# PART XI.

# FACTORIES, FISHERIES, MINES, ETC.

# FISHERIES.

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

VICTORIAN FISHERIES-MEN AND BOATS EMPLOYED; QUANTITY AND VALUE OF VICTORIAN FISH SOLD IN VICTORIAN MARKETS DURING EACH OF THE YEARS 1941-42 TO 1945-46.

	Very Duded		Bo	ate	Value of	Victorian Fish Sold in Victorian Markets.				
	Year Ended Number 30th June. of Men.			Boats Employed.		Fish.		Cray	fish.	
			Number.	Value.	Other Plant.	Quantity.	Value.	Quan- tity.	Value.	
		NAME OF TAXABLE PARTY O		£	£	Ib.	£	doz.	£	
1942 1943 1944 1945 1946	•••	1,501 1,682 1,928 2,082 2,329	969 994 1,117 1,190 1,194	$\begin{array}{r} 131,\!595\\ 134,\!094\\ 175,\!036\\ 243,\!866\\ 306,\!585 \end{array}$	$\begin{array}{r} 26,654\\ 38,841\\ 46,569\\ 55,352\\ 65,803\end{array}$	$\begin{array}{c} 12,843.152\\ 11,388,160\\ 9,723,280\\ 9,310,336\\ 11,923,072 \end{array}$	$\begin{array}{r} 454,862\\ 443,663\\ 405,136\\ 397,629\\ 543,719\end{array}$	4,496 2,508 1,824 1,242 2,313	8,992 4,307 3,313 2,244 4,164	

Melbourne Fish Market. Fish Market during each of the years 1944-45 and 1945-46 are shown in the next table :---

FISH SOLD IN THE MELBOURNE FISH MARKET, 1944-45 AND 1945-46.

	Year Ended 30th June.					
	194	5.	194	6.		
· · · · · · · · · · · · · · · · · · ·	Quantity.	Value.	Quantity.	Value.		
Fresh Fish (Victorian) lb. Crayfish doz. Imported Fish (fresh or frozen) lb. Oysters bags	9,156,280 11,778 2,866,749 6,169	£ 391,049 21,200 188,734 30,566	$11,777,430 \\ 9,132 \\ 3,063,540 \\ 5,328$	£ 539,799 16,437 200,991 26,403		
Total		631,549		783,630		

642/48.-29

# Victorian Year-Book, 1945-46.

Victorian fish sold. The quantity and value of fish caught in Victorian waters and sold in the Melbourne and Ballarat markets and in other towns in Victoria in 1945–46 were :---

Markets.		Quar	tity.	Value.		
		Fish.	Crayfish.	Fish.	Crayfish.	
		lb.	doz.	£	£	
Melbourne	••	11,777,430	2,313	539,799	4,164	
Ballarat	••	125,755		2,930	•••	
Other towns in Victoria	••	19,887	••	990	••	
Total		11,923,072	2,313	543,719	4,164	

# VICTORIAN FISH SOLD IN 1945-46.

Fish mported. Particulars of imports of fish into Victorian Ports from oversea countries in each of the two years 1944-45 and 1945-46 are given in the following statement :---

# VICTORIA-FISH IMPORTED FROM OVERSEA, 1944-45 AND 1945-46.

	Year Ended 30th June.						
	194	5.	1946.				
	Quantity.	Value.	Quantity.	Value.			
Fish	lb.	£	lb.	£			
Fresh or Preserved by Cold Process	1,847,615	72,881	1,941,864	91,100			
Potted or Concentrated, &c	660	656	5,751	2,735			
Preserved in tins, &c	221,851	18,960	2,386,598	117,416			
Other		••	13,082	603			
Total	2,070,126	92,497	4,347,295	211,854			

# RABBITS, ETC.

Frozen Large quantities of frozen rabbits and hares and of rabbits, &c., 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 1943-44 to 1945-46:--

# VICTORIA—RABBITS AND HARES AND RABBIT AND HARE SKINS EXPORTED OVERSEA 1943-44 TO 1945-46.

Year Ende	ed 30th	June	Frozen Rabbi	ts and Hares.	Rabbit and Hare Skins.		
e di Bishu			Quantity.	Value.	Quantity.	Value.	
			Pairs.	£	lb.	£	
1943	••••		95,793	10,283	3,234,179	988,346	
1944	•••	•••	328,487	28,520	5,906,243	2,072,741	
1945	•••		1,379,537	160,675	5,750,112	1,750,681	
1946	••	••	1,035,311	109,044	6,203,553	2,616,670	

Rabbits, &c., sold at Melbourne Fish Market. Market. Market. Market. Melbourne Fish Market in each of the past five years were as follows:-1941-42, 291,516; 1942-43, 251,928; 1943-44, 436,440; 1944-45, 570,880 and 1945-46, 479,532.

#### MINES AND MINERALS.

The rights of the Crown to all minerals on or below the surface of the ground were matters of dispute in English law over a very long period. By the time of Elizabeth, however, those rights, so far as pure gold and silver were concerned, were firmly established,<sup>(1)</sup> and the only remaining doubt was whether, if gold or silver was found intermixed with the baser metals, the whole became a royal mine. "Pure gold and silver, wherever found, whether in the demesnes of the Crown, in public roads, highways, in waste or unappropriated lands, or in the lands and tenures of private persons, are the absolute property of the Crown."<sup>(2)</sup>

<sup>(1)</sup> Arundel Rogers-The Law of Mines, Minerals, and Quarries. (2) Ibid.

On 22nd May, 1851, just prior to the separation of Victoria from New South Wales, the Crown's prerogative in respect of gold was asserted, for the first time in Australia, in the following preamble of a proclamation by Sir Charles Augustus Fitz Roy:---

"Whereas by Law, all mines of Gold and all gold in its natural place of deposit within the Territory of New South Wales, whether on the lands of the Queen or of any of Her Majesty's subjects, belong to the Crown . . . . ."

The establishment in English law of the Crown's right to gold and silver and the doubt in respect of other minerals is apparently the reason for the distinction to be observed in Section 330 of the *Victorian Mines Act* 1928. Whilst sub-section (1) maintains the Crown's rights to gold and silver "on or below the surface of all land whatsoever in Victoria whether alienated or not alienated from the Crown, and if alienated whensoever alienated," sub-section (2) limits the Crown's rights, in respect of minerals, to lands not alienated from the Crown on or before the 1st March, 1892. As, at that date, the Crown had parted with some sixteen million acres of the public estate in Victoria, or roughly two-sevenths of the area of the State, it will be seen that quite a considerable portion of Victoria is exempt from the Crown's rights to minerals other than gold or silver.

So far as minerals on the lands alienated on or before 1st March, 1892, are concerned, the position of the Crown in respect thereof has been clarified by the *Mines (Minerals) Act* 1944, which provides—

- that a person may petition the Minister of Mines to bring land alienated on or before the 1st March, 1892, under the *Mines Act* 1928, for the purpose of the mining of minerals (other than silver and petroleum) thereon;
- that the Minister upon such petition or of his own motion may direct a geological survey of any such land;
- that where such survey discloses a reasonable probability of the land containing any such mineral in payable quantities the Minister may require the owner and occupier within six months to make suitable arrangements for its mining; and that, if such arrangements are not made, the land may be brought under the operation of Part III. of the *Mines Act* 1928 by a declaration of the Governor in Council, upon which the minerals therein or thereon will be vested in the Crown and the provisions of the *Mines Act* 1928 relating to mineral leases will apply thereto, but so that the petitioner, if any, shall have a preferential right to the grant of a mineral lease. Compensation to be paid to the owner

shall be on the higher scale provided in the *Mines Act* 1928, and 90 per cent. of the rents and royalties paid to the Crown under the lease shall be paid by the Crown to the owner.

Since the passing of the *Land Act* 1891, the rights of the Crown to the minerals in the earth are safeguarded by the inclusion, in all Crown Grants of land issued after the commencement of such Act, of a special "depth condition," which limits the title of the land to the surface and, usually, to 50 feet below the surface thereof. The same Act, in Section 12, provided that :--

"so far as regards any metal or mineral declared by any Act to be the property of the Crown, no grant or lease or licence (not being solely a mining lease or licence) made after the passing of this Act of any land of the Crown shall purport to or shall pass or convey the property in or right to any metal or mineral on, in or under such land, but the same shall remain the property of the Crown."

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

Miners' 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 revenue in 1945–46 from "Miners' Rights" was £210.

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 licences. Under the Mines (Petroleum) Acts petroleum mineral 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. There was no revenue from these two sources in 1945–46.

# Victorian Year-Book, 1945-46.

The preparation and execution of schemes for the development as one unit of oil fields extending over lands comprised in more than one licence or lease are also provided for in an Act passed in 1939.

The area of Crown and of private lands occupied under Area occupied the Mines Acts on 31st December, 1946, was 645,858 for mining. The subjoined table shows the area being worked acres. for different minerals under such Acts.

#### VICTORIA-AREA OCCUPIED UNDER THE MINES ACTS, 31st DECEMBER, 1946.

Nature of Lease or Licence.	Area.	Nature of Lease or Licence.	Area.	
	Acres.		Acres.	
Gold	24,024	Kaolin and Gold	. 6	
Coal (black)*	9,677	Limestone	129	
Coal (brown)†	3,271	Magnesite	57	
Coal (black and brown)	100	Marble	6	
Antimony	84	Mineral Water and Gas	1	
Antimony and Gold	<b>28</b>	Molybdenite	30	
Barytes	45	Ochre	6	
Basalt	3	Oil and Gast	605,335	
Bauxite	305	Pigment	12	
Bluestone	13	Sand	20	
		Silver, Lead, and Fluorspar	23	
Clay	97	Tailings Licences	1,133	
Granite	24	Water Right Licences	398	
Gypsum	891	Wolfram	92	
Kaolin	48	Total	645,858	

(Crown Land and Private Land.)

\* Includes State Coal Mine Area, 7,575 acres.
 † Includes State Electricity Commission Area, 2,800 acres.
 ‡ Includes Petroleum Prospecting Licences, 604,806 acres.

Certain gold mining leases include the right to mine for other

minerals.

Certain mineral leases include the right to mine for gold.

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, 1946, amounted to  $\pounds100,018$ .

# VICTORIA-STATE EXPENDITURE AND REVENUE CONNECTED WITH MINING, 1941-42 TO 1945-46.

	Ex	penditure fr	com Consoli	dated Reve	nue.
Item.		Year	ended 30th	June.	
· · · · · · · · · · · · · · · · · · ·	1942.	1943.	1944.	1945.	1946.
Expenditure.	£	£	£	£	£
Mines Department	28,959	27,799	25,491	27,539	30,678
State Coal Mine	438,317	475,188	446,282	446,479	397,530
Boring for Gold, Coal, Oil, &c	6,225	7,263	8,201	13,470	8,618
State Batteries—Expenses of Operation and Maintenance	6,537	4,235	4,372	3,082	3,288
Geological and underground surveys of mines	1,444	1,355	569	1,078	1,362
Laboratory Expenses, &c	514	168	265	265	397
Contribution towards Lakes Entrance Oil Development		12,263	8,326	9,499	5,191
Miscellaneous	1,511	3,340	1,200	2,318	1,010
Total	483,507	531,611	494,706	503,730	448,074
REVENUE.					
State Coal Mine	337,361	410,466	395,142	397,739	344,979
All other	17,317	14,083	14,947	12,829	18,150
Total	354,678	424,549	410,089	410,568	363,129

# Victorian Year-Book, 1945-46.

Total mineral production. The mineral production of the State from lands occupied under the Mines Act (excluding stone raised in quarries, and salt) for the year 1946 and the aggregate mineral production up to 31st December, 1946, are shown in the subjoined statement :---

Metals and Minerals.		During	1946.	Total to 31st December, 1946.*		
		Quantity.	Value.	Quantity.	Value.	
				· .	· · · · · · · · · · · · · · · · · · ·	
		Fine Oz.	£	Fine Oz.	£	
Gold	·	86,993	936,268	72,911,667	325,653,613	
Platinum			••	311	1,671	
Silver	···	13,560	$2,\!687$	1,640,285	248,363	
		Tons.		Tons.		
Antimony concentrates		. 7	409	105,971	636,830	
Barytes			••	69	270	
Bauxite		2,314	3,406	25,099	27,578	
Coal, black		191,290	397,662	20,207,525	16,754,144	
Coal, brown		5,707,039	706,504	70,362,378	7,822,519	
Copper ore				18,740	218,620	
Diatomaceous earth	•	1,113	4,098	17,117	91,275	
Felspar		• • • •	•••	. 662	2,362	
Fluorspar		321	2,247	3,074	9,444	
Gypsum		14,944	6,534	305,968	171,973	
Iron ore			••	5,461	12,552	
Kaolin and other pottery cl	ays	5,875	7,738	92,106	138,823	
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	••		••	109	1,359	
Silver lead ore		•••	••	804	5,992	
Tin concentrates		64	14,917	18,503	1,255,807	
Wolfram	•••		•••	137	18,965	

# VICTORIA-MINERAL PRODUCTION.

\* 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.

Gold production in Victoria. The quantities of gold produced in Victoria in different periods are shown in the next table :---

Period.		Quantity (Gross oz.).		Period.			
		23,334,263	1936	• •		117,596	
		16,276,566	1937	• •		145,799	
		10,156,297	1938			144,243	
	••	7,103,448	1939			156,522	
		7,476,038	1940			180,567	
••		7,095,061	1941			149,769	
		2,161,349	1942		•	101,497	
• • .	••	905,561	1943		•••	56.511	
	• • •	421.250	1944			54.086	
		171.927	1945			61,790	
		307,370	1946			86,993	
	· · · · · · · · · · · · · · · · ·		(Gross oz.).	$({\rm Gross oz.}).$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	

#### GOLD PRODUCTION IN VICTORIA, 1851 TO 1946.

\* 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 gross 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 ounces in 1944 but in each of the two following years a slight increase was experienced. The price of gold in Australia in 1930 was £4 8s. 9d. per fine ounce (export parity calculated from London price). In 1947 the Australian Mint price per fine ounce was £10 15s. 3d.

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 1946 were 616,964 in Western Australia, 62,733 in Queensland, and 32,009 in New South Wales.

The total production of the Commonwealth in fine ounces was 1,178,581 in 1936, 1,381,135 in 1937, 1,592,034 in 1938, 1,645,697 in 1939, 1,643,999 in 1940, 1,495,367 in 1941, 1,155,086 in 1942, 751,279 in 1943, 654,467 in 1944, 657,212 in 1945, and 824,480 in 1946.

The total production of gold in the world in fine ounces, as shown in the United States Mint Report, was 25,400,295 in 1933, 27,372,374in 1934, 29,999,245 in 1935, 32,930,554 in 1936, 35,118,298 in 1937, 37,703,334 in 1938, 39,534,430 in 1939, 41,067,101 in 1940, and 40,332,204 in 1941. No information is available for later years.

Mining district gold yields. The yield of gold (given in gross ounces) for 1945 and 1946 in each mining district of the State, as estimated by the mining registrars, is shown in the following table :----

# VICTORIA-DISTRICT YIELDS OF GOLD (ALLUVIAL AND QUARTZ) 1945 AND 1946.

Mining District.	Mining District.			1945.			1946.		
·	·	Alluvial.	Quartz.	Total.	Alluvial.	Quartz.	Total.		
		oz.	OZ.	oz. (gross)	oz.	oz.	oz. (gross)		
Ararat and Stawell		5	63	68	- 11	159	170		
Ballarat		520	1,377	1,897	1,705	2,351	4,056		
Beechworth		2,212	31,945	34,157	5,178	36,880	42,058		
Bendigo		119	19,709	19,828	423	32,417	32,840		
Castlemaine		3,560	17,040	20,600	3,290	10,379	13,669		
Gippsland		46	2,737	2,783	83	3,309	3,392		
Maryborough	• •	93	1,839	1,932	119	2,053	2,172		
Total		6,555	74,710	81,265	10,809	87,548	98,357		

Government batteries, cyanidation, and dredging and stuicing. Particulars relating to the operations of Government batteries, all cyanide works, and of dredging and sluicing plants for the years 1942 to 1946 are as follows :---

# VICTORIA—GOVERNMENT BATTERIES, CYANIDATION, AND DREDGING AND SLUICING, 1941 TO 1946.

	Governn	nent Batte	ries.	Cyanidation.			Dredging and Sluicing.		
Year.	Number of Batteries Operating.	Quantity of Ore Treated for Gold.	Yield of Gold.	Number of Plants.	Quantity of Tailings Treated.	Yield of Gold.	Number of Plants.	Quantity of Material Treated.	Yield of Gold.
		tons.	fine oz.		tons.	fine oz.		cub. yds.	fine oz.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$27 \\ 20 \\ 14 \\ 9 \\ 11 \\ 12$	7,593 2,848 1,108 1,318 589 979	$4,226 \\ 2,556 \\ 1,054 \\ 969 \\ 515 \\ 740$	$165 \\ 85 \\ 36 \\ 20 \\ 22 \\ 40$	$\begin{array}{r} 1,176,936\\ 626,643\\ 78,716\\ 59,045\\ 47,197\\ 262,810 \end{array}$	$19,869 \\ 6,626 \\ 2,936 \\ 2,442$	$38 \\ 22 \\ 15 \\ 7 \\ 7 \\ 15 \\ 15$	7,242,316 7,160,936 4,660,474 2,158,823 3,290,050 4,530,956	25,035 16,563 10,764 6,035

The first Government battery was erected in 1897. Since that date Government batteries have crushed 246,490 tons of ore for 135,623 oz. of gold.

Up to the end of 1946, tailings aggregating 25,261,501 tons had been treated by the cyanide and other processes, and 1,601,120 oz. of gold had been won therefrom.

Since the inception of mechanical dredge and sluice mining 2,143,333 oz. of gold have been won by these systems.

**Coal.** Bituminous coal was mined during 1946 at Kilcunda, Korumburra, Outtrim, and Wonthaggi, and brown coal at Bacchus Marsh, Dean Marsh, Thorpdale, Wensleydale, and Yallourn. The coal resources of Victoria have been described in detail in previous issues of the *Year-Book*.

VICTORIA-COAL PRODUCTION AND VALUE PER TON.

		Black	Coal.	I	Brown Coal.				
Period.		Annual Production.	Value per Ton at Pit's Mouth.	Annual Production.	Cost of Production per Ton at Mine.	Briquettes— Annual Production.			
		tons.	· s. d.	tons.	s. d.	tons.			
Prior to 1892	•••	.77,914	18 8	1					
1892-1900		184,517*	9 11						
1901-10	• •	168,548*	11 8	81,748†	6 10				
1911-15	••	608,512*	92						
1916 - 20	••	437,833*	$15 \ 11$	76,514*	$6 \ 9$				
1921 - 25	••	520,705*	22 8	258,094*	4 9	77,945i			
1926	• •	591,001	$22 \ 3$	957,935	3 11	95,477			
1927	• •	684,245	22 4	1,455,482	3 0	121.644			
1928	• •	658,323	22 - 2	1,591,858	2 6	131,349			
1929	••	703,828	23 1	1,741,176	$2 \ 1$	146,548			
1930	••	703,487	23 0	1,831,507	1 11	180,905			
1931		571,342	$12 \ 8$	2,194,452	$2 \ 3$	290,558			
1932	• •	432,353	12 9	2,612,512	$2 \ 1$	319,979			
1933	••	523,000	$12 \ 7$	2,580,060	$\frac{1}{2}$ $\frac{1}{5}$	310,767			
1934	••	356,958	$12 \ 1$	2,617,534	$\overline{2}$ $\widetilde{0}$	316,594			
1935	• •	476,495	11 10	2,221,515	$\frac{1}{2}$ $\frac{3}{3}$	317,200			
1936	••	426,725	11 11	3,044,897	2 2	355,088			
1937	• •	257,945	$12 \ 0$	3,393,919	1 11	390,493			
1938	••	307,258	$12 \ 3$	3,675,450	1 11	414,059			
1939	••	364,895	$12 \cdot 10$	3,651,014	$2 \ 1$	414,598			
1940	••	267,694	$15 \ 3$	4,280,275	$2 \ 0$	427,530			
1941	••	326,441	$17 \ 2$	4,565,638	1 10	419,104			
1942	••	312,854	24 7	4,933,861	1 11	416,928			
1943	••	287,100	$27 \ 5$	5,091,729	$2 \ 1$	411,355			
1944	••	257,692	29 3	5,016,437	$2^{\circ}3$	428,844			
1945	••	247,297	37 11	5,445,108	24	455,076			
1946	•••	191,290	$40 \ 5$	5,707,039	2 6	504,275			

\* Average annual production. † Total production to 1916. ‡ 1,392 tons in 1924, 76,553 tons in 1925.

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 Wales.	Queensland.	South Australia.	Western Australia.	Tasmania.	
•		tons.	tons.	tons.	tons.	tons.	
1942		12,236,219	1,637,148	1,650*	581.176	134,442	
943		11,528,893	1,699,521		531.546	145.882	
944		11,102,138	1,659,675	34,620*	558,323	143,641	
945	••	10,176,254	1,637,467	41.383*	546,692	146,185	
946	·	11,216,535	1.567.520	135 460*	642.287	158,751	

#### \* Sub-bituminous

According to returns supplied to the Mines Department Tin Production by the various Mining Companies, the amount of tin in Victoria. concentrates obtained in Victoria up to 31st December, 1946, was 18,503 tons, valued at £1,255,807. 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 in gold and coal mines 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.

х			0	fold Mines		Coal Mines.		
	Year.		Miners Employed.	Persons Killed.	Persons Injured.	Miners Employed.	Persons Killed.	Persons Injured
							· · · · · · ·	
1942			1,101	1	8	1,850	••	7.
1943		• •	719		4	1.864	I	12
1944			841			1,809	$^{2}$	9
1945			643		2	1,600	3	4
1946	••		1,282*		7	$1,579^{+}$	1	7

VICTORIA-MINING ACCIDENTS, 1942 TO 1946.

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, 1941–42 TO 1945–46.

			Mai	Approximate Value				
	Year ended 30th June— Returns.		Bluestone.	Sand- stone, Granite.		Limestone.	of Stone Raised. *	
			cub. yds.	cub. yds.	tons.	tons.	£	
1942		108	902,079	29,562	16,764	381,719	437,185	
1943		98	666,405	16,697	35,617	287,886	393,090	
1944		103	591,208	11,162	31,274	346,507	417,010	
1945	. • •	93	554,978	9,867	31,290	317,469	454,849	
1946		91	652 <b>,6</b> 96	7,832	35,887	327,840	549,318	

\* 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.

Material.	Munici	palities.	Raily	vays.	Country Roads Board.	
	1944-45.	1945 -46,	1944-45.	1945-46,	1944-45.	1945-46.
Bluestone, basalt &c	1 21 100	cub. yds. 264,969	cub. yds. 84,599	cub. yds. 82,941	cub. yds. 29,860	cub. yds 52,804
Salamander .	4,505	8,574			580	· · · ·
Scoria	. 80,471	57,229	••	• •	3,500	3,296
Sandstone	. 15,925	32,639	••		33,693	48,560
Limestone .	. 124,445*	243,526*	••	••	25,107	44,373
Quartzite-Quartz .	. 17,736	30,610	••	• •	32,046	17,585
Toscanite .	. 276	• ••			•••	• ••
Ironstone .	. 11,016	22,656	• ••	. ••		••
Shale	. 1,495	3,555	• •	*		1,000
Schist	. 4,180	6,186		· · ·		
Granite	. 9,801	28,236	4,652	3,511	850	300
Other stone .	. 9,649	26,470	••	. ••		
Gravel	. 375,830	583,803	16,428	22,149	100,479	49,801
Sand	. 113,635	155,688	,		134,793	49,998
Total .	. 920,152	1,464,141	105,679	108,601	360,908	267,717

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

\* Includes limestone rubble, 87,308 cub. yds. in 1944-45 and 146,580 cub. yds. in 1945-46.

### 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.

The rotary plant installed for boring purposes at Nelson in 1942 ceased operations in 1945. It had reached its drilling capacity of 7305 feet.

The Commonwealth and State Governments jointly have conducted a scheme of shaft-sinking for the development of oil deposits at the district of Lakes Entrance. The total quantity of oil produced from oil wells drilled there amounted to 115,283 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. The net value of production during 1945–46 amounted to £122,406,082 as compared with £122,377,307 in the previous year and the average number of employees was 256,249 as compared with 257,633.

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 1926-27 to 1945-46 are given.

Attention is especially drawn to the fact that statistics of the baking industry were included for the first time in the year 1927–28.

Year ended 30th June—	Number of Factories.	Number of Persons Employed.	Value of Plant, Machinery, Land, and Buildings.	Amount of Salaries and Wages Paid.	Value of Materials used (including Containers).	Value of Output.
	1		£	£	£	£
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 7,690\\ 8,245\\ 8,197\\ 8,199\\ 8,204\\ 8,612\\ 8,896\\ 9,100\\ 9,165\\ 9,241\\ 9,250\\ 9,215\\ 9,211\\ 8,918\\ 8,738\end{array}$	$\begin{array}{c} 161,639\\ 160,357\\ 156,568\\ 151,009\\ 128,016\\ 128,265\\ 144,428\\ 156,334\\ 169,691\\ 183,390\\ 191,383\\ 201,789\\ 201,831\\ 212,461\\ 237,636\\ 258,400\\ 262,357\\ \end{array}$	$\begin{array}{c} 63,850,005\\ 67,507,020\\ 69,909,370\\ 72,011,020\\ 70,900,071\\ 68,350,575\\ 67,827,428\\ 68,834,279\\ 70,591,677\\ 71,872,906\\ 75,161,894\\ 77,207,830\\ 80,596,625\\ 84,553,699\\ 92,050,326\\ 98,157,370\\ 104,605,310\\ \end{array}$	$\begin{array}{c} 31,822,589\\ 32,087,851\\ 31,533,586\\ 30,517,535\\ 22,270,689\\ 21,258,599\\ 23,096,512\\ 24,819,143\\ 27,318,815\\ 30,598,707\\ 33,192,904\\ 37,228,543\\ 38,305,885\\ 41,920,726\\ 52,294,673\\ 67,158,613\\ 76,033,111\\ \end{array}$	$\begin{array}{c} 69,816,935\\ 69,637,778\\ 70,100,456\\ 66,770,302\\ 50,380,110\\ 51,727,685\\ 56,757,681\\ 59,776,270\\ 63,387,061\\ 74,568,265\\ 78,233,032\\ 85,926,478\\ 80,721,680\\ 93,380,751\\ 112,024,332\\ 136,058,136\\ 144,778,354 \end{array}$	$\begin{array}{c} 127,397,951\\ 128,465,317\\ 127,897,463\\ 122,811,099\\ 03,425,795\\ 93,388,617\\ 102,085,429\\ 03,482,602,192\\ 134,043,170\\ 142,692,192\\ 157,050,725\\ 152,967,611\\ 174,304,401\\ 209,348,845\\ 257,281,080\\ 277,678,940\\ 277,678,940\\ \end{array}$
1944 1945 1946	9,317 9,669 10,195	$261,299 \\ 257,633 \\ 256,249$	$\begin{array}{c} 110,\!520,\!701 \\ 116,\!379,\!925 \\ 118,\!802,\!347 \end{array}$	77,400,688 74,227,245 70,499,214	$\begin{array}{c} 149,189,244\\ 152,761,198\\ 154,224,950 \end{array}$	284,647,914 287,422,311 289,145,003

VICTORIA-GROWTH IN FACTORY PRODUCTION.

NOTE :-- Particulars of the amounts taken by working proprietors as drawings are not now available.

Factories and The first Factories Act in Victoria was passed in 1873 Wages Board and since that year many other Acts dealing with the Legislation. 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 VI., "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 was then defined as "any establishment employing on the average four persons or more, or any establishment employing less than four

persons where machinery is worked by other than manual power, whether the business carried on is that of making or repairing for the trade (wholesale or retail) or for export." 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, replacement of tools, and any other important costs of manufacture, 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 woolscouring 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.

# Victorian Year-Book, 1945-46.

The subjoined table shows the value added per person employed in each class of manufacturing industry for the year ended 30th June, 1946.

# VICTORIA—VALUE ADDED BY PROCESS OF MANUFACTURE, 1945–46.

Class of Industry.	Average Number of Persons Employed.	Value Added.	Value Added per Person Employed.
		£	£
1. Treatment of non-metalliferous mine and quarry products	2,659	1,615,400	608
2. Bricks, pottery, glass, &c	3,574	1,715,095	480
3. Chemicals, dyes, explosives, paint, oils, and grease	11,961	7,395,125	618
4. Industrial metals, machines, imple- ments, and conveyances	88,421	39,165,141	443
5. Precious metals, jewellery, and plate	1,602	721,505	450
6. Textiles and textile goods (not dress)	30,215	12,415,596	411
7. Skins and leather (not clothing or footwear)	4,558	2,331,064	511
8. Clothing	38,552	13,236,705	343
9. Food, drink, and tobacco	33,811	19,695,942	583
10. Woodworking and basketware	10,139	4,196,609	414
11. Furniture, bedding, &c	3,724	1,652,635	444
12. Paper, stationery, printing, book- binding, &c	13,723	7,189,107	524
13. Rubber	3,644	2,123,914	583
14. Musical instruments	83	36,101	435
15. Miscellaneous products	6,570	3,208,797	488
16. Heat, light, and power	3,013	5,707,346	1,894
Total	256,249	122,406,082	478*

\* 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 30th June	Value of Output.	Expenses of Manufactur- ing.*	Value Added.	Average Number of Persons Employed.	Value Added per Person Employed.	
1.	2. 3.		4.	5.	6.	
	£	£	£		£	
937	142,692,192	83,979,911	58,712,281	191,383	307	
1938	157,050,725	92,161,335	64,889,390	201,789	322	
	152,967,611	86,971,542	65,996,069	201,831	327	
1940	174,304,401	100,273,914	74,030,487	212,461	348	
	209,348,845	120,348,134	89,000,711	237,636	375	
942	257,281,080	146,343,466	110,937,614	258,400	429	
	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	
945	287,422,311	165,045,004	122,377,307	257,633	475	
1946	289,145,003	166,738,921	122,406,082	256,249	478	

\* "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. NOTE.--Column 3 deducted from column 2 gives column 4, which when divided by column 5 gives column 6.

The classification of industries, as adopted in 1930, **Production** of different The data shown were is set out in the next table. industries 1945-1946. compiled from returns rendered compulsorily bv all factory proprietors in Victoria. It should, however, be noted that, with the effect of war conditions still being felt, the records of production of certain industries, whilst measuring the volume and value of such production, represent, in many cases, and in some instances to a considerable degree, products other than that for which the firms are classified.

# VICTORIAN

# FACTORIES-POWER, WORKERS,

MANUFAC

Nature of Industry.	Factories.	Rated Horse- power	A verage Empl		Salaries and Wages
		of Engines.	Males.	Females.	Paid.
Aller	No.	<b>H</b> .P.	No.	No.	£
Class 1.—Non-metalliferous Mine and Quarry Products	178	37,227	2,512	147	815,994
Briquetting, &c	1 1	22,950	338	11	153,059
Lime, Plaster of Paris and asphalt	20	2,305	203	15	70,584
Fibrous plaster and products	61	321	509	20	147,161
Marble, slate, &c Cement and cement goods	38 41	$1,683 \\ 8,553$	$266 \\ 979$	$\frac{10}{32}$	76,785 286,854
Other	17	1,415	217	59	81,551
			2 100	385	<u> </u>
Glass 2.—Bricks, Pottery, Glass, &c. Bricks, tiles, and firebricks	100 51	<b>18,563</b> 11,572	<b>3,189</b> 1,336	40	1,002,859 383,530
Earthenware, china, and porcelain,		ļ			
. &c	28	2,415	. 870	222	288,816
Other	$\frac{19}{2}$	$\frac{4,574}{2}$	970 13	122 1	326,983 3,530
				-	0,000
Class 3.—Chemicals, Dyes, Ex- plosives, Paint, Oils, and Grease Industrial and heavy chemicals	<b>272</b> 47	<b>61,222</b> 10,382	<b>8,895</b> 1,445	<b>3,066</b> 171	3,714,276 570,694
Pharmaceutical and toilet prepara-					
tions	48	2,329	690	$1,040 \\ 886$	414,543
Explosives	$     11 \\     42 $	$25,557 \\ 2,464$	$2,806 \\ 528$	150	1,213,079 192,117
Oils, vegetable (including oilcake)	. 42	634	. 98	150	39,221
Oils, mineral	15	605	325	64	113,492
Oils, animal	5	1,775	166	15	60,097
Boiling-down, tallow refining, and		0.000	001		
bone milling works	27	2,992	$\frac{381}{559}$	$\frac{4}{179}$	131,555
Soap and candles	$\frac{16}{8}$	$2,117 \\ 9,628$	1,145	179	213,617 419,340
Chemical fertilizers	· 4ĭ	1,106	285	224	142,161
Other	8	1,633	467	292	204,360
Class 4.—Industrial Metals,		· · · · · · · · · · · · · · · · · · ·			
Machines, Implements, and	0.024	204,471	78,383	10,038	00 970 774
Conveyances Smelting, refining, &c., of iron and	2,934	204,471	10,000	10,040	26,876,774
steel	10	6,752	1,096	30	410,716
Foundries, ferrous	212	12,566	2,645	96	796,963
ac	315	42,439	13,567	1,153	4,622,060
Other engineering	344	14,468	5,979	537	1,970,270
Extracting and refining of other	10				
metals and alloys	18	449	161	1 404	58,178
Electrical apparatus	$\begin{array}{c} 172\\25\end{array}$	$8,844 \\ 13,146$	$4,905 \\ 7,162$	$1,494 \\ 100$	1,749,827 2,344,878
Motor vehicles—	20	10,110	1,204	100	2,011,010
Construction and accomply					
Construction and assembly	14	3,817	1,618	223	636,033
Repairs	988	5,351	5.827	520	636,033 1,509,299
Repairs Motor-bodies	988 74	5,351 6,890	$\frac{5.827}{3.347}$	$520 \\ 258$	1,509,299
Repairs	988 74 44	5,351 6,890 239	$5.827 \\ 3.347 \\ 192$	$\begin{array}{r} 520\\ 258\\ 6\end{array}$	1,509,299 1,160,482 38,964
Repairs	988 74 44 49	5,351 6,890 239 4,490	$5.827 \\ 3.347 \\ 192 \\ 1.829$	$\begin{array}{r} 520\\ 258\\ 6\\ 682\end{array}$	1,509,299 1,160,482 38,964 764,360
Repairs Motor-bodies Horse-drawn vehicles Motor accessories Aircraft	988 74 44	5,351 6,890 239	$5.827 \\ 3.347 \\ 192$	$\begin{array}{r} 520\\ 258\\ 6\end{array}$	$\begin{smallmatrix} 1,509,299\\ 1,160,482\\ 38,964\\ 764,360\\ 2,654,255 \end{smallmatrix}$
Repairs Motor-bodies Horse-drawn vehicles Motor accessories Aircraft	988 74 44 49 30	5,351 6,890 239 4,490 5,491	5.827 3.347 192 1.829 6.919	$520 \\ 258 \\ 6 \\ 682 \\ 13,26$	1,509,299 1,160,482 38,964 764,360
Repairs	988 74 44 49 30 23	5,351 6,890 239 4,490 5,491 499	5.827 3.347 192 1,829 6,919 437	$520 \\ 258 \\ 6 \\ 682 \\ 13,26 \\ 136$	$\begin{array}{c ccccc} 1,509,299\\ 1,160,482\\ & 38,964\\ & 764,360\\ 2,654,255\\ & 150,201\\ \end{array}$
Repairs	$ \begin{array}{r} 988\\74\\44\\30\\23\\3\end{array}\\3\end{array} $	5,351 6,890 239 4,490 5,491 499 5,407	5.827 3.347 192 1.829 6.919 437 1.472	520 258 6 682 13,26 136 75	$\begin{array}{c} 1,509,299\\ 1,160,482\\ 38,964\\ 764,360\\ 2,654,255\\ 150,201\\ 523,235\end{array}$
Repairs	988 74 44 49 30 23	5,351 6,890 239 4,490 5,491 499	5.827 3.347 192 1,829 6,919 437	$520 \\ 258 \\ 6 \\ 682 \\ 13,26 \\ 136$	$\begin{array}{c c} 1,509,299\\ 1,160,482\\ 38,964\\ 764,360\\ 2,654,255\\ 150,201\\ \end{array}$
Repairs Motor-bodies Horse-drawn vehicles Aircraft Cycles, foot and hand driven, &c. Ship and boat building and repairing, marine engineering Government Municipal and other	$ \begin{array}{r} 988\\74\\44\\30\\23\\3\end{array}\\3\end{array} $	5,351 6,890 239 4,490 5,491 499 5,407 1,924 4,539	5.827 $3.347$ $192$ $4.829$ $6.919$ $437$ $1,472$ $1,078$ $1,368$	520 258 6 682 13,26 136 75 15 224	$\begin{array}{c} 1,509,299\\ 1,160,482\\ 38,964\\ 764,360\\ 2,654,255\\ 150,201\\ 523,235\\ 414,528\\ 483,517\end{array}$
Repairs	988 74 49 30 23 3 23 42 57	5,351 6,890 239 4,490 5,491 499 5,407 1,924 4,539	5.827 3.347 192 1.829 6.919 437 1.472 1.078 1.368 4.633	520 258 6 682 13,26 136 75 15 224 272	$\begin{array}{c} 1,509,299\\ 1,160,482\\ 38,964\\ 764,360\\ 2,654,255\\ 150,201\\ \\ 523,235\\ 414,528\\ 483,517\\ 1,584,777\\ \end{array}$
Repairs	988744930233234257125	5,351(6,8902394,4905,4914995,4071,9244,53912,86110,201	5.827 3.347 192 1,829 6,919 437 1,472 1,078 1,368 4,633 2,239	520 258 6 682 13,26 136 75 15 224 272 225	$\begin{array}{c} 1,509,299\\ 1,160,482\\ 38,964\\ 764,360\\ 2,654,255\\ 150,201\\ \\ 523,235\\ 414,528\\ 483,517\\ 1,584,777\\ 723,210\\ \end{array}$
Repairs	988 74 44 49 30 23 23 42 57 125 189	5,351 6,890 239 4,490 5,491 499 5,407 1,924 4,539 12,861 10,201 9,241	5.827 3.347 192 1.829 6.919 437 1.472 1.078 1.368 4.633 2.239 5.009	520 258 682 13,26 136 75 15 224 272 225 1,574	$\begin{array}{c} 1,509,299\\ 1,160,482\\ 38,964\\ 764,360\\ 2,654,255\\ 150,201\\ \\ 523,235\\ 414,528\\ 483,517\\ 1,584,777\\ 723,210\\ \end{array}$
Repairs	988 74 44 49 30 23 23 42 57 125 189 32	5,351 6,890 239 4,490 5,491 499 5,407 1,924 4,539 12,861 10,201 9,241 2,201	5.827 3.347 192 1,829 6,919 437 1,472 1,078 1,368 4,633 2,239 5,009 934	520 258 6 682 13,26 136 136 224 272 225 1,574 1,574 124	$\begin{array}{c} 1,509,299\\ 1,160,482\\ 38,964\\ 764,360\\ 2,654,255\\ 150,201\\ \\ \\ \\ 523,235\\ 414,528\\ \\ 483,517\\ 1,584,777\\ 723,210\\ 1,817,134\\ 320,786\\ \end{array}$
Repairs	988 74 44 49 30 23 23 42 57 125 57 125 189 32 19	$\begin{array}{c} 5,351\\ 6,890\\ 239\\ 4,490\\ 5,491\\ 499\\ 5,407\\ 1,924\\ 4,539\\ 12,861\\ 10,201\\ 9,241\\ 2,201\\ 2,011\\ \end{array}$	5.827 3.347 1.92 1.829 6.919 4.37 1.472 1.078 1.368 4.633 2.239 5.009 934 777	$\begin{array}{c} 520\\ 258\\ 682\\ 13,26\\ 13,6\\ 136\\ 136\\ 224\\ 272\\ 225\\ 1,574\\ 124\\ 99\\ 99\\ 99\end{array}$	$\begin{array}{c} 1,509,299\\ 1,160,482\\ 38,964\\ 764,360\\ 2,654,255\\ 150,201\\ \\ 523,235\\ 414,528\\ 483,517\\ 1,584,777\\ 723,210\\ 1,817,134\\ 320,786\\ 256,188\end{array}$
Repairs	988 74 49 30 23 23 42 57 125 189 32 19 4	5,3516,8902394,4905,4071,9244,53912,86110,2019,2412,2012,01123	5.827 3.347 1.92 1.829 6.919 437 1.472 1.078 1.368 4.633 2.239 5.009 9344 777 209	$\begin{array}{c} 520\\ 258\\ 6\\ 682\\ 13,26\\ 136\\ 136\\ 224\\ 272\\ 225\\ 1,574\\ 124\\ 99\\ 1\\ 1\end{array}$	$\begin{array}{c} 1,509,299\\ 1,160,482\\ 38,964\\ 764,360\\ 2,654,255\\ 150,201\\ 5223,235\\ 414,528\\ 483,517\\ 1,584,777\\ 723,210\\ 1,817,134\\ 320,786\\ 256,188\\ 70,210\\ \end{array}$
Repairs	988 74 44 49 30 23 23 42 57 125 125 125 125 125 125 125 125 125 125	$\begin{array}{c} 5,351\\ 6,890\\ 239\\ 4,490\\ 5,491\\ 499\\ 5,407\\ 1,924\\ 4,539\\ 12,861\\ 10,201\\ 9,241\\ 2,201\\ 2,011\\ \end{array}$	5.827 3.347 1.92 1.829 6.919 437 1.472 1.078 1.368 4.633 2.239 5.009 5.009 934 777 209 107	$\begin{array}{c} 520\\ 258\\ 682\\ 13,26\\ 13,6\\ 136\\ 136\\ 224\\ 272\\ 225\\ 1,574\\ 124\\ 99\\ 99\\ 99\end{array}$	$\begin{array}{c} 1,509,299\\ 1,160,482\\ 38,964\\ 764,360\\ 2,654,255\\ 150,201\\ 523,235\\ 414,528\\ 483,517\\ 1,584,777\\ 723,210\\ 1,817,134\\ 320,786\\ 256,188\\ 70,210\\ 38,406\\ \end{array}$
Repairs	988 74 44 49 30 23 23 42 57 125 1899 32 189 32 19 4 6	$\begin{array}{c} 5.351\\ 6.890\\ 239\\ 4.490\\ 5.491\\ 499\\ 5.407\\ 1.924\\ 4.539\\ 12.861\\ 10.201\\ 9.241\\ 2.201\\ 2.011\\ 2.011\\ 2.01\\ 3.659\\ \end{array}$	5.827 3.347 1.92 1.829 6.919 437 1.472 1.078 1.368 4.633 2.239 5,009 934 777 209 107	520 258 6 682 13,6 136 75 15 224 272 225 1,574 124 99 1 33	$\begin{array}{c} 1,509,299\\ 1,160,482\\ 38,964\\ 764,360\\ 2,654,255\\ 150,201\\ 523,235\\ 414,528\\ 483,517\end{array}$

TURING COSTS AND VALUE OF PRODUCTION, 1945-46.

Fuel and Light Used.	Lubricat- ing Oil and Water.	Repairs to Plant, &c.	Materials Used, Including Containers.	Articles Produced or Work Done.	Value Added	Land and Buildings.	Plant and Machinery.
£	£	£	£	£	£	£	£
<b>242,091</b> 73,485 31,399 1,301 3,423 122,815 9,668	<b>16,278</b> 7,808 1,363 600 735 5,223 549	<b>108,347</b> 13,396 11,432 6,638 4,753 58,844 13,284	$\begin{array}{c} \textbf{1,333,472}\\ 146,735\\ 325,966\\ 220,643\\ 45,713\\ 453,330\\ 141,085\end{array}$	$\begin{array}{c} \textbf{3,315,588}\\ 504,117\\ 552,041\\ 473,058\\ 183,785\\ 1,296,952\\ 305,635 \end{array}$	<b>1,615,400</b> 262,693 181,881 243,876 129,161 656,740 141,049	<b>943,917</b> 326,170 63,014 93,511 46,731 365,801 48,690	<b>1,311,900</b> 563,018 81,528 21,475 37,182 571,250 37,447
<b>360,812</b> 124,355	<b>20,228</b> 7,854	<b>125,999</b> 43,180	<b>496,177</b> 67,655	<b>2,718,311</b> 756,382	1,715,095 513,338	<b>798,248</b> 328,610	<b>759,723</b> 377,667
50,553 185,836 68	2,949 9,397 28	$20,061 \\ 62,701 \\ 57$	$78,938 \\ 348,516 \\ 1,068$	$566,306 \\ 1,388,220 \\ 7,403$	$413,805 \\781,770 \\6,182$	$201,523 \\ 262,250 \\ 5,865$	$149,654 \\ 231,936 \\ 466$
<b>420,004</b> 106,582	<b>60,232</b> 11,257	<b>424,261</b> 95,578	<b>11,961,176</b> 1,496,291	<b>20,260,798</b> 2,970,628	<b>7,395,125</b> 1,260,920	<b>6,104,394</b> 571,805	<b>6,752,375</b> 1,006,232
$13,705 \\ 75,002 \\ 11,914 \\ 6,415 \\ 8,078 \\ 22,856$	$\begin{array}{r} 3,574\\ 16,120\\ 1,342\\ 525\\ 3,582\\ 3,613\end{array}$	$25,140 \\99,345 \\17,475 \\4,440 \\4,731 \\9,117$	$\begin{array}{r} 1,905,805\\950,942\\1,043,403\\504,815\\470,203\\135,391 \end{array}$	3,226,080 2,844,072 1,624,138 600,480 650,642 260,659	$\begin{array}{r} 1,277,856\\ 1,702,663\\ 550,004\\ 84,285\\ 164,048\\ 89,682\end{array}$	$\begin{array}{r} 426,781\\ 3,599,605\\ 241,018\\ 33,925\\ 68,071\\ 100,436\end{array}$	$\begin{array}{c} 291,255\\ 3,992,704\\ 131,979\\ 27,856\\ 70,107\\ 86,383\end{array}$
$\begin{array}{r} 46,711 \\ 54,884 \\ 50,658 \\ 6,289 \\ 16,910 \end{array}$	3,622 3,887 9,100 950 2,660	$20,482 \\ 46,639 \\ 81,862 \\ 6,199 \\ 13,253$	$\begin{array}{r} 241,\!689\\858,\!989\\2,\!806,\!442\\741,\!003\\806,\!203\end{array}$	514,899 1,613,919 3,676,922 1,132,384 1,145,975	$\begin{array}{r} 202,395\\649,520\\728,860\\377,943\\306,949\end{array}$	$\begin{array}{c} 137,090\\ 185,865\\ 465,131\\ 155,321\\ 119,352 \end{array}$	$130,454 \\151,597 \\655,372 \\55,755 \\152,681$
1,138,727	122,154	1,634,214	35,182,909	77,243,145	39,165,141	17,174,574	15,661,705
80,120	2,238	52,058	254,200 619,188	908,663 1,882,043	520,047 1,138,268	$194,002 \\ 487,793$	240,418 330,237
79,284 183,675 69,359	3,814 24,442 9,897	41,489 300,034 112,641	5,614,122 1,914,029	13,154,372 5,028,087	7,032,099	2,410,725 1,195,642	2,577,135
10,234 53,733 65,970	$197 \\ 4,369 \\ 2,399$	4,893 83,104 162,728	$\begin{array}{r} 477,112\\ 2,281,565\\ 1,660,375\end{array}$	$\begin{array}{r} 621,336 \\ 5,045,516 \\ 4,525,198 \end{array}$	$\substack{128,900\\2,622,745\\2,633,726}$	$\begin{array}{r} 61,523\\933,375\\1,487,546\end{array}$	$\begin{array}{r} 25,436 \\ 589,418 \\ 1,116,680 \end{array}$
$19,898\\51,700\\24,572\\1,939\\30,347\\49,138\\6,424$	$\begin{array}{r} 4,298\\9,395\\4,202\\275\\5,004\\11,285\\1,940\end{array}$	$\begin{array}{r} 87,993\\59,656\\87,183\\1,871\\42,532\\26,570\\10,649\end{array}$	$\begin{array}{r} 1,173,408\\ 1,360,340\\ 1,522,664\\ 29,949\\ 666,082\\ 4,179,030\\ 297,312\\ \end{array}$	$\begin{array}{r} 2,194,047\\ 3,967,049\\ 3,514,868\\ 100,524\\ 1,969,818\\ 7,359,659\\ 529,567\end{array}$	$\begin{array}{r} 908,450\\ 2,485,958\\ 1,876,247\\ 66,490\\ 1,225,853\\ 3,093,636\\ 213,242\end{array}$	$\begin{array}{c} 501,025\\ 1,973,061\\ 728,636\\ 57,715\\ 382,798\\ 1,288,575\\ 88,920\\ \end{array}$	$\begin{array}{r} 365,403\\ 482,342\\ 492,638\\ 10,454\\ 295,740\\ 850,611\\ 37,683\end{array}$
11,452 7,329	$2,558 \\ 1,196$	$14,323 \\ 14,840$	$277,586 \\ 210,977$	867,894 983,812	$561,975 \\749,470$	$     416,477 \\     93,059 $	$356,003 \\ 64,520$
$\begin{array}{c} 32,847\\ 112,480\\ 45,574\\ 0,64,191\\ 0,15,847\\ 32,417\\ 1,538\\ 1,6,090\\ 43,522\\ 1,0,158\\ 28,889\\ \end{array}$	$\begin{array}{c} 3,150\\ 7,661\\ 2,571\\ 7,432\\ 2,626\\ 1,814\\ 83\\ 208\\ 5,461\\ 889\\ 2,750\\ \end{array}$	$\begin{array}{c} 34.760\\ 106,794\\ 40,621\\ 172,102\\ 22,682\\ 18,686\\ 785\\ 9,967\\ 39,519\\ 52,359\\ 33,375\end{array}$	$\begin{array}{r} 429,738\\ 1,461,788\\ 680,733\\ 4,521,329\\ 512,972\\ 238,927\\ 30,936\\ 135,611\\ 2,538,917\\ 1,389,650\\ 704,369\end{array}$	$\begin{array}{c} 1,368,037\\3,747,487\\1,919,708\\7,984,839\\1,054,673\\677,582\\121,055\\215,823\\3,780,215\\2,233,733\\1,487,540\end{array}$	$\begin{array}{r} 867,542\\ 2,058,764\\ 1,150,209\\ 3,219,785\\ 500,546\\ 385,738\\ 87,713\\ 63,947\\ 1,152,796\\ 780,677\\ 718,157\end{array}$	$\begin{array}{c} 212,085\\ 609,043\\ 363,020\\ 971,240\\ 269,021\\ 127,370\\ 22,978\\ 33,856\\ 1,691,135\\ 191,730\\ 382,224 \end{array}$	$\begin{array}{c} 229,495\\719,690\\261,217\\850,272\\214,757\\127,901\\5,574\\23,570\\3,775,971\\101,722\\371,075\end{array}$

# VICTORIAN FACTORIES-POWER, WORKERS, MANUFACTURING

Nature of Industry.	Factories.	Rated Horse- power	Average Empl	Number oyed.	Salaries and Wages
Mature of Industry.	r secones.	of Engines.	Males.	Females.	Paid.
	No.	H.P.	No.	No.	£
Class 5.—Precious Metals, Jewellery					
and Plate Jewellery	125 52	<b>2,351</b> 284	1,314 425	288 118	433,617 138,761
Jewellery	14	264	362	131	142,01
Gold, silver, and electroplate	59	1,803	527	39	152,839
Class 6.—Textiles and Textile Goods					
(not dress) Cotton	490 36	61,333 9,911	<b>13,208</b> 1,256	<b>16,681</b> 1,519	7,233,154 695,627
Wool, worsted, &c. (including wool				ŕ	, í
scouring)	65	30,769	5,779	5,315	2,855,086 2,501,753
Hosiery and other knitted goods Silk, natural	255 3	7,851 1,072	$3,336 \\ 105$	8,200 191	2,501,753
Rayon, nylon, and other synthetic					
fibres	. 6 14	$493 \\ 1,891$	$33 \\ 685$	$107 \\ 181$	30,21
Rope and cordage	14 12	1,891 5,899	$^{685}_{1,125}$	607	237,162 467,582
Canvas goods, tents, &c.	33	147	263	226	114,472 45,894
Bags and sacks	$\begin{array}{c} 22\\44\end{array}$	$\tfrac{266}{3,034}$	$     \begin{array}{r}       132 \\       494     \end{array} $	$^{47}_{288}$	45,894 209,420
Other	44	5,054	494	200	209,420
Class 7.—Skins and Leather (not					
Clothing or Footwear) Furriers and fur dressing Fellmongery and woolscouring Tanning and leather dressing	216 53	14,084 386	<b>3,871</b> 222	1,013 171	1,474,729 96,469
Furriers and fur dressing	30	3,452	801	12	261,033
Fanning and leather dressing	44	9,227	2,141	116	778,86
saddlery, narness, and whips	8	$\begin{array}{c} 76 \\ 552 \end{array}$	93 90	83 38	42,131 41,094
Machine beiting Bags and trunks	62	294	416	469	200,868
Other leather goods	12	97	108	124	54,269
Class 8.— Clothing	1,933	16,282	11,025	27,527	8,018,580
Tailoring and readymade clothing Waterproof and oilskin clothing	388	$1,615 \\ 497$	$1,943 \\ 85$	$^{6,489}_{208}$	1,675,620 80,799
Dressmaking	483	1,479	849	9,031	1,782,477
Millinery	69	699	214	938	$\begin{array}{r} 1,782,477\\ 239,235\\ 583,571\\ 178,805\end{array}$
Shirts, collars, and underclothing	108 19	$1,085 \\ 407$	$351 \\ 107$	$2,915 \\ 784$	583,571 178,805
Handkerchiefs, ties, and scarves	15	35	42	223	54,828
Hats and caps	24	1,032	436	254	189,976
Gloves	23	$\begin{smallmatrix}&144\\5,337\end{smallmatrix}$	$107 \\ 4,939$	$498 \\ 4,525$	118,498
Boots and shoes Boot repairing	469	5,557 605	4,939	4,525	2,353,753 74,390
BOOU accessories	18	229	96	134	50,002
Umbrellas and walking sticks	3 86	2,946	$^{9}_{1,013}$	$\begin{array}{c} 14 \\ 1.053 \end{array}$	5,431
Dyeworks and cleaning	27	165	1,013	436	89,764
Class 9Food, Drink, and Tobacco	1,656	119,953	23,811	10,000	9,419,282 343,275
Grain milling	$40 \\ 22$	9,561 7 265	963 742	58 436	343,275
Cereal foods and starch	8	7,265	126	15	48,252
Chaff-cutting and corn crushing	81	2,225	335	25	87,006
Bakeries	746	3,568	$^{3,176}_{580}$	$936 \\ 544$	930,304
Biscuits Confectionery	$\frac{11}{76}$	$1,706 \\ 9,151$	1,025	1,245	246,805 541,361 1,102,351
Jam, fruit, and vegetable canning	34	$9,151 \\ 7,441$	2,432	1,822	1,102,351
Pickles, sauces, and vinegar	18	1,450	371	239	165.199
Bacon curing	$     20 \\     148 $	$4,056 \\ 20,857$	$^{640}_{3,265}$	75 609	218,321 1,235,307
Margarine and butterine	9	390	86	15	31,553
Meat and fish preserving, meat	10	0 100	670	410	210 004
extracts	12 70	$2,128 \\ 3,005$	679 670	$410 \\ 775$	310,686 331,111
ce and refrigerating	89	22,481	2,264	178	754,533
Aerated waters, cordials, &c.	. 89	1.602	866	213	291,013
Breweries	8	6,612	1,492	34	621,716

# Costs and Value of Production, 1945-46-continued.

Fuel and Light Used.	Lubricat- ing Oil 9nd Water.	Repairs to Plant, &c.	Materials Used, Including Containers.	Articles Produced or Work Done.	Value Added.	Land and Buildings.	Plant and Machinery
£	£	£	£	£	£	£	£
<b>15,646</b> 2,983 2,195 10,468	<b>1,896</b> 472 496 928	<b>15,529</b> 5,994 2,530 7,005	<b>594,480</b> 365,261 100,237 128,982	<b>1,349,056</b> 679,573 272,249 397,234	<b>721,505</b> 304,863 166,791 249,851	<b>343,760</b> 136,463 66,535 140,762	<b>130,889</b> 34,677 36,639 59,573
<b>497,635</b> 54,125	<b>61,093</b> 6,452	<b>671,636</b> 65,180	<b>15,754,141</b> 1,783,594	<b>29,183,535</b> 3,320,384	<b>12,199,030</b> 1,411,033	<b>4,821,139</b> 691,609	<b>3,989,692</b> 945,901
257,994 123,117 3,548	$29,751 \\ 15,909 \\ 336$	$301,271 \\ 197,772 \\ 4,670$	6,263,676 4,408,784 142,329	$11,752,967 \\ 8,615,732 \\ 297,826$	$\begin{array}{r} 4,900,275\ 3,870,150\ 146,943 \end{array}$	1,600,950 1,546,500 67,835	1,410,896 892,739 89,771
$\begin{array}{c} 2,246\\ 10,172\\ 26,751\\ 2,102\\ 2,591\\ 14,989 \end{array}$	$552 \\ 1,832 \\ 3,691 \\ 429 \\ 391 \\ 1,750$	$\begin{array}{r} 2,389\\ 12,025\\ 49,268\\ 5,897\\ 2,802\\ 30,362\end{array}$	$73,430\\431,795\\994,641\\432,327\\176,863\\1,046,702$	$137,599 \\ 701,274 \\ 1,843,861 \\ 714,058 \\ 271,808 \\ 1,528,026$	$58,982 \\ 245,450 \\ 769,510 \\ 273,303 \\ 89,161 \\ 434,223$	$\begin{array}{r} 27,267\\ 186,101\\ 289,974\\ 134,539\\ 44,203\\ 232,161\end{array}$	$\begin{array}{r} 16,483\\232,463\\226,217\\11,707\\18,870\\144,645\end{array}$
<b>113,424</b> 2,760 57,966 46,577 573 1,817 2,731 1,000	<b>28,822</b> 619 13,822 13,517 86 233 449 96	<b>150,364</b> 4,344 47,647 87,625 882 2,065 5,075 2,726	<b>3,629,068</b> 296,936 639,306 2,055,072 114,714 109,796 340,146 73,098	<b>6,469,308</b> 521,236 1,201,480 3,430,200 182,196 232,635 733,113 168,448	<b>2,547,630</b> 216,577 442,739 1,227,409 65,941 118,724 384,712 91,528	<b>1,206,083</b> 151,328 297,696 497,837 30,533 49,147 151,664 27,878	$\begin{array}{c} \textbf{570,639} \\ 22,067 \\ 169,745 \\ 298,080 \\ 2,340 \\ 40,621 \\ 26,552 \\ 11,234 \end{array}$
$\begin{array}{c} \textbf{202,650}\\ \textbf{39,404}\\ \textbf{3,024}\\ \textbf{30,275}\\ \textbf{6,812}\\ \textbf{11,069}\\ \textbf{2,678}\\ \textbf{902}\\ \textbf{9,273}\\ \textbf{1,625}\\ \textbf{37,505}\\ \textbf{3,720}\\ \textbf{1,817}\\ \textbf{104}\\ \textbf{52,426}\\ \textbf{2,016} \end{array}$	$\begin{array}{c} \textbf{17,472}\\ 2,116\\ 196\\ 688\\ 1,386\\ 362\\ 63\\ 895\\ 26\\ 3,977\\ 351\\ 277\\ 1\\ 1\\ 5,592\\ 148 \end{array}$	$\begin{array}{c} \textbf{305,312}\\ \textbf{37,248}\\ \textbf{1,948}\\ \textbf{33,440}\\ \textbf{6,905}\\ \textbf{16,423}\\ \textbf{20,062}\\ \textbf{20,062}\\ \textbf{1,008}\\ \textbf{8,109}\\ \textbf{4,874}\\ \textbf{129,107}\\ \textbf{1,805}\\ \textbf{9,213}\\ \textbf{6}\\ \textbf{32,733}\\ \textbf{2,431} \end{array}$	$\begin{array}{c} \textbf{15,166,095}\\ \textbf{3,529,486}\\ \textbf{164,852}\\ \textbf{3,534,454}\\ \textbf{475,014}\\ \textbf{475,014}\\ \textbf{475,014}\\ \textbf{475,014}\\ \textbf{475,014}\\ \textbf{315,125}\\ \textbf{310,603}\\ \textbf{173,648}\\ \textbf{173,648}\\ \textbf{173,648}\\ \textbf{4,020,905}\\ \textbf{131,884}\\ \textbf{402,0905}\\ \textbf{131,884}\\ \textbf{140,476}\\ \textbf{9,234}\\ \textbf{402,876}\\ \textbf{220,215} \end{array}$	$\begin{array}{c} \textbf{28,928,234} \\ \textbf{6,403,713} \\ \textbf{300,176} \\ \textbf{6,408,703} \\ \textbf{1,006,133} \\ \textbf{2,762,321} \\ \textbf{630,926} \\ \textbf{485,014} \\ \textbf{490,530} \\ \textbf{383,190} \\ \textbf{7,765,401} \\ \textbf{366,260} \\ \textbf{276,184} \\ \textbf{19,623} \\ \textbf{1,206,138} \\ \textbf{423,922} \end{array}$	<b>13,236,705</b> 2,795,459 130,156 2,889,140 516,714 893,114 292,609 172,438 298,605 199,671 3,573,907 228,500 124,401 10,278 912,511 199,112	$\begin{array}{c} \textbf{5,462,115}\\ \textbf{1,058,076}\\ \textbf{66,334}\\ \textbf{231,880}\\ \textbf{231,880}\\ \textbf{482,659}\\ \textbf{257,417}\\ \textbf{67,245}\\ \textbf{92,345}\\ \textbf{92,345}\\ \textbf{63,213}\\ \textbf{742,870}\\ \textbf{446,868}\\ \textbf{33,156}\\ \textbf{14,040}\\ \textbf{298,185}\\ \textbf{94,824} \end{array}$	$\begin{array}{c} \textbf{1,787,796}\\ 263,292\\ 22,726\\ 195,433\\ 40,149\\ 132,677\\ 69,758\\ 3,279\\ 44,810\\ 23,840\\ 630,515\\ 39,384\\ 15,067\\ 124\\ 287,065\\ 19,677\\ \end{array}$
<b>1,287,712</b> 63,155 57,543 3,988 7,392 139,311 25,645 50,933 75,350 15,258 27,092 335,250 4,268	$\begin{array}{c} \textbf{167,504}\\ 6,475\\ 7,372\\ 688\\ 1,213\\ 20,818\\ 1,910\\ 3,905\\ 16,175\\ 3,626\\ 3,328\\ 20,775\\ 1,043\\ \end{array}$	<b>931,906</b> 41,337 44,788 7,828 3,886 63,682 14,197 71,993 98,518 17,591 15,694 149,84 3,409	$\begin{array}{r} \textbf{48,455,313}\\\textbf{3,511,565}\\\textbf{1,276,276}\\\textbf{3,99,393}\\\textbf{609,307}\\\textbf{2,981,031}\\\textbf{502,134}\\\textbf{1,680,257}\\\textbf{4,925,584}\\\textbf{823,669}\\\textbf{1,808,682}\\\textbf{13,497,788}\\\textbf{236,018} \end{array}$	<b>70,538,377</b> 4,222,476 2,080,412 512,076 801,018 5,247,154 1,124,601 3,176,177 6,919,633 1,253,176 2,256,837 16,458,087 308,059	<b>19,695,942</b> 599,944 694,433 100,179 179,220 2,033,312 580,715 1,369,089 1,804,006 393,032 402,041 2,454,430 63,321	$\begin{array}{c} \textbf{11,877,394} \\ 688,849 \\ 472,007 \\ 72,477 \\ 109,978 \\ 1,667,986 \\ 224,956 \\ 525,911 \\ 840,595 \\ 205,918 \\ 242,331 \\ 1,525,425 \\ 1,525,425 \\ 1,7,827 \end{array}$	$\begin{array}{c} \textbf{7,754,106}\\ \textbf{497,473}\\ \textbf{451,495}\\ \textbf{43,108}\\ \textbf{50,112}\\ \textbf{477,092}\\ \textbf{109,041}\\ \textbf{423,422}\\ \textbf{567,916}\\ \textbf{115,439}\\ \textbf{104,248}\\ \textbf{1,344,427}\\ \textbf{13,209} \end{array}$
27,654 28,675 119,237 14,911 75,943	5,406 5,492 8,582 3,563 19,470	$ \begin{vmatrix} 27,718 \\ 30,262 \\ 121,818 \\ 29,536 \\ 70,781 \end{vmatrix} $	$\begin{array}{r} 2,154,730\\ 1,734,192\\ 188,622\\ 779,448\\ 1,399,001 \end{array}$	$\begin{array}{c} 2,963,365\\ 2,695,946\\ 1,632,235\\ 1,455,962\\ 3,013,132 \end{array}$	$\begin{array}{c c} 747,857\\ 897,325\\ 1,193,976\\ 628,504\\ 1,447,937\end{array}$	$\begin{smallmatrix} 190,646\\ 484,389\\ 1,404,773\\ 296,034\\ 748,895 \end{smallmatrix}$	139,945 185,646 682,535 139,093 815,857

# VICTORIAN FACTORIES-POWER, WORKERS, MANUFACTURING

Nature of Industry.	Factories.	Rated Horse- power	A verage Empl	Number oyed.	Salaries and Wages
· · · · · · · · · · · · · · · · · · ·	`	of Engines.	Males.	Females.	Paid.
	No.	H.P.	No.	No.	£
Class 9.—continued. Distilleries	. 9	1,443	217	21	88,337
37 1/5	17	1,517	388	12	160,299
Winemaking	27	366	122	8	30,068
Bottling	$\begin{array}{c}19\\12\end{array}$	$375 \\ 2,044$	$253 \\ 826$	$\begin{array}{c} 61 \\ 1,261 \end{array}$	102,016
Tobacco, cigars, cigarettes	32	2,044 2,933	969	704	516,643 454,361
lce cream	25	1,685	196	104	454,361 87,879
Sausage skins	$     12 \\     22 $	153	$\frac{315}{813}$	$39 \\ 161$	115,421
Other	22	5,174	010	. 101	268,181
Class 10 Woodworking and Basket-	- ·				
ware	819 332	53,449	<b>9,660</b> 4,388	479 105	2,715,949
Sawmills	234	$29,891 \\ 6,598$	2,017	87	1,224,797 555,291 68,222
Cooperage	10	551	189	1	68,222
Boxes and cases	117	12,786	1,938	75	546,729 224,131
Woodturning, woodcarving, &c Basket, wicker, bamboo, &c	92 11	$3,070 \\ 47$	790 $50$	160	13,664
Basket, wicker, bamboo, &c Perambulators	1.5	98	147	37	40,055
Other	8	408	141	12	43,060
Glass 11.—Furniture, Bedding, &c.	372	8,937	3,093	631	843,010
Cabinet and furniture making	284	7,888	2,681	151	654,993
Bedding and mattresses (not wire)	$\frac{35}{36}$	839 105	$285 \\ 56$	$215 \\ 220$	113,575 49,126
Furnishing drapery	8	105	27	14	8,387
Blinds, window, verandah, &c.	) 9	83	44	31	16,929
Class 12.—Paper, Stationery,					
Printing, Bookbinding, &c.	618	67,360	9,860	3,863	3,857,265
Newspapers, &c.	118	6,607	1,974	211	709,210
Printing—Government, &c	3 364	$     \begin{array}{c}       920 \\       6,530     \end{array} $	$651 \\ 3,534$	$367 \\ 1,478$	277,749 1,322,110
Stationery and paper products	30	1,530	436	447	208,836
Stereotyping and electrotyping	8	164	62	9 24	20,567
Process and photo engraving	13 36	$     \begin{array}{c}       163 \\       2,088     \end{array} $	$257 \\ 767$	24 769	92,031 365,852
Cardboard boxes, cartons, &c Paper bags	15	283	110	188	68,806
Other	31	49,075	2,069	370	792,104
Class 13.—Rubber Goods	92	29,414	2,917	727	1,158,070
Rubber goods, including tyres, motor	26	28,759	2,567	. 696	1,053,775 104,295
Tyre retreading and repairing	66	655	350	31	-104,295
Class 14.—Musical Instruments	14	65	81	2	22,331
Class 15Miscellaneous Products	268	11,314	4,143	2,427	1,805,674
Plastic moulding and products	42 22	$3,221 \\ 659$	$1,022 \\ 353$	$594 \\ 214$	438,202 143,082
Brooms and brushes	32	252	379	52	114,504
Surgical and other scientific	1				
instruments	40	572	484	.95	164,011
Photographic material, including developing and printing	27	1,428	427	564	266,784
Toys, games, and sports requisites	42	968	404	244	149,048 23,781
Artificial flowers	7	$     \begin{array}{c}       22 \\       4,192     \end{array} $	$\begin{array}{c} 27 \\ 1,047 \end{array}$	110 554	23,781 506,262
Other	56	4,192	1,047	0.04	500,202
Class 16.—Heat, Light, and Power Electric light and power—	108	707,933	2,989	24	1,1 <b>07,6</b> 50
(a) Government	10	636,936	1,246	16	513,950 147,577
(b) Local authority	34 25	58,001 4,606	422 74	2	147,577 20,234
(c) Companies	20	4,000	(1)	-	40,404
(a) Local authority	9 30	148 8,242	$106 \\ 1,141$	1 5	36,166 389,723
	10,195	1,413,958	178,951	77.298	70,499,214
Total all Classes	10,135	1,410,000	110,001	11,200	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

# COSTS AND VALUE OF PRODUCTION, 1945-46-continued.

				· · · · · · · · · · · · · · · · · · ·			
Fuel and Light Used.	Lubricat- ing Oil and Water.	Repairs to Plant, &c.	Materials Used, Including Containers.	Articles Produced or Work Done.	Value Added.	Land and Buildings.	Plant and Machinery.
£	£	£	£	£	£	.£	£
$30,344 \\ 29,219 \\ 2,056 \\ 3,897$	$5,691 \\ 3,866 \\ 190 \\ 618$	$11,251 \\ 10,606 \\ 1,184 \\ 4,930$	$467,260 \\ 725,357 \\ 71,049 \\ 259,827$	$887,862 \\ 1,077,853 \\ 142,904 \\ 447,720$	$373,316 \\ 308,805 \\ 68,425 \\ 178,448$	161,976 414,200 61,449 166,430	207,729 112,146 37,678 12,604
$12,171 \\ 54,521 \\ 12,544 \\ 3,197$	1,867 8,652 1,510 1,592	$     \begin{array}{r}       4,930 \\       20,455 \\       28,615 \\       11,489 \\       6,971     \end{array} $	239,827 3,470,668 1,116,536 337,724 148,876	$\begin{smallmatrix} 447,720\\ 4,630,306\\ 1,892,959\\ 811,259\\ 369,796\\ 4,157,372 \end{smallmatrix}$	$\begin{array}{r} 178,448 \\ 1,125,145 \\ 684,635 \\ 447,992 \\ 209,160 \end{array}$	$\begin{array}{r} 166,439\\ 341,747\\ 257,288\\ 165,415\\ 49,148\end{array}$	$\begin{array}{r} 12,694 \\ 273,015 \\ 294,577 \\ 87,744 \\ 16,462 \\ 552,003 \end{array}$
68,158	4,677	23,523	3,350,319	4,157,372	710,695	49,148     540,735	552,003
<b>124,968</b> 72,434 14,374 1,769 26,226 8,112	<b>26,028</b> 19,010 1,896 581 3,557 689	<b>183,160</b> 111,958 15,781 2,724 35,694 12,511	<b>4,987,424</b> 2,439,791 831,344 60,959 1,211,253 255,120	$\begin{array}{r} \textbf{9,518,189} \\ \textbf{4,558,887} \\ \textbf{1,661,109} \\ \textbf{156,352} \\ \textbf{2,100,805} \\ \textbf{655,736} \end{array}$	<b>4,196,609</b> 1,915,694 797,714 90,319 824,075 379,304	<b>1,467,433</b> 488,240 436,780 24,121 258,126 160,187	<b>1,251,999</b> 801,396 134,572 25,217 183,997 86,503
335 661 1,057	$     \begin{array}{c}       11 \\       85 \\       199     \end{array} $	$\substack{681\\1,554\\2,257}$	$21,605 \\ 106,201 \\ 61,151$	53,767 187,022 144,511	$31,135 \\78,521 \\79,847$	$16,553 \\ 41,185 \\ 42,241$	2,991 5,425 11,898
20,420 15,929 2,917 1,013 162 399	<b>2,562</b> 2,076 252 162 27 45	<b>33,528</b> 26,432 5,830 831 117 318	<b>1,709,295</b> 970,594 486,187 188,707 11,390 52,417	<b>3,418,440</b> 2,159,572 858,012 284,737 30,652 85,467	<b>1,652,635</b> 1,144,541 362,826 94,024 18,956 32,288	<b>1,011,363</b> 740,025 154,980 79,833 16,725 20,300	<b>214,390</b> 169,455 31,308 8,209 1,624 3,794
$\begin{array}{r} \textbf{345,419} \\ \textbf{25,331} \\ \textbf{6,060} \\ \textbf{34,054} \\ \textbf{6,475} \\ \textbf{1,198} \\ \textbf{2,842} \\ \textbf{16,565} \\ \textbf{1,588} \\ \textbf{251,306} \end{array}$	$\begin{array}{r} \textbf{32,591}\\ 5,492\\ 818\\ 5,749\\ 688\\ 34\\ 267\\ 2,273\\ 415\\ 16,855\end{array}$	<b>360,838</b> 24,309 5,648 58,253 23,074 1,484 1,800 24,733 2,782 218,755	<b>7,495,464</b> 1,369,000 218,611 1,930,950 579,404 20,893 28,752 962,652 362,071 2,023,131	$\begin{array}{c} \textbf{15,423,419} \\ \textbf{2,632,677} \\ \textbf{608,565} \\ \textbf{4,317,287} \\ \textbf{1,003,119} \\ \textbf{71,347} \\ \textbf{188,843} \\ \textbf{1,872,070} \\ \textbf{499,522} \\ \textbf{4,229,989} \end{array}$	<b>7,189,107</b> 1,208,545 377,428 2,288,281 393,478 47,738 155,182 865,847 132,666 1,719,942	<b>3,898,431</b> 776,005 204,400 1,469,818 241,709 22,751 83,850 327,054 96,002 676,842	<b>2,645,775</b> 413,428 50,802 851,418 124,225 14,499 25,559 215,694 62,810 887,340
<b>177,733</b> 166,325 11,408	<b>16,696</b> 16,044 652	<b>197,912</b> 183,711 14,201	<b>3,614,977</b> 3,390,872 224,105	<b>6,131,232</b> 5,642,682 488,550	<b>2,123,914</b> 1,885,730 238,184	<b>721,245</b> 584,332 136,913	<b>610,545</b> 545,690 64,855
476	66	1,011	8,584	46,238	36,101	32,339	6,671
<b>74,503</b> 28,955 2,584 2,919	<b>11,002</b> 5,609 513 313	<b>124,940</b> 56,166 6,911 5,032	<b>2,422,779</b> 597,206 252,028 212,577	<b>5,842,021</b> 1,451,746 568,551 407,400	<b>3,208,797</b> 763,810 306,515 186,559	<b>1,313,732</b> 232,668 82,279 105,565	<b>1,016,211</b> 306,176 55,441 35,889
3,675	724	6,130	141,596	469,932	317,807	99,105	59,020
13,085 5,000 239 18,046	$1,462 \\ 412 \\ 70 \\ 1,899$	$1,331 \\ 8,120 \\ 639 \\ 40,611$	$\begin{array}{r} 435,145\\159,828\\29,724\\594,675\end{array}$	$\begin{array}{r} 964,373 \\ 446,668 \\ 81,523 \\ 1,451,828 \end{array}$	$513,350 \\ 273,308 \\ 50,851 \\ 796,597$	$\begin{array}{r} 225,210\\ 96,616\\ 28,455\\ 443,834\end{array}$	80,352 41,745 5,536 432,052
1,283,507	50,629	304,034	1,413,596	8,759,112	5,707,346	3,088,786	14,072,978
1,077,694 171,450 22,798	$6,780 \\ 11,076 \\ 4,497$	$138,629 \\ 21,897 \\ 4,791$	$2,156 \\ 377 \\ 195$	5,772,856 471,070 79,162	4,547,597 266,270 46,881	2,390,531 235,209 19,204	9,403,517 743,688 85,978
$2,259 \\ 9,306$	$1,113 \\ 27,163$	$5,600 \\ 133,117$	$\begin{array}{r} 68,443 \\ 1,342,425 \end{array}$	$\substack{119,001\\2,317,023}$	$\begin{array}{c} 41,586 \\ 805,012 \end{array}$	$31,011 \\ 412,831$	$\begin{array}{c}139,219\\3,700,576\end{array}$
6,305,727	635,253	5,572,991	154,224,950	289,145,003	122,406,082	60,264,953	58,537,394

# Victorian Year-Book, 1945-46.

#### 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 1936-37 and the past five years are given in the following table :---

		Yea	r ended 30	th June—			
Item.	1937.	1942.	1943.	1944.	1945.	1946.	
Number of establishments	41	41	38	40	40	44	
Number of persons engaged	2,460	2,149	2,025	2,040	2,071	2,257	
Horsepower of engines used	7,460	7,797	7,879	8,166	8,363	9,227	
Value of plant and machinery $\pounds$	-241,453	228,515	211,704	213,672	246,288	<b>298,0</b> 80	
Value of land and buildings £	418,191	422,302	419,424	408,453	425,878	497,837	
Salaries and wages paid £	506,810	653,683	694,263	718,260	728,817	778,865	
Fuel, light, and power £	36,166	47,391	47,366	53,830	50,212	46,577	
Value of materials used £	1,610,687	1,939,395	1,936,067	1,961,361	1,895,069	2,055,072	
Value of output £	2,517,926	3,080,318	3,050,951	3,119,392	3,093,589	3,430,200	
Value added to materials £	823,082	1,032,912	1,006,287	1,038,157	1,072,469	1,227,409	
Materials treated-							
Cow and ox hides No.	921,075	900,740	985,410	975,565	926,381	916,071	
Calf hides ,,	334,578	572,657	549,558	557,206	542,036	699,480	
Other skins and pelts ,,	1,115,689	918,538	1,042,824	1,382,600	1,308,882	1,199,211	
Bark used tons	10,559	8,636	6,395	6,028	5,296	5,739	
Tanning extract (vegetable) 000' lb.	*	6,146	9,974	7,222	8,536	• 8,536	
Sole leather produced lb.	12,808,892	15,043,710	14,767,165	14,217,629	13,225,297	13,039,543	

# VICTORIA-TANNERIES.

\* Not available.

The value of leather (including leather belting) imported into Victoria from oversea countries during the year ended 30th June, 1946, was £25,327, whilst during the same period the value of leather (including leather belting) exported overseas amounted to £570,213.

Soap. candies, &c. 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.

	Year ended 30th June							
Item.			6		)			
	1937.	1942.	1943.	1944.	1945.	1946.		
Number of establishments	19	13	15	15	16	16		
Number of persons engaged	700	. 750	728	683	712	738		
Horsepower of engines used	1,327	1,995	2,459	2,475	2,607	2,117		
Value of plant and machinery £	206,879	183,833	175,289	162,651	151,571	151,597		
Value of land and buildings £	203,741	196,925	196.480	191,689	188,752	185,865		
Salaries and wages paid £	128,422	189,351	211,493	206,954	209,025	213,617		
Fuel, light, and power £	27,793	58,931	64,662	62,839	57,482	54.884		
Value of materials used £	586,545	755,861	710,018	697,825	798,995	858,989		
Value of output £	1,243,208	1,678,499	1,678,004	1,442,045	1,571,168	1,613,919		
Value added to materials £	595,056	823,446	856,816	634,201	668,479	649,520		
Materials used-		,	,	,,	,			
Tallow cwt.	217,831	323,656	363.189	284,786	312.548	285,674		
Alkali ,,	100,649	120,156	66.768	49,995	58,767	59,292		
Coconut oil ,,	47,393	50,571	28,034	25,160	26,146	30,540		
Soda ash ,,	*	*	52,516	38,611	38,300	49,141		
Output-	1		,	},		,		
Soap, Household ewt.	199,166	221.163	189,860	118,622	139,373	141,287		
Sand	34,121	33,187	36,619	26,536	19,733	19,266		
,, Toilet ,,	19,192	28,898	36,523	39,406	30,983	30,466		
,, Extracts and powders,,	*	148,873	153,355	117,042	159,689	179,110		
,, All other ,,	*	39,252	53,744	64,779	61,707	48,964		
Soda crystals ,,	30,629	18,754	18,479	12,165	11,538	10,237		
	1			, ,,		,		

\* Not available.

Items of manufacture not specified above include soft soap, wool scouring soap, candles, glycerine, &c.

Imports from oversea countries into Victorian ports in the year ended 30th June, 1946, included 79,721 lb. of soap, and 90,701 lb. of soap substitutes valued at  $\pounds 5,774$  and  $\pounds 3,693$  respectively.

Bricks, 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—								
ittin,	1937.	1942.	1943.	1944.	1945.	1946.			
Number of establishments	79	81	58	51	65	79			
Number of persons engaged	2,969	3,124	1,670	1,518	1,725	2,468			
Horsepower of engines used	12,922	15,261	9,868	7,059	10,326	13,987			
Value of plant and machinery £	524,667	570,819	410,785	346,442	395,997	527,321			
Value of land and buildings £	547,025	546,562	318,255	337,654	421,513	530,133			
Salaries and wages paid £	563,858	795,438	464,923	415,919	471,066	672,346			
Fuel, light, and power £	190,029	250,413	113,838	97,958	114,887	174,908			
Value of materials used £	140,341	175,217	108,135	89,928	105,267	146,593			
Value of output £	1,259,323	1,593,260	885,007	756, 175	895,080	1,322,688			
Value added to materials £	859,506	1,074,833	624,547	535, 811	635,711	927,143			
Production-									
Bricks, common (1,000)	183,727	169,180	40,018	26,741	37,839	83,018			
Firebricks (1,000)	5,187	5,252	6,247	6,026	5,697	5,784			
Roofing tiles (1,000)	10,232	11,959	1,402	505	2,882	5,422			
Pipes, agricultural, &c. £	151,681	174,447	63,406	68,352	79,226	142,571			
Pottery £	242,987	405,426	418,378	382,120	409,342	335,873			
				,		,			

#### Victorian Year-Book, 1945-46.

Sawmills. Detailed information in regard to the sawmills of the State for the five years 1941-42 to 1945-46 is given in the table which follows :---

Year Ended Num		Number	Value of Machinery	Persons	Salaries	Rough-Sawn Timber Produced.		
30th		of Mills.	and Plant in Use.	Employed.	and Wages Paid.	Quantity.	Value.	
			£		£	super ft.	£	
942		299	1,078,820	4,098	1,114,701	167,881,214	1,768,56	
943		284	1,083,438	3,588	1,042,347	160,057,705	1,817,76	
944	••	294	1,141,942	3,668	1,090,571	153,886,718	1,882,55	
945		294	1,137,689	3,797	1,157,506	173,617,625	2,178,792	
946		332	1,289,636	4,493	1,224,797	186,376,570	2,819,69	

#### VICTORIA-SAWMILLS.

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 487 other factories which comprise the wood working group will be found on pages 554 and 555.

Firewood.

The quantity of timber recorded as sawn in firewood sawmills in the year 1945-46 was 357,436 tons, valued at

the sawmills at £430,537. 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 1945–46, 519,996 tons of firewood, which cost £440,722, 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 recent years, moreover, in common with the metal industries generally, production was affected by the requirements of a war economy.

	Year ended 30th June-							
Item.	1937.	1942.	1943.	1944.	1945.	1946.		
Number of establishments	74	74	57	55	54	57		
Number of persons employed	3,486	4,674	4,673	4,401	4,637	4,905		
Horse-power of engines used	7,939	12,712	12,480	12,312	12,517	12,861		
Value of land and buildings $\mathfrak{L}$	342,503	609,777	612,708	578,798	571,230	609,043		
Value of plant and machinery £	360,033	604,379	697,089	698,962	838,582	719,690		
Salaries and wages paid £	757,743	1,490,358	1,613,970	1,490,003	1,512,731	1,584,777		
Value of materials used £	855,674	1,615,451	1,319,980	1,304,551	1,446,242	1,461,788		
Fuel, light, and power used £	49,118	121,253	134,433	124,894	112,466	112,480		
Value of output £	1,903,662	3,713,633	3,583,298	3,435,008	3,658,935	3,747,487		

# VICTORIA—AGRICULTURAL AND DAIRYING MACHINERY WORKS.

Bacon curing. In the following table particulars of bacon and ham curing establishments are given for the year 1937 and the past five years.

# VICTORIA-BACON FACTORIES.

		Year ended 30th June-						
Item.					}		1	
		1937.	1942.	1943,	1944.	1945.	1946.	
Number of establishments		20	16	16	18	20		
						ĺ		
Number of persons employ	•	554	568	558	578	719	715	
Horse-power of engines us	ed	3,954	3,755	3,648	3,680	3,828	4,056	
Value of land, buildings, p &c	lant, £	360,320	327,130	311,600	313,956	349,366	346,579	
Salaries and wages paid	£	120,440	154,795	163,662	174,287	215,773	218,321	
Value of materials used	£	789,851	1,052,468	1,362,182	1,479,040	2,130,269	1,808,682	
Value of fuel and light	£	17,606	19,018	22,806	24,967	30,063	27,092	
Value of output	£	985,645	1,330,184	1,652,468	1,778,395	2,570,889	2,256,837	
Pigs slaughtered for curing	No.	193,048	189,614	186,912	201,019	247,147	206,054	
Bacon and ham cured	lb.	16,652,906	18,739,384	19,334,343	21,198,255	26,609,925	20,961,254	
						-		

Butter and cheese factories. The number of butter, cheese, and kindred factories in 1945-46 was 148. Of these 112 were making butter, 31 cheese, 1 concentrated milk, 4 condensed milk, 11 powdered milk (full cream and skim), 6 dried butter milk, 8 casein, and 3 milk sugar. The following table gives some indication of the value of this industry to the State :--

VICTORIA-BUTTER AND CHEESE FACTORIES, ETC.

		Year ended 30th June-								
Item.	1937.	1942.	1943.	1944.	1945.	1946.				
Number of establishments	175	165	159	152	148	148				
Number of persons em- ployed	2,859	3,899	3,870	3,804	3,748	3,874				
Horse-power of engines	11,899	17,252	17,523	18,595	. 19,736	20,857				
Value of plant and ma hinery £	1,157,697	1,460,847	1,386,617	1,367,977	1,332,534	1,344,427				
Value of land and buildings £	1,158,068	1,406,777	1,405,563	1,448,699	1,454,364	1,525,425				
Salaries and wages paid $\pounds$	629,230	1,088,618	1,146,015	1,168,650	1,162,211	1,235,307				
Fuel, light, and power £	151,767	280,471	312,317	311,100	308,449	335,250				
Value of materials used $\pounds$	9,089,205	12,311,035	12,441,760	11,803,840	11,994,600	13,497,788				
Value of output £	10,825,003	15,001,698	15,262,179	14,475,120	14,716,135	16,458,087				
Added value £	1,482,540	2,272,901	2,367,199	2,208,267	2,259,915	2,454,430				
Articles produced										
Butter lb.	149,897,946	137,889,530	122,864,673	109,456,751	104,832,382	112,180,169				
Cheese lb.	13,040,709	22,483,690	25,236,045	26,583,732	27,340,311	33,405,690				
Condensed milk lb.	31,076,239	78,213,683	69,115,568	73,784,738	76,126,884	80,345,852				
Powdered milk (all kinds) lb.	16,257,678	34,239,074	32,397,697	33,551,215	32,915,162	36,244,293				
Casein lb.	4,502,031	4,592,970	4,096,559	2,740,393	3,136,286	2,809,033				

Further particulars relating to butter and cheese factories will be found on page 194.

**Bakeries** The statistical definition of a factory (see page 546) (netuding bread, pastry excludes from enumeration many small bakeries. Particulars and cakes). relating to 1945-46 include 746 bakehouses which come within that definition. The increase of 136 establishments between 1943 and 1944 was mainly due to the inclusion for the first time of a number of small establishments which owing to the very small use of motor power had not previously been requested to render returns.

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

# VICTORIA-BAKERIES.

Item.	Year ended 30th June-									
	1937.	1942.	1943.	1944.	1945.	1946.				
Number of factorics	- 556	592	592	728	728	746				
Number of persons employed	3,374	3,346	3,245	3,632	3,712	4,112				
Horse-power of engines used	2,289	2,840	2,866	3,318	3,393	3,568				
Value of land and buildings $\pounds$	1,158,299	1,249,467	1,264,463	1,490,583	1,556,972	1,667,986				
Value of plant and machinery $\pounds$	377,886	442,782	432,115	464,268	455,041	477,092				
Salaries and wages paid $\pounds$	651,183	810,997	859,536	995,382	1,031,434	930,304				
Value of materials used £	1,867,858	2,380,439	2,494,883	2,838,305	2,903,301	2,981,031				
Fuel, light, and power used $\pounds$	79,869	102,819	115,766	133,539	136,110	139,311				
Repairs, oil and water used £	35,736	39,742	44,295	54,027	60,349	93,500				
Total output £	3,114,907	4,141,700	4,290,071	4,887,909	4,944,910	5,247,154				
Value added £	1,131,444	1,612,065	1,635,127	1,862,038	1,845,150	2,033,312				
Value added per worker £	335	482	504	513	497	494				
Flour used-tons (2,000 lb.)	94,742	107,554	109,892	124,941	125,679	111,560				
Bread made-4-lb. loaves	56,683,427	65,178,853	64,200,620	76,747,278	76,398,458	70,080,082				
Cakes, pastry, pies £	1,635,766	2,029,798	2,246,428	2,548,761	2,673,367	2,635,193				

**Meat and Fish** preserving works,

Details appertaining to the meat and fish preserving industry for 1936-37 and the past five years are given hereunder---VICTORIA-MEAT AND FISH PRESERVING WORKS.

Item.	Year ended 30th June-							
Tuent.	1937.	1942.	1943.	1944.	1945.	1946.		
Number of establishments	8	11	12	12	12	12		
Number of persons engaged	212	1,039	1,229	1,127	1,338	1,089		
Horse-power of engines used	170	874	958	1,340	2,031	2,128		
Value of plant and machinery $\pounds$	17,739	74,100	93,219	86,612	130,491	139,945		
Value of land and buildings $\pounds$	54,398	108,101	111,730	143,325	187,171	190,646		
Salaries and wages paid £	31,759	262,761	332,937	341,376	377,323	310,686		
Fuel, light, and power £	2,989	15,218	24,148	27,118	27,643	27,654		
Value of materials used £	199,562	1,702,687	2,185,066	2,279,190	2,882,204	2,154,730		
Value of output £	309,959	2,240,701	2,973,694	3,311,797	3,879,890	2,963,365		
Value added to materials £	102,192	501,341	725,683	959,907	934,922	747,857		
Canned meat produced cwt.	49,448	343,350	496,390	511,236	509,624	318,386		
Meat extracts ewt.	607	2,330	4,428	5,680	5,509	5,669		
Fish (all kinds) cwt.	$^{3,275}$	10,868	6,165	3,853	6,663	11,593		

#### Victorian Year-Book, 1945-46.

Eighty-nine establishments were included under the Refrigeration. industrial Sub-class "Ice and Refrigeration" during 1945–46. There were 2,442 persons employed and the total horsepower of machinery used was 22,481. The value of Land &c. and Plant &c. was £2,087,308 and the value of output £1,632,235. Particulars of Mcat Freezing Works are incorporated in the foregoing figures. No collection of statistics is now made regarding quantities of carcasses treated in the freezing works.

> The following statement shows the imports from and exports to oversea countries of frozen, chilled, and preserved meats during the year ended 30th June, 1946 :---

VICTORIA-MEAT IMPORTED AND EXPORTED OVERSEA, 1945-46.

	Impo	orts.	Exports.			
Meats.	Quantity.	Value.	Quantity.	Value.		
		. £		£		
Preserved by cold process-						
Beef			lb. 1,212,459	37,622		
Lamb			,, 18,560,104	568,285		
Martin			,, 8,884,125	190,576		
Pork			,, 10,479,042	409,856		
Rabbits and hares .			prs. 1,035,311	109,044		
17 - 1			1b. 988,651	26,724		
Other				92,733		
D			lb. 2,388,461	201,494		
Mutton, dehydrated			,, 256,577	33,320		
	.   1b. 122,18	4 12,816	,, 44,644	8,827		
	., 22,12	7 1,503	1b. 28,092,602	1,461,462		
-C	. ewt. 1,66	1 34,372	cwt. 7,196	174,749		
0.1		259		29,751		
Total value		48,950		3,344,443		

Flour Mills. 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 1936-37 and for the past five years.

Imports and

exports of

Item.	Year Ended 30th June-							
I CEIN.	1937.	1942.	1943.	1944.	1945.	1946.		
Number of establishments	38							
Number of persons engaged	1,112	961						
Horse-power of engines used	6,911	9,404	8,867			9,561		
Value of plant and machinery £	508,072		492,992					
Value of land and buildings £	546,587		627,288					
Salaries and wages paid £	255,397							
Fuel, light, and power £	56,037							
Value of materials used £	4,975,111	3,262,391	3,016,400	4,344,715				
Value of output £	5,574,290	3,859,135		5,170,202		4,222,476		
Value added to materials £	511,878							
Wheat ground into flour, bushels			14,133,140					
Flour produced tons (2,000 lb.)	420,364	312,147	286,946	409,190	393,036	315,525		
Bran produced,	89,832	61,736	57,079	84,562	76,925	66,177		
Pollard produced "	91,978	68,514		80,456		64,659		
Wheatmeal produced cwt.	122,100	289,750	404,100	329,700		339,500		

# VICTORIA-FLOUR MILLS.

During the year ended 30th June, 1946, 127,843 tons of flour, valued at £2,897,017 were exported from Victorian ports to countries beyond Australia.

Jam, pickle, and sauce works. Particulars relating to 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 1936-37 and for the past five years.

VICTORIA-JAMS, PICKLES, SAUCES, PRESERVES, ETC.

Item.	· Year Ended 30th June-							
	1937.	1942.	1943.	1944.	1945.	1946.		
Number of establishments Number of persons engaged Horse-power of engines used Value of land and buildings £ Salaries and wages paid £ Fuel, light, and power used £ Value of materials used £ Value of materials used £ Value of output £ Fresh fruit used cwt. Sugar used , Output of ; Jams and jellies cwt. Fruit preserved in liquid , Fruit pulp, Sauce pints Pickles and chutney ,	$\begin{array}{r} 45\\ 2,868\\ 3,153\\ 326,249\\ 635,774\\ 487,947\\ 34,641\\ 1,907,845\\ 3,023,101\\ 913,275\\ 315,240\\ 324,452\\ 677,085\\ 82,442\\ 8,410,984\\ 2,189,510\\ \end{array}$	3,967 5,907 395,078 745,373 879,525 61,718 3,840,194 5,807,778 949,833 471,829 574,691 660,028 139,815 11,413,867	$\begin{array}{c} 4,431\\ 6,445\\ 429,736\\ 769,766\\ 1,053,182\\ 78,354\\ 4,610,577\\ 6,838,292\\ 1,024,375\\ 509,384\\ 609,320\\ 671,133\\ 80,814\\ 12,617,134\\ \end{array}$	$\begin{array}{c} 514,836\\ 966,492\\ 1,259,228\\ 101,819\\ 5,630,492\\ 8,238,373\\ 1,184,103\\ 538,268\\ 630,314\\ 717,900\\ 82,611\\ 18,917,172\end{array}$	8,752 712,849 1,060,3355 1,476,204 131,909 6,376,148 9,579,780 1,073,382 503,914 568,502	$\begin{array}{c} 683,355\\ 1,046,513\\ 1,267,550\\ 90,608\\ 5,749,253\\ 8,172,809\\ 973,830\\ 536,890\\ 584,972\\ 561,887\\ 140,403\\ 16,252,192\end{array}$		

**Beet Sugar** Industry. The Victorian Government operates a beet sugar factory at Maffra. A brief history of the beet sugar industry since its establishment in Victoria was given in the *Year-Book*, 1937-38.

642/48---30

The following table contains particulars relating to the production, &c., of beet sugar for the past ten years :---

Year	Ended 30t	h June.	Area.	Beet Yield.	Sugar Content.	Sugar Produced
		·	acres.	tons.	%	tons.
1937	••		3,475	31,079	17.58	4,180
1938	• • •		4,046	48,594	15.46	5,625
1939	••	• •	4,268	13,454	$14 \cdot 83$	1,507
1940	••	• • •	4.234	42,898	18.65	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	17.13	678
1944	• •		836	6,975	16.11	704
1945			485	3,200	(T I)	
1946		÷.	108	975 Č	(ror ro	odder only)

VICTORIA-BEET SUGAR PRODUCTION.

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 for the past four years, when sugar was produced, were as follows:—1940-41, 44s.; 1941-42, 43s.; 1942-43, 48s.; 1943-44, 50s.

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.

Breweries and Particulars regarding breweries and distilleries for Distilleries. the year 1936-37 and for the past five years are set forth in the succeeding tables.

Item.	Year ended 30th June-						
	1937.	1942.	1943.	1944.	1945.	1946.	
Number of breweries Number of persons engaged Horse-power of engines Value of plant and machinery £ Salaries and wages paid £ Fuel, light, and power used £ Value of materials used £ Value of materials used £ Value of output £ Value added to materials £ Materials used— Sugar cwt. Malt bush. Hops Ib Beer and stout made gals.	746,794	$\begin{array}{r} 6,593\\899,401\\772,397\\634,350\\79,181\\1,845,922\\3,504,521\\1,448,003\\146,846\\1,226,263\\964,736\end{array}$	$\begin{array}{c} 6,597\\ 861,935\\ 762,219\\ 575,840\\ 79,381\\ 1,417,857\\ 2,676,126\\ 1,113,814\\ 125,242\\ 983,431 \end{array}$	$\begin{array}{r} 830,740\\756,689\\556,889\\78,402\\1,338,428\\2,621,378\\1,139,842\\1,139,842\\121,580\\956,171\\798,410\end{array}$	752,040 561,767 75,340 1,372,644 2,718,027 1,200,780 124,321 989,614 830,179	6,612 815,857 748,895, 621,716 75,943 1,399,001 3,013,132 1,447,937 139,102 1,016,854 879,377	

VICTORIA-BREWERIES.

Item.	Year ended 30th June-							
	1937.	1942.	1943,	1944.	1945.	1946.		
Number of distilleries	7	9	. 9	a	a			
Number of persons engaged	81				175	238		
Horse-power of engines	405							
Value of plant and machinery £	112,381					207,729		
Value of land and buildings £	188,848				196,671			
Salaries and wages paid £	18,755							
Fuel, light, and power £	7,300							
Fuel, light, and power £ Value of materials used £	69,926							
Value of output £	170,121	522,261						
Materials used—			· ·	· ·	, í	,		
Wine gals.	2,147,674	479,758	609,140	661,012	581,708	1,117,090		
Malt bush.	34,160				183,366	206,134		
Other grain bush.	58,091	161,500			248,718	354,322		
Molasses Ib.	1,723,120	14,459,760	12,486,992	22,053,533	16,815,792	9,814,784		
Raw sugar, sugar, &c. 1b.	*.	32,220,048	56,984,144	43,761,088	18,617,536	22,543,136		
Spirits distilled in distilleries			·					
proof gals.	594,134	3,964,984	6,103,442	5,916,779	3,501,376	3,720,276		
Spirits distilled by vinegrowers proof gals.	36,798	14,754	9,164	12,048	12,262	12,328		
proof gais.	30,790	14,754	9,104	12,040	12,202	12,528		

# VICTORIA-DISTILLERIES.

\* Not available.

Tobacco Factories.

à

The twelve establishments engaged in the manufacture of tobacco, cigars, and cigarettes during 1945-46 which conformed to the statistical definition of a factory gave employment to 2,087 persons, who were paid £516,643 in wages and who used machinery, plant, land, and buildings valued at £614,762. The subjoined table shows the quantity of tobacco leaf used by

Tue	subjoined	table	SHOWS	the c	uan	шьу о.	i topacco	lear	usea	by
and	the output	of th	e full	number	$\mathbf{of}$	license	d establisi	ıment	s for	$\mathbf{the}$
$\mathbf{past}$	ten years									

Year En	ded	Leaf Operat	ed on,	Production.		
30th Ju	ne.	Australian.	Imported.	Tobacco.	Cigars.	Cigarettes.
		lb.	Ib.	lb.	No.	No.
1937		1,509,120	4,150,400	4,906,102	22,744,652	670,676,576
1938		1.565.159	4,727,731	5,229,385	23,076,385	837,549,340
1939		1,592,449	5,093,062	5,296,000	22,797,977	1,032,768,141
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	1,515,517,910
1943		1,973,027	5,722,124	5,829,487	19,914,219	1,350,087,444
1944	1	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	1,316,541,823

# VICTORIA-TOBACCO FACTORIES.

Victorian manufacturers supply nearly half of the Woollen mills. 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 1945-46, was £2,110,684.

Item.	Year Ended 30th June-						
· · · · · · · · · · · · · · · · · · ·	1937.	1942.	1943.	1944.	1945.	1946.	
Number of establishments Number of persons employed Horse-power of engines 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 & Added value & Scoured wool used lb. Cotton used lb. Tweed and cloth made sq. yds. Blankets pairs Blugs and shawls No.	2,161,754 16,250,885 839,356 12,757,001 3,217,803	$\begin{array}{c} 12,060\\ 31,257\\ 1,596,452\\ 1,496,219\\ 2,778,159\\ 283,854\\ 7,192,043\\ 12,683,553\\ 4,850,103\\ 44,826,929\\ 189,143\\ 17,827,084\\ 2,211,209\\ 1,252,555,\end{array}$	$\begin{array}{c} 12,051\\ 32,244\\ 1,529,782\\ 1,499,939\\ 2,992,594\\ 314,501\\ 7,664,482\\ 13,267,842\\ 4,917,482\\ 44,026,360\\ 81,403\\ 18,870,925\\ 2,068,775\\ 2,068,775\\ 1,184,688\end{array}$	$\begin{array}{c} 11,834\\ 33,043\\ 1,468,274\\ 1,517,095\\ 2,955,664\\ 319,429\\ 7,238,085\\ 12,534,481\\ 4,526,808\\ 41,732,978\\ 45,247\\ 16,682,579\\ 2,385,088\\ 1,099,910\\ \end{array}$	$\begin{array}{c} 11,3\bar{6}3\\32,524\\1,459,495\\1,594,797\\2,817,138\\292,667\\6,684,542\\11,823,664\\4,496,264\\4,496,264\\4,496,264\\86,737,722\\83,968\\15,677,208\\1,627,997\\1,064,141\end{array}$	$\begin{array}{c} 11,094\\ 30,769\\ 1,410,896\\ 257,994\\ 6,263,676\\ 11,752,967\\ 4,900,275\\ 33,956,769\\ 209,216\\ 16,079,393\\ 1,815,504\\ 651,212\end{array}$	

# VICTORIA—WOOLLEN MILLS.

Early records show that, in the year 1886-87, there Hosiery and Knitting. were three hosiery factories in Victoria, employing 56 The capital value of land, buildings, and machinery was hands. The following table shows the main details relating to this £2,080. industry for 1937 and the past five years :---

# VICTORIA-HOSIERY AND KNITTING.

Item.	Year ended 30th June						
	1937.	1942.	1943.	1944.	1945.	1946.	
Number of establishments Number of persons employed—	208	231	226	231	250	255	
Male	3,632						
Female	7,964						
Salaries and wages paid £	1,427,980						
Value of land and buildings £	1,181,990		1,418,384				
Value of plant and machinery £	1,273,751	1,043,866					
Value of materials used £	2,564,249						
Fuel, light, and power £	64,993						
Value of output £	5,213,388						
Added value £	2,460,934	3,911,541	3,563,102	3,720,254	3,717,604	3,870,150	
Yarn used	1						
Woollen Ib.							
Cotton lb.	2,406,832	4,554,819	5,187,578	4,056,866			
Silk lb.	767,090	278,784	21,012				
Rayon lb.	2,803,599	3,474,403	2,574,767				
Stockings madedoz. pair	*1,359,548						
Socks made doz. pair	†1,006,454						
Garments made number	16,406,904	23,924,496	22,651,620	19,574,604	18,772,896	16,696,080	

\* Women's socks and stockings only. † Includes men's socks and stockings, doz. pair—1936-37, 775,443; 1942-43, 1,164,919; 1943-44, 1,084,442; 1944-45, 1,067,046; 1945-46, socks and stockings, doz. pair—1936-37, 231,011; 1941-2, 301,228; 1943-44, 303,150; 1944-45, 280,008; 1945-46, 349,635. 1941–42, 1,178,548; 841,957. Children's 1942–43, 217,754;

Boots and Shoes.

Particulars relating to factories manufacturing boots and shoes are shown in the following table :---

Item,	Year ended 30th June								
Iveni,	1937.	1942.	1943.	1944.	1945.	1946.			
Number of establishments	165	164	167	177	182	195			
Number of persons employed	9,362	9,814	8,534	8,423	8,704	9,464			
Horse-power of engines used	3,219	4,746	4,985	5,993	6,219	5,337			
Value of plant, machinery, land, and buildings £	1,045,991	1,088,328	1,067,950	1,203,014	1,307,608	1,373,385			
Salaries and wages paid £	1,354,623	2,230,556	2,450,133	2,162,210	2,205,611	2,353,753			
Fuel, light, and power £	27,948	34,746	33,457	34,255	37,414	37,505			
Value of materials used £	2,395,438	4,174,394	4,045,432	4,092,681	4,260,161	4,020,905			
Value of output £	4,288,431	7,672,775	7,357,218	7,376,946	8,234,686	7,765,401			
Boots and shoes made pairs	8,253,084	8,861,131	8,432,500	8,160,178	7,864,401	7,031,105			
Slippers made pairs	4,173,599	3,869,409	2,786,762	2,833,633	2,882,816	3,246,022			

#### VICTORIA-BOOTS AND SHOES.

Dress (exclusive of boot) factories. The following table shows particulars for each of the past ten years of establishments connected with the manufacture of dress, i.e., clothing, tailoring, dressmaking, millinery, underclothing, hats and caps, &c., but exclusive of boots and shoes :---

VICTORIA-DRESS

(EXCLUSIVE

OF BOOT)

FACTORIES.

	r ended Number			ber of Pe Employed		Salaries and Wages	Value of Materials	Value of	
3001 301	ie	Factories.	Males.	Females.	Total.	Paid	Used.	Output.	
1937		1,417	9,828	30,981	40,809	£ 4,770,768	£ 8,831,838	£ 16,655,155	
1938	••	, 1,479	9,231	32,225	41,456	5,352,401	9,700,508	18,027,490	
1939		1,441	9,350	31,840	41,190	5,471,374	9,164,940	17,703,544	
1940		1,411	9,462	32,607	42,069	5,868,961	10,426,504	19,811,880	
1941		1,423	9,406	32,925	42,331	6,454,817	12,469,012	23,070,998	
1942	••	1,398	7,881	31,922	39,803	6,962,657	14,392,261	26,466,497	
1943	• •	1,295•	6,279	28,186	34,465	6,653,613	13,819,869	24,910,037	
1944	••	1,113	4,001	20,070	24,071	4,935,092	9,971,430	17,804,115	
1945	• ·	1,179	4,269	21,991	26,260	5,374,556	10,669,587	19,378,99 <b>0</b>	
1946	••	1,162	4,222	21,776	25,998	4,993,573	10,660,720	19,294,62 <b>8</b>	

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

	ear endec th June—		Number.	Value of Machinery and Plant.	Persons Employed.	Wages Paid.	Electricity Generated.	Value of Output,
				£		£	'000 kilowatt hours.	£
1937			91	6.934.522	1,346	320.098	1,049,768	2,635,151
1938			81	6,327,762	1,306	345,576	1,071,596	2,524,528
1939			79	6,617,530	1,376	390,090	1,136,301	2,435,604
1940			78	7,467,138	1,445	418,511	1,252,936	2,673,351
1941			73	8,040,055	1,417	454,182	1,385,038	2,980,947
1942			71	8,119,400	1,418	486,931	1,539,960	3,415,892
1943			70	8,284,916	1,397	544,551	1,648,233	3,837,000
1944			72	8,394,868	1,438	595,315	1,671,745	3,779,763
1945			70	10,103,146	1,534	612,553	1,714,763	3,993,472
1946			69	10,233,183	1,760	681,761	1,803,407	4,167,493

#### VICTORIA-ELECTRIC LIGHT AND POWER WORKS.

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:—1941-42, 120,004; 1942-43, 128,466; 1943-44, 106,024; 1944-45, 102,584; and 1945-46, 100,996. Prior to 1937-38 the power generated in such factories was included in the production of Electric Light and Power Works.

#### 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 receiving stations at Richmond and Yarraville. Other stations at Thomastown and Brunswick receive electricity from the Sugarloaf-Rubicon (installed 26,415 kW.) and the Kiewa hydro-electric stations in the northeastern district (installed 24,000 kW.).

There are also generating stations at Newport (installed 108,000 kW.), Richmond (installed 15,000 kW.), Geelong (installed 10,500 kW.), and Ballarat (installed 5,900 kW.), All these generating sources are electrically inter-connected.

The Kiewa scheme to provide by economic instalments ultimately 117,000 kW. now has No. 3 power station (24,000 kW.) operating, and other works under construction. Additional plant at Newport under construction or on order will add 60,000 kW. to the peak load capacity.

There are nine main receiving stations (total kVA. 418,200), in addition to which there are 34 main metropolitan sub-stations (aggregating 480,750 kVA.), four distribution sub-stations at line voltage (aggregating 16,500 kVA.), and 4,584 metropolitan and rural sub-stations (aggregating 444,633 kVA.)—grand total, 1,359,483 kVA. High and low tension lines aggregate 5,878 and 4,773 route miles respectively, excluding 653 cable miles of underground cables. The Commission retails direct in twenty-two of the metropolitan municipalities, in addition to outer metropolitan centres.

The rural centres supplied by the Commission number 584, of which 492 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 1945–46 amounted to 493,144 tons. The plant includes eight steam presses and eleven electric presses, with a total capacity of approximately 1,600 tons of brown coal briquettes a day. The bulk of the output is required for electricity generation. By-product electricity amounting to 88.81 million kWh. was generated at the briquette factory during 1945-46.

#### Victorian Year-Book, 1945-46.

Gasworks.

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

Yes ende 30th Ju	ed	Number of Works.	Persons Em- ployed.	Wages Paid.	Coal Used.	Oil Used.	Gas Made.	Coke Produced.	Value of Output.
. •				£	Tons.	Gals.	'000 cubic feet.	Tons.	£
1942	••	39	960	290,857	522,067	1,045,609	9,289,804	295,821	1,872,474
1943		39	1,074	365,391	579,956	1,236,961	10,129,175	323,191	2,223,945
1944		39	1,109	379,696	590,894	1,293,828	10,118,621	328,821	2,299,945
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

### VICTORIA-GASWORKS.

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	$\mathbf{OF}$	ARTICLES	PRODUCED	IN
	FAC	TORIES.		

Class o	f Industry.		Year	ended 30th	June—	
	i induscij.	1942.	1943.	1944.	1945.	1946.
	t of non-metalli- mine and quarry	£	£	£	£	£
product 2. Bricks, pc 3. Chemicals	ts	3,145,439 2,886,317	2,550,795 2,050,168	2,565,401 2,037,535	2,624,954 2,176,842	3,315,588 2,718,311
plosives and gro 4. Industrial chines,	ease metals, ma-	25,037,087	28,116,873	22,779,005	21,554,314	20,260,798
and co 5. Precious r	nveyances netals, jewellery,	67,969,927	82,765,045	86,834,407	83,422,824	77,243,145
	nd textile goods ess)	1,351,672 28,205,495	890,369 29,342,465	951,237 30,461,302	957,425 29,284,607	1,349,056 29,748,722
clothin	d leather (not g or footwear)	5,583,322	5,828,842 24,600,217	5,781,860 25,855,930	5,631,579 28,260,412	5,904,121 28,928,234
8. Clothing 9. Food, drin 10. Woodworl	nk, and tobacco king and basket	25,469,702 59,291,002	62,873,996	67,351,533	70,649,023	20,928,234 70,538,377
ware 11. Furniture 12. Paper st	bedding, &c. ationery, print-	$\begin{array}{c} 8,005,131\\ 3,891,886\end{array}$	7,864,039 2,981,944	8,785,451 2,452,199	9,077,021 2,528,483	9,518,189 3,418,440
ing, bo 13. Rubber	okbinding, kc.	12,101,259 5,789,074	12,717,878 5,321,366	$13,356,139 \\ 5,491,770 $	14,544,374 5,618,711	15,423,419 6,131,232
	ous products nt, and power	$\begin{array}{r} 70,431 \\ 3,194,970 \\ 5,288,366 \end{array}$	20,865 3,793,133 5,960,945	$\begin{array}{r} 22,768 \\ 3,841,669 \\ 6,079,708 \end{array}$	32,376 4,572,797 6,486,569	46,238 5,842,021 8,759,112
Tot	al	257,281,080	277,678,940	284,647,914	287,422,311	289,145,003

570

**Employment** in The average number of persons employed over the factories. whole year in each class of industry is shown below. The table of monthly employment in factories (see page 592) is designed to show seasonal employment.

# VICTORIA—AVERAGE NUMBER OF PERSONS EMPLOYED IN FACTORIES.

		Year ei	nded 30th	June	
Class of Industry.	1942.	1943.	1944.	1945.	1946.
1. Treatment of non-metalliferous mine and quarry products	2,742	1,964	1,897	2,025	2,659
2. Bricks, pottery, glass, &c	4,193	2,676	2,508	2,644	3,574
3. Chemicals, dyes, explosives, paint, oils, and grease	24,961	25,615	18,385	15,207	11,961
4. Industrial metals, machines, implements, and conveyances	82,010	99,220	102,607	97,022	88,421
5. Precious metals, jewellery, and plate	2,238	1,217	1,164	1,149	1,602
6. Textiles and textile goods (not dress)	31,309	29,078	29,858	29,686	30,215
7. Skins and leather (not clothing or footwear)	4,566	4,449	4,456	4,419	4,558
8. Clothing	38,151	33,640	33,451	35,899	38,552
9. Food, drink, and tobacco	31,052	30,549	32,622	33,991	33,811
10. Woodworking and basketware	8,926	8,457	8,847	8,999	10,139
11. Furniture, bedding, &c	4,286	2,978	2,542	2,595	3,724
12. Paper, stationery, printing, bookbinding, &c	13,099	12,091	12,130	12,552	13,723
13. Rubber	3,854	2,911	3,132	3,231	3,644
14. Musical instruments	132	46	43	53	83
15. Miscellaneous products	4,503	4,995	5,110	5,520	6,570
16. Heat, light, and power	2,378	2,471	2,547	2,641	3,013
· · · · · · ·					
Total	258,400	262,357	261,299	257,633	256,249

Particulars in the following table show that by factories. Particulars in the following table show that by comparison with the previous year the main increases in the number of factories and the persons employed therein were recorded in the size groups 5–10, 11–20, 21–50, and 51–100 hands respectively. Two groups—the lowest, under 4 hands—and the highest, 100 hands and over—showed decreases both in the number of factories, and in the number of employees.

# Victorian Year-Book, 1945–46.

# VICTORIA-FACTORIES ACCORDING TO NUMBER OF HANDS EMPLOYED.

$\begin{array}{c c c c c c c c c c c c c c c c c c c $		Showing	g Annual	Percent	age lno	erease or	Decre	ase (Yea	r ende	d 30th J	une).
$\square$									1		
$\square$						1			.		
Number of       96		1942.	Increase.	1943.	Increase.	1944.	Increase.	1945.	Increase	1946.	Increase
Under 4 hands— $2,934$ $4 \cdot 1$ $2,933$ $$ $3,213$ $9 \cdot 5$ $3,232$ $0 \cdot 6$ $3,065$ $-5 \cdot 2$ Employees $5,537$ $3 \cdot 7$ $5,522$ $-0 \cdot 3$ $6,147$ $11 \cdot 3$ $6,108$ $-0 \cdot 6$ $6,025$ $-1 \cdot 4$ 4 hands—       Number of— $Factories$ $$ $659$ $-12 \cdot 6$ $655$ $-0 \cdot 6$ $745$ $13 \cdot 9$ $760$ $2 \cdot 0$ $785$ $3 \cdot 3$ 5 to 10 hands— $2,0636$ $-12 \cdot 6$ $2,020$ $-0 \cdot 6$ $2,080$ $13 \cdot 7$ $3,040$ $2 \cdot 0$ $3,140$ $3 \cdot 3$ 5 to 10 hands— $2,092$ $0 \cdot 3$ $2,016$ $-3 \cdot 6$ $2,087$ $3 \cdot 5$ $2,205$ $5 \cdot 7$ $2,520$ $14 \cdot 3$ 11 to 20 hands— $14,963$ $2 \cdot 0$ $13,995$ $6 \cdot 6$ $1,393$ $5 \cdot 9$ $1,584$ $13 \cdot 3$ 21 to 50 hands— $12,286$ $-2 \cdot 5$ $1,234$ $-0 \cdot 2$ $1,316$ $6 \cdot 6$ $1,393$ $5 \cdot 9$ $1,584$ $13 \cdot 3$ 21 to 50 hands— $1$	······						-	-			·
Number of—       2,934       4 · 1       2,933        3,213       9 · 5       3,232       0 · 6       3,065       -5 · 2         Employees        5,537       - 3 · 7       5,522       -0 · 3       6,147       11 · 3       6,108       -0 · 6       6,025       -1 · 4         4 hands—			%		%		%		%		%
Factories       2,934       -4 · 1       2,933        3,213       9 · 5       3,232       0 · 6       3,065       -5 · 2         Employees        5,537       - 3 · 7       5,522       -0 · 3       6,147       11 · 3       6,108       -0 · 6       6,025       -1 · 4         4 hands—         6,59       -12 · 6       655       -0 · 6       745       13 · 9       760       2 · 0       785       3 · 3         Employees        2,636       -12 · 6       2,620       -0 · 6       2,980       13 · 7       3,040       2 · 0       3,140       3 · 3         5 to 10 hands—        2,092       0 · 3       2,016       -3 · 6       2,987       3 · 5       2,205       5 · 7       2,520       14 · 3         11 to 20 hands—        1,236       - 2 · 5       1,234       -0 · 2       1,316       6 · 6       1,393       5 · 9       1,584       13 · 9         Number of—         1,236       - 2 · 5       1,234       -0 · 2       1,316       6 · 6       1,393       5 · 9       1,584       13 · 9         Sto 50 hands—	Under 4 hands—										
Factories $2,934$ $-4\cdot1$ $2,935$ $\cdot \cdot$ $3,213$ $3\cdot5$ $5,124$ $1-1\cdot5$ Employees $\cdot$ $5,537$ $-3\cdot7$ $5,522$ $-0\cdot3$ $6,147$ $11\cdot3$ $6,108$ $-0\cdot6$ $6,025$ $-1\cdot4$ 4 handsNumber of $659$ $-12\cdot6$ $655$ $-0\cdot6$ $745$ $13\cdot9$ $760$ $2\cdot0$ $785$ $3\cdot3$ Employees $\cdot$ $2,636$ $-12\cdot6$ $2,620$ $-0\cdot6$ $2,980$ $13\cdot7$ $3,040$ $2\cdot0$ $3,140$ $3\cdot3$ 5 to 10 hands $\cdot$ $2,092$ $0\cdot3$ $2,016$ $-3\cdot6$ $2,087$ $3\cdot5$ $2,205$ $5\cdot7$ $2,520$ $14\cdot3$ It to 20 hands $\cdot$ $14,963$ $2\cdot0$ $13,995$ $-6\cdot5$ $14,605$ $4\cdot4$ $15,404$ $5\cdot5$ $17,632$ $14\cdot3$ Number of $1236$ $2.5$ $1,234$ $-0\cdot2$ $1,316$ $6\cdot6$ $1,393$ $5\cdot9$ $1,584$ $13\cdot7$ Number of $1236$ $2.5$ $1,234$ $-0.2$ $1,316$ $6\cdot6$ $1,393$ $5\cdot9$ $1,584$ $13\cdot7$ Number of $1,115$ $2\cdot1$ $1,034$ $-7\cdot3$ $1,066$ $3\cdot1$ $1,159$ $8\cdot7$ $1,287$ $11\cdot7$ Employees $\cdot$ $35,633$ $2\cdot9$ $33,040$ $-7\cdot3$ $34,105$ $3\cdot2$ $36,796$ $7\cdot9$ $40,876$ $11\cdot7$ St to 100 hands $4225$ $4\cdot1$ $406$ $-4\cdot5$ $416$ $2\cdot5$ $453$ $8\cdot9$ $490$ $8\cdot2$	Number of-									2 0.05	5.9
Employees $5,537$ $-3.77$ $5,322$ $-0.53$ $0,141$ $11.5$ $0,142$ $11.5$ $0,142$ $11.5$ 4 hands Number of Factories $2,636$ $-12.6$ $655$ $-0.6$ $745$ $13.9$ $760$ $2.0$ $785$ $3.3$ 5 to 10 hands Number of Factories $2,092$ $0.3$ $2,016$ $-3.6$ $2,087$ $3.5$ $2,205$ $5.7$ $2,520$ $14.43$ 11 to 20 hands Number of Factories $14,963$ $2.0$ $13,995$ $-6.5$ $14,605$ $4.4$ $15,404$ $5.5$ $17,632$ $14.43$ 11 to 20 hands Number of Factories $1,236$ $-2.5$ $1,234$ $-0.2$ $1,316$ $6.6$ $1,393$ $5.9$ $1,584$ $13.7$ 21 to 50 hands Number of Factories $1,115$ $2.1$ $1,034$ $-7.3$ $1,066$ $3.1$ $1,159$ $8.7$ $1,287$ $11.532$ 51 to 100 hands Number of Factories $425$ $4.1$ $406$ $-4.5$ $416$ $2.5$ $453$ $8.9$ $490$ $8.2$ Number of Factories $29,495$ $-3.8$ $28,180$ $-4.5$ $28,803$ $2.2$ $31,458$ $9.2$ $34,314$ $9.1$ 0ver 100 hands Number of Factories $457$ $8.8$ $460$ $0.7$ $474$ $3.0$ $467$ $-1.5$ $464$ $-0.7$ $8.8$ $460$ $0.7$ $474$ $3.0$ $467$ $-1.5$ $464$ $-0.7$	Factories	2,934	- 41	· ·	. 1	3,213					
Number of— Factories $659$ $-12 \cdot 6$ $655$ $-0 \cdot 6$ $745$ $13 \cdot 9$ $760$ $2 \cdot 0$ $785$ $3 \cdot 3$ Employees $2,636$ $-12 \cdot 6$ $2,620$ $-0 \cdot 6$ $2,980$ $13 \cdot 7$ $3,040$ $2 \cdot 0$ $3,140$ $3 \cdot 3$ 5 to 10 hands— Number of— Employees $2,092$ $0 \cdot 3$ $2,016$ $-3 \cdot 6$ $2,987$ $3 \cdot 5$ $2,205$ $5 \cdot 7$ $2,520$ $14 \cdot 3$ 11 to 20 hands— Number of— Factories $1,236$ $2 \cdot 5$ $1,234$ $-0 \cdot 2$ $1,316$ $6 \cdot 6$ $1,393$ $5 \cdot 9$ $1,584$ $13 \cdot 7$ 12 to 50 hands— Number of— Factories $1,115$ $2 \cdot 1$ $1,034$ $-7 \cdot 3$ $1,066$ $3 \cdot 1$ $1,159$ $8 \cdot 7$ $1,287$ $11 \cdot 7$ 21 to 50 hands— Number of— Factories $1,115$ $2 \cdot 1$ $1,034$ $-7 \cdot 3$ $1,066$ $3 \cdot 1$ $1,159$ $8 \cdot 7$ $1,287$ $11 \cdot 7$ 51 to 100 hands— Bemployees $2,9495$ $-3 \cdot 8$ $28,180$ $-4 \cdot 5$ $416$ $2 \cdot 5$ $453$ $8 \cdot 9$ $490$ $8 \cdot 2$ S1 to 100 hands— Bemployees $2,9495$ $-3 \cdot 8$ $28,180$ $-4 \cdot 5$ $28,803$ $2 \cdot 2$ $31,458$ $9 \cdot 2$ $34,314$ $9 \cdot 1$ Over 100 hands— Bemployees $457$ $8 \cdot 8$ $460$ $0 \cdot 7$ $474$ $3 \cdot 0$ $467$ $-1 \cdot 5$ $464$ $-0 \cdot 7$ Number of— Factories $457$ $8 \cdot 8$ $460$ $0 \cdot 7$ $474$ $3 \cdot 0$	Employees	5,537	- 3.7	5,522	-0.3	6,147	$11 \cdot 3$	6,108	0.6	6,025	-1.4
Factories $659$ $-12 \cdot 6$ $655$ $-0 \cdot 6$ $745$ $13 \cdot 9$ $760$ $2 \cdot 0$ $785$ $3 \cdot 3$ Employees $2,636$ $-12 \cdot 6$ $2,620$ $-0 \cdot 6$ $2,980$ $13 \cdot 7$ $3,040$ $2 \cdot 0$ $3,140$ $3 \cdot 3$ 5 to 10 hands—Number of— $2,092$ $0 \cdot 3$ $2,016$ $-3 \cdot 6$ $2,087$ $3 \cdot 5$ $2,205$ $5 \cdot 7$ $2,520$ $14 \cdot 6$ Employees $$ $14,963$ $2 \cdot 0$ $13,995$ $-6 \cdot 5$ $14,605$ $4 \cdot 4$ $15,404$ $5 \cdot 5$ $17,632$ $14 \cdot 6$ It to 20 hands— $$ $1,236$ $-2 \cdot 5$ $1,234$ $-0 \cdot 2$ $1,316$ $6 \cdot 6$ $1,393$ $5 \cdot 9$ $1,584$ $13 \cdot 7$ Number of— $$ $1,236$ $-2 \cdot 5$ $1,234$ $-0 \cdot 2$ $1,316$ $6 \cdot 6$ $1,393$ $5 \cdot 9$ $1,584$ $13 \cdot 7$ 21 to 50 hands— $$ $1,115$ $2 \cdot 1$ $1,034$ $-7 \cdot 3$ $1,066$ $3 \cdot 1$ $1,159$ $8 \cdot 7$ $1,287$ $11 \cdot 7$ Employees $$ $35,633$ $2 \cdot 9$ $33,040$ $-7 \cdot 3$ $1,066$ $3 \cdot 1$ $1,159$ $8 \cdot 7$ $1,287$ $11 \cdot 7$ Employees $$ $35,633$ $2 \cdot 9$ $33,040$ $-7 \cdot 3$ $3,066$ $3 \cdot 1$ $1,159$ $8 \cdot 7$ $1,287$ $11 \cdot 7$ Employees $$ $35,633$ $2 \cdot 9$ $33,040$ $-7 \cdot 3$ $34,105$ $3 \cdot 2$ $36,796$ $7 \cdot 9$ $40,876$ $11 \cdot 7$ M	4 hands-			ĺ							
Factories $659 - 12 \cdot 6$ $653 - 0 \cdot 6$ $743$ $13 \cdot 3$ $100$ $2 \cdot 3$ $3.43$ Employees $2,636 - 12 \cdot 6$ $2,620$ $-0 \cdot 6$ $2,980$ $13 \cdot 7$ $3,040$ $2 \cdot 0$ $3,140$ $3 \cdot 3$ 5 to 10 hands— $2,092$ $0 \cdot 3$ $2,016$ $-3 \cdot 6$ $2,087$ $3 \cdot 5$ $2,205$ $5 \cdot 7$ $2,520$ $14 \cdot 6$ Employees $14,963$ $2 \cdot 0$ $13,995$ $-6 \cdot 5$ $14,605$ $4 \cdot 4$ $15,404$ $5 \cdot 5$ $17,632$ $14 \cdot 4$ 11 to 20 hands— $1,236$ $-2 \cdot 5$ $1,234$ $-0 \cdot 2$ $1,316$ $6 \cdot 6$ $1,393$ $5 \cdot 9$ $1,584$ $13 \cdot 7$ Number of— $1,236$ $-2 \cdot 5$ $1,234$ $-0 \cdot 2$ $1,316$ $6 \cdot 6$ $1,393$ $5 \cdot 9$ $1,584$ $13 \cdot 7$ 21 to 50 hands— $1,115$ $2 \cdot 1$ $1,034$ $-7 \cdot 3$ $1,066$ $3 \cdot 1$ $1,159$ $8 \cdot 7$ $1,287$ $11 \cdot 7$ Number of— $3,633$ $2 \cdot 9$ $33,040$ $-7 \cdot 3$ $3,4,105$ $3 \cdot 2$ $36,796$ $7 \cdot 9$ $40,876$ $11 \cdot 7$ S1 to 100 hands— $425$ $-4 \cdot 1$ $406$ $-4 \cdot 5$ $416$ $2 \cdot 5$ $453$ $8 \cdot 9$ $490$ $8 \cdot 2$ S1 to 100 hands— $457$ $8 \cdot 8$ $460$ $0 \cdot 7$ $474$ $3 \cdot 0$ $467$ $-1 \cdot 5$ $464$ $-0 \cdot 7$ Number	Number of-						ļ				
Employees $2,636 - 12 \cdot 6$ $2,620 - 0 \cdot 6$ $2,950 - 3 \cdot 6$ $2,950 - 13 \cdot 1$ $3,945 - 2 \cdot 5$ $7 \cdot 2,520 - 14 \cdot 5$ 5 to 10 handsNumber of $5 \cdot 5 - 14,963 - 2 \cdot 5$ $13,995 - 6 \cdot 5 - 14,605 - 4 \cdot 4$ $15,404 - 5 \cdot 5 - 5 - 7$ $2,520 - 14 \cdot 5 - 5 - 7$ Factories $14,963 - 2 \cdot 5 - 7 - 14,963 - 2 \cdot 5 - 7 - 14,965 - 6 \cdot 5 - 7 - 14,605 - 7 - 14,605 - 6 \cdot 5 - 14,605 - 6 \cdot 6 - 1,393 - 5 - 9 - 1,584 - 13 \cdot 7 - 14,755 - 14,7$	Factories	659	-12.6	655	- 0·6				- 1		
Number of Factories2,092 $0.3$ $2,016$ $-3.6$ $2,087$ $3.5$ $2,205$ $5.7$ $2,520$ $14.43$ Employees $14,963$ $2.0$ $13,995$ $-6.5$ $14,605$ $4.4$ $15,404$ $5.5$ $17,632$ $14.43$ 11 to 20 hands $1,236$ $-2.5$ $1,234$ $-0.2$ $1,316$ $6.6$ $1,393$ $5.9$ $1,584$ $13.7$ Mumber of $12,236$ $-2.5$ $1,234$ $-0.2$ $1,316$ $6.6$ $1,393$ $5.9$ $1,584$ $13.7$ Employees $18,282$ $-1.8$ $18,105$ $-1.0$ $19,359$ $6.9$ $20,552$ $6.2$ $23,521$ $14.43$ 21 to 50 hands $1,115$ $2.1$ $1,034$ $-7.3$ $1,066$ $3.1$ $1,159$ $8.7$ $1,287$ $11.434$ 21 to 100 hands $35,633$ $2.9$ $33,040$ $-7.3$ $34,105$ $3.2$ $36,796$ $7.9$ $40,876$ $11.534$ 51 to 100 hands $3.4105$ $3.2$ $31,458$ $9.2$ $34,314$ $9.1$ Over 100 hands $457$ $8.8$ $460$ $0.7$ $474$ $3.0$ $467$ $-1.5$ $464$ $-0.7$ Number of $10.985$ $9.2$ $31,458$ $9.2$ $34,314$ $9.1$ Over 100 hands </td <td>Employees</td> <td>2,636</td> <td>-12.6</td> <td>2,620</td> <td>-0.6</td> <td>2,980</td> <td>13.7</td> <td>3,040</td> <td><math>2 \cdot 0</math></td> <td>3,140</td> <td>3.3</td>	Employees	2,636	-12.6	2,620	-0.6	2,980	13.7	3,040	$2 \cdot 0$	3,140	3.3
Factories2,092 $0.3$ $2,016$ $-3.6$ $2,087$ $3.5$ $2,205$ $5.7$ $2,520$ $14.4$ Employees $14,963$ $2.0$ $13,995$ $-6.5$ $14,605$ $4.4$ $15,404$ $5.5$ $17,632$ $14.4$ 11 to 20 hands— $Number of$ — $Factories$ $1,236$ $-2.5$ $1,234$ $-0.2$ $1,316$ $6.6$ $1,393$ $5.9$ $1,584$ $13.7$ Employees $18,282$ $-1.8$ $18,105$ $-1.0$ $19,359$ $6.9$ $20,552$ $6.2$ $23,521$ $14.4$ 21 to 50 hands— $Number of$ — $1,115$ $2.1$ $1,034$ $-7.3$ $1,066$ $3.1$ $1,159$ $8.7$ $1,287$ $11.7$ Employees $$ $35,633$ $2.9$ $33,040$ $-7.3$ $34,105$ $3.2$ $36,796$ $7.9$ $40,876$ $11.7$ 51 to 100 hands— $$ $425$ $-4.1$ $406$ $-4.5$ $416$ $2.5$ $453$ $8.9$ $490$ $8.2$ Employees $$ $29,495$ $-3.8$ $28,180$ $-4.5$ $28,803$ $2.2$ $31,458$ $9.2$ $34,314$ $9.1$ Over 100 hands— $$ $$ $457$ $8.8$ $460$ $0.7$ $474$ $3.0$ $467$ $-1.5$ $464$ $-0.7$ Number of— $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ Number of— $$ $$ $$ $$ <t< td=""><td>5 to 10 hands</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	5 to 10 hands										
Factories $2,092$ $0.3$ $2,016$ $-3.6$ $2,071$ $3.6$ $2,037$ $3.6$ $2,037$ $3.6$ $2,037$ $3.6$ $2,037$ $3.6$ $2,037$ $3.6$ $2,037$ $3.6$ $2,037$ $3.6$ $2,037$ $3.6$ $2,037$ $3.6$ $2,037$ $3.6$ $2,037$ $3.6$ $2,037$ $3.6$ $2,037$ $3.6$ $2,037$ $3.6$ $2,037$ $3.6$ $2,037$ $3.6$ $2,037$ $3.6$ $2,037$ $3.6$ $1,046$ $5.5$ $17,632$ $14.63$ 11 to 20 hands $Number of$ $Ractories$ $11,236$ $-2.5$ $1,234$ $-0.2$ $1,316$ $6.6$ $1,393$ $5.9$ $1,584$ $13.7$ 21 to 50 hands $18,282$ $-1.8$ $18,105$ $-1.0$ $19,359$ $6.9$ $20,552$ $6.2$ $23,521$ $14.6$ 21 to 50 hands $Number of$ $11,15$ $2.1$ $1,034$ $-7.3$ $1,066$ $3.1$ $1,159$ $8.7$ $1,287$ $11.6$ Employees $$ $35,633$ $2.9$ $33,040$ $-7.3$ $34,105$ $3.2$ $36,796$ $7.9$ $40,876$ $11.6$ 51 to 100 hands $Ractories$ $$ $425$ $-4.1$ $406$ $-4.5$ $416$ $2.5$ $453$ $8.9$ $490$ $8.2$ $Si 1 to 100 handsRactories29,495-3.828,180-4.528,8032.231,4589.234,3149.1Over 100 handsRactories.$	Number of-	1							_		
Employees        14,963 $2 \cdot 0$ 13,953 $-0 \cdot 3$ 14,060 $14$ $13,160$ $14$ $13,160$ $14$ $13,160$ $14$ $13,160$ $14$ $13,160$ $14$ $13,160$ $14$ $13,160$ $14$ $13,160$ $14$ $13,160$ $14$ $13,160$ $14$ $13,160$ $14$ $13,160$ $14$ $13,160$ $14$ $13,160$ $14$ $13,160$ $14$ $13,160$ $14,160$ $14,160$ $14,160$ $14,160$ $14,160$ $14,160$ $14,160$ $14,160$ $14,160$ $14,160$ $14,160$ $14,160$ $14,100$ $14,100$ $14,100$ $14,100$ $14,100$ $14,100$ $14,100$ $14,100$ $14,100$ $14,100$ $1$	Factories	2,092	0.3	2,016	-3.6	2,087	$3 \cdot 5$	·		F	
Number of—       1,236 $-2 \cdot 5$ 1,234 $-0 \cdot 2$ 1,316 $6 \cdot 6$ 1,393 $5 \cdot 9$ 1,584 $13 \cdot 7$ Employees       18,282 $-1 \cdot 8$ 18,105 $-1 \cdot 0$ 19,359 $6 \cdot 6$ 1,393 $5 \cdot 9$ 1,584 $13 \cdot 7$ 21 to 50 hands—       115 $2 \cdot 1$ 1,034 $-7 \cdot 3$ 1,066 $3 \cdot 1$ $1,159$ $8 \cdot 7$ $1,287$ $11 \cdot 7$ Employees $35,633$ $2 \cdot 9$ $33,040$ $-7 \cdot 3$ $34,105$ $3 \cdot 2$ $36,796$ $7 \cdot 9$ $40,876$ $11 \cdot 7$ 51 to 100 hands— $425$ $-4 \cdot 1$ $406$ $-4 \cdot 5$ $416$ $2 \cdot 5$ $453$ $8 \cdot 9$ $490$ $8 \cdot 2$ Employees $29,495$ $-3 \cdot 8$ $28,180$ $-4 \cdot 5$ $28,803$ $2 \cdot 2$ $31,458$ $9 \cdot 2$ $34,314$ $9 \cdot 1$ Over 100 hands— $457$ $8 \cdot 8$ $460$ $0 \cdot 7$ $474$ $3 \cdot 0$ $467$ $-1 \cdot 5$ $464$ $-0 \cdot 7$ Number of—	Employees	14,963	$2 \cdot 0$	13,995	-6.5	14,605	4 · 4	15,404	5.5	17,632	14.5
Factories $1,236$ $-2 \cdot 5$ $1,234$ $-0 \cdot 2$ $1,316$ $6 \cdot 6$ $1,393$ $5 \cdot 9$ $1,584$ $13 \cdot 7$ Employees $18,282$ $-1 \cdot 8$ $18,105$ $-1 \cdot 0$ $19,359$ $6 \cdot 9$ $20,552$ $6 \cdot 2$ $23,521$ $14 \cdot 7$ 21 to 50 hands $1,115$ $2 \cdot 1$ $1,034$ $-7 \cdot 3$ $1,066$ $3 \cdot 1$ $1,159$ $8 \cdot 7$ $1,287$ $11 \cdot 7$ Employees $$ $35,633$ $2 \cdot 9$ $33,040$ $-7 \cdot 3$ $34,105$ $3 \cdot 2$ $36,796$ $7 \cdot 9$ $40,876$ $11 \cdot 7$ 51 to 100 hands $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ Number of $$ $$ $$ $$ $29,495$ $-3 \cdot 8$ $28,180$ $-4 \cdot 5$ $28,803$ $2 \cdot 2$ $31,458$ $9 \cdot 2$ $34,314$ $9 \cdot 1$ Over 100 hands $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ Number of $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ Number of $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ Number of $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ Number of $$ $$ $$ $$ $$ $$ <	11 to 20 hands-										
Factories        1,236 $-2 \cdot 5$ 1,234 $-0 \cdot 2$ 1,316 $0 \cdot 6$ 1,306 $0 \cdot 6$ 20,552 $6 \cdot 2$ 23,521       14 \cdot         21 to 50 hands       1,115 $2 \cdot 1$ 1,034 $-7 \cdot 3$ 1,066 $3 \cdot 1$ 1,159 $8 \cdot 7$ 1,287       11 \cdot         Employees        35,633 $2 \cdot 9$ 33,040 $-7 \cdot 3$ 34,105 $3 \cdot 2$ 36,796 $7 \cdot 9$ 40,876       11 \cdot         51 to 100 hands       Pactories        425 $-4 \cdot 1$ 406 $-4 \cdot 5$ 416 $2 \cdot 5$ 453 $8 \cdot 9$ 490 $8 \cdot 2$ Employees        29,495 $- 3 \cdot 8$	Number of-	1.1									
Employees $18,232$ $1\cdot 8$ $16,103$ $1\cdot 6$ $1\cdot 6,003$ $0\cdot 7$	Factories	1,236	3 - 2.5		- I	1,316	6.6		1		
Number of—       1,115 $2 \cdot 1$ 1,034 $-7 \cdot 3$ 1,066 $3 \cdot 1$ 1,159 $8 \cdot 7$ 1,287       11 \cdot         Employees $35,633$ $2 \cdot 9$ $33,040$ $-7 \cdot 3$ $34,105$ $3 \cdot 2$ $36,796$ $7 \cdot 9$ $40,876$ $11 \cdot$ 51 to 100 hands—       Pactories $425$ $-4 \cdot 1$ $406$ $-4 \cdot 5$ $416$ $2 \cdot 5$ $453$ $8 \cdot 9$ $490$ $8 \cdot 2$ Employees $29,495$ $-3 \cdot 8$ $28,180$ $-4 \cdot 5$ $28,803$ $2 \cdot 2$ $31,458$ $9 \cdot 2$ $34,314$ $9 \cdot 1$ Over 100 hands— $457$ $8 \cdot 8$ $460$ $0 \cdot 7$ $474$ $3 \cdot 0$ $467$ $-1 \cdot 5$ $464$ $-0 \cdot 7$ Factories $457$ $8 \cdot 8$ $460$ $0 \cdot 7$ $474$ $3 \cdot 0$ $467$ $-1 \cdot 5$ $464$ $-0 \cdot 7$	Employees	18,282	2 - 1.8	18,105	-1.0	19,359	6.9	20,552	$6 \cdot 2$	23,521	14.4
Factories       1,115       2·1       1,034       -7·3       1,066       3·1       1,159       8·7       1,287       11.         Employees        35,633       2·9       33,040       -7·3       34,105       3·2       36,796       7·9       40,876       11.         51 to 100 hands—              400       8·2         Factories        425       - 4·1       406       -4·5       416       2·5       453       8·9       490       8·2         Employees        29,495       - 3·8       28,180       -4·5       28,803       2·2       31,458       9·2       34,314       9·1         Over 100 hands—         457       8·8       460       0·7       474       3·0       467       -1·5       464       -0·7         Factories        457       8·8       460       0·7       474       3·0       467       -1·5       464       -0·7	21 to 50 hands										
Factories       1,115 $2 \cdot 1$ $1,034$ $-7 \cdot 3$ $1,000$ $3 \cdot 1$ $1,034$ $-7 \cdot 3$ $3,040$ $-7 \cdot 3$ $34,105$ $3 \cdot 2$ $36,796$ $7 \cdot 9$ $40,876$ $11 \cdot 31$ 51 to 100 hands—       Factories $425$ $4 \cdot 1$ $406$ $-4 \cdot 5$ $416$ $2 \cdot 5$ $453$ $8 \cdot 9$ $490$ $8 \cdot 2$ Employees $29,495$ $-3 \cdot 8$ $28,180$ $-4 \cdot 5$ $28,803$ $2 \cdot 2$ $31,458$ $9 \cdot 2$ $34,314$ $9 \cdot 1$ Over 100 hands—       Factories $457$ $8 \cdot 8$ $460$ $0 \cdot 7$ $474$ $3 \cdot 0$ $467$ $-1 \cdot 5$ $464$ $-0 \cdot 7$ Factories $457$ $8 \cdot 8$ $460$ $0 \cdot 7$ $474$ $3 \cdot 0$ $467$ $-1 \cdot 5$ $464$ $-0 \cdot 7$	Number of-										
Employees        35,655 $2\cdot5$ $35,645$ $1\cdot6$ $0\cdot11\cdot6$ <td>Factories</td> <td>1,11</td> <td><math>5 2 \cdot 1</math></td> <td>1,034</td> <td>-7.3</td> <td>1,066</td> <td><math>3 \cdot 1</math></td> <td>1,159</td> <td>8.7</td> <td></td> <td></td>	Factories	1,11	$5 2 \cdot 1$	1,034	-7.3	1,066	$3 \cdot 1$	1,159	8.7		
Number of       425 $4 \cdot 1$ 406 $-4 \cdot 5$ 416 $2 \cdot 5$ 453 $8 \cdot 9$ 490 $8 \cdot 2$ Employees       29,495 $-3 \cdot 8$ 28,180 $-4 \cdot 5$ 28,803 $2 \cdot 2$ $31,458$ $9 \cdot 2$ $34,314$ $9 \cdot 1$ Over 100 hands-       Number of       457 $8 \cdot 8$ $460$ $0 \cdot 7$ $474$ $3 \cdot 0$ $467$ $-1 \cdot 5$ $464$ $-0 \cdot 7$ Factories $457$ $8 \cdot 8$ $460$ $0 \cdot 7$ $474$ $3 \cdot 0$ $467$ $-1 \cdot 5$ $464$ $-0 \cdot 7$	Employees	35,63	3 2.9	33,040	-7.3	34,105	3.2	36,796	7.9	40,876	11.1
Factories $425$ $-4\cdot1$ $406$ $-4\cdot5$ $416$ $2\cdot5$ $453$ $8\cdot9$ $490$ $8\cdot2$ Employees $29,495$ $-3\cdot8$ $28,180$ $-4\cdot5$ $28,803$ $2\cdot2$ $31,458$ $9\cdot2$ $34,314$ $9\cdot1$ Over 100 hands- $457$ $8\cdot8$ $460$ $0\cdot7$ $474$ $3\cdot0$ $467$ $-1\cdot5$ $464$ $-0\cdot7$ Factories $457$ $8\cdot8$ $460$ $0\cdot7$ $474$ $3\cdot0$ $467$ $-1\cdot5$ $464$ $-0\cdot7$	51 to 100 hands-										
Factories $425 - 4 \cdot 1$ $406 - 4 \cdot 5$ $416 - 2 \cdot 5$ $435 - 5 - 4 \cdot 1$ $406 - 4 \cdot 5$ Employees $29,495 - 3 \cdot 8$ $28,180 - 4 \cdot 5$ $28,803 - 2 \cdot 2$ $31,458 - 9 \cdot 2$ $34,314 - 9 \cdot 1$ Over 100 hands-       Number of- $457 - 8 \cdot 8$ $460 - 0 \cdot 7$ $474 - 3 \cdot 0$ $467 - 1 \cdot 5$ $464 - 0 \cdot 7$ Factories $$ $457 - 8 \cdot 8$ $460 - 0 \cdot 7$ $474 - 3 \cdot 0$ $467 - 1 \cdot 5$ $464 - 0 \cdot 7$	Number of	1									
Employees       29,495 $-3\cdot8$ $29,180$ $-4\cdot3$ $28,800$ $2\cdot2$ $0.9,100$ $0.1$ Over 100 hands-       Number of $457$ $8\cdot8$ $460$ $0\cdot7$ $474$ $3\cdot0$ $467$ $-1\cdot5$ $464$ $-0\cdot7$ Factories $457$ $8\cdot8$ $460$ $0\cdot7$ $474$ $3\cdot0$ $467$ $-1\cdot5$ $464$ $-0\cdot7$	Factories	42	$5 - 4 \cdot 1$	406	-4.5	416	$2 \cdot 5$			-	
Number of—         Factories         457         8.8         460         0.7         474         3.0         467         -1.5         464         -0.7	Employees	29,49	5 - 3.8	28,180	-4.5	28,803	$2 \cdot 2$	31,458	9.2	34,314	9.1
Factories $457$ $8 \cdot 8$ $460$ $0 \cdot 7$ $474$ $3 \cdot 0$ $467$ $-1 \cdot 5$ $464$ $-0 \cdot 7$ $457$ $8 \cdot 8$ $460$ $0 \cdot 7$ $474$ $3 \cdot 0$ $467$ $-1 \cdot 5$ $464$ $-0 \cdot 7$	Over 100 hands-						ļ				
Factories 457 8.8 400 07 114 0 0 1 114 0 0 1 1 100 005 9 0	Number of-					1		-		ļ	
-8.9	Factories	45	7 8.8	460	1 · · ·				1		1
<b>Employees</b> $153,256$ $16\cdot3$ $161,892$ $5\cdot6$ $156,312 - 3\cdot4$ $145,215 - 7\cdot1$ $132,283 - 8\cdot5$	Employees	153,25	6 16 3	161,895	2 5.6	156,312	$ -3 \cdot 4$	145,215	$ -7 \cdot 1$	132,285	-8.9

Note.-Minus sign indicates decrease.

#### VICTORIA—PROPORTION OF FACTORIES OF DIFFERENT SIZES.

			P	ercentag	e to T	otal (Ye	ar ende	d 30th	June)-	-	
	l	194	2.	194	43.	194	4.	19	5.	194	16.
Size of Factor	<b>y.</b>	Factories.	Employees.	Factories.	Employees.	Factories.	Employees.	Factories.	Employees.	Factories.	Employees.
Under 4 hands 4 " 5 to 10 ", 11 to 20 ", 21 to 50 ", 51 to 100", 101 and over Total	· · · · · · · · ·	$     \begin{array}{r}       32 \cdot 9 \\       7 \cdot 4 \\       23 \cdot 4 \\       13 \cdot 9 \\       12 \cdot 5 \\       4 \cdot 8 \\       5 \cdot 1 \\       \hline       100 \cdot 0     \end{array} $	$ \begin{array}{r} 2 \cdot 1 \\ 1 \cdot 0 \\ 5 \cdot 8 \\ 7 \cdot 0 \\ 13 \cdot 7 \\ 11 \cdot 4 \\ 59 \cdot 0 \\ \hline 100 \cdot 0 \end{array} $	$   \begin{array}{r}     33 \cdot 6 \\     7 \cdot 5 \\     23 \cdot 1 \\     14 \cdot 1 \\     11 \cdot 8 \\     4 \cdot 6 \\     5 \cdot 3 \\     \hline     100 \cdot 0   \end{array} $	$ \begin{array}{c} 2 \cdot 1 \\ 1 \cdot 0 \\ 5 \cdot 3 \\ 6 \cdot 9 \\ 12 \cdot 5 \\ 10 \cdot 7 \\ 61 \cdot 5 \\ \hline 100 \cdot 0 \end{array} $	$     \begin{array}{r}       34 \cdot 5 \\       8 \cdot 0 \\       22 \cdot 4 \\       14 \cdot 1 \\       11 \cdot 4 \\       4 \cdot 5 \\       5 \cdot 1 \\       \hline       100 \cdot 0     \end{array} $	$   \begin{array}{r}     2 \cdot 3 \\     1 \cdot 1 \\     5 \cdot 6 \\     7 \cdot 4 \\     13 \cdot 0 \\     11 \cdot 0 \\     59 \cdot 6 \\   \end{array} $ 100 \cdot 0	$ \begin{array}{r} 33 \cdot 4 \\ 7 \cdot 9 \\ 22 \cdot 8 \\ 14 \cdot 4 \\ 12 \cdot 0 \\ 4 \cdot 7 \\ 4 \cdot 8 \\ \hline 100 \cdot 0 \end{array} $	$ \begin{array}{r} 2 \cdot 4 \\ 1 \cdot 2 \\ 5 \cdot 9 \\ 7 \cdot 9 \\ 14 \cdot 2 \\ 12 \cdot 2 \\ 56 \cdot 2 \\ \hline 100 \cdot 0 \end{array} $	$   \begin{array}{r}     30 \cdot 1 \\     7 \cdot 7 \\     24 \cdot 7 \\     15 \cdot 5 \\     12 \cdot 6 \\     4 \cdot 8 \\     4 \cdot 6 \\     \hline     100 \cdot 0   \end{array} $	$ \begin{array}{r} 2 \cdot 3 \\ 1 \cdot 2 \\ 6 \cdot 9 \\ 9 \cdot 1 \\ 15 \cdot 9 \\ 13 \cdot 3 \\ 51 \cdot 3 \\ \hline 100 \cdot 0 \end{array} $

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	ended 30th	June	
Occupations.	1942.	1943.	1944.	1945.	1946.
Working proprietors No Managers, overseers ,, Accountants, clerks ,,	8,738 15,478	7,180 9,444 17,504	7,906 9,776 18,879	8,223 10,145 19,549	$\left.\begin{array}{c}8,089\\24,236\end{array}\right\}$
Chemists, draftsmen, researce staff, &c No Engine-drivers, firemen Foremen and overseers	9 109	2,047	2,011	2,135	3,255 9,439
Workers in factory or works ,, Outworkers	191	$\begin{array}{c} 223,759 \\ 196 \\ 2,227 \end{array}$	220,187 287 2,253	214,876 389 2,316	$\left. \begin{array}{c} 208,725\\ 2,505 \end{array} \right\}$
Total	. 258,400	262,357	261,299	257,633	256,249

Particulars relating to 1945–46 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.

Outworkers. 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.

Sex The average numbers of males and of females distribution employed in factories, and their proportions to the in factories. male and female populations, for each of the years, 1936-37 to 1945-46, were as follows :---

VICTORIA—EMPLOYMENT OF MALES AND FEMALES IN FACTORIES.

	Males.		ales.	. Fen	nales.	T	Total.		
Year 1 30th	Ended June—	Number.	Average per 10,000 of Male Population.	Number.	Average per 10,000 of Female Population.	Number.	Average. per 10,000 of Total Population		
1937		128,457	1,403	62,926	672	191,383	1,033		
1938	. ·	136,160	1,481	65,629	697	201,789	1,084		
1939	· .	136,218	1,470	65,613	692	201,831	1,076		
940		143,238	+1,533	69,223	724	212,461	1,124		
941	· · ·	161,880	1,745	75,756	781	237,636	1,252		
942		175,691	1,812	82,709	840	258,400	1,322		
943		175,340	1,792	87,017	874	262,357	1,331		
944	••	175,049	1,780	86,250	858	261,299	1,314		
945		174,424	1,769	83,209	820	257,633	1,285		
946		178,951	1,798	77,298	758	256,249	1,271		

Of the total persons employed, males formed 67 per cent. in 1936-37 and 68 per cent. in 1945-46. As compared with the year 1936-37, the number of males employed increased by 50,494 or 39 per cent. during 1945-46 and the number of females employed by 14,872 or 23 per cent.

Employment of females. Of the total number of females in factories, 57 per cent. were engaged in the textile and clothing groups of industries, 13 per cent. in the industrial metals, machines, &c., and 13 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, 1945-46.

Industry.		Number	Employed.	Females per
· · · · · · · · · · · · · · · · · · ·		Males.	Females.	100 Males.
Pharmaceutical and toilet preparations		800		
INKS-DOUGDOG	••	690	1,040	151
Cotton spinning and weaving	•••	285	224	79
Wool, carding, spinning, and weaving	••	1,256	1,519	121
	• •	6,099	5,321	87
Silk, natural	•••	3,336	8,200	246
Baron pylon and the shot of	• •	105	191	182
Rayon, nylon, and other synthetic fibres	••	33	107	324
Rope, cordage		1,125	607	54
Canvas goods, &c.		263	226	86
Furriers and fur dressing		222	171	77
Bags, trunks, &c.		416	469	113
Tailoring and ready-made clothing		1.943	6,489	334
"Clothing, waterproof		85	208	245
Dressmaking		849	9,031	
Millinery	••	214	9,031 938	1,064
Shirts, collars, underclothing	••	351		438
Stavs and corrects	••	351 107	2,915	830
Handkerchiefe ties &	••		784	733
Hate and come	••	42	223	531
Gloves	••	436	254	58
Boots and share	••	107	498	465
Boot and shoe accessories	••	4,939	4,525	92
Divornordra and D	••	96	134	140
Coroal fands	••	1,013	1,053	104
Cereal foods, &c		742	436	59
Biscuits	••	580	544	94
Confectionery		1,025	1,245	121
Jams, pickles, &c.		3,217	2,591	81
Meat and fish preserving, &c.		679	410	60
Condiments, grocers' sundries		670	775	115
Tobacco, cigarettes, &c.		826	1,261	113
Ice cream		196	1,201	
Bedding mattresses (not wire)		285	215	53
Furnishing, drapery	••	56		75
Government printing	••		220	393
teneral printing and books in the	•••	651	367	56
Envelopes stationery to	••	3,534	1,478	42
Cardboard boxes, cartons	••	436	447	103
Paper bags	••	767	769	100
Plastic moulding and products	• •	110	188	171
Brooms and brushes	••	1,022	594	58
Photographic material	•••	353	214	61
Torra games and		427	564	132
Toys, games, and sporting requisites		404	244	60
Artificial flowers		27	110	407
All other factories	•••	138,932	19,395	. 14
Total		178,951	77,298	43

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.

#### Victorian Year-Book, 1945-46.

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.

		Ma	ales.			F	emales.	
Year.	Under 16 Years.	16 and Under 21 Years.	21 Years and Over.	Total Males.	Under 16 Years.	16 and Under 21 Years.	21 Years and Over.	Total Female
une 15th, 1937	6,213	24,851	92,264	123,328	5,298	21,296	34,600	61,19
,, ,, 1938	6,017	26,444	97,188	129,649	5,279	22,429	36,428	64,13
,, ,, 1939	5,772	26,303	96,508	128,583	5,005	21,999	36,808	63,81
,, ,, 1940	6,060	27,150	105,978	139,188	5,276	23,153	40,531	68,96
,, ,, 1941	5,775	27,248	130,919	163,942	4,664	23,238	49,776	77,67
,, ,, 1942	5,458	20,039	141,481	166,978	3,754	20,900	58,051	82,70
,, ,, 1943	5,251	19,407	143,826	168,484	3,477	20,224	62,422	86,12
,, ,, 1944	5,031	19,928	141,943	166,902	3,731	19,274	59,389	82,39
,, ,, 1945	4,607	20,379	142,117	167,103	3,609	18,473	58,195	80,27
,, ,, 1946	3,449	20,836	155,504	179,789	3,007	17,568	54,630	75,20
			Perce	entage—				
	To 2	otal Mal	es Employ	ed	To 1	'otal Feme	ules Empl	oyed
une 15th, 1937	5.04	20.15	74.81	$100 \cdot 00$	8.66	34.80	56.54	100.0
,, ,, 1938	4.64	2 <b>0</b> ·40	74.96	100.00	$8 \cdot 23$	34.97	<b>56</b> ·80	100.0
,, ,, 1939	4·49	20.46	75.05	100.00	7.84	$34 \cdot 48$	57.68	100.0
,, ,, 1940	4.35	19.51	76·14	100.00	7.65	$33 \cdot 58$	58.77	100.0
" " 1941	$3 \cdot 52$	16.62	<b>79</b> · 86	100.00	6.00	29.92	64.08	100.0
,, ,, 1942	$3 \cdot 27$	12.00	84.73	100.00	$4 \cdot 54$	$25 \cdot 27$	70·19	100.0
" " 1943	$3 \cdot 12$	11.52	85 36	100.00	4.04	$23 \cdot 48$	72·48	100.0
,, ,, 1944	3.01	11.94	85.05	100.00	4.53	23.39	72.08	100-0
,, ,, 1945	2.76	$12 \cdot 20$	85.04	100-0Ò	4.50	$23 \cdot 01$	$72 \cdot 49$	100.0
,, ,, 1946	1.92	11.59	86.49	100.00	4.00	23.36	72.64	100.0

VICTORIA-FACTORY EMPLOYMENT-AGE GROUPS.

Machinery 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, 1936-37 to 1945-46. The value recorded is the depreciated value or book value less any existing depreciation reserve.

576

Year ended 30th June.		Number of Factories Equipped with Power-driven Machinery.	Rated Horse-power Used. *	Value of Machinery and Plant.	
					£
1937	••	· • •	8,538	789,524	36,213,626
1938	••	• •	8,655	858,216	36,868,289
1939	••	• •	8,761	862,221	38,570,380
1940	••	• •	8,741	997,768	40,849,523
1941	• •		8,678	1.063200	44,985,756
1942	, <i>.</i>		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

#### VICTORIA-MACHINERY IN FACTORIES.

\* 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 o	ndad 20th 1	[uno.	Number	of Factor	ries with Engin	ies Operat	ted by	Manual
Year ended 30th June-		Steam.	Gas.	Electricity.	Oil.	Water.	Labour.	
1937			402	171	7,465	489	11	627
1938	• •		385	146	7,661	455	8	586
1939			424	129	7,780	424	4	489
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
	•							

Horse-power of Engines. 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.

From the following table it can be calculated that, during 1945-46, the total rated horse-power used in Victorian factories other than electric generating stations, excluding, to avoid duplication, the horse-power developed by electricity generated in such factories was 654,026.

VICTORIA-HORSE-POWER	$\mathbf{OF}$	ENGINES	$\mathbf{IN}$	FACTORIES,
1	945-4	<b>1</b> 6.		

Clas	ngine.	Electric Generating Stations (Maximum Load).	Other Factories.	Total.			
Steam-							
Reciprocating		• •			545	29,543	30,088
Turbine					599,624	37,725	637,349
Internal Combustion-	-				<i>'</i>		
Gas					1,200	3,501	4,701
Petrol or other light	oils				20	4,799	4,819
Heavy oils					9,798	10,392	20,190
Water		••			66,660	1,389	68,049
Total		• •			677,847	87,349	765,196
Electric motors driven (a) Electricity gener (b) Purchased electricity	ated ir	own wor	ks		21,696	60,389 566,677	82,085 566,677

Reserve or idle horse-power capacity amounted to99,770, 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 ended 30th June.		Drawin Working 1 (excluding			Paid to and Clerks.	Wages Paid Factory	Total Salaries and Wages	
June.		Males.	Females.	Males.	Females.	Males.	Females.	Paid.
	(			Aggregate	Amounts.	1		
		e e	ı £	£	£	i £	£	£
1937 .		2,070,557	155,452	3,755,443	691,602	21,208,444		
1000		2,126,948	140,684	4.075.295	757,828	24,165,763		
1939 .		2,139,882	139.461	4.322.645	802,841	24,683,101		38,305,885
1940		2,205,339	139.094	4,682,728	876,390	27,117,013		41,920,726
		2,352,463	145,603	5,590,750	1,076,741	34,798,321		
1942 .		2,636,721	158,615	6,728,962	1,410,398	45,451,222		
1943 .		2,827,086	170,772	7,760,216	1,959,005	50,329,054	12,986,978	76,033,111
1944 .		3,229,601	209,894	8,584,082	2,295,621	50,026,632	13,054,858	77,400,688
		3,417,682	248,642	8,878,188	2,342,123	47,237,597	12,103,013	74,227,245
1946 .		*	*	8,415,206	2,157,676	48,357,567	11,568,765	70,499,214*
				Average .	Amounts.			
		£ s. d.	£ s. d.	£ s. d.	$\pounds$ s. d.	£ s. d.	$\pounds$ s. d.	$\pounds$ s. d.
1937 .		286 5 4						
1938 .		297 18 8	180 7 3	349 13 10	138 7 4	205 18 0	100 8 4	180 12 10*
1939		305 12 3	183 19 8	355 14 3		210 17 0	$105 \ 3 \ 1$	185 12 9*
1940 .		315 5 6	189 4 10	359 10 4	142 8 8		$110 \ 13 \ 11$	193 6 2*
1941 .		343 0 6	$202 \ 4 \ 6$	376 1 0	146 13 6		$123 \ 1 \ 3$	216 9 1*
1942 .		$393 \ 17 \ 10$	224 19 9	433 1 4			$146 \ 18 \ 4$	256 8 6*
		434 10 9	253 7 5	467 17 7			170 18 6	286 4 4*
1944 .		$451 \ 15 \ 1$	277 5 5	492 11 6			$175 \ 15 \ 9$	291 17 8*
		460 0 11	313 3 0	486 6 4			170 10 3	282 18 3*
1946 .				$495 \ 13 \ 1$	205 4 9	$312 \ 15 \ 5$	175 2 7	284 1 9*

\* 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 £1 3s. 6d. in 1945-46.

Cost and value of production each class of manufacturing industry during the year in factories. 1945-46 are given in the subjoined statement :---

#### VICTORIA-FACTORY COSTS AND OUTPUT, 1945-46.

		Cost	of		
Class of Industry.	Raw Materials Used (including Containers).	Fuel, Light, and Power Used.	Salaries and Wages Paid.	Tools Replaced, Repairs to Plant, Oil and Water Used.	Value of Output.
	1.	2	3.	4.	5.
1. Treatment of non-metalli-	£	£	£	£	£
ferous mine and quarry products	1,333,472	242,091	815,994	124,625	3,315,588
2. Bricks, pottery, glass, &c.	496,177	360,812	1,002,859	146,227	2,718,311
3. Chemicals, dyes, explosives, paint, oils, and grease	11,961,176	420,004	3,714,276	484,493	20,260,798
4. Industrial metals, ma- chines, implements, and conveyances	35,182,909	1,138,727	26,876,774	1,756,368	77,243,145
5. Precious metals, jewellery, and plate	594,480	15,646	433,617	17,425	1,349,056
6. Textiles and textile goods (not dress)	16,033,671	533,899	7,334,537	765,556	29,748,722
7. Skins and leather (not clothing or footwear)	3,349,538	77,160	1,373,346	146,359	5,904,121
8. Clothing	15,166,095	202,650	8,018,580	322,784	28,928,234
9. Food, drink, and tobacco	48,455,313	1,287,712	9,419,282	1,099,410	70,538,377
10. Woodworking and basket- ware	4,987,424	124,968	2,715,949	209,188	9,518,189
11. Furniture, hedding, &c.	1,709,295	20,420	843,010	36,090	3,418,440
12. Paper, stationery, print- ing, bookbinding, &c.	7,495,464	345,419	3,857,265	393,429	15,423,419
13. Rubber	3,614,977	177,733	1,158,070	214,608	6,131,232
14. Musical instruments	8,584	476	22,331	1,077	46,238
15. Miscellaneous products	2,422,779	74,503	1,805,674	135,942	5,842,021
16. Heat, light, and power	1,413,596	1,283,507	1,107,650	354,663	8,759,112
Total	154,224,950	6,305,727	70,499,214	6,208,244	289,145,003

579

#### Victorian Year-Book, 1945-46.

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, 1945-46.

	Percent	tage of Cost	s, &c., to To	tal Value of	Output.
Class of Industry.	Materials Used, Including Containers.	Fuel, Light, and Power.	Salaries and Wages.	Tools Replaced, Repairs to Plant, Oil and Water Used.	All Other Expendi- ture, Interest, and Profit.
1. Treatment of non-metalli- ferous mine and quarry	%	%	%	%	%
products	40.2	$7 \cdot 3$	24.6	3.8	24.1
2. Bricks, pottery, glass, &c.	18.3	$13 \cdot 3$	36 9	$5 \cdot 4$	26.1
3. Chemicals, dyes, explosives, paint, oils, and grease	59.0	$2 \cdot 1$	18.3	2.4	18.2
4. Industrial metals, ma- chines, implements, and conveyances	$45 \cdot 5$	1.5	34-8	2.3	15-9
5. Precious metals, jewellery, and plate	44 · 1	$1 \cdot 2$	$32 \cdot 1$	1.3	$21 \cdot 3$
6. Textiles and textile goods (not dress)	53.9	1.8	24 · 7	$2 \cdot 6$	17.0
7. Skins and leather (not clothing or footwear)	56.7	$1 \cdot 3$	23.3	$2 \cdot 5$	16.2
8. Clothing	$52 \cdot 4$	$0 \cdot 7$	27.7	1.1	18.1
9. Food, drink, and tobacco	68.7	$1 \cdot 8$	13.4	$1 \cdot 6$	14.5
10. Woodworking and basket- ware	$52 \cdot 4$	$1 \cdot 3$	28.5	$2 \cdot 2$	$15 \cdot 6$
11. Furniture, bedding, &c.	$50 \cdot 0$	0.6	$24 \cdot 7$	1.1	23.6
12. Paper, stationery, print- ing, bookbinding, &c.	<b>48</b> ·6	$2 \cdot 2$	$25 \cdot 0$	2.6	$21 \cdot 6$
13. Rubber	59·0	$2 \cdot 9$	18.9	$3 \cdot 5$	15.7
14. Musical instruments	18.6	$1 \cdot 0$	48.3	$2 \cdot 3$	29.8
15. Miscellaneous products	41.5	$1 \cdot 3$	30.9	$2 \cdot 3$	24.0
16. Heat, light, and power	16 · 1	14.7	12.6	4.0	$52 \cdot 6$
Total	53.3	$2 \cdot 2$	24 · 4	2.1	18.0

580

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 37 per cent. and the cost of raw materials 18 per cent. of the value of the finished article, whilst, in class nine, the expenditure on wages amounts to 13 per cent. and that on raw materials to 69 per cent. of the value of the output.

**Gost of Production.** 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 1936–37 to 1945–46.

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

		Spe	ecified Costs	of Productio	n.		
Year ended 30th June		Materials, Including Containers.	Fuel, Light, and Power.	Salaries and Wages.	Tools Replaced, Repairs to Plant, Oil and Water Used.	All other Costs, &c. *	Total Value of Output.
		£	£	£	£	£	£
1937		78,233,032	3,302,178	33,192,904	2,444,701	25,519,377	142,692,192
1938	••	85,926,478	3,627,106	37,228,543	2,607,751	27,660,847	157,050,725
1939		80,721,680	3,595,128	38,305,885	2,654,734	27,690,184	152,967,611
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	51,906,868	289,145,003

\* 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.

#### Victorian Year-Book, 1945-46.

			Proportion of Outlay to Output.						
	Zear ende Oth June		Materials, Including Containers.	Fuel, Light, and Power.	Salaries and Wages.	Tools Replaced, Repairs to Plant, Oil and Water Used.	Other Expendi- ture, Interest, and Profit.	Total.	
			%	%	%	%	%	%	
937	••	• •	54.8	$2 \cdot 3$	23.3	1.7	$17 \cdot 9$	100.0	
938	••	••	54.5	$2 \cdot 3$	$23 \cdot 6$	1.7	$17 \cdot 9$	100.0	
939	••	••	$52 \cdot 8$	$2 \cdot 3$	$25 \cdot 1$	1.7	18.1	100.0	
940	••	• •	53.6	$2 \cdot 2$	$24 \cdot 1$	1.7	18.4	100.0	
941	• •	••	$53 \cdot 5$	$2 \cdot 2$	25.0	1.8	17.5	100.0	
942	••	• •	$52 \cdot 9$	$2 \cdot 2$	$26 \cdot 1$	1.8	17.0	100.0	
943	••	• •	$52 \cdot 1$	$2 \cdot 2$	$27 \cdot 4$	2.0	16.3	100.0	
944	••		$52 \cdot 4$	$2 \cdot 2$	$27 \cdot 2$	$2 \cdot 1$	16.1	100.0	
945		••	$53 \cdot 1$	$2 \cdot 2$	$25 \cdot 8$	$2 \cdot 1$	16.8	100.0	
946			$53 \cdot 3$	$\overline{2 \cdot 2}$	$24 \cdot 4$	$2 \cdot 1$	18.0	100.0	

#### VICTORIA—PROPORTION OF OUTLAY TO OUTPUT OF FACTORIES.

The ratio of cost of materials to the value of the output of factories was 52.8 per cent. on the average of the last five years, as against 53.8 per cent. in the period 1936-37 to 1940-41. The ratio of salaries and wages to output averaged 26.2 per cent. over the last five years, as against 24.2 per cent. over the period 1936-37 The proportionate outlay on fuel, light, and power to 1940–41. was 2.2 per cent. in the first-mentioned and 2.3 per cent. in the After allocating the proportion for repairs last-mentioned period. 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 16s. in every £100 of the total output value in the period 1941-42 to 1945-46, as compared with £17 19s. in the preceeding five-year period.

In 1945-46, wages and salaries took 57.6 per cent. of the value added in manufacturing (see page 548), leaving 42.4 per cent. for the payment of expenses not specified above (taxation, depreciation, interest, rent, insurance, &c.), and funds available for profits.

Capital Invested in machinery, plant, land, and buildings used manufacturing plant and premises. 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 1945-46.

### VICTORIA—VALUE OF MACHINERY AND PLANT, LAND AND BUILDINGS, 1945–46.

Class of Industry.		Value of Land and Buildings.	Value of Machinery and Plant.	
		£	£	
1. Treatment of non-metalliferous mine and guarry products .		943,917	1,311,900	
2. Bricks, pottery, glass, &c		798,248	759,723	
3. Chemicals, dyes, explosives, paint, oils, and grease	İ	6,104,394	6,752,375	
t T. Jacket T. markels, much lange Same Same Same and same same same		17,174,574	15,661,705	
5 Dessions motols jourslow and plate		343,760	130,889	
" Martiles and tartile goods (not dress)		4,899,073	4,067,833	
Class and losther (not clething on footmeen)		1,128,149	492,498	
9 Clothing		5,462,115	1,787,796	
0 Bood drink and tobacco		11,877,394	7,754,106	
10 Weedworking and healtotman		1,467,433	1,251,999	
11 Example bodding fre		1,011,363	214.390	
10 Demon stationers printing bookhinding he		3,898,431	2,645,775	
10 Dathban		721,245	610,545	
14 Musical instrumants	.	32,339	6,671	
25 Minsellements products		1,313,732	1,016,211	
10 That light and nomen		3,088,786	14,072,978	
10. HORD, MEAN, WING POWER F. F. F. F. F. F.		0,000,100		
Total		60,264,953	58,537,394	
	1			

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 £69,629,543, appreciably more than one-half 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 1941-42 to 1945-46. 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.	Machinery and Plant.		
Ye	ear ended a	30th June		Value at end of Year.	Depre- ciation allowed during Year.	Value at end of Year.	Depre- ciation allowed during Year.	
				£	£	£	£	
1942				50,091,565	589,443	48,065,805	   3,997,818	
1943		• •		$52,\!642,\!052$	676,241	51,963,258	4,762,145	
1944				55,062,982	817,039	55,457,719	4,946,224	
1945				57,808,861	768,690	58,571,064	4,674,061	
1946				60,264,953	719,383	58,537,394	4,156,927	

583

#### Victorian Year-Book, 1945-46.

Accidents in In the appended table the number of accidents in factories. 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.

	Year.		Number of Employees.	Number of Accidents.	Percentage of Accidents to Number of Employees.		
1937					179,650	2,432	1.353
938	••	••	••	•••	184,509	2.374	1.286
	••	••	••				
939	••	••	• •	•• 1	187,690	2,505	1 • 334
940	••				196,263	3,534	1.801
941					224,347	5,592	2.493
942					215,456	6,347	2.946
943					227,407	7.828	$3 \cdot 442$
944					229,397	7,235	3.124
945					231,984	6,116	2.636
946					241,705	6,387	2.642

#### VICTORIA-ACCIDENTS IN FACTORIES.

The foregoing tables do not include particulars relating Manufacturesto work of various kinds done at the Pentridge Penal Establishment and at the Royal Victorian Institute for Penal Department and Blind Institute. the Blind. At the former establishment the manufacture and process treatment in relation to the following industries are carried on :---Wire-netting, textile, tailors, clothing, footwear, brushware, coir-matting, wood and metal works, knitting, printing, bookbinding, and photography. The estimated value of the output for 1945-46 was £61,694 and, of the materials used, £27,506. The 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, and gives employment to 115 persons (105 males and 10 females). The. value of the articles produced for the period under review was £62,770.

Factory Although approximately 70 per cent. of the factories 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 1945-46.

		Persons E	Employed. Salaries		Value of	Value of	Value of Materials	Value of Articles
Municipality.	Number of Factories.	Males.	Females.	and Wages Paid.	Land and Buildings.	Plant and Machinery.	Used (including Containers).	Produced
				£	£	£	£	£
felbourne	2,432	31,765	21,687	14,015,776	13,620,858	7,888,339	29,524,513	54,948,946
runswick	432	6,551	4,701	2,808,104 812,177	1,964,412	1,238,123 196,316	5,260,944	10,301,120
ssendon	142	2,172	522	812,177	303,290	196,316	938,666	2,044,022
oburg	109	2,034	1,454	890,983	496,570	279,184	1,480,081 1.259,616	3,101,406 2,345,262
reston	105	1,845	479	664,167	671,703	291,461		2,349,202
orthcote	140	$1,621 \\ 5,972$	537	568,375	441,198	557,214	$812,505 \\ 4,693,027$	1,886,710
itzroy	343	5,972	3,646	2,494,866 4,964,409	$1,751,484 \\ 2.905,564$	1,062,730 2,284,352	9,495,367	9,187,116 18,443,860
ollingwood	443 39	11,337 113	$7,061 \\ 121$	4,964,409	2,905,504	2,284,352	104,414	194,343
ew	107	787	795	324,751	283.351	123,959	471,699	1,061,655
amberwell	1 1 1 4	1,338	806	516,125	456,776	252,290	1,002,738	2,031,165
lawthorn	970	11,592	5,667	4,827,268	3,443,369	2,441,090	9,045,509	17 950 254
	940	3,955	2.832	1.694.597	1.251,923	558,939	4,490,912	17,950,254 7,742,200
<b>F</b> - 1	154	885	505	311.777	314.771	157,686	550,118	1,108,228
Laivern	174	801	449	256,159	270,306	133,651	512,297	1,108,228 1,016,866
akleigh		781	209	246,520	181,862	180,329	351.753	785,991
andringham		286	264	111,357	116,890	63,155	167,988	410,351 1,575,870
Brighton		958	564	394,905	322,658	275,820	784.372	1,575,870
t. Kilda	144	935	524	353,627	340,171	136,506	655,965	1,422,507
outh Melbourne	464	15,962	4,624	6.171.240	4,268,043 2,198,088	$3, \overline{3}36, 923 \\ 1, 345, 012$	14,458,394	i 26.652.324
Port Melbourne	99	8,830	2,164	3,377,194	2,198,088	1,345,012	7,604,744	13,300,599
Footscray	245	12,384	3,081	4,711,099	4,043,628	5,550,268	14,799,050	23,926,766 9,653,480
Villiamstown	110	9,612	790	$3,316,614 \\ 3,778,543$	3.027.570	$4,828,296 \\ 6,127,033$	3,657,680	9,653,480
Braybrook	83	9,487	1,706	3,778,543	4,897,689 349,499	6,127,033	7,098,113	13,409,737 2,202,048
Ieidelberg	75	1,015	307	377,862	349,499	148,863	1,221,656	2,202,048
Box Hill	43	523	86	170,957	119,503	243,078	244,872	524,538
Ioorabbin	60	1,004	360	363,750	258,964	409,983	551,363	1,450,228
fordialloc	32	292	233	100,184	53,709	69,037	192,443	366,484
Chelsea	16	109	11	33,074	25.659	17,120	44,151	105,750
Total Metropolitan	7,116	144.946	66,185	58,701,918	48,446,567	40.219.029	121,474,950	1229.149.826

# VICTORIA-FACTORY STATISTICS BY MUNICIPALITIES, 1945-46.

585

		Persons E	mployed.	Salaries	Value of	Value of	Value of Materials	Value of Articles
Municipality.	Number of Factories.	Males.	Females.	and Wages Paid.	Land and Buildings.	Plant and Machinery.	Used (including Containers).	Produced or Work Done.
				£	£	£	£	£
Dandenong	47	1,226	407	445,792	275,283	235,596	1,056,666	1,755,901
*Geelong	259	7,187	2,274	2,686,626	2,364,696	2,348,628	5,405,060	10,699,347
Korumburra	24	165	22	49,062	57,659	55,718	385,828	600,548
Alexandra	16	166	_2	52,628	156,111	764,695	85,706	$\begin{array}{r} 621,832\\ 325,884 \end{array}$
Kyneton	33	230	179	71,761	40,352	$\substack{40,262\\244,353}$	159,077 296,985	325,884 730,361
Castlemaine	33	795	191	$266,001 \\ 222,330$	102,157	244,555	360,329	707,379
Maryborough	34	554	365	1,281,091	63,296	$55,747 \\ 1,303,937$	2,128,915	4 471 384
<sup>†</sup> Ballarat (including Sebastopol)	229	3,466	1,666	1,281,091 217,855	$1,094,652 \\ 168.018$	123,336	770,111	4,471,384 1,135,384
†Colac	68	$\begin{smallmatrix} 604 \\ 409 \end{smallmatrix}$	$\begin{array}{c} 216 \\ 120 \end{array}$	139.041	112,262	125,330 111,239	798,742	1,100,004
Hampden	$\begin{array}{c} 42\\ 69\end{array}$	1,286	541	495,265	501,506	475.479	2,263,215	1,110,779 3,327,447
†Warmambool	35	335	192	117,296	89,606	89,476	144,109	460 864
	47	260	152	80.317	83,285	59,937	234,080	$460,864 \\ 397,652$
47041. 1	47	440	$24^{-2}$	118,465	87,255	114.933	289,304	525,864
TT I	39	220	47	60,787	109,249	73,220	213,124	354,266
+C(1	41	347	193	125,450	82,249	88,038	351,684	703,307
45 613 3	95	906	$\frac{155}{258}$	294,386	253.061	326.242	684,809	1,272,324
Charles Trill	53	304	. 64	85,369	79,810	90,587	215,571	398,790
Bendigo (including Eaglehawk)	139	$1,62\overline{6}$	841	610,688	965.267	1.726,119	1,362,721	2,456,005
04	100	590	47	196,374	261,001	156,118	297.148	593,790
Echuca	32	171	28	46,914	41.366	28,901	203,839	279,105
Deducer	35	387	202	158,458	222,827	210.071	789,694	1,084,107
4633	59	623	224	221,256	207,270	125,093	1,097,999	1.544.175
†Wangaratta	49	344	193	112,989	110,858	114.570	421,897	615,735
Bairnsdale	42	188	34	49,452	52,058	36,534	204,707	306,151
Maffra	15	403	80	150.735	109,800	172,403.	1,342,030	1,656,123
Woorayl	17	127	45	38,216	52,023	44.083	493,244	565,663
Morwell	$\begin{array}{c} 22\\45\end{array}$	1,836	240	770,968	1,522,183	5,582,619	1,107,420	6,375,607
Narracan	45	378	101	123,612	56,136	143,508	353,568	585,896
Warragul	25	217	144	86,143	73,247	48,286	356,969	519,789
Buln Buln	20	283	17	99,918	87,238	94,808	537,616	688,670
Other Municipalities	1,365	7,932	2,184	2,322,051	2,336,605	3,233,829	8,337,833	13,125,048
Total Country	3,079	34,005	11,113	11,797,296	11,818,386	18,318,365	32,750,000	59,995,177
Total State	10,195	178,951	77,298	70,499,214	60,264,953	58,537,394	154,224,950	289,145,003

# VICTORIA—FACTORY STATISTICS BY MUNICIPALITIES, 1945-46—continued.

\* Includes Corio, Geelong West, and Newtown and Chilwell.

† Includes Shire of same name,

586

Victorian Year-Book, 1945-46.

# 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.

Division of In	dustry.	Year ended 30th June-									
		1942.	1943.	1944.	1945.	1946.					
		£	£	£	£	£					
Agriculture		25,794,748	28,333,943	25,027,101	23,911,774	33,156,746					
Pastoral	• •	23,498,063	27,716,439	29,148,380	27,409,567	20,753,083					
Dairying	• ••	15,567,176	16,026,887†	16,997,685†	17,864,037†	18,866,694†					
Poultry and Bee	s	5,036,181	7,041,842	7,334,746	7,455,981	7,506,706					
Trapping		2,197,815	1,521,598	2,864,377	2,553,735	3,271,866					
Forestry	•••	2,122,463	2,449,484	2,602,467	2,884,556	3,127,887					
Fisheries		463,724	448,546	409,143	400,720	548,081					
Mining		2,987,990	2,542,880	2,179,766	2,176,539	2,506,043					
Manufacturing*		110,937,614	121,379,747	123,330,518	122,377,307	122,406,082					
• .											
Total		$188,\!605,\!774$	207,461,366	209,894,183	207,034,216	212,143,188					

VICTORIA-GROSS VALUE OF PRODUCTION.

\* 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.

 $\dagger$  Includes Subsidy—1942–43, £675,695 ; 1943–44, £2,497,404 ; 1944–45, £3,226,620 ; 1945–46, £3,147,000.

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	A—VALUE	$\mathbf{AT}$	THE	PLACE	$\mathbf{OF}$	PRODUCTION.

Produce.		Value in Year ended 30th June—									
		1942.	1943.	1944.	1945.	1946.					
		£	£	£	£	£					
Agriculture	•••	21,647,390	24,419,285	22,213,552	21,598,093	29,315,445					
Barley		565,310	225,905	217,952	206,589	408,369					
Maize		107,599	89,904	53,379	59,805	112,558					
Oats		762,688	721,571	430,497	535,928	1,129,836					
Wheat		7,993,157	7,518,405	3,753,315	1.896.500	8,621,711					
Onions		301,661	458,075	403,342	697,289	585,789					
Potatoes		1,507,621	1,697,700	2,160,192	3,064,501	2,377,434					
Hay and Straw		4,395,334	4.280.428	4,309,087	4.650.837	5,704,774					
Fruit-		2,000,001	1,200,120	1,000,001	1,000,001	0,101,111					
Orchards		1,404,190	2.077.431	2.904.019	2,700,113	2,550,527					
Vineyards		2,266,924	2,494,337	2,887,618	2.096.206	2,751,473					
Other Oners	••	2,342,906	4.855,529	5.094,151	5,690,325	5,072,974					
Other Crops	••	2,342,900	4,000,029	5,094,151	0,000,020	5,012,914					
Pastoral .	•••	21,692,552	25,739,840	27,097,113	25,457,318	19,348,301					
Wool		11,765,038	13,399,024	12.510.938	11.149.746	8,955,354					
Sheep, slaughtered		4,539,279	6,124,362	7,844,181	7,533,893	4,736,249					
Cattle, slaughtered		5,388,235	6.188.942	6,741,994	6,773,679	5,656,698					
Horses			27,512	•••	•••						
			, í								
Dairying	••	14,905,707	15,395,512*	16,379,834*	17,237,829*	18,232,630					
Cream for butter		7.644.724	6.957.188	6,484.915	6,099,988	7,203,179					
Milk for cheese		652,967	819,703	792,856	862,385	1,306.779					
Milk for condensing.	con-		010,000		,	_,					
centrating, &c.		1.023,419	1,176,508	1.308,796	1.454.077	1.563.341					
Whole milk consumed		2,851,599	2,789,756	2,832,099	2,823,019	3,006,575					
Pigs		2,732,998	2,976,662	2,463,764	2,771,740	2.005.756					

\*Inclusive of Subsidy-1942-43, £675,695; 1943-44, £2,497,404; 1944-45, £3,226,620; 1945-46, £3,147,000.

Produce.	Value in Year ended 30th June									
	1942.	1943.	1944.	1945.	1946.					
	£	£	£	£	£					
Poultry and Bees	4,646,757	6,473,203	6,680,036	6,889,068	6,936,341					
Eggs	3,591,119	4,616,822	5,097,787	5,317,338	5,208,664					
Poultry Honey and beeswax	922,682 132,956	1,725,973 130,408	1,509,385 72.864	1,450,606 121,124	1,612,496 115,181					
- only and becomment	152,550	150,408	12,004	141,144	110,101					
Trapping, &c	2,127,645	1,462,031	2,771,645	2,451,538	3,174,158					
Rabbits and hares	189,875	209,296	229,524	325,131	279,220					
Rabbit and hare skins, &c.	1,937,770	1,252,735	2,542,121	2,126,407	2,894,938					
Forestry	1,898,809	2,162,594	2,294,547	2,565,264	2,826,229					
Sawmills	1,028,202	1,068,824	1,124,452	1,340,415	1,675,443					
Firewood	802,364	1,056,457	1,142,655	1,178,753	1,118,180					
Bark for tanning	68,243	37,313	27,440	46,096	32,606					
Fisheries	387,462	377,418	345,749	339,043	465,625					
Fish	379.590	373,113	342,195	336,392	461,846					
Crayfish	7,831	3,731	2,875	1,947	3,613					
Oysters	41	574	679	704	166					
Mining	2,856,306	2,419,006	2,060,048	2,037,838	2,345,366					
Gold	1,593,776	1,056,639	588,189	566,211	658,850					
Black	279,743	384,479	400,255	377.624	468,096					
Brown	422,933	468,868	526,530	565,055	641,069					
Other Metals and Minerals	128,330	123,443	136,621	153,077	120,206					
Quarrying	431,524	385,577	408,453	375,871	457,145					
Total Primary	70,162,628	78,448,889	79,842,524	78,575,991	82,644,095					
Manufacturing	110,937,614	121,379,747	123,330,518	122,377,307	122,406,082					
		-								
Grand Total	181,100,242	199,828,636	203,173,042	200,953,298	205,050,177					

VALUE AT THE PLACE OF PRODUCTION---continued.

The values of production of the various classes of production. Industry, as they appear in the previous table for the year 1945-46, 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.

Industry.		Value at Place of Production.	Cost of Production.*	Net Value.	Net Value per Head of Population.
Agriculture Pastoral Dairying Poultry and Bees	• • • • • •	£ 29,315,445 19,348,301 18,232,630 6,936,341	£ 8,988,607 1,250,355 3,200,643 1,154,780	£ 20,326,838 18,097,946 15,031,987 5,781,561	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Trapping, Forestry an	d				
Fisherics	• •	6,466,012	415,000†		3 0 0
Mining		2,345,366	610,789	1,734,577	$0\ 17\ 3$
Manufacturing	• •	122,406,082	••	122,403,082	<b>60 14</b> 7
Total	••	205,050,177	15,620,174	189,430,003	93 19 7

# VICTORIA--NET VALUE OF PRODUCTION, 1945-46.

\* Costs of production include stockfeed, seed costs and pickling, manures, spraying, sheep and cattle dips, power, fuel, water, and all other materials used in production. † Incomplete.

**Employment** in factories. 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, 1947, 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.

Month.		1941-42.	1942-43.	1943-44.	1944-45.	1945-46.	1946-47.	1947-48
July		1,796	1,851	1.863	1.832	1.805	1.879	1,952
August	• •	1,804	1,845	1.857	1,829	1,803	1,890	1,961
September	••	1,801	1,853	1,860	1,825	1,771	1,903	1,957
October		1,844	1.861	1.866	1,827	1,749	1,903	1,963
November		1,868	1,867	1,862	1,826	1,747	1,856	1,971
December		1,857	1,872	1,865	1,826	1,747	1.800	1.959
January		1,825	1,878	1,867	1.813	1,752	1.802	1,959
February		1,842	1.882	1,869	1.830	1,797	1,852	1.973
March		1,848	1,894	1,864	1,838	1,826	1,851	1,983
April		1,837	1,892	1,845	1,825	1,847	1,846	1,997
May		1,826	1.869	1.828	1,812	1.860	1,885	1,993
June		1,825	1,862	1,823	1,808	1,864	1,898	

INDEX OF FACTORY EMPLOYMENT.

Employment in Retail Trade. 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:---

		· · · ·					<u> </u>		
Month.		1940–41.	1941–42.	1942-43.	1943–44.	1944-45.	1945-46.	1946-47.	1947–48.
July		943	1,000	877	821	801	828	987	1,052
August		931	987	866	812	804	836	994	1,050
September		945	993	853	813	802	854	1,004	1,058
October		951	996	847	806	804	859	1,014	1,070
November		983	1,004	853	814	824	907	1,053	1,096
December		1,156	1,038	857	820	835	925	1,069	1,120
January	••	995	964	834	799	817	914	1,046	1,083
February	•••	961	954	832	796	818	933	1,048	1,090
March	•••	960	949	835	793	824	936	1,045	1,093
April		970	935	824	796	823	956	1,050	1,097
May		976	907	827	803	826	968	1,044	1,099
June		1,006	895	824	803	829	974	1,048	••
·				_			:		

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

### Victorian Year-Book, 1945-46.

Monthly employment in factories.

Statistics furnished by manufacturers include information relating to the number of employees on factory pay-rolls on the pay day nearest the 15th day of each month, including managers, clerks, engine-drivers, operatives, carters, and

# VICTORIA-MONTHLY EMPLOYMENT

					Avera	ge Number
Industry.			July.	August.	Septem- ber.	October.
Aerated waters			875	916	946	896
Agricultural implements			4,752	4,739	4,695	4,744
Aircraft			11,555	11,228	9,449	8,168
Arms			4,249	4,121	3,425	2,804
Artificial flowers	••		88	90	96	112
Bacon curing			692	714	704	669
Bags and sacks			149	155	149	158
Bags, trunks, &c.			740	743	746	765
Bakeries			3,151	3,164	3,171	3,187
Basketware	••		33	34	37	37
Bedding and mattresses			455	441	454	460
Biscuits		·	1,211	1,216	1,168	1,119
Boiling down, tallow, &c.			380	367	361	349
Boot accessories	••		212	207	212	208
Boot repairing	••		281	285	293	288
Boots and shoes			8,817	8,805	8,956	9,027
Bottling			272	268	263	267
Boxes and cases			1,910	1,908	1,910	1,878
Breweries	••		1,414	1,417	1,418	1,434
Bricks, tiles, firebricks		]	985	1,042	1,095	1,182
Brooms and brushware			630	620	611	504
Butter and cheese			3,397	3,493	3,802	3,997
Cabinet and furniture making			2,177	2,189	2,195	2,241
Cement and cement goods	••		857	871	899	918
Cereal foods			1,155	1,141	1,143	1,164
Chaffcutting			267	272	263	281
Chemical fertilizers			1,114	1,053	1,036	1,024
Chemicals-Industrial and hea	vy		1,724	1,684	1,689	1,649
Chemicals—Pharmaceutical	·		1,597	1,650	1,642	1,671
Condiments, coffee	••		1,442	1,437	1,418	1,424
Confectionery			2,177	2,171	2,194	2,179
Cooperage			173	170	167	168
Corsets, stays			845	846	.858	863
Cotton			2,748	2,720	2,717	2,735
Cutlery and small tools			1,561	1,557	1,531	1,528
Cycle and accessories		• •	500	491	514	526
Dehydrated fruit and vegetabl	es		541	521	570	561
Distilleries		• •	215	215	209	211
Dressmaking			8,880	9,008	9,074	9,213
Dyeworks and cleaning	••		1,716	1,743	1,837	1,885
Earthenware, china, &c.			988	979	991	1,041

messengers and all others engaged in work connected with manufacturing.

This information has been tabulated, and the monthly totals for each industry are set out in the following table :---

IN FACTORIES, 1945-46.

of Employees in-

November.	December.	January.	February.	March.	April.	May.	June.
1.016	1,066	1,066	1,097	1,086	1,008	958	920
4,825	4,859	4,896	4,897	4,966	4,958	4,982	5.007
7,842	7,550	7,457	7,168	7,139	7,143	6,996	6,986
2,114	2,004	1,998	2,004	1,929	1,978	1.965	1,931
125	121	126	129	132	155	163	173
683	705	704	712	702	695	707	724
164	159	163	163	163	167	166	166
789	819	846	861	875	905	928	957
3.212	3,246	3,268	3,323	3,355	3,437	3,464	3,482
39	43	44	47	47	44	46	43
468	470	437	472	491	507	520	520
1.067	1,114	1,061	1,049	1,047	1,101	1,092	1,152
349	346	347	342	331	333	347	360
213	205	191	207	221	227	234	234
292	298	312	321	326	331	338	338
9,113	9,135	9,050	9,272	9,445	9,704	9,935	9,969
277	329	307	319	327	342	370	361
1,873	1,868	1,881	1,910	1,906	1,914	1,930	1,914
1,453	1,505	1,550	1,553	1,589	1,628	1,663	1,680
1,278	1,289	1,383	1,449	1,501	1,616	1,704	1,735
488	484	489	498	524	545	574	606
4,131	4,082	3,933	3,788	3,845	3,915	3,961	3,962
2,322	2,407	2,584	2,768	2,907	3,003	3,049	3,084
911	931	962	1,014	1,067	1,070	1,115	1,149
1,154	1,148	1,138	1,178	1,200	1,203	1,226	1,216
302	294	326	363	353	358	351	358
999	1,026	1,226	1,213	1,275	1,419	1,456	1,269
1,627	1,578	1,505	1,507	1,504	1,542	1,539	1,530
1,686	1,690	1,625	1,666	1,751	1,790	1,823	1,845
1,417	1,393	1,359	1,418	1,438	1,429	1,470	1,476
2,193	2,199	2,036	2,147	2,220	2,242	2,311	2,332
172	180	189	185	188.	191	204	211
859	861	861	852	866	909	954	1,000
2,674	2,704	2,739	2,750	2,777	2,836	2,802	2,816
1,531	1,553	1,548	1,539	1,512	1,555	1,535	1,616
515	524	525	553	572	589	597	602
558	559	589	627	659	1,315	1,221	977
226	228	199	220	250	290	286	267
9,325	9,349	9,215	9,586	9,764	9,894	9,977	9,966
1,981	1,981	2,018	2,082	2,134	2,129	2,191	2,169
1,047	1,055	1,086	1,118	1,121	1,153	1,127	1,144

# VICTORIA-MONTHLY EMPLOYMENT IN

			Avera	ge Number
Industry.	July.	August.	Septem- ber.	October.
Electric light—Government	1,151	1,171	1.186	1,221
" Local authority	416	417	417	418
" Companies	70	70	70	70
Electrical apparatus	6,142	6,180	6,139	6,127
Electrotyping and stereotyping	54	56	52	54
Engineering (not marine or electrical)	6,360	6,313	6,124	6,043
Explosives	5,840	5,707	4,359	3,389
Extracting and refining-other metals	172	173	173	169
Fellmongery	659	586	598	591
Fibrous plaster	348	340	381	407
Flax mills	964	1,206	935	904
Foundries—Ferrous	2,536	2,523	2,504	2,487
Furnishing, drapery	220	229	240	247
Furriers	260	265	267	287
Galvanized iron working and tinsmithing	6,325	6,313	6,324	6,296
Gas fittings and meters	190	190	195	197
Gasworks—Local authorities	101	103	105	107
" Companies	1,090	1,103	1,099	1,101
Glass (including bottles)	883	858	874	874
Gloves	553	562	554	542
Gold, silver, and electroplating	375	387	406	445
Grain milling	793	815	825	830
Handkerchiefs, ties, &c	233	231	243	239
Hats and caps	651	655	653	658
Horse-drawn vehicles Hosiery and knitting	$\begin{array}{c} 138 \\ 10.985 \end{array}$	139	142	144 $10.924$
Teefinimeneting	2,736	10,861	10,877	
	2,730	$2,609 \\ 227$	$2,506 \\ 254$	$2,548 \\ 284$
	477	470	204 465	464
Tampa and found more and and	4,817	4.862	4,773	4.603
Jewellery	416	398	409	410
Joinery	1,609	1,621	1,659	1.694
Lime, plaster, and asphalt	203	193	189	1,001
Machine belting	132	135	130	132
Malting	384	371	375	372
Margarine	90	83	91	90
Marble, slate, &c	181	182	194	210
Meat and fish preserving	1,501	1,506	1,396	1,231
Millinery	990	992	1,027	1,033
Motor accessories	2,459	2,430	2,408	2,385
Motor body building	4,003	3,904	3,869	3,717
Motor construction and assembly	1,977	1,971	1,933	1,925
Motor repairs	4,728	4,767	4,863	4,945
Musical instruments	58	59	62	62
Newspapers	1,778	1,800	1,837	1,886
Non-ferrous metals-Rolling, founding, &c.	2,579	2,601	2,630	2,559
Oils, mineral	368	352	352	357
Oils, vegetable	96	99	95	91
Paper, paper bags, and cardboard boxes	3,711	3,711	3,717	3,726
Perambulators	126	132	131	142
Photo engraving	213	218	225	235

# FACTORIES, 1945-46-continued.

### of Employees in-

November.	December.	January.	February.	March.	April.	May.	June.
1,239	1,233	1,285	1,306	1,322	1,342	1,341	1,352
416	417	391	423	430	444	435	446
70	70	72	70	71	$\overline{72}$	73	73
6,107	.5,804	6,101	6,250	6,317	6,472	6,618	6,658
55	55	57	59	59	60	64	63
6,065	5,983	6,008	6,095	6,160	6,167	6,279	6,222
3,171	3,109	3,112	3,075	3,095	3,117	3,139	3,141
171	170	171	177	168	175	179	182
441	413	418	421	374	318	400	413
441	452	461	540	577	591	612	620
828	809	852	846	828	818	859	824
2,450	2,464	2,495	2,503	2,560	2,562	2,579	2,594
251	250	249	· 266	279	285	293	298
296	310	331	351	370	392	425	430
6,317	6,237	6,195	-6,355	6,362	6,545	6,648	6,670
198	203	213	216	222	224	227	228
105	103	106	109	112	110	109	110
1,117	1,155	1,141	1,158	1,156	1,181	1,197	1,211
882	909	944	949	970	970	989	992
547	559	568	566	589	612	634	613
-459	484	513	541	559	573	617	638
845	865	1,028	1,166	1,201	1,225	1,222	1,232
249	258	244	252	251	265	269	278
670	665	669	684	704	701	692	689
140	142	146	156	158	159	161	161
10,945	11,027	11,004	11,404	11,646	11,832	12,106	12,169
2,631	2,657	2,424	2,166	1,908	1,887	2,138	2,433
305	336	336	334	310	273	248	241
467	451	458	482	504	526	548	548
4,485	4,425	5,137	6,445	7,234	6,092	4,386	4,155
437	464	471	500	546	574	620	632
1,702	1,761	1,777	1,847	1,880	1,913	1,956	1,951
196	193	198	214	223	237	250	248
130	116	111	116	126	126	128	127
361	372	338	388	422	450	479	480
94	101	98	104	98	85	93	100
216	226	249	260	271	280	284	292
977	833	799	915	891	849	924	1,033
1,048	1,070	1,076	1,135	1,189	1,211	1,209	1,232
2,386	2,400	2,388	2,487	2,511	2,563	2,619	2,722
3,553	3,485	3,411	3,432	3,292	3,295	3,182	3,136
1,975	1,845	1,772	1,764	1,760	1,802	1,789	1,743
5,046	5,246	5,565	5,798	5,940	6,085	6,181	6,231
64	65	69	73	78	80	86	9(
1,983	2,036	2,103	2,162	2,216	2,269	2,322	2,437
2,523	2,546	2,599	2,662	2,672	2,740	2,775	2,787
398	399	408	410	390	396	366	366
107	117	107	105	107	98	100	118
3,676	3,773	3,770	3,878	3,972	4,013	4,060	4,079
157	170	169	179	182	178	182	173
242	254	259	285	302	310	314	319

642/48.--31

#### VICTORIA-MONTHLY EMPLOYMENT IN

· · · · · · · · · · · · · · · · · · ·				Avera	ige Numbe
Industry.		July.	August.	Septem- ber.	October.
Photographic material		980	971	971	976
Pickles and sauces		508	521	524	538
Picture frames		25	26	26	26
Pipes, tubes, and fittings		285	308	310	312
Plant equipment and machinery		13,638	13,529	13,341	13,125
Plastics		1,305	1,377	1,463	1,488
Printing and bookbinding	• •	5,293	5,295	5,347	5,394
Rope and cordage		1,755	1,771	1,725	1,700
Rubber goods (other)	• •	2,844	2,909	2,911	3,001
Rubber tyres, &c	• •	297	301	296	319
Saddlery, harness	• •	220	220	216	205
Sausage skins	• •	381	375	359	355
Sawmills	••	3,991	4,022	4,016	4,044
Ship and boat building	• •	3,389	3,384	3,258	2,996
Shirts, collars, &c	• •	3,162	$3,193 \\ 376$	3,198 383	3,168
Silk, natural and artificial	• •	373		1,151	388 1,100
Smelting, iron rolling	••	$1,199 \\ 724$	1,189	682	1,100
Soap and candle Stationery	• •	824	830	808	820
Gu 11.	••	824 784	807	805	819
Stoves and ovens	• •	528	518	528	528
Tailoring	••	7,820	7.801	7,815	7,923
Tanning and leather dressing		2.035	2,086	2,075	2,131
Tents and other canvas goods		492	475	487	455
Tobacco and cigarettes		2.002	1,999	2.009	1.997
Toys, games, &c		528	534	579	585
Tram and railway workshops		7.558	7.537	7,277	7,223
Umbrellas		22	22	22	22
Watches and clocks		454	465	456	455
Waterproof clothing		323	332	320	283
White lead, paint, &c.		555	558	597	604
Window blinds, &c		$5\tilde{2}$	57	57	- 55
Wireless apparatus		1,773	1,730	1,699	1,687
Wire working		1,031	1,039	1,017	1,014
Woodturning	••	770	788	787	811
Woollen mills		11,358	11,352	11,204	11,167
Other factories	• •	7,325	7,345	7,281	7,291
All industries—Total	••	246,891	246,594	242,239	239,308

#### BUILDING STATISTICS.

The collection of statistics relating to building construction in Victoria was first undertaken in 1929.

Since there is no system in existence which makes registration of builders obligatory it is not possible to ensure that a return is received from every builder. Furthermore, it is known that many former contractors, owing to the difficulty and delay in obtaining

#### FACTORIES, 1945-46-continued.

#### of Employees in-

November.	December.	January.	February.	March.	April.	May.	June.
980	991	953	947	957	984	979	977
589	607	611	657	709	651	633	574
25	37	40	44	44	46	44	46
308	310	354	344	337	330	336	327
12,996	12,952	12,812	12,894	13,005	13,034	13,070	13,095
1,574	1,602	1,531	1,670	1,676	1,741	1,777	1,770
$5,\!473$	5,577	5,648	5,844	6,029	6,112	6,184	6,240
1,707	1,696	1,634	1,679	1,690	1,730	1,740	1,778
3,133	3,246	3,208	3,348	3,448	3,539	3,574	3,603
324	331	338	344	357	359	377	361
185	151	147	138	131	143	144	142
-365	370	358	351	280	302	333	358
4,203	4,148	4,172	4,320	4,387	4,396	4,421	4,406
2,771	2,504	2,254	2,178	2,222	2,181	2,178	2,177
3,076	3,153	3,089	3,144	3,235	3,264	3,344	3,359
417	420	429	429	468	- 458	506	529
1,062	1,062	1,069	1,105	1,112	1,120	1,116	1,141
678	686	733	766	770	765	743	738
831	850	836	850	880	901	907	930
824	821	850	860	871	896	918	939
533	536	550	561	555	579	601	603
7,897	7,842	7,756	8,022	8,239	8,330	8,460	8,472
2,169	2,177	2,200	-2,272	2,295	2,337	2,453	2,433
461	475	457	433	446	434	422	430
2,034	2,034	2,031	2,110	2,145	2,115	2,267	2,196
601	592	580	612	637	652	683	703
7,245	7,272	7,170	7,179	7,191	7,190	7,189	7,176
22	22	22	23	23	23	24	25
469	478	476	498	510	510	509	518
287	287	291	278	273	289	279	275
639	649	666	. 674	691	705	700	716
57	60	62	68	64	72	74	75
1,694	1,729	1,797	1,807	1,663	1,808	1,772	1,790
1,020	964	962	990	1,026	1,059	1,093	1,085
831	838	826	. 870	889	915	917	922
11,181	11,231	11,102	11,266	11,431	11,555	11,776	11,740
7,328	7,402	7,575	7,784	7,831	8,010	8,097	8,117
238,933	238,946	239,694	245,805	249,586	252,649	254,323	254,994

materials are now working on a "wages only" or "wages and commission" basis frequently for "owner builders" from whom it has been found impracticable to obtain returns. The statistics presented therefore, while not an absolute measure of the value of the work done, serve as a good indication of the trend of building activities. The figures also provide valuable information relating to the division of the expenditure amongst the various trades engaged in and those dependent upon the industry, and also supply important data not otherwise available regarding the contribution of the building trade to the national income.

		Year ended 30th June-							
		1942.	1943.	1944.	1945.	1946.			
Number of returns*		687	431	392	545	2,005			
		£	£	£	£	£			
New buildings Repairs and additions Other construction		$\substack{6,969,431\\1,483,488\\704,059}$	$3,629,904 \\ 1,214,273 \\ 796,750$	$3,172,545 \\ 1,245,465 \\ 354,800$	3,068,482 1,537,395 430,420	$\substack{6,616,030\\2,426,110\\657,345}$			
Total	•••	9,156,978	5,640,927	4,772,810	5,036,297	9,699,485			

VICTORIA-VALUE OF BUILDING W	ORK.
------------------------------	------

 $\ast$  ''Number of returns'' means the number of returns received from builders who were actually operating in the period.

Returns received in respect of 1945–46 show that the number of persons employed in the industry (exclusive of sub-contractors and their employees) was as follows:—Working proprietors, 1,866; managers, 254; clerks, male 129; clerks, female 134; other workers, 8345. The total salaries and wages paid (exclusive of the drawings of working proprietors) was £2,380,154.

#### VICTORIA-PAYMENTS TO SUB-CONTRACTORS, 1945-46.

	£			£
Plasterers, including fibrous	387,867	Bricklayers		124,036
Plumbers	301,813	Tilers		192,204
Painters	159,197	Others		311,466
Electricians	107,923			
Carpenters and Joiners	190,091	Total	••'	1,774,597
		1		

The term "Others" in this statement includes sub-contractors for excavations, concreting, asphalting, &c. The term "sub-contractor" is intended to mean sub-contractor for "labour and material" only. Persons compiling returns were instructed to include sub-contractors for "labour only" under the heading of "persons employed," and the amount of the contract under "wages paid."

Materials The following statistics should be read in conjunction used. with the preceding table. The values of the various materials set out hereunder are exclusive of those supplied by sub-contractors.

		Value (Year ended 30th June)						
Materials.	1942.	1943.	1944.	1945.	1946.			
	£	£	£	£	£			
Timber and Joinery	1,545,457	1,030,499	824,723	983,634	1,728,159			
Bricks	508,193	157,673	126,405	183,082	371,236			
Iron and Steel	488,999	317,127	255,692	243,578	318,016			
Tiles	110,228	19,118	21,633	36,686	79,406			
Cement, Lime, and Sand	475,149	296,089	210,594	194,994	308,688			
Other Materials	879,937	509,727	466,549	500,532	908,746*			
Total	4,007,963	2,330,233	1,905,596	2,142,506	3,714,251			

#### VALUE OF MATERIALS USED.

\* Includes those items in the succeeding paragraph which are not marked "(incl. above)"

During 1945-46 the following individual items were collected for the first time, viz. :--Structural iron and steel, £273,756 (incl. above); corrugated roofing--iron, £44,260 (incl. above); corrugated roofing, fibro-cement, £76,637; fibro-cement sheets, £56,054; fibro-plaster sheets, £86,469; wall-boards (incl. plywood), £15,762; sand (incl. above), £91,941; crushed stone, £100,654; prefabricated housing units, £94,729.

In addition to payments for wages, materials, and sub-contracts, there are numerous other expenses incidental to building, such as fuel, insurance, building fees of various kinds, &c. These have been included under the heading of "Other expenses," and totalled £159,701 in 1941-42, £156,996 in 1942-43, £158,825 in 1943-44, £155,045 in 1944-45, and £304,285 in 1945-46.

Capital invested in plant and machinery amounted to £171,642 in 1941-42, £143,995 in 1942-43, £167,201 in 1943-44, £177,507 in 1944-45, and £341,474 in 1945-46; capital invested in land and buildings used as workshops amounted to £138,323 in 1941-42, £120,663 in 1942-43, £133,058 in 1943-44, £153,664 in 1944-45, and £260,199 in 1945-46.

The following table is an analysis of the buildings completed during the years 1942–43 to 1945–46. As some of these buildings were doubtless commenced in the previous year, the total value is not a measure of the value of building construction for each respective year. The table published at the beginning of this review shows the total value of construction and repair work done for those years.

642/48.-**32** 

#### VICTORIA-VALUE OF BUILDINGS COMPLETED. 1942 - 43TO 1945-46.

			June	-			
			1942.	1943.	1944.	1945.	1946.†
Business premises Other buildings	 		£ 1,418,129 3,033,096	£ 780,175 3,138,989	£ 1,081,013 2,015,291	£ 883,338 948,392	£ 939,693 993,454
Dwellings Brick Brick veneer ‡ Wood Concrete §	•••	· · · ·	1,667,999* 520,146	126,353* 63,715	39,457* 94,338	201,275* 119,626 355,509	$909,236 \\ 970,404 \\ 1,097,078 \\ 167,162$
Total value	•• .		6,639,370	4,109,232	3,230,099	2,508,140	5,077,027

\* Includes Flats for which no further particulars are available. 1942-43, £52,131 1943-44, £3,884; 1944-45, £4,050. † Dwellings includes "Flats, &c."-Brick, £133,800; brick veneer, £27,503; wood, £11,515. ‡ First collected 1944-45. § First collected 1945-46.

Prior to 1945-46 information collected regarding dwellings was confined to those constructed of brick and of wood respectively. During that year the collection was extended to embrace brick veneer dwellings. A summary of the results is set out in the following table :----

#### VICTORIA—DWELLINGS CONSTRUCTED, 1945–46.

		Dwellings										
Number of Rooms,		Brick.			rick Veneo	er.	Other Wood-framed.					
	Number.	Value,	Average Value per Dwelling.	Number.	Value.	Average Value per Dwelling.	Number.	Value.	Average Value per Dwelling.			
Three Four Five Six Seven Eight Nine Ten	$ \begin{array}{c} 12\\ 147\\ 364\\ 91\\ 17\\ 3\\ \dots\\ \end{array} $	$\begin{array}{r} \pounds \\ 8,920 \\ 161,076 \\ 464,579 \\ 111,495 \\ 24,110 \\ 5,256 \\ \\ \end{array}$	£ 743 1,096 1,276 1,225 1,418 1,752 	$     \begin{array}{r}       14 \\       184 \\       458 \\       89 \\       5 \\       1 \\       \dots \\       \dots \end{array} $	$\begin{array}{c} \pounds \\ 9,212 \\ 215,511 \\ 580,276 \\ 124,802 \\ 10,100 \\ 3,000 \\ \ddots \\ \ddots \end{array}$	$\begin{array}{c} \pounds \\ 658 \\ 1,171 \\ 1,267 \\ 1,402 \\ 2,020 \\ 3,000 \\ \\ \ddots \\ \\ \ddots \end{array}$	$72 \\ 338 \\ 561 \\ 136 \\ 17 \\ 3 \\ \\ 1$	$\begin{array}{r} \pounds \\ 33,703 \\ 288,082 \\ 577,446 \\ 157,576 \\ 23,149 \\ 4,107 \\ \\ 1,500 \end{array}$				
Över ten Total	634		1,223				1,128	${1.085,563}$	962			

The total number of concrete houses erected was 166 valued at £167.162.

The value of flats, semi-detached houses, and maisonettes erected during the year was as follows :- Brick, £133,800; brick veneer, £27,503; and wood, £11,515. This represented approximately 170 dwelling units and is not included in the preceding table.

Further reference to building will be found in Part "Local Government" of this volume under the heading "Housing".