,114         | 210,684                   | 106,484                   |
| £                             | £                                     | £ 161,805 95,615 9,004 3,311 7,073 | £  | £                               | £               | £                         | £                         |
| 140,015                       | 13,920                                |                                    | 4,387,267                                      | 9,077,856                       | 4,374,849       | 1,506,776                 | 1,199,342                 |
| 62,226                        | 7,644                                 |                                    | 1,404,388                                      | 2,962,651                       | 1,392,778       | 443,179                   | 641,106                   |
| 4,772                         | 789                                   |                                    | 499,246  | 872,672                         | 358,861         | 130,225                   | 96,783                    |
| 2,329                         | 178                                   |                                    | 180,228  | 358,959                         | 172,913         | 100,770                   | 41,839                    |
| 4,360                         | 702                                   |                                    | 211,299  | 590,135                         | 366,701         | 157,346                   | 90,068                    |
| Fuel and<br>Light<br>Used.    | Lubricat-<br>ing Oil<br>and<br>Water. | Repairs<br>to Plant,<br>&c.        | Materials<br>Used,<br>Iucluding<br>Containers. | Articles Produced or Work Done. | Value<br>Added. | Land<br>and<br>Buildings. | Plant<br>and<br>Machinery |

The value of leather and leather manufactures and substitutes therefor imported into Victoria from oversea countries during the year ended 30th June, 1949, was £221,135, whilst the value exported overseas for the same period amounted to £834,926.

The manufacture of soap was also one of the earliest of Victorian industries. In the year 1850 the recorded production of the four establishments then operating was 5,840 cwt. of soap. The following table indicates the development which has since taken place.

#### VICTORIA—SOAP FACTORIES

| TIOI   | UNIA-  |   | FAULU  |  |   |  |
|--|--|---|--|--|---|--|
| Item,  |  |   | Year ended   | 30th June-   |   |  |
|  | 1940.  | 1945.   | 1946.  | 1947.  | 1948.   | 1949.  |
| Number of establishments  Number of persons engaged  Horse-power of engines used.  Value of plant and machinery £ Value of land and buildings £ Salaries and wages paid £ Fuel, light, and power £ Value of materials used £ Value of output . £ Value added to materials £ Materials used—  Tallow cwt. | 16<br>713<br>2,142<br>186,601<br>207,550<br>141,652<br>38,426<br>542,553<br>1,398,010<br>777,215 | 16<br>712<br>2,607<br>151,571<br>188,752<br>209,025<br>57,482<br>798,995<br>1,571,168<br>668,479<br>312,548 | 16<br>738<br>2,117<br>151,597<br>185,865<br>213,617<br>54,884<br>858,989<br>1,613,919<br>649,520 | 18<br>725<br>2,227<br>153,142<br>187,049<br>221,445<br>70,902<br>883,845<br>1,723,064<br>717,359 | 7700<br>2,316<br>161,384<br>186,454<br>252,016<br>84,561<br>1,224,953<br>2,069,443<br>700,793 | 17<br>783<br>2,313<br>233,773<br>181,224<br>332,264<br>135,752<br>1,497,649<br>2,666,115<br>961,349<br>334,826 |
| Alkali   | 115,912<br>49,737  | 58,767<br>26,146<br>38,300  | 59,292<br>30,540<br>49,141   | 65,525<br>21,492<br>52,408   | 63,412<br>22,979<br>49,904  | 68,358<br>31,928<br>64,098   |
| Soap, Household cwt. ,, Sand ,, Toilet ,, Extracts and powders,, All other ,, Soda crystals ,,   | 202,221<br>31,422<br>23,018<br>133,417<br>27,106<br>22,647                                       | 139,373<br>19,733<br>30,983<br>159,689<br>61,707<br>11,538  | 141,287<br>19,266<br>30,466<br>179,110<br>48,964<br>10,237                                       | 158,486<br>18,534<br>31,755<br>208,670<br>60,565<br>10,012                                       | 143,480<br>23,452<br>27,636<br>217,074<br>53,172<br>3,990                                     | 144,100<br>8,073<br>45,042<br>248,359<br>50,790  |

Items of manufacture not specified above include soft, industrial, and flake soaps, candles, glycerine, &c.

Imports from oversea countries into Victorian ports in the year ended 30th June, 1949, included 314,533 lb. of soap, and 398,350 lb. of soap substitutes valued at £43,497 and £26,593 respectively.

These industries are grouped because some establishments pottery, pipes, which produce bricks also manufacture tiles, and others which produce tiles, also manufacture pipes and pottery. Factories manufacturing cement bricks, pipes, and tiles are not included herein, but are grouped with those making cement and cement products.

VICTORIA-BRICKS, POTTERY, PIPES, AND TILES.

| Item.                                     | Year ended 30th June— |         |           |           |           |           |  |  |
|---|-----------------------|---------|-----------|-----------|-----------|-----------|--|--|
| 10011.                                    | 1940.                 | 1945.   | 1946.     | 1947.     | 1948.     | 1949.     |  |  |
| Number of establishments                  | 83                    | 65      | 79        | 85        | 87        | 96        |  |  |
| Number of persons engaged                 | 3,280                 | 1,725   | 2,468     | 3,149     | 3,126     | 3,244     |  |  |
| Horse-power of engines used               | 14,455                | 10,326  | 13,987    | 14,992    | 15,796    | 16,737    |  |  |
| Value of plant and machinery £            | 607,451               | 395,997 | 527,321   | 549,206   | 578,316   | 644,876   |  |  |
| Value of land and buildings £             | 543,885               | 421,513 | 530,133   | 550,705   | 570,734   | 584,903   |  |  |
| Salaries and wages paid £                 | 685,559               | 471,066 | 672,346   | 988,778   | 1,120,790 | 1,346,792 |  |  |
| Fuel, light, and power £                  | 239,243               | 114,887 | 174,908   | 244,734   | 277,673   | 367,830   |  |  |
| Value of materials used £                 | 156,775               | 105,267 | 146,593   | 205,326   | 250,236   | 331,748   |  |  |
| Value of output £                         | 1,487,502             | 895,080 | 1,322,688 | 1,996,714 | 2,247,536 | 2,722,979 |  |  |
| Value added to materials £<br>Production— | 1,016,405             | 635,711 | 927,143   | 1,446,812 | 1,584,263 | 1,876,306 |  |  |
| Bricks, common (1,000)                    | 186,835               | 37.839  | 83,018    | 134,538   | 141,683   | 153,052   |  |  |
| Roofing tiles (1,000)                     | 13,288                | 2,882   | 5,422     | 10,182    | 11,037    | 11,811    |  |  |
| Pipes, agricultural, &c. £                | 220,531               | 79,226  | 142,571   | 228,769   | 261,781   | 322,887   |  |  |
| Other earthenware china, &c. £            | 294,451               | 409,342 | 335,873   | 531,699   | 560,455   | 651.58    |  |  |

Sawmills. Detailed information in regard to the sawmills of the State for the five years 1944-45 to 1948-49 is given in the table which follows:—

VICTORIA—SAWMILLS.

| Year 1 |       | Number    | Value of<br>Land and<br>Buildings, | Persons   | Salaries<br>and Wages | Rough-Saw<br>Produ |          |
|--------|-------|-----------|------------------------------------|-----------|-----------------------|--------------------|----------|
| 30th   | June, | of Mills, | Machinery<br>and Plant<br>in Use.  | Employed. | Paid.                 | Quantity.          | Value.   |
|        |       |           | £                                  |           | £                     | super ft.          | £        |
| 1945   |       | 294       | 1,137,689                          | 3,797     | 1,157,506             | 173,617,625        | 2,178,79 |
| 946    |       | 332       | 1,289,636                          | 4,493     | 1,224,797             | 186,376,570        | 2,819,69 |
| 947    |       | 383       | 1,526,565                          | 5,068     | 1,492,266             | 226,471,660        | 3,276,76 |
| 948    |       | 459       | 1,762,969                          | 5,440     | 1,692,347             | 237,008,701        | 3,716,64 |
| 949    |       | 486       | 2,182,131                          | 5,969     | 2,169,200             | 267,724,071        | 4,414,53 |

Prior to 1945-46 figures given in this table related only to Forest sawmills. In consequence of a revision in the statistical sub-classification of industry the table now relates to all sawmills (Forest and Town).

It should be noted that the number of persons employed is comprised of those working in the sawmills only—workers engaged in the felling and in the hauling of timber from forest to mill are excluded from the above figures.

Further particulars of sawmills and the 607 other factories which comprise the wood working group will be found on pages 564 and 565.

The quantity of timber recorded as sawn in firewood sawmills in the year 1948-49 was 314,795 tons, valued at the sawmills at £484,753. There is also a large amount of firewood taken from the forests and from private land which does not pass through these sawmills and its value cannot be reliably estimated. Statistics collected from factories, mines, and quarries show that, during 1948-49, 603,437 tons of firewood, which cost £688,905, were consumed.

Agricultural and Dairying Machinery Works.

The value of production of the Agricultural Implement Industry is extremely liable to fluctuation due to seasonal influences and the effects of varying prices of primary products. In the years affected by the requirements of a war economy, production in this industry and in metal industries generally was restricted accordingly.

VICTORIA—AGRICULTURAL AND DAIRYING MACHINERY WORKS.

|  | Year ended 30th June— |           |           |           |           |           |  |  |
|--|-----------------------|-----------|-----------|-----------|-----------|-----------|--|--|
| Item.                                      | 1940.                 | 1945.     | 1946.     | 1947.     | 1948.     | 1949.     |  |  |
| Number of establishments                   | 79                    | 54        | 57        | 60        | 64        | 67        |  |  |
| Number of persons employed                 | 3,781                 | 4,637     | 4,905     | 4,189     | 4,557     | 4,903     |  |  |
| Horse-power of engines used                | 9,971                 | 12,517    | 12,861    | 13,268    | 14,193    | 15,652    |  |  |
| Value of land and buildings £              | 613,775               | 571,230   | 609,043   | 624,340   | 836,504   | 1,087,626 |  |  |
| Value of plant and machinery $\mathfrak L$ | 563,275               | 838,582   | 719,690   | 665,761   | 1,034,171 | 1,296,091 |  |  |
| Salaries and wages paid £                  | 908,420               | 1,512,731 | 1,584,777 | 1,466,847 | 1,869,139 | 2,298,367 |  |  |
| Value of materials used £                  | 890,220               | 1,446,242 | 1,461,788 | 1,334,378 | 1,710,467 | 2,250,261 |  |  |
| Fuel, light, and power used £              | 55,431                | 112,466   | 112,480   | 90,518    | 109,576   | 128,503   |  |  |
| Value of output £                          | 2,142,634             | 3,658,935 | 3,747,487 | 3,440,499 | 4,406,863 | 5,581,769 |  |  |
|  |                       |           |           |           |           |           |  |  |

Bacon curing. In the following table particulars of bacon and ham curing establishments are given for the year 1940 and the past five years.

#### VICTORIA—BACON FACTORIES.

| ~.                               | Year ended 30th June— |            |            |            |            |           |  |  |
|----------------------------------|-----------------------|------------|------------|------------|------------|-----------|--|--|
| Item.                            | 1940.                 | 1945.      | 1946.      | 1947.      | 1948.      | 1949.     |  |  |
| Number of establishments         | 18                    | 20         | 20         | 20         | 20         | 19        |  |  |
| Number of persons employed       | 553                   | 719        | 715        | 725        | 729        |           |  |  |
| Horse-power of engines used      | 3,814                 | 3.828      | 4.056      | 4.251      | 4,533      | 3,412     |  |  |
| Value of land, buildings, plant, | '                     | ,          | · '        |            |            |           |  |  |
| &c £                             | 344,909               | 349,366    | 346,579    | 344,293    |            |           |  |  |
| Salaries and wages paid £        | 128,968               | 215,773    | 218,321    | 228,359    |            |           |  |  |
| Value of materials used £        | 916,359               | 2,130,269  | 1,808,682  | 2,073,770  | 2,150,259  |           |  |  |
| Value of fuel and light £        | 16,631                | 30,063     | 27,092     | 29,818     |            |           |  |  |
| Value of output £                | 1,149,538             | 2,570,889  | 2,256,837  | 2,467,962  | 2,720,995  | 2,997,949 |  |  |
| Pigs slaughtered for curing No.  | 170,905               |            |            |            |            |           |  |  |
| Bacon and ham cured lb.          | 17,385,848            | 26,609,925 | 20,961,254 | 24,592,389 | 24,832,276 | 22,692,84 |  |  |

The number of butter, cheese, and kindred factories in 1948–49 was 145. Of these 107 were making butter, 29 cheese, 1 concentrated milk, 4 condensed milk, 19 powdered milk (full cream and skim), 3 dried butter milk, 10 casein, and 1 milk sugar. The following table gives some indication of the value of this industry to the State:—

## VICTORIA—BUTTER AND CHEESE FACTORIES, ETC.

| <b>*</b> 4  | Year ended 30th June— |             |             |             |             |             |  |  |  |
|---|-----------------------|-------------|-------------|-------------|-------------|-------------|--|--|--|
| Item.   | 1940.                 | 1945.       | 1946.       | 1947.       | 1948.       | 1949.       |  |  |  |
| Number of establishments<br>Number of persons em- | 167                   | 148         | 148         | 147         | 148         | 145         |  |  |  |
| ployed  | 3,194                 | 3,748       | 3,874       | 4,285       | 4,446       | 4,605       |  |  |  |
| Horse-power of engines                            | 14,594                | 19,736      | 20,857      |             |             |             |  |  |  |
| Value of plant and                                | 14,004                | 19,100      | 20,001      | 21,550      | 20,141      | 20,102      |  |  |  |
| machinery £                                       | 1,286,131             | 1,332,534   | 1,344,427   | 1,395,350   | 1,530,640   | 1,805,671   |  |  |  |
| Value of land and                                 | 1,200,101             | 1,004,004   | 1,044,427   | 1,555,550   | 1,000,010   | 1,000,011   |  |  |  |
| buildings £                                       | 1,207,095             | 1,454,364   | 1,525,425   | 1,628,180   | 1,730,366   | 1,777,413   |  |  |  |
| Salaries and wages paid £                         | 806,298               |             | 1,235,307   |             | 1,755,797   |             |  |  |  |
| Fuel, light, and power £                          | 188,821               | 308,449     | 335,250     |             |             |             |  |  |  |
| Value of materials used £                         | 12,034,986            |             | 13,497,788  |             |             |             |  |  |  |
| Value of output £                                 | 14,741,260            |             | 16,458,087  |             |             |             |  |  |  |
| Added value £                                     | 2,411,202             |             | 2,454,430   |             |             |             |  |  |  |
| Articles produced-                                | 2,411,202             | 2,239,913   | 2,404,400   | 2,110,210   | 3,113,031   | 2,002,100   |  |  |  |
| Butter lb.  | 161,289,017           | 104,832,382 | 119 180 160 | 133,027,174 | 197 044 071 | 134 486 869 |  |  |  |
| Cheese lb.  | 24,379,610            | 27,340,311  | 33,405,690  |             |             |             |  |  |  |
| Condensed milk lb.                                | 29,869,658            | 76,126,884  | 80,345,852  | 74,873,513  |             |             |  |  |  |
| Powdered milk, &c. (ail                           | 20,000,000            | 10,120,004  | 00,040,002  | 12,010,010  | 10,000,020  | C, 100, 100 |  |  |  |
| kinds) Ib.  | 26,409,999            | 32,915,162  | 36,244,293  | 43,168,944  | 44,771,472  | 52,537,882  |  |  |  |
| Casein lb.  | 5,331,163             |             | 2,809,033   |             |             |             |  |  |  |

Further particulars relating to butter and cheese factories will be found on page 564.

Bakeries (including bread, pastry and cakes). The statistical definition of a factory (see page 557) excludes from enumeration many small bakeries. Particulars relating to 1948–49 include 837 bakehouses which come within that definition.

The value quoted is the wholesale selling value of the goods at the factory exclusive of all selling and delivery costs.

## VICTORIA—BAKERIES.

| Item.                          |            | Y          | ear ended  | 30th June  |            |            |
|--------------------------------|------------|------------|------------|------------|------------|------------|
| Item.                          | 1940.      | 1945.      | 1946.      | 1947.      | 1948.      | 1949.      |
| Number of factories            | 597        | 728        | 746        | 805        | 824        | 837        |
| Number of persons employed     | 3,391      | 3,712      | 4,112      | 4,410      | 4,473      | 4,649      |
| Horse-power of engines used    | 2,673      | 3,393      | 3,568      | 3,792      | 3,905      | 4,341      |
| Value of land and buildings £  | 1,266,693  | 1,556,972  | 1,667,986  | 1,998,185  | 2,035,796  | 2,273,933  |
| Value of plant and machinery £ | 451,758    | 455,041    | 477,092    | 543,278    | 654,026    | 772,139    |
| Salaries and wages paid £      | 721,435    | 1,031,434  | 930,304    | 1,082,345  | 1,179,604  | 1,379,182  |
| Value of materials used £      | 2,224,652  | 2,903,301  | 2,981,031  | 3,210,602  | 3,627,264  | 4,183,996  |
| Fuel, light, and power used £  | 87,407     | 136,110    | 139,311    | 152,816    | 168,984    | 195,103    |
| Repairs, oil and water used £  | 36,609     | 60,349     | 93,500     | 82,603     | 83,420     | 104,063    |
| Total output £                 | 3,689,027  | 4,944,910  | 5,247,154  | 5,789,351  | 6,324,892  | 7,359,116  |
| Value added £                  | 1,340,359  | 1,845,150  | 2,033,312  | 2,343,330  | 2,445,224  | 2,875,954  |
| Value added per worker £       | 395        | 497        | 494        | 531        | 547        | 618        |
| Flour used—tons (2,000 lb.)    | 105,944    | 125,679    | 111,560    | 129,248    | 128,865    | 130,622    |
| Bread made-4-lb, loaves        | 57,017,198 | 76,398,458 | 70,080,082 | 79,238,257 | 81,589,116 | 80,786,050 |
| Cakes, pastry, pies £          | 1,695,367  | 2,673,367  | 2,635,193  | 3,130,947  | 3,121,115  | 3,835,624  |

Meat and fish preserving to the meat and fish preserving industry for 1939-40 and the past five years are given hereunder—

## VICTORIA-MEAT AND FISH PRESERVING WORKS.

| Itom                           |         |           | Year ende | d 30th Jur | ne—       |           |
|--------------------------------|---------|-----------|-----------|------------|-----------|-----------|
| Item.                          | 1940.   | 1945.     | 1946.     | 1947.      | 1948.     | 1949.     |
| Number of establishments       | 9       | 12        | 12        | 14         | 16        | 16        |
| Number of persons engaged      | 313     | 1,338     | 1,089     | 954        | 1,077     | 1,178     |
| Horse-power of engines used    | 535     | 2,031     | 2,128     | 2,201      | 2,505     | 2,440     |
| Value of plant and machinery £ | 27,458  | 130,491   | 139,945   | 144,386    | 178,011   | 196,759   |
| Value of land and buildings £  | 88,878  | 187,171   | 190,646   | 209,259    | 351,786   | 363,702   |
| Salaries and wages paid £      | 60,631  | 377,323   | 310,686   | 312,079    | 387,587   | 487,317   |
| Fuel, light, and power £       | 4,560   | 27,643    | 27,654    | 28,852     | 31,105    | 50,565    |
| Value of materials used £      | 391,382 | 2,882,204 | 2,154,730 | 1,922,096  | 2,321,207 | 2,665,318 |
| Value of output £              | 573,563 | 3,879,890 | 2,963,365 | 2,716,064  | 3,162,127 | 3,789,892 |
| Value added to materials £     | 171,641 | 934,922   | 747,857   | 731,443    | 767,061   | 1,027,497 |
| Canned meat produced cwt.      | 65,496  | 509,624   | 318,386   | 322,300    | 355,145   | 377,657   |
| Meat extracts cwt.             | 875     | 5,509     | 5,669     | 3,471      | *         | *         |
| Fish (all kinds) cwt.          | 8,796   | 6,663     | 11,593    | 25,607     | 23,788    | 17,878    |

<sup>\*</sup> Not available for publication.

One hundred and twenty-two establishments were included Retrigeration under the industrial Sub-class "Ice and Refrigeration" during 1948–49. There were 2,703 persons employed and the total horse power of machinery used was 28,066. The value of Land &c. and Plant &c. was £2,361,324 and the value of Output £2,645,192. Particulars of Meat Freezing Works are incorporated in the foregoing figures. No collection of statistics is now made regarding quantities of carcasses treated in the freezing works.

Imports and exports of meats.

The following statement shows the imports from and exports to oversea countries of frozen, chilled, and preserved meats during the year ended 30th June, 1949:—

VICTORIA-MEAT IMPORTED AND EXPORTED OVERSEA,

| Meats.                     | Impor      | ts.     | Expor           | ts.       |
|----------------------------|------------|---------|-----------------|-----------|
| meats.                     | Quantity.  | Value.  | Quantity.       | Value.    |
| D                          |            | £       |                 | £         |
| Preserved by cold process— |            |         |                 |           |
| Beef                       | ••         |         | lb. 2,426,953   | 122,896   |
| Lamb                       |            |         | ,, 45,879,001   | 1,867,851 |
| Mutton                     |            |         | ,, 12,620,225   | 278,064   |
| Pork                       |            |         | ,, 3,212,503    | 212,424   |
| Poultry                    | 1          |         | (a)             | 644,470   |
| Rabbits and hares          |            |         | prs. 14,993,415 | 2,390,701 |
| Veal                       |            |         | lb. 172,284     | 6,867     |
| Other                      |            |         | (a)             | 208,129   |
| Bacon and hams             |            |         | ,, 1,621,095    | 123,270   |
| Potted and concentrated    | lb. 9,533  | 3,684   | ,, 75,857       | 27,237    |
| Preserved in tins, &c      | ,, 57,180  | 4,733   | ,, 46,460,459   | 2,545,970 |
| Sausage casings            | ewt. 4,575 | 108,908 | ewt. 8,776      | 386,030   |
| Other                      | (a)        | 23      | (a)             | 50,921    |
| Total value                | (a)        | 117,348 | (a)             | 8,864,830 |

(a) Value only.

Victorian flour mills produce ample flour, &c., to supply all local requirements and a considerable surplus for export. The following table gives particulars of the industry for the year 1939-40 and for the past five years.

#### VICTORIA—FLOUR MILLS.

| Item.                            | Year Ended 30th June— |            |         |         |         |           |  |  |
|----------------------------------|-----------------------|------------|---------|---------|---------|-----------|--|--|
| 10610.                           | 1940.                 | 1945.      | 1946.   | 1947.   | 1948.   | 1949.     |  |  |
| Number of establishments         | 36                    | 38         | 40      |         | 39      | 39        |  |  |
| Number of persons engaged        | 1,054                 |            |         |         |         |           |  |  |
| Horse-power of engines used      | 8,440                 |            |         |         |         |           |  |  |
| Value of plant and machinery £   | 501,585               |            |         |         |         |           |  |  |
| Value of land and buildings £    | 598,045               |            |         |         |         |           |  |  |
| Salaries and wages paid £        | 283,595               |            | 343,275 |         |         |           |  |  |
| Fuel, light, and power £         | 55,863                |            |         |         |         | 100,762   |  |  |
| Value of materials used £        | 3,361,425             |            |         |         |         |           |  |  |
| Value of output $\dots$ £        | 4,007,867             | 4,902,557  |         |         |         | 9,742,579 |  |  |
| Value added to materials £       | 555,368               |            |         |         |         |           |  |  |
| Wheat ground into flour, bushels |                       | 19,012,208 |         |         |         |           |  |  |
| Flour produced tons (2,000 lb.)  | 397,698               | 393,036    | 315,525 | 449,170 | 487,806 | 466,828   |  |  |
| Bran produced ., ,,              | 83,954                | 76,925     | 66,177  | 89,517  | 105,727 | 98,870    |  |  |
| Pollard produced ,,              | 90,195                |            |         |         |         |           |  |  |
| Wheatmeal produced cwt.          | 163,179               |            |         |         |         |           |  |  |

<sup>\*</sup> Prior to 1947-48 "Wheatmeal" included "Stock Food".

During the year ended 30th June, 1949, 272,887 tons of flour, valued at £10,802,761 were exported from Victorian ports to countries beyond Australia.

Jam, pickle, and sauce factories and fruit and vegetable canning factories are given in the table hereunder, which shows the main items of output, &c., for the year 1939-40 and for the past five years.

## VICTORIA—JAMS, PICKLES, SAUCES, PRESERVES, ETC.

| Item.                          | Item. Year Ended 30th June— |           |           |            |           |            |  |  |
|--------------------------------|-----------------------------|-----------|-----------|------------|-----------|------------|--|--|
|                                | 1940.                       | 1945.     | 1946.     | 1947.      | 1948.     | 1949.      |  |  |
| Number of establishments       | 45                          | 60        | 52        | 54         | 52        | 58         |  |  |
| Number of persons engaged      | 3,441                       | 5,991     | 4,864     | 4,598      | 4,368     | 4,609      |  |  |
| Horse-power of engines used    | 4,328                       | 8,752     |           | 9,606      | 10,364    | 11,317     |  |  |
| Value of plant and machinery £ | 358,401                     | 712,849   |           | 864,382    | 1,007,063 | 1,165,568  |  |  |
| Value of land and buildings £  | 714,648                     | 1,060,335 | 1,046,513 | 1,034,574  | 1,092,770 | 1,229,491  |  |  |
| Salaries and wages paid £      | 635,018                     |           |           |            |           | 1,740,874  |  |  |
| Fuel, light, and power used £  | 43,324                      |           |           |            |           | 123,150    |  |  |
| Value of materials used £      | 2,882,719                   |           |           |            |           | 6,726,382  |  |  |
| Value of output . £            | 4,439,409                   |           |           |            | 9,614,490 | 10,111,172 |  |  |
| Fresh fruit used cwt.          | 1,022,991                   |           |           |            |           |            |  |  |
| Sugar used "                   | 403,260                     | 503,914   | 536,890   | 533,496    | 595,463   | 501,888    |  |  |
| Output of—                     |                             |           |           |            |           |            |  |  |
| Jams and jellies cwt.          | 462,672                     |           |           |            |           |            |  |  |
| Fruit preserved in liquid ,,   | 786,266                     |           |           |            |           |            |  |  |
| Fruit pulp ,,                  | 140,266                     |           |           |            |           |            |  |  |
| Sauce . pints                  |                             |           |           | 10,366,986 |           |            |  |  |
| Pickles and chutney ,,         | $ \ 2,451,985$              | 4,096,654 | 4,984,520 | 2,447,263  | 3,131,962 | 2,882,772  |  |  |

The Victorian Government operated a beet sugar factory at Maffra until it was sold on 12th May, 1949. A brief history of the beet-sugar industry since its establishment in Victoria was given in the Year-Book, 1937–38.

The following table contains particulars relating to the production, &c., of beet sugar for the ten years ended 30th June, 1948:—

| VICTORIA- | BEET | SUGAR | PRODUCTIO | N |
|-----------|------|-------|-----------|---|

| Year           | Ended 30t | h June. | Area.      | Beet Yield.      | Sugar Content. | Sugar Produced. |
|----------------|-----------|---------|------------|------------------|----------------|-----------------|
|                |           |         | Acres.     | Tons.            | %              | Tons.           |
| 1939           |           |         | 4,268      | 13,454           | 14 · 83        | 1,507           |
| 1940           |           |         | 4,234      | 42,898           | $18 \cdot 65$  | 6,250           |
| 1941           |           |         | 3,588      | 27,031           | $16 \cdot 29$  | 3,279           |
| 1942           |           |         | 2,866      | 24,546           | $15 \cdot 82$  | 2,769           |
| 1943           |           |         | 955        | 5,997            | $17 \cdot 13$  | 678             |
| 1944           |           |         | 836        | 6,975            | $16 \cdot 11$  | 704             |
| $1945 \\ 1946$ |           |         | 485<br>108 | 3,200 \<br>975 ( | (For Fo        | odder only)     |
| 1947           |           |         | 753        | 9,170            | 15.95          | 1,014           |
| 1948           |           |         | 553        | 6.362            | 16.01          | 584             |

Prices paid to growers for beet usually vary annually in accordance with the sugar content and the Australian price of sugar. The prices per ton during each of the last five years, in which sugar was produced, were as follows:—1941–42, 43s.; 1942–43, 48s.; 1943–44, 50s.; 1946–47, 59s.; and 1947–48, 60s.

The decline in the area under beet in 1943–4–5–6 can be attributed to the impact of a war economy which caused a general reorganization of industry. After a lapse of two years sugar was again produced in 1946–47, but the production of beet sugar in Victoria was discontinued at the end of the 1947–48 season.

Breweries and Particulars regarding breweries and distilleries for bistilleries. the year 1939-40 and for the past five years are set forth in the succeeding tables.

VICTORIA—BREWERIES.

| Item.                          | Year ended 30th June- |           |           |            |           |           |
|--------------------------------|-----------------------|-----------|-----------|------------|-----------|-----------|
|                                | 1940.                 | 1945.     | 1946.     | 1947.      | 1948.     | 1949.     |
| Number of breweries            | 9                     |           |           |            | 7         | 7         |
| Number of persons engaged      | 1,602                 |           |           |            |           | 1,744     |
| Horse-power of engines         | 6,611                 |           |           |            |           |           |
| Value of plant and machinery £ | 934,877               |           |           |            |           |           |
| Value of land and buildings £  | 791,995               |           |           |            |           |           |
| Salaries and wages paid £      | 551,710               |           |           |            |           |           |
| Fuel, light, and power used £  | 66,928                |           | 75,943    | 96,943     | 108,377   | 132,296   |
| Value of materials used £      | 1,367,625             | 1,372,644 | 1,399,001 | 1,389,077  | 1,571,910 | 1,924,929 |
| Value of output £              | 3,101,825             | 2,718,027 | 3,013,132 | 3,056,715  | 3,156,136 | 3,329,303 |
| Value added to materials £     | 1,515,038             | 1,200,780 |           | 1,456,826  | 1,391,155 | 1,203,780 |
| Materials used—                |                       | ' '       | , ,       |            | 1 1       | 1         |
| Sugar cwt,                     | 128,053               | 124,321   | 139.102   | 128,569    | 134,187   | 149,394   |
| Malt bush.                     | 1,036,711             | 989,614   | 1.016,854 |            |           |           |
| Hops lb.                       | 842,939               | 830,179   | 879,377   |            |           |           |
|                                | 32,318,251            |           |           | 36,174,827 |           |           |

## VICTORIA—DISTILLERIES.

| Item.                             |         | Y         | ear ended | 30th June- |           |           |
|-----------------------------------|---------|-----------|-----------|------------|-----------|-----------|
|                                   | 1940.   | 1945.     | 1946.     | 1947.      | 1948.     | 1949.     |
| Number of distilleries            | 8       | 9         | 9         | 9          | 9         | . 9       |
| Number of persons engaged         | 82      | 175       | 238       | 275        | 266       | 285       |
| Horse-power of engines            | 831     | 1,429     | 1,443     | 1,490      | 1,395     | 1,437     |
| Value of plant and machinery £    | 150,159 | 189,491   | 207,729   | 196,834    | 200,494   | 221,030   |
| Value of land and buildings £     | 216,885 | 196,671   | 161,976   | 157,185    | 153,910   | 151,991   |
| Salaries and wages paid £         | 24,426  | 63,405    | 88,337    | 98,936     | 118,695   | 135,192   |
| Fuel, light, and power £          | 7,866   | 26,217    | 30,344    |            | 49,528    | 65,830    |
| Value of materials used £         | 65,961  | 338,200   | 467,260   |            | 472,736   | 504,273   |
| Value of output £                 | 166,570 | 636,728   | 887,862   | 1,000,846  | 928,165   | 939,056   |
| Materials used—                   |         | i         |           |            |           |           |
| Wine gals.                        | 648,534 | 581,708   | 1,117,090 |            | 1,739,388 | 1,899,243 |
| Malt bush.                        | 51,722  | 183,366   | 206,134   | 247,136    | 244,976   | 229,440   |
| Other grain bush.                 | 71,051  | 248,718   | 354,322   | 348,237    | 242,214   | 331,160   |
| Molasses raw sugar, &c.           | ,       | ł         | - 1       |            |           |           |
| 1,000 lbs.                        | 388     | 35,433    | 32,358    | 35,857     | 33,650    | 41,561    |
| Spirits distilled in distilleries |         |           |           |            |           |           |
| proof gals.                       | 455,113 | 3,501,376 | 3,720,276 | 3,827,672  | 3,647,749 | 4,116,260 |
| Spirits distilled by vinegrowers  |         |           |           |            |           |           |
| proof gals.                       | 14,568  | 12,262    | 12,328    | 13,485     | 19,316    | 21,481    |

The sixteen establishments engaged in the manufacture of tobacco, cigars, and cigarettes during 1948-49 which conformed to the statistical definition of a factory gave employment to 2,115 persons, who were paid £743,401 in wages and who used machinery, plant, land, and buildings valued at £872,560. The subjoined table shows the quantity of tobacco leaf used by and the output of the full number of licensed establishments for the past ten years:—

## VICTORIA—TOBACCO FACTORIES.

| Year Ended | Leaf Operat | ed on.    | Production. |            |              |  |  |
|------------|-------------|-----------|-------------|------------|--------------|--|--|
| 30th June. | Australian. | Imported. | Tobacco.    | Cigars.    | Cigarettes.  |  |  |
|            | 1b.         | lb.       | lb.         | No.        | No.          |  |  |
| 1940       | 1,753,752   | 5.069.611 | 5,043,425   | 21,654,357 | 1,219,518,31 |  |  |
| 1941       | 1,842,953   | 5,432,331 | 5,131,890   | 25,273,046 | 1,419,168,64 |  |  |
| 1942       | 1,927,629   | 5,922,807 | 5,538,393   | 27,107,268 | 1,515,517,91 |  |  |
| 1943       | 1,973,027   | 5,722,124 | 5,829,487   | 19,914,219 | 1,350,087,44 |  |  |
| 1944       | 1,838,650   | 5,815,429 | 5,864,285   | 14,802,342 | 1,333,952,19 |  |  |
| 1945       | 1,799,295   | 5,769,847 | 5,841,035   | 14,320,780 | 1,293,700,66 |  |  |
| 1946       | 1,698,514   | 6,051,854 | 5,988,762   | 13,446,593 | 1,316,541,82 |  |  |
| 1947       | 1,363,490   | 7,336,030 | 6,778,174   | 13,550,760 | 1,419,855,64 |  |  |
| 1948       | 1,085,772   | 7,554,342 | 6,559,471   | 15,814,597 | 1,465,614,25 |  |  |
| 1949       | 1,137,753   | 7,315,033 | 6,188,846   | 15,697,065 | 1,532,942,02 |  |  |

Woollen mills. Victorian manufacturers supply approximately half of the Australian requirements in woollen piece goods. They have also developed an oversea export trade in wool tops, noils, and waste, the value of which, for the year 1948-49, was £2,144,909.

#### VICTORIA-WOOLLEN MILLS.

| Item.   | Year Ended 30th June— |        |           |           |            |             |  |  |
|---|-----------------------|--------|-----------|-----------|------------|-------------|--|--|
| Item,   | 1940.                 | 1945.  | 1946.     | 1947.     | 1948.      | 1949.       |  |  |
| Number of establishments                                    | 56                    | 67     | 65        | , 68      | 76         | 87          |  |  |
| Number of persons employed                                  | 11,039                |        |           |           |            |             |  |  |
| Horse-power of engines                                      | 30,917                |        |           |           | 32,045     |             |  |  |
| Value of plant and machinery £                              | 1,722,679             |        |           |           |            | 2,091,389   |  |  |
| Value of land and buildings £                               | 1,314,754             |        |           |           |            |             |  |  |
| Salaries and wages paid £                                   | 1,823,136             |        |           |           |            |             |  |  |
| Fuel, light, and power £                                    | 219,869               |        |           |           |            |             |  |  |
| Value of materials used $\pounds$ Value of output $\pounds$ | 4,248,982             |        |           |           |            | 12,872,112  |  |  |
| Value of output £   |                       |        |           |           | 15,484,006 |             |  |  |
| Added value £   | 3,273,050             |        | 4,900,275 | 5,497,008 |            | [7,017,633] |  |  |
| Scoured wool used lb.                                       | 26 196,498            |        |           |           |            |             |  |  |
| Cotton used lb.   | 958,130               |        |           |           |            |             |  |  |
| Tweed and cloth made sq. yds.                               |                       |        |           |           | 19,472,809 | 19,889,487  |  |  |
| Flannel made sq. yds.                                       | 1,307,599             |        |           | 1,903,137 |            |             |  |  |
| Blankets pairs  | 645,324               |        |           |           |            |             |  |  |
| Rugs and shawls No.   | 104,734               | 11,911 | 23,332    | 40,161    | 31,829     | 69,13       |  |  |

Hosiery and Knitting. Early records show that, in the year 1886-87, there were three hosiery factories in Victoria, employing 56 hands. The capital value of land, buildings, and machinery was £2,080. The following table shows the main details relating to this industry for 1940 and the past five years:—

#### VICTORIA—HOSIERY AND KNITTING.

| Item.  | Year ended 30th June— |            |            |            |            |           |
|--|-----------------------|------------|------------|------------|------------|-----------|
| Item.  | 1940.                 | 1945.      | 1946.      | 1947.      | 1948.      | 1949.     |
| Number of establishments   | 231                   | 250        | 255        | 267        | 278        | 307       |
| Number of persons employed—  | 4,225                 | 2,818      | 3,336      | 4,156      | 4,479      | 4,590     |
| Famela   | 9,071                 | 8,122      |            |            |            | 9,51      |
| Salaries and wages paid £  | 1,928,655             | 2,328,847  |            |            |            | 4,355,85  |
| Value of land and buildings £                                      | 1,250,498             | 1,489,061  |            | 1,622,449  |            | 1,977,30  |
| Value of plant and machinery £                                     | 1,162,954             |            |            |            |            |           |
|  | 3,420,147             | 4,278,006  |            |            |            | 8,471,92  |
| Value of materials used $\pounds$ Fuel, light, and power $\pounds$ | 93,883                | 110,461    |            |            |            |           |
| Value of output £  | 6,851,475             | 8,288,324  |            | 10,815,971 |            |           |
| Added value £  | 3,189,646             | 3,717,604  | 3,870,150  |            |            | 6,863,710 |
| Yarn used—   | 1 ' '                 | -,,        | · ′ ′      |            | ′ ′        |           |
| Woollen and worsted lb.  | 4,957,438             | 7,713,200  | 5,763,239  | 6,715,598  | 7,427,925  | 7,453,76  |
| Cotton lb.   | 3,804,668             | 3,794,826  | 3,189,953  | 4,505,276  | 4,486,578  | 3,940,21  |
| Silk lb.   | 718,592               | 8,553      |            |            |            |           |
| Rayon lb.  | 3,493,879             |            | 3,072,083  |            |            | 3,355,68  |
| stockings madedoz. pair  | *1,805,444            | *823,517   |            | *1,158,260 |            |           |
| Socks madedoz. pair  |                       |            |            | †1,306,357 |            |           |
| Garments made number   | [21,581,804]          | 18,772,896 | 16,696,080 | 19,639,500 | 20,967,360 | 19,218,28 |

<sup>\*</sup> Women's socks and stockings only.

<sup>†</sup> Includes men's socks and stockings, doz. pair—1939-40, 1,040,199; 1944-45, 1,067,046; 1945-46, 841,957; 1946-47, 968,562; 1947-48, 1,022,440; 1948-49, 1,047,264; Children's socks and stockings, doz. pair—1939-40, 278,238; 1944-45, 280,008; 1945-46, 349,635; 1946-47, 337,795; 1947-48, 469,770; 1948-49, 497,295.

Boots and Shoes. Particulars relating to factories manufacturing boots and shoes are shown in the following table:—

### VICTORIA—BOOTS AND SHOES.

| Item.   |             | Year ended 30th June— |           |           |            |            |  |  |
|---|-------------|-----------------------|-----------|-----------|------------|------------|--|--|
| Toein.  | 1940.       | 1945.                 | 1946.     | 1947.     | 1948.      | 1949.      |  |  |
| Number of establishments .                    | 168         | 182                   | 195       | 210       | 231        | 249        |  |  |
| Number of persons employed                    | 10,491      | 8,704                 | 9,464     | 10,752    | 11,039     | 11,121     |  |  |
| Horse-power of engines used                   | 4,518       | 6,219                 | 5,337     | 5,229     | 5,651      | 6,038      |  |  |
| Value of plant, machinery, land and buildings | i 1,162,203 | 1,307,608             | 1,373,385 | 1,511,817 | 1,693,704  | 1,790,251  |  |  |
| Salaries and wages paid                       | € 1,783,144 | 2,205,611             | 2,353,753 | 2,923,519 | 3,302,882  | 3,832,036  |  |  |
| Fuel, light, and power                        | £ 31,058    | 37,414                | 37,505    | 41,316    | 48,457     | 57,881     |  |  |
| Value of materials used                       | € 2,964,461 | 4,260,161             | 4,020,905 | 4,832,669 | 5,164,190  | 5,807,671  |  |  |
| Value of output                               | £ 5,512,542 | 8,234,686             | 7,765,401 | 9,193,925 | 10,332,454 | 11,614,506 |  |  |
| Boots and shoes made pair                     | s 8,016,146 | 7,864,401             | 7,031,105 | 7,302,844 | 7,804,994  | 7,323,018  |  |  |
| Slippers made pair                            | s 4,212,039 | 2,882,816             | 3,246,022 | 4,833,405 | 4,749,785  | 4,549,043  |  |  |

Dress (exclusive of boot) tactories.

Information in the next table relates to industries associated with the manufacture of dress. The figures shown represent, for each of the past five years, the sum of the undermentioned industries:—Clothing, tailoring, dressmaking, millinery, underclothing and hats and caps.

## VICTORIA—DRESS (EXCLUSIVE OF BOOT) FACTORIES.

| Year ended<br>30th June— |     | Number<br>of<br>Factories. | Number of Persons<br>Employed. |          |        | Salaries<br>and Wages | Value of<br>Materials | Value of        |
|--------------------------|-----|----------------------------|--------------------------------|----------|--------|-----------------------|-----------------------|-----------------|
|                          |     |                            | Males.                         | Females. | Total. | Paid.                 | Used.                 | Output.         |
| 1945                     | • • | 1,105                      | 3,498                          | 21,009   | 24,507 | £<br>4,913,066        | £<br>10,495,697       | £<br>18,341,605 |
| 1946                     | ••  | 1,162                      | 4,222                          | 21,776   | 25,998 | 4,993,573             | 10,660,720            | 19,294,628      |
| 1947                     |     | 1,216                      | 5,270                          | 23,182   | 28,452 | 6,122,992             | 12,999,733            | 23,419,798      |
| 1948                     |     | 1,299                      | 5,509                          | 24,124   | 29,633 | 7,201,722             | 16,569,876            | 29,118,235      |
| 1949                     |     | 1,471                      | 6,244                          | 25,996   | 32,240 | 9,272,246             | 20,924,124            | 36,562,066      |

Electric Particulars relating to the electric light and power power works. Works of the State are given in the next table.

### VICTORIA—ELECTRIC LIGHT AND POWER WORKS.

| Year ended<br>30th June—                                     |      |  | Number.                                      | Value of<br>Machinery<br>and Plant.   | Persons<br>Employed.   | Wages<br>Paid.   | Electricity<br>Generated.  | Value of<br>Output,  |
|--|------|--|--|---|--|--|--|--|
|  |      |  |  | £   |  | £  | '000<br>kilowatt<br>hours.   | £  |
| 1940<br>1941<br>1942<br>1943<br>1944<br>1945<br>1946<br>1947 |      |  | 78<br>73<br>71<br>70<br>72<br>70<br>69<br>67 | 7,467,138<br>8,040,055<br>8,119,400<br>8,284,916<br>8,394,868<br>10,103,146<br>10,233,183<br>10,484,417 | 1,445<br>1,417<br>1,418<br>1,397<br>1,438<br>1,534<br>1,760<br>1,906 | 418,511<br>454,182<br>486,931<br>544,551<br>595,315<br>612,553<br>681,761<br>752,820 | 1,252,936<br>1,385,038<br>1,539,960<br>1,648,233<br>1,671,745<br>1,714,763<br>1,803,407<br>1,838,893 | 2,673,351<br>2,980,947<br>3,415,892<br>3,837,000<br>3,779,763<br>3,993,472<br>4,167,493<br>4,025,721 |
| 1948<br>1949   | :: / |  | 67<br>68                                     | 10,776,348<br>12,725,787  | 1,978<br>2,059   | 967,386<br>1,221,460   | 2,081,329<br>2,321,283   | 4,248,220<br>5,512,478   |

Employees engaged in the transmission and distribution of electricity have not been included. In addition to the power stations shown above there is a number of factories which generate electricity mostly for their own use; the recorded total of thousand kwh's generated for each of the past five years was as follows:—1944–45, 102,584; 1945–46, 100,996; 1946–47, 163,174; 1947–48, 178,610; and 1948–49, 182,698.

## STATE ELECTRICITY COMMISSION OF VICTORIA.

The State Electricity Commission was constituted by the Electricity Commissioners Act 1918, as amended by the State Electricity Commission Act 1920, now consolidated in the State Electricity Commission Act 1928. The Act provides for the appointment, for terms not exceeding seven years, of a chairman and three commissioners. The Commission's duties cover—

- 1. Control of generation, supply, and use of electricity in Victoria.
- 2. Investigation and, where practicable, development of all possible sources of power.
- 3. Promotion of the use of electricity.

The Commission is empowered to erect, acquire, and operate electrical undertakings and to operate any business associated therewith; to supply electricity to corporations and to persons outside areas in which there are existing undertakings; to frame safety regulations, register electrical contractors, and to issue licences for electrical mechanics. It controls its own funds and all officers and employees required for the operation of the Act.

A comprehensive generation and transmission system has been established based mainly upon the brown coal deposits at Yallourn, where the installed capacity of generators is 195,000 kW., including

six turbo-alternators of 12,500 kW., four of 25,000 kW., and two of 10,000 kW. (installed at briquette factory). From Yallourn two 132,000 volt lines transmit electricity to terminal stations at Richmond and Yarraville. There are also thermal power stations at Newport "B" and "C" (installed 198,000 kW.) which now carries a substantial portion of the base load, in addition to fulfilling its originally planned role of a peak-load station only, Richmond (installed 15,000 kW.), Geelong (installed 10,500 kW.), and Ballarat (installed 5,900 kW.), and hydro-electric stations at Sugarloaf-Rubicon (installed 26,415 kW.) and Kiewa (installed 26,000 kW.).

These power stations, together with the Melbourne City Council's station at Spencer-street (installed 43,650 kW.), are electrically inter-connected. A regional station is operated at Hamilton

(1,987 kW.).

The following extensions to new power stations are in progress or scheduled to proceed: Kiewa 263,000 kW., Yallourn 300,000 kW., Richmond 38,000 k.W., Eildon (Sugarloaf-Rubicon) 120,000 kW., Spencer-street 45,000 kW., Shepparton 10,000 kW., Warrnambool 10,000 kW., and Ballarat and Geelong 40,000 kW.

Newport "A" station, transferred from Victorian Railways Commissioners control on 21st January, 1951 (capacity 83,000 kW.),

is to be increased by 60,000 kW.

There are eight terminal stations (total kVA 436,250) and two switching stations (18,000 kVA), in addition to which there are 38 main metropolitan sub-stations (aggregating 518,750 kVA), four distribution sub-stations at line voltage (aggregating 16,500 kVA), and 6,091 metropolitan and rural sub-stations (aggregating 613,519 kVA)—grand total, 1,603,019 kVA. High and low tension lines aggregate 7,407 and 6,168 miles respectively, excluding 739 cable miles of underground cables.

The Commission retails direct in 22 of the metropolitan municipalities and bulk supply is given to 11 metropolitan municipalities for subsequent distribution. Rural centres supplied by the Commission at the 30th June, 1950, totalled 714, of which 615 had no supply previously. These figures exclude the provincial cities of Ballarat, Bendigo, and

Geelong, where the Commission also operates tramways.

The Commission also operates at Yallourn a briquette factory, the production of which in 1948–49 and 1949–50 amounted to 558,899 and 588,564 tons respectively. The plant includes eight steam presses and thirteen electric presses, with a total capacity of approximately 1,700 tons of brown coal briquettes a day. The bulk of the output is required for electricity generation. By-product electricity amounting to 101.7 and 102.3 million kWh. was generated at the briquette factory during 1948–49 and 1949–50 respectively.

At Morwell work is in progress on the establishment of an open cut and four briquette factories (capacity 2,600,000 tons of briquettes per annum), and by-product electricity (80,000 kW.) will be

available to the inter-connected system.

Gasworks.

Particulars in regard to gasworks are given below for each of the past five years.

#### VICTORIA—GASWORKS.

| enc  | ear<br>led<br>fune— | Number<br>of<br>Works. | Persons<br>Em-<br>ployed. | Wages<br>Paid. | Coal<br>Used. | Oil<br>Used. | Gas<br>Made.           | Coke<br>Produced. | Value of<br>Output. |
|------|---------------------|------------------------|---------------------------|----------------|---------------|--------------|------------------------|-------------------|---------------------|
|      |                     |                        |                           | £              | Tons.         | Gals.        | '000<br>cubic<br>feet. | Tons.             | £                   |
| 1945 |                     | 39                     | 1,107                     | 389,420        | 628,383       | 1,625,056    | 11,004,662             | 345,478           | 2,493,117           |
| 1946 |                     | 39                     | 1,253                     | 425,889        | 608,942       | 1,703,068    | 10,862,865             | 347,149           | 2,436,024           |
| 1947 |                     | 39                     | 1,230                     | 442,718        | 622,232       | 1,561,098    | 10,903,505             | 343,022           | 2,397,860           |
| 1948 |                     | 39                     | 1,337                     | 577,636        | 709,512       | 1,213,257    | 12,166,560             | 389,505           | 3,114,351           |
| 1949 | ••                  | 37                     | 1,367                     | 653,926        | 723,201       | 1,853,830    | 12,097,409             | 397,258           | 3,749,498           |

Factory output by classes.

The following table is an analysis of factory statistics designed to show the relative importance of the various classes of manufacturing in Victoria.

## VICTORIA—VALUE OF ARTICLES PRODUCED IN FACTORIES.

| Class of Industry.   |                                  | Year                             | ended 30th                       | June                             |                                   |
|--|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|
| Oless of Fidusory.   | 1945.                            | 1946.                            | 1947.                            | 1948.                            | 1949.                             |
| 1. Treatment of non-metalli-   | £                                | £                                | £                                | £                                | £                                 |
| ferous mine and quarry<br>products   | 2,624,954<br>2,176,842           | 3,315,588<br>2,718,311           | 4,471,555<br>3,163,659           | 6,018,357<br>3,826,545           | 7,465,346<br>4,624,885            |
| plosives, paint, oils,<br>and grease<br>4. Industrial metals, ma-<br>chines, implements. | 21,554,314                       | 20,260,798                       | 22,366,179                       | 26,998,327                       | 30,859,717                        |
| and conveyances<br>5. Precious metals, jewellery,  | 83,422,824                       | 77,243,145                       | 70,211,858                       | 90,004,030                       | 107,630,278                       |
| and plate  | 957,425                          | 1,349,056                        | 2,130,185                        | 3,012,805                        | 3,411,910                         |
| (not dress)  | 29,284,607                       | 29,183,535                       | 34,432,762                       | 40,969,968                       | 50,995,855                        |
| clothing or footwear)  | 5,631,579<br>28,260,412          | 6,469,308<br>28,928,234          | 9,033,530<br>34,948,122          | 9,516,197<br>41,999,675          | 10,611,061<br>51,111,398          |
| 9. Food, drink, and tobacco<br>10. Woodworking and basket                                | 70,649,023                       | 70,538,377                       | 79,646,847                       | 89,330,013                       | 101,325,811                       |
| ware<br>11. Furniture, bedding, &c.  | 9,077,021<br>2,528,483           | 9,518,189<br>3,418,440           | 11,731,942<br>4,538,526          | 15,047,370<br>5,719,557          | 18,141,132<br>6,944,467           |
| 12. Paper, stationery, printing, bookbinding, &c.  | 14,544,374                       | 15,423,419                       | 18,520,834                       | 21,388,413                       | 25,572,876                        |
| 13. Rubber 14. Musical instruments   | 5,618,711                        | 6,131,232                        | 7,098,727                        | 8,313,923                        | 9,666,834                         |
| 15. Miscellaneous products   | 32,376<br>4,572,797<br>6,486,569 | 46,238<br>5,842,021<br>6,603,517 | 56,671<br>6,662,701<br>6,423,581 | 78,600<br>7,825,674<br>7,362,571 | 136,482<br>9,077,856<br>9,261,971 |
| Total  | 287,422,311                      | 286,989,408                      | 315,437,679                      | 377,412,025                      | 446,837,879                       |

Employment in The average number of persons employed over the factories.

whole year in each class of industry is shown below.

VICTORIA—AVERAGE NUMBER OF PERSONS EMPLOYED IN FACTORIES.

|   |         | Year e  | nded 30th | June-   |         |
|---|---------|---------|-----------|---------|---------|
| Class of Industry.  | 1945.   | 1946.   | 1947.     | 1948.   | 1949.   |
| 1. Treatment of non-metalliferous mine and quarry products  | 2,025   | 2,659   | 3,467     | 4,263   | 4,658   |
| 2. Bricks, pottery, glass, &c                               | 2,644   | 3,574   | 4,091     | 4,124   | 4,351   |
| 3. Chemicals, dyes, explosives, paint, oils, and grease     | 15,207  | 11,961  | 11,363    | 11,030  | 11,180  |
| 4. Industrial metals, machines, implements, and conveyances | 97,022  | 88,421  | 83,408    | 89,771  | 94,187  |
| 5. Precious metals, jewellery, and plate                    | 1,149   | 1,602   | 2,307     | 3,029   | 3,361   |
| 6. Textiles and textile goods (not dress)                   | 29,686  | 30,215  | 31,896    | 32,745  | 34,137  |
| 7. Skins and leather (not clothing or footwear)             | 4,419   | 4,558   | 5,621     | 5,518   | 5,643   |
| 8. Clothing   | 35,899  | 38,552  | 42,847    | 44,506  | 47,335  |
| 9. Food, drink, and tobacco                                 | 33,991  | 33,811  | 35,375    | 35,708  | 36,605  |
| 10. Woodworking and basketware                              | 8,999   | 10,139  | 11,145    | 11,826  | 12,956  |
| 11. Furniture, bedding, &c                                  | 2,595   | 3,724   | 4,643     | 5,077   | 5,573   |
| 12. Paper, stationery, printing, bookbinding, &c            | 12,552  | 13,723  | 15,526    | 15,674  | 16,450  |
| 13. Rubber  | 3,231   | 3,644   | 4,024     | 4,242   | 4,490   |
| 14. Musical instruments                                     | 53      | 83      | 105       | 123     | 186     |
| 15. Miscellaneous products                                  | 5,520   | 6,570   | 6,803     | 7,320   | 7,468   |
| 16. Heat, light, and power                                  | 2,641   | 3,013   | 3,136     | 3,315   | 3,426   |
|   |         |         |           |         |         |
| Total   | 257,633 | 256,249 | 265,757   | 278,271 | 292,006 |

Particulars in the following table show that by comparison with the previous year substantial increases in the number of factories and the persons employed therein were recorded in all size groups.

# VICTORIA—FACTORIES ACCORDING TO NUMBER OF HANDS EMPLOYED.

|  | Showing         | Annu  | al Perce           | ntage 11                   | icrease o       | r Decr       | ease (Ye           | ar ende      | ed 30th         | June).         |
|--|-----------------|---|--------------------|----------------------------|-----------------|--------------|--------------------|--------------|-----------------|----------------|
| * * * *  | .               |   |                    |                            |                 | . 1          |                    |              |                 | , at .         |
|  | 1945.           | Increase.   | 1946.              | Increase.                  | 1947.           | Increase.    | 1948.              | Increase.    | 1949.           | Increase.      |
| Under 4 hands—<br>Number of—                             |                 | %   |                    | %                          |                 | %            |                    | %            |                 | %              |
| Factories<br>Employees                                   | 3,232<br>6,108  | -0.6  | $^{3,065}_{6,025}$ | $-5 \cdot 2 \\ -1 \cdot 4$ | 3,087<br>6,185  | 0·7<br>2·7   | $^{3,314}_{6,853}$ | 7·4<br>10·8  | 3,706<br>7,560  | $11.8 \\ 10.3$ |
| 4 hands— Number of— Factories Employees                  | 760<br>3,040    | $2 \cdot 0 \\ 2 \cdot 0$  | 785<br>3,140       | 3·3<br>3·3                 | 874<br>3,496    | 11·3<br>11·3 | 1,025<br>4,100     | 17·3<br>17·3 | 1,132<br>4,528  | 10·4<br>10·4   |
| 5 to 10 hands—<br>Number of—<br>Factories<br>Employees   | 2,205<br>15,404 | 5·7<br>5·5  | 2,520<br>17,632    | 14·3<br>14·5               | 2,792<br>19,087 | 10·8<br>8·3  | 2,938<br>20,236    | 5·2<br>6·0   | 3,259<br>22,505 | 10·9<br>11·2   |
| 11 to 20 hands— Number of— Factories Employees           | 1,393<br>20,552 | 5·9<br>6·2  | 1,584<br>23,521    |                            | 1,718<br>25,047 | 8·4<br>6·5   | 1,794<br>26,440    | 4·4<br>5.6   | 1,954<br>29,030 | 8·9<br>9·8     |
| 21 to 50 hands—<br>Number of—<br>Factories<br>Employees  | 1,159<br>86,796 |   | 1,287<br>40,876    |                            | 1,464<br>45,711 | 8·8<br>11·8  | 1,517<br>47,556    | 3 6<br>4 0   | 1,563<br>48,797 | 3·0<br>2·6     |
| 51 to 100 hands—<br>Number of—<br>Factories<br>Employees | 453<br>31,458   |   | 490<br>34,314      |                            | 546<br>38,112   |              | 559<br>39,462      | 2·4<br>3·5   | 583<br>40,919   | 4·3<br>3·7     |
| Over 100 hands—<br>Number of—<br>Factories<br>Employees  | 467<br>145,215  | $     \begin{array}{r}       -1.5 \\       -7.1     \end{array} $ | 464<br>132,285     | -0·7<br>-8·9               | 468<br>128,911  |              | 495<br>135,313     |              |                 |                |

Note.-Minus sign indicates decrease.

The composition of the last-mentioned group "over 100 hands" during 1948–49 was as follows:—

|                     | - |    |   |      | Numl       | ber of     |  |
|---------------------|---|----|---|------|------------|------------|--|
|                     |   |    |   |      | Factories. | Employees. |  |
|                     |   | 1. |   |      |            |            |  |
| 101 to 200 hands    |   |    |   | <br> | 281        | 38,935     |  |
| 201 to 300 hands    |   |    |   | <br> | 98         | 23,938     |  |
| 301 to 400 hands    |   |    |   | <br> | 43         | 14,782     |  |
| 401 to 500 hands    |   |    |   | <br> | 24         | 10,506     |  |
| 501 to 750 hands    |   |    |   | <br> | 34         | 19,787     |  |
| 751 to 1,000 hands  |   |    |   | <br> | 12         | 10,164     |  |
| ,001 hands and over |   |    |   | <br> | 13         | 21,922     |  |
|                     |   | ż  | • | ļ    | 505        | 140,034    |  |

# VICTORIA—PROPORTION OF FACTORIES OF DIFFERENT SIZES.

|  |     |   | P  | ercenta   | ge to T  | otal (Y   | ear end  | ed 30th   | June)-   |   |  |
|--|-----|---|--|---|--|---|--|---|--|---|--|
|  |     | 19  | 45.  | 19  | 46.  | 19  | 47.  | 19  | 48.  | 19  | 49.  |
| Size of Factor   | ·y. | Factories.  | Employees.                                       |
| Under 4 hands  4 5 to 10 ", 11 to 20 ", 21 to 50 ", 51 to 100", 101 and over |     | 33·4<br>7·9<br>22·8<br>14·4<br>12·0<br>4·7<br>4·8 | 2·4<br>1·2<br>5·9<br>7·9<br>14·2<br>12·2<br>56·2 | 30·1<br>7·7<br>24·7<br>15·5<br>12·6<br>4·8<br>4·6 | 2·3<br>1·2<br>6·9<br>9·1<br>15·9<br>13·3<br>51·3 | 28·2<br>8·0<br>25·5<br>15·7<br>13·4<br>4·9<br>4·3 | 2·3<br>1·3<br>7·2<br>9·4<br>17·2<br>14·3<br>48·3 | 28·5<br>8·8<br>25·2<br>15·4<br>13·0<br>4·8<br>4·3 | 2·5<br>1·5<br>7·2<br>9·4<br>17·0<br>14·1<br>48·3 | 29·2<br>8·9<br>25·6<br>15·4<br>12·3<br>4·6<br>4·0 | 2.6<br>1.5<br>7.7<br>9.9<br>16.6<br>14.0<br>47.7 |
| Total  |     | 100.0   | 100.0  | 100.0   | 100.0  | 100.0   | 100.0  | 100.0   | 100-0  | 100 · 0   | 100.0  |

Occupations in factories.

In the following table the persons employed in factories are grouped according to their occupational status:—

# VICTORIA—OCCUPATIONS OF PERSONS EMPLOYED IN FACTORIES.

|  |                         | Year e   | nded 30th | June—  |                  |
|--|-------------------------|--|-----------|--|------------------|
| Occupations.   | 1945.                   | 1946.  | 1947.     | 1948.  | 1949.            |
| Working proprietors No.                                |                         | 8,089  | 9,045     | 9,774  | 10,884           |
| Managers, overseers, Accountants, clerks,              | 10,145<br>19,549        | $\left.\rule{0mm}{3mm}\right\} 24,236$                       | 25,519    | 26,753   | 28,144           |
| Chemists, draftsmen, research staff, &c. No.           |                         | 3,255  | 3,027     | 3,120  | 3,322            |
| Engine-drivers, firemen ,,<br>Foremen and overseers ,, | 2,135                   | 9,439  |           | 10,972   | 11,914           |
| Workers in factory or works Outworkers                 | 214,876<br>389<br>2,316 | $\left.\begin{array}{c} 208,725 \\ 2,505 \end{array}\right.$ | ′         | $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 235,382<br>2,360 |
| Total  | 257,633                 | 256,249  | 265,757   | 278,271  | 292,006          |

Particulars relating to 1945-46, 1946-47, 1947-48, and 1948-49 have been presented in accordance with amendments adopted at the 1945 Conference of Statisticians which provided for the collection of the following types of occupation:—

- (1) Working proprietors.
- (2) Managerial and clerical staff, including salaried managers and working directors.

- (3) Chemists, draftsmen, and other laboratory and research staff.
- (4) Foremen and overseers.
- (5) Workers in factory (skilled and unskilled).
- (6) Carters (excluding delivery only), messengers, and persons working regularly at home for the establishment.

The term "outworkers" used in the preceding table relates to persons working for factories in their own homes, but does not include individuals working for themselves. The employment of outworkers is regulated by a special provision of the Factories and Shops Act. They are required to register their names and addresses with the Chief Inspector of Factories, and factory proprietors are forbidden to give work to those who are not so registered.

The average numbers of males and of females distribution in factories. employed in factories, and their proportions to the male and female populations, for each of the years, 1939-40 to 1948-49, were as follows:—

VICTORIA—EMPLOYMENT OF MALES AND FEMALES IN FACTORIES.

|                  |                | M       | ales.   | Fen     | nales.  | \ Total. |  |  |
|------------------|----------------|---------|---|---------|---|----------|--|--|
| Year I<br>30th J | Ended<br>fune— | Number. | Average<br>per 10,000<br>of Male<br>Population. | Number. | Average<br>per 10,000<br>of Female<br>Population. | Number.  | Average,<br>per 10,000<br>of Total<br>Population |  |
| 1940             |                | 143,238 | 1,533   | 69,223  | 724   | 212,461  | 1,124  |  |
| 1941             |                | 161,880 | 1,745   | 75,756  | 781   | 237,636  | 1,252  |  |
| 1942             |                | 175,691 | 1,812   | 82,709  | 840   | 258,400  | 1,322  |  |
| 1943             |                | 175,340 | 1,792   | 87,017  | 874   | 262,357  | 1,331  |  |
| 1944             |                | 175,049 | 1.780   | 86,250  | 858   | 261,299  | 1,314  |  |
| 1945             |                | 174,424 | 1,769   | 83,209  | 820   | 257,633  | 1,285  |  |
| 1946             |                | 178,951 | 1,798   | 77,298  | 758   | 256,249  | 1,271  |  |
| 1947             |                | 188,758 | 1,875   | 76,999  | 745   | 265,757  | 1,303  |  |
| 1948             |                | 199,003 | 1,957   | 79,268  | 759   | 278,271  | 1,350  |  |
| 1949             |                | 208,184 | 1,994   | 83,822  | 784   | 292,006  | 1,382  |  |

Of the total persons employed, males formed 67.4 per cent. in 1939-40 and 71.3 per cent. in 1948-49. As compared with the year 1939-40, the number of males employed increased by 64,946 or 45 per cent. and the number of females employed by 14,599 or 21 per cent.

of the total number of females in factories, 62 per cent. were engaged in the textile and clothing groups of industries, 11 per cent. in the industrial metals, machines, &c., and 12 per cent. in the preparation of food and drink. The extent of female employment in certain industries is shown in the next table:—

VICTORIA—FEMALE EMPLOYMENT IN FACTORIES, 1948-49.

| Industry.  |        |       | Number  | Employed. | Females per |
|--|--------|-------|---------|-----------|-------------|
|  |        |       | Males.  | Females.  | 100 Males.  |
| Pharmaceutical and toilet preparat   | ions   |       | 700     | 849       | 121         |
| Inks—polishes  |        |       | 335     | 225       | 67          |
| Cotton   |        |       | 1,454   | 1,413     | 97          |
| Woollen mills  |        |       | 6,772   | 5,420     | 80          |
| Hosiery and knitting   |        |       | 4,590   | 9,511     | 207         |
| Silk, natural  |        |       | 176     | 321       | 182         |
| Rayon, nylon, and other synthetic  | fibres |       | 200     | 80        | 40          |
| Rope and cordage   |        |       | 1.184   | 707       | 60          |
| Canvas goods, &c.  |        |       | 230     | 194       | 84          |
| Furriers and fur dressing  |        |       | 325     | 214       | 66          |
| Bags, trunks, &c   |        |       | 671     | 653       | 97          |
| Tailoring and ready-made clothing  |        |       | 3.059   | 7.461     | 244         |
| Clothing, waterproof   |        |       | 118     | 347       | 294         |
| Dressmaking, hemstitching  |        |       | 1,395   | 10,717    | 768         |
| Millinery  | • •    |       | 240     | 1,004     | 418         |
| Shirts, collars, underclothing   | ••     |       | 557     | 4,114     | 739         |
| Foundation garments  | ••     |       | 179     | 1.088     | 608         |
| Handkerchiefs, ties, &c  | • •    |       | 75      | 399       | 552         |
| Hats and caps  | • •    |       | 446     | 256       | 37          |
| Gloves   | • •    |       | 127     | 460       | 362         |
| T) 1 1 1   | • •    | • •   | 5,628   | 5,493     | 98          |
| D  | • •    | • •   | 125     | 179       | 143         |
| Umbrellas and walking sticks   | • •    | • •   | 19      | 45        | 237         |
|  | • •    | • •   | 1.585   | 1.256     | 79          |
| 0 10 10  | • •    | • •   | 830     | 474       | 57          |
| The state of the s | • •    | • •   | 589     | 666       | 113         |
|  | • •    | • • • |         | 1         | 116         |
| Confectionery  | • •    | ٠.    | 1,397   | 1,619     | 64          |
| Jams, fruit, and vegetable canning   |        | • •   | 2,387   | 1,534     | 64          |
| Pickles, sauces, vinegar   | • •    | • • • | 420     | 268       | 52          |
| Meat and fish preserving, &c.  | • •    |       | 774     | 404       |             |
| Condiments, coffee, spices   | • •    |       | 837     | 692       | 83          |
| Tobacco, cigarettes, &c  | • •    |       | 989     | 1,126     | 114         |
| Ice cream  |        |       | 257     | 156       | 61          |
| Bedding mattresses (not wire)  |        |       | 345     | 229       | 66          |
| Furnishing, drapery  | • .•   |       | 162     | 262       | 162         |
| Stationery, manufactured   | • •    |       | 570     | 565       | 99          |
| Cardboard boxes, cartons   |        |       | 838     | 784       | 94          |
| Paper bags   |        |       | 166     | 223       | 134         |
| Photographic material  |        |       | 660     | 675       | 102         |
| Artificial flowers   |        |       | 33      | 221       | 670         |
| All other factories  | • •    | • •   | 166,740 | 21,518    | 13          |
| Total  | ••     |       | 208,184 | 83,822    | 40          |

Child labour in factories. The main reason for the small proportion of children engaged in factories is that daily attendance at school is compulsory between the ages of 6 and 14 years.

Another reason is the restriction imposed by the Victorian Factories Act on the employment of female children under the age of 15 years unless a special permit is granted by the Chief Inspector of Factories on the grounds of poverty or hardship.

VICTORIA-FACTORY EMPLOYMENT-AGE GROUPS.

|                  |                       | Ma                              | ıles.                       | }               |                       | F                               | emales.                     |                  |
|------------------|-----------------------|---------------------------------|-----------------------------|-----------------|-----------------------|---------------------------------|-----------------------------|------------------|
| Date.            | Under<br>16<br>Years. | 16 and<br>Under<br>21<br>Years. | 21<br>Years<br>and<br>Over. | Total<br>Males. | Under<br>16<br>Years. | 16 and<br>Under<br>21<br>Years. | 21<br>Years<br>and<br>Over. | Total<br>Females |
| une 15th, 1940   | 6,060                 | 27,150                          | 105,978                     | 139,188         | 5,276                 | 23,153                          | 40,531                      | 68,960           |
| ,, ,, 1941       | 5,775                 | 27,248                          | 130,919                     | 163,942         | 4,664                 | 23,238                          | 49,776                      | 77,678           |
| ,, ,, 1942       | 5,458                 | 20,039                          | 141,481                     | 166,978         | 3,754                 | 20,900                          | 58,051                      | 82,705           |
| ,, ,, 1943       | 5,251                 | 19,407                          | 143,826                     | 168,484         | 3,477                 | 20,224                          | 62,422                      | 86,123           |
| ,, ,, 1944       | 5,031                 | 19,928                          | 141,943                     | 166,902         | 3,731                 | 19,274                          | 59,389                      | 82,394           |
| ,, ,, 1945       | 4,607                 | 20,379                          | 142,117                     | 167,103         | 3,609                 | 18,473                          | 58,195                      | 80,277           |
| ,, ,, 1946       | 3,449                 | 20,836                          | 155,504                     | 179,789         | 3,007                 | 17,568                          | 54,630                      | 75,205           |
| ,, ,, 1947       | 2,938                 | 20,091                          | 161,232                     | 184,261         | 2,801                 | 16,943                          | 56,824                      | 76,568           |
| ,, ,, 1948       | 2,743                 | 18,851                          | 171,096                     | 192,690         | 2,564                 | 16,627                          | 59,915                      | 79,106           |
| ,, ,, 1949       | 2,806                 | 18,305                          | 179,039                     | 200,150         | 2,354                 | 16,374                          | 65,245                      | 83,97            |
|                  |                       |                                 |                             | centage—        |                       |                                 |                             |                  |
|                  | To To                 | tal Males                       | Employed                    |                 | To Tota               | l Females                       | Employee                    | ι.               |
| une 15th, 1940   | 4.35                  | 19.51                           | 76.14                       | 100.00          | 7.65                  | 33.58                           | 58.77                       | 100.0            |
| " " <b>1</b> 941 | 3 · 52                | 16.62                           | 79 · 86                     | 100.00          | 6.00                  | 29 · 92                         | 64.08                       | 100.0            |
| ,, ,, 1942       | 3.27                  | 12.00                           | 84.73                       | 100.00          | 4.54                  | 25.27                           | 70.19                       | 100.0            |
| ,, ,, 1943       | 3 · 12                | 11.52                           | 85.36                       | 100.00          | 4.04                  | 23 · 48                         | 72.48                       | 100.0            |
| ,, ,, 1944       | 3.01                  | 11.94                           | 85 · 05                     | 100.00          | 4.53                  | 23.39                           | 72.08                       | 100.0            |
| ,, ,, 1945       | 2.76                  | 12.20                           | 85 · 04                     | 100.00          | 4.50                  | 23.01                           | . 72.49                     | 100.0            |
| ,, ,, 1946       | 1.92                  | 11.59                           | 86.49                       | 100.00          | 4.00                  | 23 · 36                         | 72 · 64                     | 100.0            |
| ,, ,, 1947       | 1.60                  | 10.90                           | 87.50                       | 100-00          | 3 · 66                | 22 · 13                         | 74.21                       | 100.0            |
| ,, ,, 1948       | 1.42                  | 9.78                            | 88.80                       | 100.00          | 3.24                  | 21.02                           | $75 \cdot 74$               | 100.0            |
| ,, ,, 1949       | 1.40                  | 9.15                            | 89.45                       | 100.00          | 2.80                  | 19.50                           | 77.70                       | 100.0            |

In the following tables are shown the number of factories using mechanical power, and the value of the machinery and plant for each of the ten years, 1939–40 to 1948–49. The value recorded is the depreciated value or book value less any existing depreciation reserve.

|  | -MACHINERY |  |
|--|------------|--|
|  |            |  |

| Year ended 30th June. |  | Number of Factories Equipped with Power-driven Machinery. | Rated<br>Horse-power<br>Used. * | Value of<br>Machinery an<br>Plant. |            |
|-----------------------|--|---|---------------------------------|------------------------------------|------------|
|                       |  |   |                                 |                                    | £          |
| 1940                  |  |   | 8,741                           | 997,768                            | 40,849,523 |
| 1941                  |  |   | 8,678                           | 1,063,200                          | 44,985,756 |
| 1942                  |  |   | 8,527                           | 1,167,102                          | 48,065,805 |
| 1943                  |  |   | 8,426                           | 1,209,668                          | 51,963,258 |
| 1944                  |  |   | 8,988                           | 1,282,764                          | 55,457,719 |
| 1945                  |  |   | 9,318                           | 1,337,871                          | 58,571,064 |
| 1946                  |  |   | 9,851                           | 1,413,958                          | 58,537,394 |
| 1947                  |  |   | 10,563                          | 1,438,472                          | 59,124,802 |
| 1948                  |  |   | 11,270                          | 1,543,848                          | 65,829,201 |
| 1949                  |  |   | 12,367                          | 1,617,088                          | 76,079,598 |

<sup>\*</sup> See paragraph below relating to Horse-power.

The nature of the motive power used in the factories of the State is set out in the next table. Establishments using more than one kind of mechanical power are included once only in the table, usually under the power which is principally used.

#### VICTORIA—NATURE OF POWER USED IN FACTORIES.

| Voor er               | nded 30th J | 11Do- | Number | of Factor | ries with Engir | nes Operat | ed by— | Manual  |
|-----------------------|-------------|-------|--------|-----------|-----------------|------------|--------|---------|
| Tear ended Soul Suite |             |       | Steam. | Gas.      | Electricity.    | Oil.       | Water. | Labour, |
| 1940                  |             |       | 325    | 112       | 7,861           | 437        | 6      | 474     |
| 1941                  | • •         |       | 300    | 101       | 7,863           | 407        | 7      | 443     |
| 1942                  |             |       | 280    | 91        | 7,770           | 382        | 4      | 391     |
| 1943                  |             |       | 263    | 73        | 7,726           | 358        | 6      | 312     |
| 1944                  |             |       | 247    | 62        | 8,296           | 378        | 5      | 329     |
| 1945                  |             |       | 231    | 59        | 8,651           | 370        | 7      | 351     |
| 1946                  | • •         |       | 210    | 59        | 9,175           | 396        | 11     | 344     |
| 1947                  |             |       | 211    | 41        | 9,897           | 405        | 9      | 386     |
| 1948                  |             |       | 215    | 38        | 10,550          | <b>462</b> | 5      | 372     |
| 1949                  |             |       | 216    | 34        | 11,609          | 504        | 4      | 335     |

The difficulty of obtaining an accurate measure of average horse-power of engines used in factories has been pointed out in previous issues of the *Year-Book*. In 1937 Australian Statisticians decided to discard the "average" as a measure of horse-power and to substitute the "rated" horse-power of engines (a) ordinarily in use, and (b) in reserve or idle.

### VICTORIA—HORSE-POWER OF ENGINES IN FACTORIES, 1948-49.

| Class  | of E   | ngine.   | Electric<br>Generating<br>Stations<br>(Maximum<br>Load). | Other<br>Factories. | Total.  |                   |                   |
|--|--------|----------|--|---------------------|---------|-------------------|-------------------|
| iteam—   |        |          |  |                     | H.P.    | H.P.              | н.р.              |
| Reciprocating  |        |          |  |                     | 605     | 24.504            | 25,109            |
| Turbine  |        |          |  |                     | 677,617 | 31,962            | 709,579           |
| nternal Combustion—  |        |          |  |                     |         | · /               |                   |
| Gas  |        |          |  |                     | 1,014   | 2,521             | 3,535             |
| Petrol or other light  | oils   |          |  |                     | 115     | 8,279             | 8,394             |
| Heavy oils   |        |          |  |                     | 12,981  | 12,309            | 25,290            |
| Water .  |        |          |  |                     | 72,173  | 1,172             | 73,345            |
| Total  | l      |          |  |                     | 764,505 | 80,747            | 845,252           |
| Electric motors driven  (a) Electricity genera  (b) Purchased electric | ted in | own work | s  |                     | 27,793  | 33,961<br>710,082 | 61,754<br>710,082 |

Reserve or idle horse-power capacity amounted to 111,097, exclusive of that in generating stations.

Wages in Factories. The total amount and the average amount of salaries and wages paid to persons employed in factories are given in the following table for each of the past ten years.

### VICTORIA—SALARIES AND WAGES PAID IN FACTORIES.

| Year<br>ended<br>30th | Working     | rings by Proprietors ng Profits). |            | Paid to<br>and Clerks. | Wages Paid<br>Factory | to all other<br>Workers. | Total<br>Salaries<br>and Wage |  |
|-----------------------|-------------|-----------------------------------|------------|------------------------|-----------------------|--------------------------|-------------------------------|--|
| June.                 | Males.      | Females.                          | Males.     | Females.               | Males.                | Females.                 | Paid.                         |  |
|                       |             |                                   | Aggregate  | Amounts.               |                       |                          |                               |  |
|                       | £           | £                                 | £          | £ .                    | £                     | £                        | £                             |  |
| 40 .                  | 0 005 990   |                                   | 4,682,728  | 876,390                | 27,117,013            | 6,900,162                | 41,920,726                    |  |
| 41 .                  | 0 050 400   |                                   | 5,590,750  | 1,076,741              | 34,798,321            | 8,330,795                |                               |  |
| 42 .                  | 0 000 001   |                                   | 6,728,962  | 1,410,398              | 45,451,222            | 10,772,695               | 67,158,61                     |  |
| 43 .                  | . 2,827,086 | 170,772                           | 7,760,216  | 1,959,005              | 50,329,054            | 12,986,978               | 76,033,11                     |  |
| 44 .                  |             | 209,894                           | 8,584,082  | 2,295,621              | 50,026,632            |                          |                               |  |
| 45 .                  | 3,417,682   | 248,642                           | 8,878,188  | 2,342,123              | 47,237,597            |                          |                               |  |
| 46 .                  | *           | *                                 | 8,415,206  | 2,157,676              | 48,357,567            |                          |                               |  |
| 47 .                  | *           | *                                 | 9,492,106  | 2,224,201              | 53,543,120            |                          |                               |  |
| 48 .                  | .   *       | *                                 | 10,876,982 | 2,627,096              | 65,435,234            |                          |                               |  |
| 49 .                  | .   *       | *                                 | 12,714,268 | 3,063,591              | 78,050,654            | 18,581,927               | .112,410,44                   |  |
|                       | 1           |                                   | Average .  |                        |                       |                          |                               |  |
|                       |             | t. £ $s$ . $d$ .                  |            |                        |                       |                          |                               |  |
| 40 .                  |             | 6 189 4 10                        |            |                        |                       |                          |                               |  |
| 41 .                  |             | 6 202 4 6                         |            |                        |                       |                          |                               |  |
| 42 .                  |             | 0 224 19 9                        |            |                        |                       |                          |                               |  |
| 43 .                  |             | 9 253 7 5                         |            |                        |                       |                          |                               |  |
| 44 .                  |             | 1 277 5 5                         |            |                        |                       |                          |                               |  |
| 45 .                  | . 460 01    | 1 313 3 0                         |            |                        |                       |                          |                               |  |
| 46 .                  |             | • • •                             | 495 13 1   |                        |                       |                          |                               |  |
| 47 .                  | .           |                                   | 520 9 9    |                        | 330 0 10              |                          |                               |  |
| 48 .                  | .           |                                   | 562 16 4   |                        |                       |                          |                               |  |
| . 949                 | . !         |                                   | 623 9 3    | 276 13 5               | 438 17 2              | 258 15 7                 | 399 17                        |  |

<sup>\*</sup> From 1945-46 inclusive, particulars of drawings of working proprietors have not been included in the collection form and the average annual salaries and wages paid have been computed exclusive of the number of working proprietors and the drawings made by them.
† From 1945-46 inclusive salaries paid to chemists, draftsmen and research staff are included.
‡ From 1945-46 inclusive wages paid to foremen and overseers are included.

The average annual earnings of all employees (excluding working proprietors) increased by £50 10s. 1d. in 1948-49.

Cost and value of production and the value of the output in each class of manufacturing industry during the year 1948–49 are given in the subjoined statement:—

VICTORIA-FACTORY COSTS AND OUTPUT, 1948-49.

|     |  |  | Cost                                  | of—                            |   |                     |
|-----|--|--|---------------------------------------|--------------------------------|---|---------------------|
|     | Class of Industry.                                       | Raw<br>Materials<br>Used<br>(including<br>Containers). | Fuel,<br>Light, and<br>Power<br>Used. | Salaries<br>and Wages<br>Paid. | Tools Replaced, Repairs to Plant, Oil and Water Used. | Value of<br>Output. |
|     |  | 1.   | 2.                                    | 3.                             | 4.  | 5.                  |
| 1.  | Treatment of non-metalli-<br>ferous mine and quarry      | £  | £                                     | £                              | £   | £                   |
|     | products   | 3,107,468  | 498,600                               | 1,923,600                      | 265,378   | 7,465,346           |
| 2.  | Bricks, pottery, glass, &c.                              | 1,049,471  | 654,420                               | 1,780,162                      | 515,677   | 4,624,885           |
| 3.  | Chemicals, dyes, explosives, paint, oils, and grease     | 18,430,066   | 697,272                               | 4,804,875                      | 600,467   | 30,859,717          |
| 4.  | Industrial metals, machines, implements, and conveyances | 46,662,121   | 1,538,372                             | 39,848,562                     | 2,354,457   | 107,630,278         |
| 5.  | Precious metals, jewellery, and plate                    | 1,497,483  | 42,642                                | 1,307,300                      | 51,155  | 3,411,910           |
| 6.  | Textiles and textile goods (not dress)                   | 30,028,855   | 834,751                               | 11,808,987                     | 1,113,142   | 50,995,855          |
| 7.  | Skins and leather (not clothing or footwear)             | 6,351,561  | 202,565                               | 2,336,118                      | 228,879   | 10,611,061          |
| .8. | Clothing   | 27,437,958   | 372,634                               | 14,306,071                     | 491,707   | 51,111,398          |
| 9.  | Food, drink, and tobacco-                                | 71,743,175   | 1,922,670                             | 14,261,146                     | 1,402,611   | 101,325,811         |
| 10. | Woodworking and basket-<br>ware                          | 9,624,340  | 196,121                               | 4,839,992                      | 403,065   | 18,141,132          |
| 11. | Furniture, bedding, &c                                   | 3,625,153  | 35,166                                | 1,837,766                      | 66,384  | 6,944,467           |
| 12. | Paper, stationery, printing, bookbinding, &c.            | 12,609,354   | 542,895                               | 6,591,211                      | 488,057   | 25,572,876          |
| 13. | Rubber   | 5,487,179  | 335,907                               | 2,142,948                      | 309,690   | 9,666,834           |
| 14. | Musical instruments                                      | 36,897   | 1,242                                 | 71,085                         | 2,609   | 136,482             |
| 15. | Miscellaneous products                                   | 4,387,267  | 140,015                               | 2,675,231                      | 175,725   | 9,077,856           |
| 16. | Heat, light, and power                                   | 2,407,820  | 2,596,786                             | 1,875,386                      | 510,274   | 9,261,971           |
|     | Total  | 244,486,168  | 10,612,058                            | 112,410,440                    | 8,979,277   | 446,837,879         |

The difference between the sum of the first four columns and the last column in the preceding table represents the amount available for taxation, depreciation, interest, rent, insurance, &c., and funds available for profit. The proportions which this margin and the chief items of the specified costs of production bear to the total value of production in each class of industry are shown in the following table:—

VICTORIA—PROPORTIONATE VALUE OF COSTS, ETC., TO PRODUCTION IN FACTORIES, 1948-49.

|     |  | Percenta                                       | age of Costs                     | s, &c., to To             | tal Value of  | Output.  |
|-----|--|--|----------------------------------|---------------------------|---|--|
|     | Class of Industry,   | Materials<br>Used,<br>Including<br>Containers. | Fuel,<br>Light,<br>and<br>Power. | Salaries<br>and<br>Wages. | Tools Replaced, Repairs to Plant, Oil and Water Used. | All Other<br>Expendi-<br>ture,<br>Interest,<br>and Profit. |
| 1.  | Treatment of non-metalli-<br>ferous mine and quarry            | %  | %                                | %                         | %   | %  |
|     | products   | 41 - 6   | $6 \cdot 7$                      | 25.8                      | 3.5   | 22 · 4   |
| 2.  | Bricks, pottery, glass, &c.                                    | 22 · 7   | ${\bf 14\cdot 1}$                | 38.5                      | 11.2  | 13.5   |
| 3.  | Chemicals, dyes, explosives, paint, oils, and grease           | 59.7   | $2 \cdot 3$                      | 15.6                      | 1.9   | 20.5   |
| 4.  | Industrial metals,<br>machines, implements,<br>and conveyances | 43.4   | 1.4                              | 37.0                      | 2.2   | 16.0   |
| 5.  | Precious metals, jewellery, and plate                          | 43.9   | $1 \cdot 3$                      | 38.3                      | 1.5   | 15.0   |
| 6.  | Textiles and textile goods (not dress)                         | 58-9   | . 1 · 6                          | 23 · 2                    | 2 2   | 14-1   |
| 7.  | Skins and leather (not clothing or footwear).                  | 59.8   | 1 9                              | 22.0                      | 2 · 2   | 14.1   |
| 8.  | Clothing   | 53 · 7   | .7                               | 28.0                      | 1.0   | 16-6   |
| 9.  | Food, drink, and tobacco                                       | 70.8   | $1 \cdot 9$                      | 14.1                      | - 1.4   | 11.8   |
| 10. | Woodworking and basket-<br>ware                                | 53.0   | 1.1                              | 26.7                      | 2.2   | 17.0   |
| 11. | Furniture, bedding, &c   | 52 · 2   | .5                               | 26.5                      | .9  | 19.9   |
| 12. | Paper, stationery, printing, bookbinding, &c                   | 49.3   | 2 · 1                            | 25.8                      | 1.9   | 20.9   |
| 13. | Rubber   | 56.7   | $3 \cdot 5$                      | 22.2                      | 3 · 2   | 14.4   |
| 14. | Musical instruments  | 27.0   | .9                               | 52 · 1                    | 1.9   | 18.1   |
| 15. | Miscellaneous products   | 48.3   | 1.6                              | 29.5                      | 1.9   | 18.7   |
| 16. | Heat, light, and power   | 26.0   | 28.0                             | 20.2                      | 5.5   | 20.3   |
|     | Total  | 54.7   | 2 · 4                            | 25 · 1                    | . 2.0   | 15.8   |

There are considerable variations in the proportions which the cost of materials and the expenditure on wages bear to the value of the output in the different classes of industries. These are, of course, due to the difference in the treatment required to convert the raw material to its manufactured form. Thus, in class two, the sum paid in wages represents 38.5 per cent. and the cost of raw materials 22.7 per cent. of the value of the finished article, whilst, in class nine, the expenditure on wages amounts to 14.1 per cent. and that on raw materials to 70.8 per cent. of the value of the output.

In the next table the cost of production, the value of the output of factories, and the balance available for profit and miscellaneous expenses are compared for each of the years 1939-40 to 1948-49.

VICTORIA—COSTS OF PRODUCTION, ETC., AND VALUE OF OUTPUT OF FACTORIES.

|                          |   | Spe                                    | ecified Costs                    | of Production             | n.   |                         | ,                            |
|--------------------------|---|--|----------------------------------|---------------------------|--|-------------------------|------------------------------|
| Year ended<br>30th June— |   | Materials,<br>Including<br>Containers. | Fuel,<br>Light,<br>and<br>Power. | Salaries<br>and<br>Wages. | Tools<br>Replaced,<br>Repairs to<br>Plant, Oil<br>and Water<br>Used. | All other<br>Costs, &c. | Total<br>Value of<br>Output. |
|                          |   | £                                      | £                                | £                         | £  | £                       | £                            |
| 1940                     | . | 93,390,751                             | 3,920,967                        | 41,920,726                | 2,962,196  | 32,109,761              | 174,304,401                  |
| 1941                     |   | 112,024,332                            | 4,622,042                        | 52,294,673                | 3,701,760  | 36,706,038              | 209,348,845                  |
| 1942                     |   | 136,058,136                            | 5,560,913                        | 67,158,613                | 4,724,417  | 43,779,001              | 257,281,080                  |
| 1943                     |   | 144,778,354                            | 5,955,767                        | 76,033,111                | 5,565,072  | 45,346,636              | 277,678,940                  |
| 1944                     |   | 149,189,244                            | 6,177,388                        | 77,400,688                | 5,950,764  | 45,929,830              | 284,647,914                  |
| 1945                     |   | 152,761,198                            | 6,298,860                        | 74,227,245                | 5,984,946  | 48,150,062              | 287,422,311                  |
| 1946                     |   | 154,224,950                            | 6,305,727                        | 70,499,214                | 6,208,244  | 49,751,273              | 286,989,408                  |
| 1947                     |   | 170,223,745                            | 7,201,406                        | 77,993,765                | 6,516,378  | 53,502,385              | 315,437,679                  |
| 1948                     | . | 203,121,836                            | 8,339,792                        | 93,802,188                | 7,449,377  | 64,698,832              | 377,412,025                  |
| 1949                     |   | 244,486,168                            | 10,612,058                       | 112,410,440               | 8,979,277  | 70,349,936              | 446,837,879                  |

<sup>\*</sup> Includes all expenditure not specified on collection form, viz., taxation, depreciation, interest, rent, insurance, &c., and funds available for profit.

These figures are reduced in the succeeding statement to their respective percentages of the total output.

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VICTORIA-PROPORTION OF OUTLAY TO OUTPUT OF FACTORIES.

|                          |   |  | Proportion of Outlay to Output.  |                           |   |  |        |         |  |  |
|--------------------------|---|--|----------------------------------|---------------------------|---|--|--------|---------|--|--|
| Year ended<br>30th June— |   | Materials,<br>Including<br>Containers. | Fuel,<br>Light,<br>and<br>Power. | Salaries<br>and<br>Wages. | Tools Replaced, Repairs to Plant, Oil and Water Used. | Other<br>Expendi-<br>ture,<br>Interest,<br>and Profit. | Total. |         |  |  |
|                          |   |  | %                                | %                         | %   | %  | %      | %       |  |  |
| 940                      |   |  | 53.6                             | $2 \cdot 2$               | 24 1  | 1.7  | 18.4   | 100 ·   |  |  |
| 941                      |   |  | 53.5                             | $2 \cdot 2$               | 25.0  | 1.8  | 17.5   | 100 · 0 |  |  |
| 942                      |   |  | 52.9                             | $2 \cdot 2$               | 26.1  | 1.8  | 17.0   | 100     |  |  |
| 943                      |   |  | 52.1                             | $2 \cdot 2$               | 27.4  | 2.0  | 16.3   | 100.0   |  |  |
| 944                      |   |  | 52.4                             | $2 \cdot 2$               | 27.2  | $2 \cdot 1$  | 16.1   | 100     |  |  |
| 945 -                    | ٠ |  | 53.1                             | $2 \cdot 2$               | 25.8  | $2 \cdot 1$  | 16.8   | 100     |  |  |
| 946                      |   |  | 53.7                             | $2 \cdot 2$               | 24.6  | $2 \cdot 2$  | 17.3   | 100     |  |  |
| 947                      |   |  | 54.0                             | 2.3                       | 24.7  | 2.1  | 16.9   | 100 ·   |  |  |
| 948                      |   |  | 53.8                             | $2 \cdot 2$               | 24.9  | 2.0  | 17.1   | 100.    |  |  |
| 949                      |   |  | 54.7                             | 2.4                       | 25 · 1  | 2.0  | 15.8   | 100     |  |  |

The ratio of cost of materials to the value of the output of factories was 53.9 per cent. on the average of the last five years, as against 52.8 per cent. in the period 1939-40 to 1943-44. The ratio of salaries and wages to output averaged 25.0 per cent. over the last five years, as against 26.2 per cent. over the period 1939-40 to 1943-44. The proportionate outlay on fuel, light, and power was 2.3 per cent. as against 2.2. in the earlier period. After allocating the proportion for repairs to plant and buildings, replacement of tools, and costs of lubricating oil and of water, the balance available for miscellaneous expenses, rent, interest, and manufacturers' profit was £16 14s. 3d. in every £100 of the total output value in the period 1944-45 to 1948-49, as compared with £16 18s. 10d. in the preceding five-year period

In 1948-49 wages and salaries took 61.5 per cent. of the value added in manufacturing (see page 558), leaving 38.5 per cent. for the payment of expenses not specified above (taxation, depreciation, interest, rent, insurance, &c.), and funds available for profits.

In the following statement the amount of capital invested in machinery, plant, land, and buildings used in connexion with the various classes of manufacturing industries is shown for the year 1948-49.

# VICTORIA—VALUE OF MACHINERY AND PLANT, LAND AND BUILDINGS, 1948-49.

| Class of Industry.  | Value of<br>Land and<br>Buildings. | Value of<br>Machinery<br>and Plant. |
|---|------------------------------------|-------------------------------------|
|   | £                                  | £                                   |
| 1. Treatment of non-metalliferous mine and quarry products  | 1,349,941                          | 1,863,102                           |
| 2. Bricks, pottery, glass, &c.                              | 930,785                            | 991,032                             |
| 3. Chemicals, dyes, explosives, paint, oils, and grease     | 5,896,837                          | 6,217,963                           |
| 4. Industrial metals, machines, implements, and conveyances | 22,175,677                         | 19,769,274                          |
| 5. Precious metals, jewellery, and plate                    | 726,139                            | 413,456                             |
| 3. Textiles and textile goods (not dress)                   | 6.111,119                          | 6,211,663                           |
| 7. Skins and leather (not clothing or footwear)             | 1.516,013                          | 777,596                             |
| B. Clothing   | 6.881.482                          | 2,814,436                           |
| 9. Food, drink, and tobacco                                 | 13,758,133                         | 10,533,671                          |
| ). Woodworking and basketware                               | 2,244,651                          | 2,069,057                           |
| I. Furniture, bedding, &c                                   | 1,427,689                          | 399,691                             |
| 2. Paper, stationery, printing, bookbinding, &c             | 4,607,143                          | 4,144,683                           |
| B. Rubber   | 1,016,931                          | 1,051,083                           |
| 4. Musical instruments                                      | 56,797                             | 17,365                              |
| 5. Miscellaneous products                                   | 1,506,776                          | 1,199,342                           |
| 3. Heat, light, and power                                   | 3,177,671                          | 17,606,184                          |
| Total   | 73,383,784                         | 76,079,598                          |

The capital invested in plant, buildings, &c., used in connexion with three classes of industry—food and drink, industrial metals, &c., and heat, light, and power—amounted, in the year under review to £87,020,610, approximately 60 per cent. of the total for all manufacturing industries.

The values of machinery and plant and of land and buildings used in connexion with manufacturing industries and the value of depreciation allowed thereon are shown in the next table for the years 1944-45 to 1948-49. The value recorded is the depreciated value or the book value less any existing depreciation reserve.

VICTORIA—VALUE OF MACHINERY AND PLANT, LAND AND BUILDINGS, AND DEPRECIATION.

|      |           |           |   | Land and B                  | uildings.                                       | ngs. Machinery and          |                                   |  |
|------|-----------|-----------|---|-----------------------------|---|-----------------------------|-----------------------------------|--|
| Ye   | ear ended | 30th June | · | Value<br>at end of<br>Year. | Depre-<br>ciation<br>allowed<br>during<br>Year. | Value<br>at end of<br>Year. | Depreciation allowed during Year. |  |
|      |           |           | ! | £                           | £   | £                           | ı£.                               |  |
| 1945 |           |           |   | 57,808,861                  | 768,690   | 58,571,064                  | 4,674,06                          |  |
| 1946 |           |           |   | 60,264,953                  | 719,383   | 58,537,394                  | 4,156,92                          |  |
| 1947 |           |           |   | 62,752,468                  | 748,102   | 59,124,802                  | 4,634,213                         |  |
| 1948 |           |           |   | 66,229,391                  | 659,998   | 65,829,201                  | 5,213,58                          |  |
| 1949 |           |           |   | 73,383,784                  | 734,956   | 76,079,598                  | 6,764,23                          |  |

Accidents in factories. In the appended table the number of accidents in factories is given for the past ten years. The particulars in the table relate to establishments which came within the scope of the Factories Acts in force in the years specified.

| VICTORIA.         | ACCIDENTS   | TN    | FACTORIES. |
|-------------------|-------------|-------|------------|
| - V 10 10 10 10 A | ·AUALIDONIA | 1 I N | PAULUMINA. |

|      | <br>Year. |   |   | Number of<br>Employees. | Number of Accidents. | Percentage of<br>Accidents to<br>Number of<br>Employees. |
|------|-----------|---|---|-------------------------|----------------------|--|
| 1940 |           |   |   | 196,263                 | 3,534                | 1.801  |
| 1941 | <br>      |   |   | 224,347                 | 5,592                | $2 \cdot 493$  |
| 1942 | <br>      |   |   | 215,456                 | 6,347                | $2 \cdot 946$  |
| 1943 | <br>      |   |   | 227,407                 | 7,828                | $3 \cdot 442$  |
| 1944 | <br>      | • |   | 229,397                 | 7,235                | 3.154  |
| 1945 | <br>      |   |   | 231,984                 | 6,116                | 2.636  |
| 1946 | <br>      |   | [ | 241,705                 | 6,387                | $2 \cdot 642$  |
| 1947 | <br>      |   |   | 256,867                 | 7,104                | 2.766  |
| 1948 | <br>      |   |   | 275,365                 | 6,659                | 2.416  |
| 1949 | <br>      |   |   | 292,667                 | 5,956                | $2 \cdot 035$  |

The foregoing tables do not include particulars relating Manufacturesto work of various kinds done at the Pentridge Penal Penal Department Establishment and at the Royal Victorian Institute for and Rlind Institute. the Blind. At the former establishment the manufacture and process treatment in relation to the following industries are on:-Wire netting, textile, tailoring, clothing, footwear, brushware, coir-matting, wood and metal working, knitting, printing, bookbinding, and photography. The estimated value of the output for 1948-49 was £74,562 and, of the materials used, £50,927. articles produced are used principally by Government Departments. The work carried on by the latter establishment is the manufacture of brushware, brooms, basketware, mats, and matting, employment to 126 persons (113 males and 13 females). value of the articles produced for the nine months ending 30th June, 1949, was £ $64.56\tilde{7}$ .

Factory Statistics by in Victoria are located within the Metropolitan area, municipalities. some of the municipalities outside Greater Melbourne also have important manufacturing industries.

The following table gives factory statistics for the Metropolitan and for the more important extra-metropolitan municipalities for the year 1948-49.

## VICTORIA—FACTORY STATISTICS BY MUNICIPALITIES, 1948-49.

|   |  | Persons 1  | Employed.  | Salaries  | Value of  | Value of   | Value of<br>Materials  | Value of<br>Articles   |
|---|--|--|--|---|---|--|--|--|
| Municipality.   | Number of<br>Factories.  | Males.   | Females.   | and<br>Wages<br>Paid.   | Land and<br>Buildings.  | Plant and<br>Machinery.  | Used<br>(including<br>Containers).   | Produced<br>or<br>Work Done  |
|   |  | No.  | No.  | £   | £   | £  | £  | £  |
| Melbourne Brunswick Essendon Coburg Proston Northcote Fitzroy Collingwood Kew Camberwell Hawthorn Richmond Prahran Malvern Caulfield Oakleigh Sandringham Brighton St. Kilda Stouth Melbourne Footscray Williamstown Bray brook Heidelberg Box Hill Moorabbin Moorabbin Moorabbin Moorabbin Mordialloc Chelsea Numawading Ringwood Other Municipalities | 533<br>216<br>169<br>204<br>198<br>449<br>528<br>57<br>182<br>222<br>436<br>437<br>205<br>263<br>92<br>70<br>127<br>190<br>538<br>127<br>275<br>118<br>108<br>110<br>67<br>101<br>57<br>24<br>57 | 36,759<br>8,038<br>2,691<br>2,432<br>3,124<br>1,806<br>7,295<br>12,389<br>1,162<br>1,954<br>4,366<br>1,716<br>1,267<br>1,304<br>602<br>1,226<br>1,175<br>16,771<br>11,457<br>12,481<br>8,668<br>8,396<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,759<br>1,7 | 22,945 5,175 5,95 1,470 783 726 4,110 7,349 138 922 1,251 5,391 2,937 703 658 304 337 497 616 4,042 1,774 2,957 805 1,295 4448 191 878 332 77 173 191 52 | $\begin{array}{c} 22,218,125\\ 4,765,387\\ 1,207,443\\ 1,466,690\\ 1,461,206\\ 877,651\\ 4,143,299\\ 7,511,510\\ 91,449\\ 1,124,421\\ 7,125,417\\ 2,526,876\\ 849,932\\ 583,847\\ 597,463\\ 297,599\\ 640,648\\ 585,841\\ 587,463\\ 297,593\\ 44,6364\\ 6,284,646\\ 6,284,646\\ 6,284,814\\ 4,297,473\\ 4,476,572\\ 349,630\\ 991,922\\ 333,479\\ 81,955\\ 331,760\\ 110,116\\ 186,002\\ \end{array}$ | 15,354,518<br>2,493,392<br>661,817<br>1,059,822<br>519,854<br>2,365,139<br>3,202,195<br>440,882<br>826,732<br>4,023,268<br>1,618,351<br>485,327<br>408,498<br>217,294<br>406,470<br>472,520<br>4,992,671<br>3,143,800<br>4,313,937<br>3,526,595<br>4,990,493<br>253,657<br>573,195<br>176,543<br>54,596<br>208,132<br>79,865<br>132,884 | 10,418,911<br>1,981,751<br>391,218<br>548,132<br>586,253<br>355,257<br>1,732,720<br>2,780,878<br>287,967<br>552,851<br>3,082,612<br>461,691<br>263,325<br>377,671<br>108,219<br>425,381<br>229,738<br>3,721,779<br>3,329,759<br>6,368,111<br>6,168,406<br>5,724,876<br>3,721,779<br>3,329,759<br>16,168,406<br>5,724,876<br>3,721,779<br>3,329,759<br>16,168,406<br>5,724,876<br>3,721,779<br>3,329,759<br>16,168,406<br>5,724,876<br>3,104,313<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043,913<br>1,043, | 47,920,665 9,446,300 2,036,035 2,844,846 2,794,530 1,171,304 8,100,344 14,603,158 204,655 948,919 13,153,406 6,334,360 1,384,645 1,134,176 1,007,711 510,626 1,687,563 1,099,429 18,683,513 7,069,744 21,132,599 6,944,880 8,522,613 2,180,947 536,843 2,182,944,558 147,176 288,983 299,315 40,4358 | 87,120,630 17,973,087 3,858,917 5,277,590 5,249,690 2,731,904 15,301,606 26,904,985 379,818 2,083,748 3,840,240 26,046,463 10,915,272 2,733,860 2,324,361 2,086,159 1,049,570 3,032,267 2,267,408 35,494,813 15,630,480 33,351,948 15,299,274 16,407,761 4,009,457 1,074,645 1,252,144 274,426 931,551 500,175 710,259 |
| Total Metropolitan  | 8,883  | 165,885  | 70,122   | 92,336,587  | 58,940,458  | 53,391,105   | 187,509,769  | 349,992,194  |

## VICTORIA—FACTORY STATISTICS BY MUNICIPALITIES, 1948-49—continued.

|                                 | Number of                                | Persons I                                 | Employed.        | Salaries              | Value of               | Value of                | Value of<br>Materials              | Value of<br>Articles        |
|---------------------------------|--|---|------------------|-----------------------|------------------------|-------------------------|------------------------------------|-----------------------------|
| Municipality.                   | Factories.                               | Males.                                    | Females.         | and<br>Wages<br>Paid. | Land and<br>Buildings. | Plant and<br>Machinery. | Used<br>(including<br>Containers). | Produced<br>or<br>Work Done |
|                                 | 1 (                                      | No.                                       | No.              | £                     | £                      | £                       | £                                  | £                           |
| Werribee                        | 36                                       | 285                                       | 111              | 108,207               | 149,873                | 109,705                 | 1.331.322                          | 2.282.457                   |
| Dandenong                       | 81                                       | 1,500                                     | 457              | 737,958               | 428,062                | 393,356                 | 1,454,915                          | 2,587,996                   |
| Bacchus Marsh                   | 17                                       | 219                                       | 62               | 127,560               | 57,891                 | 76,090                  | 735,207                            | 981,905                     |
| Geelong                         | 299                                      | 8,240                                     | 2,474            | 4,278,996             | 2,906,033              | 3,014,324               | 8,451,672                          | 16,662,890                  |
| Korumburra                      | 27                                       | 265                                       | 143              | 128,788               | 84,794                 | 102,902                 | 791,111                            | 1,131,961                   |
| Alexandra                       | 25                                       | 233                                       | 29               | 111,637               | 192,007                | 806,143                 | 230.899                            | 702,981                     |
| Kyneton                         | 43                                       | 300                                       | 139              | 131,536               | 76,807                 | 61,547                  | 305,383                            | 543,779                     |
| Castlemaine                     | 40                                       | 912                                       | 236              | 417,287               | 124,651                | 228,657                 | 590,382                            | 1,258,152                   |
| Maryborough                     | 43                                       | 821                                       | 351              | 405,071               | 93,413                 | 89,551                  | $770,305 \\ 3,281,912$             | 1,342,814                   |
| Ballarat (including Sebastopol) | 273                                      | 4,088                                     | 1,690            | 2,004,768             | 1,022,241              | 781,913                 | 3,281,912                          | 6,714,722                   |
| Colae                           | 81                                       | 725                                       | 192              | 320,034               | 215,519                | 182,432                 | 1,182,464                          | 1,743,940                   |
| Hampden                         | 56                                       | 472                                       | 128              | 220,112               | 132,845                | 126,163                 | 1,228,399                          | 2,017,636                   |
| Warrnambool                     | 75                                       | 1,467                                     | 448              | 727,905               | 532,904                | 510,151                 | 3,049,809                          | 4,473,760                   |
| Ararat                          | 14                                       | 401                                       | 218              | 155,168               | 165,276                | 202,409                 | 257,410                            | 646,541                     |
| Hamilton                        | 57                                       | 421                                       | 39               | 154,102               | 118,352                | 100,548                 | 365,979                            | 629,924                     |
| Portland                        | 58<br>52                                 | 518                                       | 62               | 205,483               | 134,892                | 216,930                 | 485,214                            | 879,126                     |
| Ct 11                           |  | 379                                       | 148              | 163,689               | 164,816                | 101,424                 | 492,525                            | 768,077                     |
| Stawell<br>Mildura              | 49                                       | 481                                       | 176              | 220,140               | 109,950                | 120,389                 | 636,286                            | 1,064,308                   |
| Classical TT211                 | 111 59                                   | 1,214                                     | 425              | 531,611               | 328,093                | 414,848                 | 751,717                            | 1,682,729                   |
| Cohuna                          | 19                                       | 376                                       | 75               | 143,729               | 140,182                | 160,584                 | 367,941                            | 692,773                     |
| Bendigo (including Eaglehawk)   |  | 138                                       | 25               | 63,936                | 40,282                 | 58,866                  | 501,358                            | 630,003                     |
| Ct 4 b C - 1 3                  | 159                                      | 1,966                                     | 985              | 1,010,644             | 987,792                | 1,905,769               | 2,654,216                          | 4,367,602                   |
| T3 - 1                          | 33                                       | 668<br>210                                | 36               | 307,525               | 238,747                | 83,503                  | 532,312                            | 958,834                     |
| D - 1                           | 50                                       | 499                                       | 62               | 83,226                | 54,641                 | 42,830                  | 425,171                            | 583,121                     |
| CO                              | 84                                       | 818                                       | 408              | 301,695               | 361,327                | 408,528                 | 1,716,197                          | 2,378,893                   |
| Domî-Îlo                        | 46                                       | 276                                       | 232              | 399,271               | 364,004                | 284,575                 | 1,645,379                          | 2,317,190                   |
| EXT                             | 63                                       |   | 129              | 118,393               | 96,011                 | 65,801                  | 480,900                            | 735,928                     |
|                                 | 47                                       | $\begin{array}{c} 647 \\ 275 \end{array}$ | 249              | 319,536               | 179,778                | 592,197                 | 1,028,196                          | 1,633,854                   |
| 2010                            | 37                                       | 300                                       | 94               | 117,118               | 101,327                | 67,494                  | 339,382                            | 532,322                     |
| N.F 40 o                        | 18                                       |   | 138              | 129,817               | 83,365                 | 113,993                 | 304,260                            | 655,731                     |
| Wagnerl                         | 15                                       | 544                                       | 104              | 295,170               | 172,492                | 401,396                 | 2,190,691                          | 2,811,884                   |
| M                               | 31                                       | 125                                       | 40               | 59,939                | 74,312                 | 71,300                  | 836,364                            | 944,444                     |
| NT                              | $\begin{vmatrix} 31 \\ 52 \end{vmatrix}$ | $\frac{2,060}{469}$                       | $\frac{317}{92}$ | 1,268,186             | 1,471,420              | 5,928,892               | 1,801,231                          | 6,618,472                   |
| TT7 1                           | 31                                       | $\begin{array}{c} 469 \\ 299 \end{array}$ |                  | 197,764               | 102,787                | 157,531                 | 712,203                            | 1,084,056                   |
| Darles Darles                   | 23                                       | 323                                       | 181              | 158,561               | 111,332                | 89,796                  | 740,207                            | 1,074,059                   |
| Other Manielaslities            | 1.580                                    |   | 28               | 147,660               | 65,117                 | 97,184                  | 518,859                            | 849,786                     |
| Other Municipanties             | 1,380                                    | 9,365                                     | 2,977            | 3,801,631             | 2,759,991              | 4,518,772               | 13,788,621                         | 19,861,035                  |
| Total Country                   | 3,819                                    | 42,299                                    | 13,700           | 20,073,853            | 14,443,326             | 22,688,493              | 56,976,399                         | 96,845,685                  |
| Total State                     | 12,702                                   | 208,184                                   | 83,822           | 112,410,440           | 73,383,784             | 76,079,598              | 244,486,168                        | 446,837,879                 |

<sup>\*</sup> Includes Corio, Geelong West, and Newtown and Chilwell.

<sup>†</sup> Includes Shire of same name.

Included in the item "Other Municipalities" in the foregoing table were inter alia:—Fern Tree Gully, 46 factories £508,786, value of output; Lillydale, 49, £364,391; Frankston and Hastings, 41, £592,521; Berwick, 37, £211,451; Upper Yarra, 30, £587,421; Healesville, 34, £507,527; Daylesford, 14, £606,499; Otway, 39, £240,999; Heytesbury, 21, £540,439; Dunmunkle, 25, £597,627; Dimboola, 39, £299,188; Kerang, 35, £524,648; Marong, 4, £557,180; Bright, 24, £734,273; Rutherglen, 38, £257,850; Orbost, 30, £382,619; Traralgon, 39, £459,845.

## VALUE OF VICTORIAN PRODUCTION.

The value of production as estimated hereunder is based to a large extent on returns received annually from individual producers throughout the State. As a measure of total production it is incomplete, as it does not include the building and construction industry, it omits factories employing less than four hands (unless power-driven machinery is used) and excludes agriculturists with holdings of less than 1 acre.

Gross value is defined as the value placed on recorded production at the wholesale price realized in the principal markets. In cases where primary products are absorbed locally, or where they become raw material for secondary industry, these points are presumed to be the principal markets. Care is taken to prevent as far as possible all overlapping or double counting. The primary value of dairy production, in accordance with the above definition, is the price paid at the factory for milk or cream sold by the farmer; the value added by the process of manufacture into butter, &c., is included in manufacturing production.

#### VICTORIA—GROSS VALUE OF PRODUCTION.

| Division of Indus  | trv. | Year ended 30th June—   |   |   |   |  |  |  |  |
|--|------|---|---|---|---|--|--|--|--|
|  |      | 1945.   | 1946.   | 1947.   | 1948.   | 1949.  |  |  |  |
|  |      | £   | £   | £   | £   | £  |  |  |  |
| Agriculture Pastoral Dairying Poultry and Bees Trapping Forestry Fisheries Mining Manufacturing* |      | 23,911,774<br>27,409,567<br>17,864,037†<br>7,455,981<br>2,553,735<br>2,884,556<br>400,720<br>2,176,539<br>122,377,307 | 33,156,746<br>20,753,083<br>18,866,694†<br>7,506,706<br>3,271,866<br>3,127,887<br>548,081<br>2,506,043<br>122,406,082 | 41,055,961<br>32,426,683<br>21,525,932†<br>7,617,341<br>3,175,171<br>3,840,530<br>624,094<br>3,026,554<br>131,496,150 | 61,250,238<br>47,144,410<br>23,547,860†<br>8,754,807<br>3,626,472<br>4,523,451<br>525,873<br>3,341,233<br>158,501,020 | 50,432,196<br>58,522,344<br>26,844,959;<br>11,105,714<br>4,029,562<br>5,284,460<br>606,225<br>3,830,397<br>182,760,376 |  |  |  |
| Total  |      | 207,034,216   | 212,143,188   | 244,788,416   | 311,215,364   | 343,416,233  |  |  |  |

<sup>\*</sup> Manufacturing is included at its net or added value because the gross or wholesale selling value contains so much duplication of products, the finished article of one class of manufacture forming in numerous cases the raw material for others.

<sup>†</sup> Includes Subsidy—1944-45, £3,226,620; 1945-46, £3,147,000; 1946-47, £2,867,670; 1947-48, £3,423,346; 1948-49, £2,118,602.

The ultimate aim of the valuation of production is to arrive at the sum available for distribution among those concerned in each class of industry, i.e.—

- (a) Workers in all grades of the industry.
- (b) Proprietors (including landlords) of any of the instruments of production concerned.
- (c) Providers of capital, including debenture holders and mortgagees.

It is, therefore, necessary to deduct from the gross values of realization all costs of marketing and production, the former including freight, cartage, brokerage, commission, insurance, and containers, and the latter such items as stock feed, seed costs, manures, spraying, animal dips, fuel, power, water, all other materials consumed in the process of production, and depreciation. Complete details of these costs are not yet available for the forestry and fishing industries in Victoria, but the following table gives the value of production in detail after deduction of marketing costs, and may be considered to represent with a fair degree of accuracy the value of Victorian production at the place of production.

VICTORIA—VALUE AT THE PLACE OF PRODUCTION.

| Produce,                              |       |             | Value in    | Year ended 3 | 0th June—   |             |
|---------------------------------------|-------|-------------|-------------|--------------|-------------|-------------|
| · · · · · · · · · · · · · · · · · · · |       | 1945,       | 1946.       | 1947         | 1948.       | 1949.       |
|                                       |       | £           | £           | £            | £           | £           |
| Agriculture                           |       | 21,598,093  | 29,315,445  | 36,438,799   | 55,375,993  | 45,164,048  |
| Barley                                |       | 206,589     | 408,369     | 695,393      | 2,252,029   | 1,095,624   |
| Maize                                 |       | 59,805      | 112,558     | 129,029      | 140,128     | 121,768     |
| Oats                                  |       | 535,928     | 1,129,836   | 1,239,044    | 4,704,161   | 1,255,072   |
| Wheat                                 |       | 1,896,500   | 8,621,711   | 17,581,748   | 29,910,971  | 23,349,112  |
| Onions                                |       | 697,289     | 585,789     | 396,417      | 746,422     | 429,832     |
| Potatoes                              |       | 3,064,501   | 2,377,434   | 2,210,471    | 1,969,229   | 2,536,450   |
| Hay and Straw                         |       | 4,650,837   | 5,704,774   | 3,875,362    | 5,178,371   | 5,579,709   |
| Fruit                                 |       | .,,-        | -,,         | a,0,         | -,1,5.1     | .,,         |
| Orchards                              |       | 2,700,113   | 2,550,527   | 2.667,005    | 2,741,361   | 2,788,965   |
| Vineyards                             |       | 2,096,206   | 2,751,473   | 2,742,418    | 3,562,365   | 3,104,972   |
| Other Crops                           |       | 5,690,325   | 5,072,974   | 4,901,912    | 4,170,956   | 4,902,544   |
| Pastoral                              |       | 25,457,318  | 19,348,301  | 29,990,974   | 42,989,486  | 54,060,585  |
| Wool                                  |       | 11,149,746  | 8,955,354   | 17,336,538   | 27,082,608  | 34,197,832  |
| Sheep, slaughtered                    |       | 7,533,893   | 4,736,249   | 5,958,346    | 6,862,317   | 7,726,358   |
| Cattle, slaughtered                   | • • • | 6,773,679   | 5,656,698   | 6,696,090    | 9,044,561   | 12,136,395  |
| Horses                                | ::    | 0,770,010   |             | 0,000,000    | 3,044,501   | 12,130,000  |
| Dairying                              |       | 17,237,829* | 18,232,630* | 20,676,900*  | 22,671,396* | 25,686,607* |
| Cream for butter                      |       | 6,099,988   | 7,203,179   | 9,098,464    | 9,897,433   | 12.026,065  |
| Milk for cheese                       | ::    | 862,385     | 1,306,779   | 1,448,104    | 1,500,920   | 2,048,227   |
| Milk for condensing.                  |       | 332,000     | 1,000,110   | 1,110,101    | 1,000,020   | 2,020,221   |
| centrating, &c.                       |       | 1,454,077   | 1.563.341   | 1,769,089    | 2,017,810   | 3,118,468   |
| Whole milk consumed                   |       | 2,823,019   | 3,006,575   | 3,297,225    | 3,339,990   | 3,567,523   |
| Pigs                                  |       | 2,771,740   | 2,005,756   | 2,196,348    | 2,491,897   | 2,807,722   |
|                                       | • •   | ,,          | 2,000,100   | J100,0±0     | 2,±01,001   | 2,001,122   |

<sup>\*</sup> Inclusive of Subsidy—1944-45, £3,226,620; 1945-46, £3,147,000; 1946-47, £2,867,670; 1947-48, £3,423,346; 1948-49, £2,118,602.

VALUE AT THE PLACE OF PRODUCTION—continued.

| Produce.  |                      | Value in             | Year ended a         | 80th June→             |                        |
|---|----------------------|----------------------|----------------------|------------------------|------------------------|
|   | 1945.                | 1946.                | 1947.                | 1948.                  | 1949.                  |
|   | £                    | £                    | £                    | £.                     | £                      |
| Poultry and Bees                                | 6,889,068            | 6,936,341            | 7,029,677            | 8,085,634              | 10,256,968             |
| Eggs  | 5,317,338            | 5,208,664            | 5,285,687            | 5,992,999              | 7,720,672              |
| Poultry Honey and beeswax                       | 1,450,606<br>121,124 | 1,612,496<br>115,181 | 1,488,245<br>255,745 | 1,896,567<br>196,068   | 2,289,280<br>247,016   |
| Trapping, &c                                    | 2,451,538            | 3,174,158            | 3,036,896            | 3,434,725              | 3,776,262              |
| Rabbits and hares<br>Rabbit and hare skins, &c. | 325,131<br>2,126,407 | 279,220<br>2,894,938 | 657,116<br>2,379,780 | 1,425,515<br>2,009,210 | 2,394,801<br>1,381,461 |
| Forestry  | 2,565,264            | 2,826,229            | 3,450,103            | 4,023,451              | 4,743,217              |
| Sawmills  | 1,340,415            | 1,675,443            | 1,947,902            | 2,113,451              | 2,655,662              |
| Firewood<br>Bark for tanning                    | 1,178,753<br>46,096  | 1,118,180<br>32,606  | 1,437,924<br>64,277  | 1,840,000              | 2,007,377              |
| · ·   | 40,000               | 32,000               | 04,211               | 70,000                 | 80,178                 |
| Fisheries                                       | 339,043              | 465,625              | 534,828              | 450,656                | 521,887                |
| Fish  | 336,392              | 461,846              | 528,033              | 446,560                | 498,736                |
| Crayfish  | 1,947                | 3,613                | 6.628                | 4,078                  | 23,069                 |
| Oysters   | 704                  | 166                  | 167                  | 18                     | 82                     |
| Mining  | 2,037,838            | 2,345,366            | 2,814,424            | 3,096,868              | 3,450,984              |
| Gold  | 566,211              | 658,850              | 932,643              | 908,153                | 734,100                |
| Black   | 377,624              | 468,096              | 386,362              | 287,976                | 341,580                |
| Brown   | 565,055              | 641,069              | 706,462              | 925,887                | 1,142,915              |
| Other Metals and Minerals<br>Quarrying          | 153,077<br>375,871   | 120,206              | 153,908              | 174,852                | 253,086                |
| Quarrying                                       | 379,671              | 457,145              | 635,049              | 800,000                | 979,303                |
| Total Primary                                   | 78,575,991           | 82,644,095           | 103,972,601          | 140,128,209            | 147,660,558            |
| Manufacturing                                   | 122,377,307          | 122,406,082          | 131,496,150          | 158,501,020            | 182,760,376            |
| Grand Total                                     | 200,953,298          | 205,050,177          | 235,468,751          | 298,629,229            | 330,420,934            |

The values of production of the various classes of industry, as they appear in the previous table for the year 1948-49, are shown hereafter, together with the costs of production where available. The difference between the two figures represents the net value of production or the net return available to the producers for wages, rent, interest, and profits. As previously explained, the deductions are incomplete, and depreciation (see next page) has been here disregarded, but the margin of error is considered to be small in view of the comparative unimportance of the industries concerned from the point of view of production costs. 10014/50.—32

## VICTORIA—NET VALUE OF PRODUCTION, 1948-49.

| Industry.     | Value at<br>Place of<br>Production. | Cost of<br>Production.* | Net Value.  | Net Value<br>per Head of<br>Population. |  |  |
|---------------|-------------------------------------|-------------------------|-------------|---|--|--|
|               | £                                   | £                       | £           | £ s. d.                                 |  |  |
| Agriculture   | 45,164,048                          | 9,125,408               | 36,038,640  | 17 1 0                                  |  |  |
| Pastoral      | 54,060,585                          | 2,136,033               | 51,924,552  | 24 11 5                                 |  |  |
| Dairying      | 25,686,607                          | 3,428,005               | 22,258,602  | 10 10 8                                 |  |  |
|               | 10,256,968                          | 2,180,945               | 8,076,023   | 3 16 5                                  |  |  |
| Tichonica     | 9,041,366                           | 803,000†                | 8,238,366   | 3 18 0                                  |  |  |
| Mining        | 3,450,984                           | 1,279,037               | 2,171,947   | 1 0 7                                   |  |  |
| Manufacturing | 182,760,376                         |                         | 182,760,376 | 86 9 7                                  |  |  |
| Total         | 330,420,934                         | 18,952,428              | 311,468,506 | 147 7 8                                 |  |  |

<sup>\*</sup> Costs of production include stock feed, seed costs and pickling, manures, spraying, sheep and cattle dips, power, fuel, water, and all other materials used in production.

† Incomplete.

Every factory in Victoria submits an annual statement showing the number of persons employed on the 15th day of each month, and from these data an index of employment is constructed.

It will be appreciated that, in order to publish figures to the latest possible date, it is necessary to anticipate these annual statements. Consequently, in the table which follows, the figures from July, 1948, are estimates based on the monthly pay-roll tax returns rendered by factories. It is considered that such returns cover 90 per cent. of total factory employment in Victoria.

INDEX OF FACTORY EMPLOYMENT. (Base—July, 1933, 136,793 = 1,000.)

| Month.    |     | 1944–45. | 1945-46. | 1946–47. | 1947-48. | 1948-49. | 1949-50. | 1950-51 |
|-----------|-----|----------|----------|----------|----------|----------|----------|---------|
| July      |     | 1,832    | 1,805    | 1,887    | 1,930    | 1,984    | 2,018    | 2,094   |
| August    |     | 1,829    | 1,803    | 1,898    | 1,940    | 1,989    | 2,021    | 2,096   |
| September | ٠.  | 1,825    | 1,771    | 1,911    | 1,943    | 1,992    | 2,027    | 2,099   |
| October   |     | 1,827    | 1,749    | 1,913    | 1,954    | 1,996    | 2,038    | 2,070   |
| November  |     | 1,826    | 1,747    | 1,865    | 1,954    | 2,005    | 2,053    | 2,092   |
| December  |     | 1,826    | 1,747    | 1,811    | 1,956    | 2,005    | 2,049    | 2,126   |
| January   | • • | 1,813    | 1,752    | 1,812    | 1,944    | 2,004    | 2,055    | 2,129   |
| February  |     | 1,830    | 1,797    | 1,861    | 1,968    | 2,019    | 2,069    | 2,146   |
| March     |     | 1,838    | 1,826    | 1,858    | 1,977    | 2,037    | 2,090    | 2,148   |
| April     |     | 1,825    | 1,847    | 1,854    | 1,987    | 2,027    | 2,086    | 2,159   |
| May       |     | 1,812    | 1,860    | 1.893    | 1,984    | 2,032    | 2,090    |         |
| June      |     | 1,808    | 1,864    | 1,907    | 1,987    | 2,026    | 2,094    |         |

<sup>•</sup> Revised figures for each month of 1948-49 and July and August respectively for 1949-50.

In peace-time the volume of employment in retail trade is a valuable indicator of economic conditions.

A sample collection of 102 large Victorian retail stores was made by the Government Statist from July, 1933, to December, 1941. This collection was then discontinued because of institution of the pay-roll tax. Figures collected in conjunction with this tax cover all retail establishments whose pay-roll is more than £20 per week.

The following table shows a monthly index of total employment in retail establishments based mainly on the latter source:—

VICTORIA—INDEX OF RETAIL EMPLOYMENT. (Base July, 1941, 58,500 = 1,000.)

| Mo        | onth. |     | 1941–42. | 1946-47. | 1947–48. | 1948-49. | 1949-50. | 1950–51. |
|-----------|-------|-----|----------|----------|----------|----------|----------|----------|
| July      | ••    |     | 1,000    | 987      | 1,052    | 1,107    | 1,130    | 1,146    |
| August    | •••   | • • | 987      | 994      | 1,050    | 1,100    | 1,125    | 1,148    |
| September | • •   |     | 993      | 1,004    | 1,058    | 1,104    | 1,132    | 1,150    |
| October   |       | ••  | 996      | 1,014    | 1,070    | 1,106    | 1,130    | 1,158    |
| November  | • •   |     | 1,004    | 1,053    | 1,096    | 1,137    | 1,154    | 1,191    |
| December  |       | ••  | 1,038    | 1,069    | 1,120    | 1,169    | 1,167    | 1,206    |
| January   |       | ••  | 964      | 1,046    | 1,083    | 1,125    | 1,139    | 1,182    |
| February  | ٠     | ٠.  | 954      | 1,048    | 1,090    | 1,123    | 1,142    | 1,181    |
| March     | •••   | • • | 949      | 1,045    | 1,093    | 1,125    | 1,144    | 1,182    |
| April     | •••   | ••. | 935      | 1,050    | 1,097    | 1,127    | 1,148    | 1,187    |
| May       |       | ••  | 907      | 1,044    | 1,099    | 1,128    | 1,148    |          |
| June      |       |     | 895      | 1,048    | 1,103    | 1,132    | 1,150    | •14      |

## BUILDING STATISTICS.

Building statistics collected by the Government Statist and published in the Year-Books from 1928-29 to 1947-48 inclusive, were of value in showing the trend of building activities in the State; but, due to acknowledged difficulties in getting complete information, they could not be regarded as an absolute measure of work done.

That particular collection has now been discontinued, and the tables which follow, comprise certain particulars of the building industry in Victoria, collected and compiled by the Commonwealth Statistician.

The figures shown relate to the operations of private contractors, Government authorities and "owner-builders." They exclude the value of land and refer only to new buildings—alterations, additions, renovations, &c., are excluded. The operations of "owner-builders" are included except when they relate to buildings in areas where building permits are not required, nor are they included in the tables relating to employment.

An "owner-builder" is one who is actually building his own house or is having it built under his own direction without the services of a contractor.

VICTORIA—(a) NUMBER OF NEW BUILDINGS AND (b) VALUE (WHEN COMPLETED) OF NEW BUILDINGS.

(Including owner-built houses.)

|                 | New I                               | Iouses, Flat<br>Dwellings. | ts, Shop                             | Other New Buildings.                |                                     |                                      |
|-----------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|
| Period.         | Com-<br>menced<br>During<br>Period. | Completed During Period.   | Under Construction at End of Period. | Com-<br>menced<br>During<br>Period. | Com-<br>pleted<br>During<br>Period, | Under Construction at End of Period. |
|                 | (a) N                               | umber of I                 | ,<br>New Building                    | s.                                  | •                                   |                                      |
| -               | No.                                 | No.                        | No.                                  | No.                                 | No.                                 | No.                                  |
| Year ended-     |                                     |                            | 1 1                                  |                                     |                                     | 2,0                                  |
| 30th June, 1946 | *                                   | 3,688                      | 6,222                                | *                                   | 1,632                               | 300                                  |
| 30th June, 1947 | 13,382                              | 7,560                      | 12,056                               | 1,453                               | 1,341                               | 401                                  |
| 30th June, 1948 | 15,387                              | 12,080                     | 15,362                               | 1,880                               | 1,728                               | 600                                  |
| 30th June, 1949 | 16,170                              | 14,764                     | 16,763                               | 2,327                               | 2,167                               | 735                                  |
| 30th June, 1950 | 21,579                              | 16,042                     | 22,300                               | 2,497                               | 2,293                               | 1,126                                |
|                 | ,                                   |                            |                                      |                                     |                                     | ,                                    |
|                 | lue (when co                        | mpleted) of                | Buildings m                          | entioned al                         | ove.                                |                                      |
| Zear ended—     | £'000 1                             | £,000                      | £'000 i                              | €'000 ⊥                             | £'000                               | £'000                                |
| 30th June, 1946 | *                                   | 3,838                      | 7,540                                | *                                   | 1,633                               | 2,277                                |
| 30th June, 1947 | 17,577                              | 9,515                      | 16,271                               | 2,845                               | 1,552                               | 3,062                                |
| 30th June, 1948 | 22,534                              | 16,372                     | 22,911                               | 4,307                               | 1,519                               | 6,662                                |
| 30th June, 1949 | 27,808                              | 23,357                     | 29,765                               | 8,517                               | 4,000                               | 11,842                               |
| 30th June, 1950 | 39,238                              | 30,044                     | 42,526                               | 7,259                               | 4,629                               | 13,203                               |

<sup>\*</sup> Not available.

VICTORIA—(a) NUMBER OF NEW BUILDINGS AND (b) VALUE (WHEN COMPLETED) OF NEW BUILDINGS COMPLETED DURING PERIODS MENTIONED AND CLASSIFIED ACCORDING TO KIND.

(Including owner-built houses.)

|                                | 1 4 4 5<br>4 4 1                                      | Houses,   |  |  | Aret.                                  |  |
|--------------------------------|---|---|--|--|--|--|
| Period.                        | Brick,<br>Brick<br>Veneer,<br>Concrete,<br>&c.        | Wood.   | Other<br>(including<br>Fibro-<br>Cement).      | Flats<br>(Units).                      | Shops<br>with<br>Dwelling.             | All-<br>Other than<br>Private<br>Dwellings.        |
| F #2 + +9.11                   | (a) N   | umber of 1  | Vew Buildin                                    | re .                                   |  |  |
| cear ended—                    | No.<br>1,982<br>4,060<br>6,510<br>7,118<br>6,408      | No.<br>1,190<br>2,532<br>3,893<br>5,591<br>7,699    | No.<br>494<br>844<br>1,443<br>1,569<br>1,496   | No.<br>14<br>86<br>- 167<br>368<br>246 | No.<br>8<br>38<br>67<br>118<br>193     | No.<br>1,632<br>1,341<br>1,728<br>2,167<br>2,293   |
| (b) Valu                       | e (when cor   | npleted) of   | Buildings n                                    | nentioned a                            | bove.                                  |  |
| tear ended—<br>30th June, 1946 | £'000<br>2,285<br>5,879<br>10,047<br>12,952<br>13,854 | £'000<br>1,158<br>2,709<br>4,545<br>7,763<br>12,937 | £'000<br>359<br>772<br>1,457<br>1,827<br>2,052 | £'000<br>7<br>99<br>200<br>528<br>663  | £'000<br>29<br>56<br>123<br>287<br>538 | £'000<br>1,633<br>1,552<br>1,519<br>4,000<br>4,629 |

# VICTORIA—NUMBER OF NEW HOUSES ACCORDING TO LOCATION (METROPOLITAN OR OTHER).

(Including owner-built houses but excluding flats, shops with dwellings, converted military huts, &c.)

| Period.  | Commenced<br>During Period.     |  | Completed<br>During Period.       |  | Under Construction<br>at End of Period.            |                                   |
|--|---------------------------------|--|-----------------------------------|--|--|-----------------------------------|
| 4-1-15   | Metro-<br>politan.              | Other.                                       | Metro-<br>politan.                | Other.   | Metro-<br>politan.                                 | Other,                            |
| Year ended—  30th June, 1946 30th June, 1947 30th June, 1948 30th June, 1949 | No.  * 7,711 8,658 9,106 11,292 | No.<br>*<br>5,270<br>6,220<br>6,381<br>9,743 | No. 2,017 4,246 6,884 8,237 8,975 | No.<br>1,649<br>3,190<br>4,962<br>6,041<br>6,455 | No.<br>4,247<br>7,712<br>9,486<br>10,355<br>12,463 | No. 1,888 3,968 5,226 5,566 8,890 |

<sup>\*</sup> Not available.

In the above table metropolitan comprises Melbourne and suburbs within boundaries defined for statistical purposes. 10014/50.—33

# VICTORIA—NUMBER OF EMPLOYERS AND EMPLOYEES ENGAGED ON JOBS CARRIED OUT BY BUILDERS OF NEW BUILDINGS.

(Excluding persons working on houses being built by owner-builders.)

|                     |  | As at—              |                     |                     |                     |                     |  |  |  |  |
|---------------------|--|---------------------|---------------------|---------------------|---------------------|---------------------|--|--|--|--|
| Particulars.        |  | 30th June,<br>1946. | 30th June,<br>1947. | 30th June,<br>1948. | 30th June,<br>1949. | 30th June,<br>1950. |  |  |  |  |
|                     |  | No.                 | No.                 | No.                 | No.                 | No.                 |  |  |  |  |
| Contractors (a)     |  | 2,458               | 3,094               | 3,470               | 3,291               | 3,317               |  |  |  |  |
| Sub-contractors (a) |  | 2,461               | 2,931               | 3,221               | 3,493               | 3,614               |  |  |  |  |
| Wage Earners        |  | 12,510              | 16,086              | 20,037              | 21,658              | 24,753              |  |  |  |  |
| Total               |  | 17,429              | 22,111              | 26,728              | 28,442              | 31,684              |  |  |  |  |

<sup>(</sup>a) Actually working on jobs.

# VICTORIA—NUMBER OF TRADESMEN ENGAGED ON JOBS CARRIED OUT BY BUILDERS OF NEW BUILDINGS.

(Including contractor and sub-contractor principals, but excluding persons working on houses being built by owner-builders.)

|   | As at—   |  |   |   |   |  |  |  |  |
|---|--|--|---|---|---|--|--|--|--|
| Tradesmen.  | 30th June,<br>1946.  | 30th June,<br>1947.  | 30th June,<br>1948.   | 30th June,<br>1949.   | 30th June<br>1950.  |  |  |  |  |
| Carpenters Bricklayers Painters Electricians Plumbers Builders' Labourers Other | No.<br>6,621<br>1,877<br>1,654<br>701<br>1,375<br>2,586<br>2,615 | No.<br>8,907<br>2,351<br>1,962<br>921<br>1,693<br>3,064<br>3,213 | No.<br>11,156<br>2,623<br>2,231<br>1,070<br>1,945<br>3,782<br>3,921 | No.<br>12,160<br>2,550<br>2,574<br>1,392<br>2,211<br>4,131<br>3,424 | No.<br>13,703<br>2,501<br>3,078<br>1,222<br>2,264<br>5,165<br>3,751 |  |  |  |  |
| Total   | <br>17,429   | 22,111   | 26,728  | 28,442  | 31,684  |  |  |  |  |